

STEEL STANDARDS FOR HIGH-CAPACITY PILES

ASTM A252



STEEL PIPE PILES

ASTM A500



GRADES B & C

DESCRIPTION		
	Specification for welded steel pipe piles	Specification for welded steel structural tubing in rounds and shapes
INTENDED USE	Steel pipe piles of cylindrical shape, in which the steel cylinder acts as a permanent load-carrying member, or as a shell to form cast-in-place concrete piles	Welded, riveted or bolted construction of bridges and buildings, and for general structural purposes

TECHNICAL INFORMATION

SPECIFICATIONS	ASTM A252		ASTM A500	
STRENGTH LEVELS	Grade 2	Grade 3	Grade B	Grade C
Yield Strength	35,000 psi min.	45,000 psi min.	46,000 psi min.	50,000 psi min.
Tensile Strength	60,000 psi min.	66,000 psi min.	58,000 psi min.	62,000 psi min.
Elongation % in 2" Min.	25	20	23	21
Meets AWS D1.1 Base Metal Welding Requirements	Yes	Yes	Yes	Yes

CHEMISTRY LEVELS	All Grades	Grade B	Grade C
Carbon	N/A	0.26 max.	0.23 max.
Manganese	N/A	1.35 max.	1.35 max.
Phosphorus	0.050 max.	0.035 max.	0.035 max.
Sulphur	N/A	0.035 max.	0.035 max.
Silicon	N/A	N/A	N/A
Grain Refining Elements	N/A	N/A	N/A

TOLERANCES	All Grades	All Grades
OD Size		
≤ 1.9"	+/- 1%	+/- 0.50%
≥ 2.0"	+/- 1%	+/- 0.75%
Wall Thickness	-12.5%	+/- 10%
Weight	+15%/-5%	Not specified
Straightness (max. allowed)	Not specified	1/8" x length (in feet) ÷ 5

NOTE: Always refer to the current revision level of all standards.

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1855 East 122nd Street
Chicago, IL 60633
P 800.733.5683
F 773.646.6128



200 Clark Street
Harrow, ON N0R 1G0
P 800.265.6912
F 519.738.3537

sales@atlastube.com
atlastube.com

Atlas Tube
A ZEKELMAN COMPANY