
Standard Specification for Metallic-Coated, Steel Woven Wire Fence Fabric

AASHTO Designation: M 279-14 (2018)

Technical Subcommittee: 4d, Safety Devices

Release: Group 2 (June)

ASTM Designation: A116-11



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

- 1.1. This specification covers metallic-coated steel fence fabric having a series of horizontal (line) wires, with vertical (stay) wires either wrapped around the line wire (hinge joint) or fixed with another separate wire to the line wire (continuous stay fixed knot joint), forming rectangular openings. The fence fabric is suitable for use in fences for farm field enclosures (to keep domestic animals in or out), for wildlife and exotic animal control, for highway or railroad right-of-way fencing (to control access), and other similar uses.
- 1.2. This specification covers fence fabric in various designs, tensile strength grades, and metallic coating types and grades.
- 1.3. The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.
- 1.4. The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- T 65M/T 65, Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
 - T 213M/T 213, Mass [Weight] of Coating on Aluminum-Coated Iron or Steel Articles
 - T 244, Mechanical Testing of Steel Products
- 2.2. *ASTM Standards:*
- A510/A510M, Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel
 - 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
 - A809, Standard Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire

- A856/A856M, Standard Specification for Zinc-5% Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire
- A902, Standard Terminology Relating to Metallic Coated Steel Products

2.3. *Federal Standard:*

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

2.4. *Military Standards:*

- MLD-STD-129, Marking for Shipment and Storage
- MIL-STD-163, Steel Mill Products, Preparation for Shipment and Storage

3. TERMINOLOGY

3.1. *Definitions*—For definitions of terms used in this specification, refer to Terminology ASTM A902.

3.2. *Description of Terms Specific to This Standard:*

- 3.2.1. *continuous stay fixed knot joint*—horizontal line wire and vertical stay wire joint made by fastening continuous stay wires to line wires by tying them together with a separate piece of knot wire at each joint.
- 3.2.2. *hinge joint*—horizontal line wire and vertical stay wire joint made by wrapping stay wire around line wires.
- 3.2.3. *intermediate wires*—line wires other than top and bottom wires.
- 3.2.4. *top and bottom wires*—line wires at the edge of the fence fabric (the top and bottom edges are erected).

4. ORDERING INFORMATION

4.1. *Orders for material purchased under this specification should include the following information, as necessary to describe each product ordered:*

- 4.1.1. Name of material and joint style (woven steel fence fabric with hinge joint or continuous stay fixed knot joint);
- 4.1.2. Quantity (number of rolls);
- 4.1.3. Design Number describing standard sizes and construction of the fabric as listed in Table 1;
Note 1—The design numbers are related to the characteristics of the construction of the fence fabric. The design number indicates the number of the line wires, approximate height, stay wire spacing, and size (gauge) of the line and stay wires.
- 4.1.4. Fabric length (when length is not specified by the order, fabric is furnished to standard length of 330 ft (101 m));
- 4.1.5. Tensile strength grade—the fabric is available in strength grades of 60, 125, and 175 (see Table 1).