



# ASTM A589 Type E, Grade B, Type IV Pipe

SUBMITTAL DATA

## SCOPE

Covers black and hot-dipped galvanized Electric Resistance Welded Grade B, Type IV, Water-Well Casing Pipe. Pipe is intended for use in water wells. Pipe is suitable for welding. Pipe produced to latest revisions of ASTM A589/A589M.

## HOT-DIPPED GALVANIZED

The average weight of zinc coating determined by the ASTM A90 method shall be not less than 1.8 oz. per sq. ft. of surface (inside and outside). When galvanized pipe is bent or otherwise fabricated to a degree which causes zinc coating to stretch or compress beyond the limit of elasticity, some flaking of the coating may occur.

## BLACK PIPE

The average thickness of black water base paint is 1 mil on the outside surface of the pipe.

## HYDROSTATIC TESTING

Hydrostatic test pressures for plain-end pipe are indicated below. Test pressure shall be maintained for a minimum of 5 seconds.

Outside diameter	Thickness	Test pressure (PSI)
3.5	0.125	1100
4.0	0.134	1000
4.5	0.142	950
6.625	0.188*	850

## END FINISH

**Plain end:** are beveled to a angle of 30°, + 5° – 0°, as measured from a line drawn perpendicular to the axis of the pipe, with a root face of 1/16 ± 1/32

## CHEMICAL REQUIREMENTS

Composition max % Phosphorus: .050, Sulfur: .060

## TENSILE REQUIREMENTS

Tensile Strength: 60000 psi (415 MPa) minimum

Yield Strength: 35000 psi (240 MPa) minimum

Elongation: Refer to equation Article 9.1

## DIMENSIONS AND WEIGHTS (Black plain end)

NPS	OD inches	Thickness inches	weight Lb/Ft
3	3.500	0.125	4.51
3 ½	4.000	0.134	5.53
4	4.500	0.142	6.61
6	6.625	0.188*	12.92

\* in lieu of 0.185

## PERMISSIBLE VARIATIONS IN WALL THICKNESS, OUTSIDE DIAMETER, WEIGHT PER FOOT

Minimum wall thickness at any point shall not be more than 12.5% under nominal wall thickness specified.

Pipe Diameter NPS 2 and over: ± 1%

Pipe weight per foot shall not vary more than ± 5% from the standard specified

## PRODUCT MARKING

Each length of pipe 2 NPS and larger is continuously stenciled to show the manufacturer name, "Made in Canada", the grade of pipe (ASTM A589), the kind of pipe (E for electric-resistance welded, B for Grade B), the size, length, galvanized lot number and date. Bar coding is acceptable as a supplementary identification number.

All information contained herein is accurate as know at the time of publication. Nova Tube Inc. reserves the right to change product specifications without notice and without incurring obligation. (January 4<sup>th</sup>, 2017)

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