



Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets¹

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1. Scope

1.1 This specification establishes the minimum requirements for coated tubular picket ornamental fence systems fabricated from galvanized steel components.

1.2 The requirements of this specification do not apply to vertical bar fence systems utilizing solid bar or wrought iron materials.

1.3 The values stated with in-pound units are to be regarded as standard. The SI values in parentheses are provided for information.

2. Referenced Documents

2.1 ASTM Standards:²

[A239 Practice for Locating the Thinnest Spot in a Zinc \(Galvanized\) Coating on Iron or Steel Articles](#)

[A653/A653M Specification for Steel Sheet, Zinc-Coated \(Galvanized\) or Zinc-Iron Alloy-Coated \(Galvannealed\) by the Hot-Dip Process](#)

[A1008/A1008M Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable](#)

[A1011/A1011M Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength](#)

[B117 Practice for Operating Salt Spray \(Fog\) Apparatus](#)

[D523 Test Method for Specular Gloss](#)

[D714 Test Method for Evaluating Degree of Blistering of Paints](#)

[D822 Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings](#)

[D1654 Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments](#)

[D2244 Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates](#)

[D2794 Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation \(Impact\)](#)

[D3359 Test Methods for Measuring Adhesion by Tape Test](#)

[E4 Practices for Force Verification of Testing Machines](#)

[F2814 Guide for Design and Construction of Ornamental Steel Picket Fence Systems for Security Purposes](#)

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *adhesion*—the bonding integrity of an organic coating to the base metal substrate.

3.1.2 *corrosion resistance*—the ability of an organically coated metal product to resist attack due to the base metal attempting to return to a more passive oxidized state.

3.1.3 *fence panel*—fabricated unit consisting of rails and pickets. Also referred to as a fence section.

3.1.4 *impact resistance*—the measure of an organically coated metal product to resist indentation; the ability of a coating to resist cracking or loss of adhesion due to reforming the metal during bending or a shape change from abuse.

3.1.5 *ornamental accessory*—any fitting that adds further decoration to an ornamental metal fence system including items such as finials, caps, picket collars, rings, scrolls, or other ornamental panel inserts.

3.1.6 *post*—vertical fence structural component that supports the panel in the ornamental metal fence system.

3.1.7 *rail*—horizontal structural component of a fence panel.

3.1.8 *tubular picket*—hollow vertical ornamental component of a fence panel.

3.1.9 *tubular picket ornamental metal fence system*—an architectural metal fence system that combines ornamental fence structural components (that is, tubular pickets, rails, and posts) with ornamental accessories and fasteners, assembled and evaluated as a complete installed structure.

¹ This specification is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.35 on Architectural Metal Fence Systems.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.