



Designation: A184/A184M – 24

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 are made from two layers of bars that are assembled by welding the intersections at right angles to each other.

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 separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with this specification.

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.

1.5 *This standard 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 standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *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.*

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.

Current edition approved May 1, 2024. Published May 2024. Originally approved in 1936. Last previous edition approved in 2019 as A184/A184M – 19. DOI: 10.1520/A0184_A0184M-24.

2. Referenced Documents

2.1 ASTM Standards:²

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

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

2.2 AWS Standard:³

[AWS D1.4/D1.4M Structural Welding Code – Steel Reinforcing Bars](#)

2.3 U.S. Military Standard:⁴

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

2.4 U.S. Federal Standard:⁴

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

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 4.1), and

3.1.5 ASTM designation A184 [184M] and year of issue.

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.

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.

³ Available from American Welding Society (AWS), 8669 NW 36 St., #130, Miami, FL 33166-6672, <http://www.aws.org>.

⁴ 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