

# SUBMITTAL DATA SHEET

## ASTM A795 Type E, Grade A

### Approvals and Specifications

This product meets the following standards:

- Hydrostatically tested
- Nondestructive electric test
- Flattening tested for NPS 1" and greater
- UL Sprinkler Pipe
- FM Approval Class 1630
- NSF 61 & 372
- NFPA 13
- Made in Canada

### Product Marking

Each length of pipe 1" NPS and larger is continuously stenciled to show:

- The manufacturer name
- Made in Canada
- Grade
- Type of pipe
- Size
- Length
- Heat number (if required)
- Lot number (if galvanized)
- Date

### Dimensions and Weights

NPS	OD (in.)	S10 Wall (in.)	S10 Weight (lb./ft)
1	1.315	0.109	1.41
1 ¼	1.660	0.109	1.81
1 ½	1.900	0.109	2.09
2	2.375	0.109	2.64
2 ½	2.875	0.120	3.53
3	3.500	0.120	4.34
3 ½	4.000	0.120	4.98
4	4.500	0.120	5.62
5	5.563	0.134	7.78
6	6.625	0.134	9.30



### Scope

Covers bare, black and hot-dipped galvanized Electric Resistance Welded, Grade A Pipe. These pipes are intended for use in fire protection systems. Nova Steel's pipes produced under ASTM A795 are UL, ULC Listed sizes 1" to 8" S10 and FM Approved sizes 1" to 6" S10, for use in Fire Sprinkler applications. Light-weight pipe is suitable for joining by welding and by rolled grooving while standard weight pipe is suitable cut or rolled groove, threading and welding. Produced to latest revisions of ASTM A795/ A795M and ASME B36.10M.

# SUBMITTAL DATA SHEET

## ASTM A795 Type E, Grade A

### Hot-Dipped Galvanized

The average weight of zinc coating determined by the ASTM A90 testing method shall not be less than 1.5 oz. per sq. ft of surface (inside and out), and 1.8 oz. per sq.ft if FM 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.

### 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. Nondestructive electric testing of the weld seam is done on each length of ERW pipe NPS 1" and larger.

NPS (in.)	S10	Hydro test
1	1200	Tested
1 ¼		
1 ½		
2		
2 ½		
3		
3 ½		
4		
6		
8		

### End Finish

Plain end: NPS 1" and larger: ends are bevelled.

### Chemical Requirements

Composition, max % Carbon: 0.25, Manganese: 0.95, Phosphorus: 0.035, Sulfur: 0.035

### Flattening Test

NPS 1" and greater: 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 diameter. No cracks shall occur along the inside or outside surface of the weld.

### 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  $\pm 1\%$ .
- Pipe diameter NPS 1 ½" and under  $\pm 1/64"$ .
- Pipe weight per foot shall not vary more than  $\pm 5\%$  from the nominal weight.