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AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures[1]

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1. Scope

1.1 This specification covers hot-dipped galvanized welded steel pipe in NPS 1 (Note 1) to NPS 8, inclusive, with nominal (average) wall thickness as given in Table 1 and Table 2. Pipe having other dimensions (Note 2) may be furnished provided such pipe complies with all other requirements of this specification. Pipe ordered under this specification is intended for use as a structural support for fencing in accordance with Specification F 1043, Group 1A.

NOTE 1—The dimensionless designator NPS (nominal pipe size) has been substituted in this specification for such traditional terms as nominal diameter, size, and nominal size.

NOTE 2—A comprehensive listing of standardized pipe dimensions is contained in ANSI B 36.10.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 *ASTM Standards:*

A 53 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless[2]

A 90/A 90M Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles[3]

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment[4]

B 6 Specification for Zinc (Slab Zinc)[5]

E 8 Test Methods for Tension Testing of Metallic Materials[6]

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications[7]

F 1043 Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework[3]

2.2 *ANSI Standard:*

B 36.10 Welded and Seamless Wrought Steel Pipe[8]

3. Ordering Information

3.1 Orders for material under this specification shall include the following as required, to describe the desired material adequately:

3.1.1 Specification designation,

3.1.2 Quantity (feet, metres, or number of lengths),

3.1.3 Name of material (steel pipe),

3.1.4 Method of manufacture (electric-resistance welded or furnace welded),

3.1.5 Type (Table 1 or Table 2),

3.1.6 Size (NPS designator and weight class; or outside diameter and nominal wall),

3.1.7 Length (see Section 14),

3.1.8 Certification (see 18.1), and

3.1.9 Selection of applicable level of preservation and packaging required, if other than in accordance with Practices A 700 (see 19.1).

4. Process

4.1 The steel for welded pipe shall be made by one or more of the following processes: electric-furnace, open hearth, or basic-oxygen. The steel for welded pipe shall be of soft weldable quality.

4.2 Welded pipe NPS 4 and under may be butt-welded, unless otherwise specified. Welded pipe over NPS 4 shall be electric-welded.

5. Coating

5.1 Pipe shall be coated with zinc inside and outside by the hot-dip process.

5.2 The zinc used for the coating shall be any grade of zinc conforming to Specification B 6.

6. Tensile Requirements

6.1 Pipe furnished to this specification shall meet the following minimum tensile requirements when tested in accordance with Test Methods E 8.

6.1.1 *Tensile Strength*—Minimum tensile strength shall be 48 000 psi (330 MPa).

[1] This specification is under the jurisdiction of Committee F-14 on Fences and is the direct responsibility of Subcommittee F14.50 on Chain Link Post and Rail.

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[2] *Annual Book of ASTM Standards*, Vol 01.01.

[3] *Annual Book of ASTM Standards*, Vol 01.06.

[4] *Annual Book of ASTM Standards*, Vol 01.05.

[5] *Annual Book of ASTM Standards*, Vol 02.04.

[6] *Annual Book of ASTM Standards*, Vol 03.01.

[7] *Annual Book of ASTM Standards*, Vol 14.02.

[8] Available from American National Standards Institute 11 W. 42nd St., 13th Floor, new York, NY 10036.