



Designation: F 1183 – 96

Standard Specification for Aluminum Alloy Chain Link Fence Fabric¹

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1. Scope

1.1 This specification covers aluminum alloy chain link fence fabric for commercial, industrial, and residential uses.

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

2. Referenced Documents

2.1 ASTM Standards:

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment²

B 211 Specification for Aluminum and Aluminum-Alloy Bar, Rod, and Wire³

2.2 Federal Standards:

Fed. Std. No. 123 Marking for Shipment, Civil Agencies⁴

2.3 Military Standards:

MIL-STD-129 Marking for Shipment and Storage⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *chain link fence fabric*—a fencing material made from wire helically wound and interwoven in such a manner as to provide a continuous mesh without knots or ties, except in the form of knuckling or of twisting the ends of the wires to form the selvage of the fabric.

3.1.2 *diamond count*—the number of diamond openings from one edge of the fabric to the other. The diamond count of a given fabric shall begin at the first completed diamond at one edge and continue to the unfinished (one-half) of full opening at the other edge.

3.1.3 *knuckling*—a term used to describe the type of selvage obtained by interlocking adjacent pairs of wire ends and then

bending the wire ends back into a loop. The loop shall be closed or nearly closed to a measurement less than the diameter of the wire.

3.1.4 *twisting*—a term used to describe the type of selvage obtained by twisting adjacent pairs of wire ends together in a close helix of 1½ machine turns, which is equivalent to three full twists, and cutting the wire ends at an angle. The wire ends beyond the twist shall be at least ¼ in. (6.35 mm) long. This type of selvage is not used on fabric with a mesh size of less than 2 in.

4. Ordering Information

4.1 Orders for chain link fence fabric purchased to this specification shall include the information given in 4.1.1 through 4.1.8.

4.1.1 Quantity (Section 13),

4.1.2 Size of mesh (Section 7),

4.1.3 Size of wire (Section 8),

4.1.4 Height of fabric (Section 9),

4.1.5 Diamond count, if specified (Section 6),

4.1.6 Type of selvage (Section 10),

4.1.7 Certification, if required (Section 16), and

4.1.8 ASTM designation and year of issue.

4.2 All rolls of fencing accepted by the purchaser shall be billed on the basis of the original footage of the rolls prior to sampling, unless changed by contractual arrangement.

NOTE 1—An example of a typical ordering description is as follows: 25 rolls, 50 ft each, chain link fence fabric, aluminum alloy, 2 in. (50.8 mm) mesh, 0.148 in. (3.76 mm) wire, 60 in. high, knuckled both selvages, to ASTM F 1183 – _____.

5. Materials

5.1 The wire from which the fabric is woven shall conform to all requirements of alloy 6061, temper T94 described in Specification B 211.

6. Weave

6.1 The wire shall be woven throughout in the form of approximately uniform square mesh, having parallel sides and horizontal and vertical diagonals of approximately uniform dimensions. The top and bottom of the fabric shall be knuckled or twisted as specified in Section 10.

¹ This specification is under the jurisdiction of ASTM Committee F-14 on Fences and is the direct responsibility of Subcommittee F14.40 on Chain Link Fabric and Wire Accessories.

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² *Annual Book of ASTM Standards*, Vol 01.05.

³ *Annual Book of ASTM Standards*, Vol 02.02.

⁴ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.