



Designation: A 885/A 885M – 96

Standard Specification for Steel Sheet, Zinc and Aramid Fiber Composite Coated for Corrugated Steel Sewer, Culvert, and Underdrain Pipe¹

This standard is issued under the fixed designation A 885/A 885M; 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.

1. Scope

1.1 This specification covers steel sheet, composite coated, used in the manufacture of corrugated pipe used for sewers, culverts, and underdrains. The composite coating consists of a layer of aramid nonwoven fabric bonded by molten zinc to the steel sheet, to act as a bonding medium for asphalt coatings later applied to fabricated products. Material for this use is furnished in coils, flat in cut lengths, and corrugated in cut lengths.

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

1.3 This specification and some referenced specifications are expressed in both inch-pound and SI units. If the order specifies the applicable “M” specification designation, the product shall be furnished to SI units.

NOTE 1—Steel sheet with other metallic coatings is described in Specification A 929/A 929M.

2. Referenced Documents

2.1 ASTM Standards:

A 760/A 760M Specification for Corrugated Steel Pipe, Metallic-Coated for Sewers and Drains²

A 796 Practice for the Structural Design of Corrugated Steel Pipe, Pipe-Arches, and Arches for Storm and Sanitary Sewers and Other Buried Applications²

A 902 Terminology Relating to Metallic Coated Steel Products²

A 924/A 924M Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process²

A 929/A 929M Specification for Steel Sheet, Metallic-

Coated, for Corrugated Steel Pipe²

B 6 Specification for Zinc³

D 1682 Test Methods for Breaking Load and Elongation of Textile Fabric⁴

D 3850 Test Method for Rapid Thermal Degradation of Solid Electrical Insulating Materials by Thermogravimetric Method⁵

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁶

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology A 902. The following definitions are as stated in that terminology.

3.1.1 *fabricator*, *n*—*as related to corrugated metal pipe*, (1) the organization that produces the finished pipe or (2) for structural plate pipe, the organization that processes flat sheets and other items needed for field assembly of the finished products.

3.1.2 *manufacturer*, *n*—*as related to corrugated metal pipe*, the organization that produces the metal sheet from which pipe is made.

3.1.3 *purchaser*, *n*—*as related to corrugated metal pipe*, the person or agency that purchases the finished pipe.

3.1.4 *Discussion*—With regard to this specification for sheet for corrugated steel pipe, the fabricator may also be considered as the purchaser of the sheet, where that term is used in this specification. Such interpretation would not restrict the purchaser of the finished pipe from enforcing any provisions of this specification.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *composite coating*—the total coating on top of the steel substrate, including the zinc and the aramid fibers.

3.2.2 *nonwoven fabric*—a fabric that is neither woven, knitted, nor spun, but built up by the interlocking of fibers by chemical bonding agents, or of fusible fibers by mechanical

¹ This specification is under the jurisdiction of ASTM Committee A-5 on Metallic Coated Iron and Steel Products and is the direct responsibility of Subcommittee A05.11 on Sheet Specifications.

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² *Annual Book of ASTM Standards*, Vol 01.06.

³ *Annual Book of ASTM Standards*, Vol 02.04.

⁴ *Discontinued*—See 1991 *Annual Book of ASTM Standards*, Vol 07.01.

⁵ *Annual Book of ASTM Standards*, Vol 10.02.

⁶ *Annual Book of ASTM Standards*, Vol 14.02.