



Designation: A184/A184M – 17

Standard Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement¹

This standard is issued under the fixed designation A184/A184M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 This specification covers material in mat (or sheet) form fabricated from deformed steel bars to be used for the reinforcement of concrete. Mats consist of two layers of bars that are assembled at right angles to each other. Mats are assembled by welding at the intersections.

1.2 This specification is applicable for orders in either inch-pound units (as Specification A184) or SI units (as Specification A184M).

1.3 The values stated in either inch-pound units or SI units are to be regarded as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with this specification.

1.4 *This specification does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this specification to establish appropriate safety, health and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.05 on Steel Reinforcement.

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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.

[A615/A615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement](#)

[A700 Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment](#)

[A706/A706M Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement](#)

2.2 *U.S. Military Standard:*

[MIL-STD-129 Marking for Shipment and Storage³](#)

2.3 *U.S. Federal Standard:*

[Fed Std No. 123 Marketing for Shipments \(Civil Agencies\)³](#)

3. Ordering Information

3.1 Orders for welded steel bar mats for concrete reinforcement under this specification shall contain the following information:

3.1.1 Quantity of mats,

3.1.2 Bar designation number (size), length, and spacing of bars in each direction,

3.1.3 Grade required (Grade 40 or 60) [280 or 420],

3.1.4 Type of steel (see Section 4.1), and

3.1.5 ASTM designation A184/A184M and year of issue.

NOTE 1—A typical ordering description is as follows: 1000 bar mats to ASTM A184– ; fabricated from Grade 40 bars to ASTM A615– ; 6 by 6 in.; No. 4 by 120 in. longitudinal tip to tip, outer bars spaced 54 in.; No. 3 by 60 in. transverse, outer bars spaced 114 in.

[1000 bar mats to ASTM A184M– ; fabricated from Grade 280 bars to ASTM A615M– ; 150 by 150 mm; No. 10 by 3000 mm longitudinal tip to tip, outer bars spaced 1350 mm; No. 10 by 1500 mm transverse, outer bars spaced 2850 mm.]

3.2 The purchaser shall have the option to specify additional requirements, including but not limited to, the following:

3.2.1 Requirements for inspection (10.1),

3.2.2 Packaging and special package marking requirements (Section 12), and

3.2.3 Other special requirements, if any.

4. Materials and Manufacture

4.1 Deformed steel bars of Grades 40 [280] used in the manufacture of welded mats shall conform to Specification

³ Available from DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA 19111-5094, <http://quicksearch.dla.mil>.

*A Summary of Changes section appears at the end of this standard