



ASTM A795 Type E, Grade A Pipe

SUBMITTAL DATA

SCOPE

Covers black and hot-dipped galvanized Electric Resistance Welded, Grade A pipe. Pipe is intended for use in fire protection systems. Pipe produced under ASTM A795 is UL, ULC listed, sizes 1 1/4" to 6" S10 and FM approved S10, S40 (not included 3 1/2, 5), for use in Fire Sprinkler Pipe applications. Light-weight pipe is suitable for joining by welding and by rolled grooving while the standard-weight pipe is suitable cut or rolled groove, threading, and welding. Produced to latest revisions of ASTM A795/A795M and ASME B36.10M. Pipe is also certified NSF/ANSI 372 Drinking Water System Components - Lead Content for sizes 1/2" to 6" S10, S40, S80 and NSF/ANSI 61 Drinking Water System Components - Health Effects for sizes 1/2" to 2" S10, S40, S80.

HOT-DIPPED GALVANIZED

The average weight of zinc coating determined by the ASTM A90 method shall be not less than 1.5 oz. per sq. ft. of surface (inside and outside), and 1.8 oz. per sq.ft if UL /ULC marked.

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 and NONDESTRUCTIVE ELECTRIC TESTING

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

*As an alternative to the hydrostatic test, each length of ERW pipe can be tested with a nondestructive electric test.

NPS	S10 and S40	Hydro test
1 1/4	1200	tested
1 1/2	1200	tested
2	1200	tested
2 1/2	1200	tested
3	1200	tested
3 1/2	1200	tested
4	1200	tested
5	1200	tested
6	1200	tested

END FINISH

Plain end: NPS 1 1/4 and larger: ends are beveled top a angle of 30°, + 5° - 0° with a root face of 1/16 ± 1/32

Threaded: To ANSI Standard B1.20.1, **Couplings:** To ASTM Standard A865, **Rolled groove:** CSA B242 standard

CHEMICAL REQUIREMENTS

Composition, max % » Carbon: 0.25, Manganese: 0.95, Phosphorus: .035, Sulfur: .035

TENSILE REQUIREMENTS

Not required

FLATTENING TEST

As a test for quality of the weld, position of the weld at 90° from the direction of force and flatten until the OD is 2/3 of the original outside diameter. No cracks shall occur along the inside or outside surface of the weld.

DIMENSIONS AND WEIGHTS (plain end)

NPS	OD inches	S10 wall inches	S10 weight lb/ft	S40 wall inches	S40 weight lb/ft
1 1/4	1.660	.109	1.81	0.140	2.27
1 1/2	1.900	.109	2.09	0.145	2.72
2	2.375	.109	2.64	0.154	3.66
2 1/2	2.875	.120	3.53	0.203	5.80
3	3.500	.120	4.34	0.216	7.58
3 1/2	4.000	.120	4.98	0.226	9.12
4	4.500	.120	5.62	0.237	10.80
5	5.563	.134	7.78	0.258	14.63
6	6.625	.134	9.30	0.280	18.99

PERMISSIBLE VARIATIONS IN WALL THICKNESS, IN OUTSIDE DIAMETER, IN 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 Diameter NPS 1 1/2 and under: ± 1/64 in.

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

PRODUCT MARKING

Each length of pipe 1 1/4 NPS and larger is continuously stenciled to show the manufacturer name, "Made in Canada", the grade of pipe (ASTM A795), the kind of pipe (E for electric-resistance welded, A for Grade A), the size (S10 for light wall, S40 for standard), length, the letters "NH" if not hydrostatically tested, Galvanized lot number and date. Stencil markings indicate UL, ULC listing (ULC, UL LISTED 22ZL STEEL SPRINKLER PIPE) and « FM » approved for sizes mentioned in scope for use in Fire Sprinkler Pipe applications. 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 4th, 2017)

Prepared by: Martin Bolduc B.Eng.

Nova Tube Inc.
5870, rue St-Patrick
Montréal, P.Q.
Canada, H4E 1B3

Tel : +1 514-789-0511
Toll free : 1-866-953-7751
Fax : +1 514-366-3176