



Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Fabric for Reinforcement¹

This standard is issued under the fixed designation A 884/A 884M; 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 Department of Defense.

1. Scope*

1.1 This specification covers plain and deformed steel wire and plain and deformed steel welded wire fabric with protective epoxy coating. A Class A minimum coating thickness is required for wire and welded wire fabric intended for use as reinforcement in concrete and masonry. A Class B minimum coating thickness is required for wire and welded wire fabric intended for use as reinforcement in earth. A Type 1 coating is a fusion-bonded epoxy coating that has been designed to be sufficiently flexible to allow fabrication of the coated wire or welded wire fabric. A Type 2 coating is a fusion-bonded epoxy coating that has not been designed to be sufficiently flexible to allow fabrication of the coated wire or welded wire fabric.

NOTE 1—The coating applicator is identified throughout this specification as the manufacturer.

1.2 Other organic coatings may be used provided they meet the requirements of this specification.

1.3 This specification is applicable for orders in either SI units (Specification A 884M) or in inch-pound units [Specification A 884].

1.4 The values stated in either SI or inch-pound units are to be regarded as standard. Within the text, the inch-pound 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 except as specifically noted in Table 1. Combining values from the two systems may result in nonconformance with this 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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

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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TABLE 1 Test Requirements

Wire Size No. MW or MD, mm	Wire Size No. W or D, in.	Mandrel Diameter, mm [in.]	Time to Complete, s (maximum)
6.5 to 39	1 to 6	twice the diameter of the wire being tested	15
>39	>6	four times the diameter of the wire being tested	45

A 82 Specification for Steel Wire, Plain, for Concrete Reinforcement²

A 185 Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement²

A 496 Specification for Steel Wire, Deformed, for Concrete Reinforcement²

A 497 Specification for Steel Welded Wire Fabric, Deformed, for Concrete Reinforcement²

A 775/A 775M Specification for Epoxy-Coated Steel Reinforcing Bars²

A 934/A 934M Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars²

G 12 Test Method for Nondestructive Measurement of Film Thickness of Pipeline Coatings on Steel³

2.2 NACE International Standard:

RP-287-87 Field Measurement of Surface Profile of Abrasive Blast-Cleaned Steel Surface Using a Replica Tape⁴

2.3 Society for Protective Coatings Specifications:

SSPC-SP 10 Near-White Blast Cleaning⁵

SSPC-VIS 1 Pictorial Surface Preparation Standards for Painting Steel Surfaces⁵

2.4 Naval Facility Guide Specification:

NFGS 03201 Manufacture of Prefabricated Epoxy-Coated Rebar for Oceans and Other Severe Environments⁶

2.5 American Concrete Institute Specification:

² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 06.02.

⁴ Available from NACE International, 1440 South Creek, Houston, TX 77084.

⁵ Available from Society for Protective Coatings, 40 24th Street, Pittsburgh, PA 15222.

⁶ Available from NFESC, 560 Center Drive, Port Hueneme, CA 93043.

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