
Standard Specification for Steel Fence Posts, Hot-Wrought

AASHTO Designation: M 281-24

Technically Revised: 2024

Technical Subcommittee: 4d, Safety Devices

ASTM Designation: A702-22



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1.

This specification covers steel fence posts manufactured from hot-wrought sections and intended for use in field and line fencing.
- 1.2.

The posts are available as studded tee and are furnished painted or galvanized, unless otherwise specified.
- 1.3.

The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

2. REFERENCED DOCUMENTS

- 2.1.

AASHTO Standards:

■

M 111M/M 111, Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

■

M 232M/M 232, Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- 2.2.

ASTM Standards:

■

A29/A29M, Standard Specification for General Requirements for Steel Bars, Carbon and Alloy, Hot-Wrought

■

A36/A36M, Standard Specification for Carbon Structural Steel

■

A499, Standard Specification for Steel Bars and Shapes, Carbon Rolled from “T” Rails

■

A641/A641M, Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

■

A700, Standard Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment
- 2.3.

Federal Standard:

■

Fed Std. No. 123, Marking for Shipment (Civil Agencies)
- 2.4.

Military Standards:

■

MIL-STD-129, Marking for Shipment and Storage

■

MIL-STD-163, Steel Mill Products, Preparation for Shipment or Storage

3. TERMINOLOGY

3.1. *Definition:*

3.1.1. *line posts*—posts that support the straight-line body of the fence.

4. ORDERING INFORMATION

4.1. *Orders for products under this standard should include the following information:*

4.1.1. Quantity (number of pieces) of line posts (it is customary to order line posts in multiples of five of the required length);

4.1.2. Length or lengths required (see Section 7.2);

4.1.3. Finish—galvanized or painted;

4.1.4. AASHTO designation and date of issue;

4.1.5. Anchor plates, if required (see Section 7.2.4); and

4.1.6. Wire fasteners (state weight of zinc coating if other than Class 1) (see Sections 6.5.2).

Note 1—A typical ordering description is as follows: 500 line posts; 8 ft long; painted: AASHTO M 281-____; omit anchor plates.

5. GENERAL REQUIREMENTS

5.1. Material furnished under this specification shall conform to the general requirements of the current edition of ASTM A29/A29M unless otherwise provided herein.

6. MATERIALS AND MANUFACTURE

6.1. *Material:*

6.1.1. Line posts shall be fabricated from Steel A as specified in Table 1.

6.1.2. The finished line post shall conform to the tensile properties specified in Table 1.

6.1.3. At the manufacturer's option, a Brinell or Rockwell B hardness test may be substituted for the tensile requirements in Table 1. In such cases, the material shall conform to the Brinell or Rockwell B hardness specified in Table 2.
