



Standard Specification for Corrugated Steel Pipe, Polymer Precoated for Sewers and Drains¹

This standard is issued under the fixed designation A 762/A 762M; 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 polymer precoated corrugated steel pipe intended for use for storm water drainage, underdrains, the construction of culverts, and similar uses. Pipe covered by this specification is not normally used for the conveyance of sanitary or industrial wastes. The steel sheet used in fabrication of the pipe has a polymer protective coating over a metallic coating of zinc, 55 % aluminum-zinc alloy, or zinc-5 % aluminum-mischmetal alloy.

1.2 The polymer precoating provides extra protection of the base metal against corrosion or abrasion, or both, in addition to that provided by the metallic coating. Some severe environments may cause corrosion problems to accessory items such as rivets or coupling band hardware that does not have a polymer coating. Additional protection for polymer precoated corrugated steel pipe can be provided by use of coatings applied after fabrication of the pipe as described in Specification A 849.

1.3 This specification does not include requirements for bedding, backfill, or the relationship between earth cover load and sheet thickness of the pipe. Experience has shown that the successful performance of this product depends upon the proper selection of sheet thickness, type of bedding and backfill, controlled manufacture in the plant, and care in the installation. The installation procedure is described in Practice A 798.

1.4 This specification is applicable to orders in either inch-pound units as A 762, or in SI units as A 762M. Inch-pound units and SI units are not necessarily equivalent. SI units are shown in brackets in the text for clarity, but they are the applicable values when the material is ordered to A 762M.

2. Referenced Documents

2.1 ASTM Standards:

A 90/A 90M Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings²

A 153/A 153M Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware²

A 307 Specification for Carbon Steel Bolts and Studs, 60 000 psi Tensile Strength³

A 449 Specification for Quenched and Tempered Steel Bolts and Studs³

A 493 Specification for Stainless and Heat-Resisting Steel Wire for Cold Heading and Cold Forging⁴

A 563 Specification for Carbon and Alloy Steel Nuts³

A 563M Specification for Carbon and Alloy Steel Nuts [Metric]³

A 742/A 742M Specification for Steel Sheet, Metallic-Coated, and Polymer Precoated for Corrugated Steel Pipe²

A 760/A 760M Specification for Corrugated Steel Pipe, Metallic Coated for Sewers and Drains⁵

A 780 Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings²

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

A 798/A 798M Practice for Installing Factory-Made Corrugated Steel Pipe for Sewers and Other Applications²

A 849 Specification for Post-Applied Coatings, Pavings, and Linings for Corrugated Steel Sewer and Drainage Pipe²

A 929/A929M Specification for Steel Sheet, Metallic-Coated by the Hot-Dip Process for Corrugated Steel Pipe²

B 633 Specification for Electrodeposited Coatings of Zinc on Iron and Steel⁶

B 695 Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel⁶

C 443 Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets⁷

D 1005 Test Methods for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers⁵

D 1056 Specification for Flexible Cellular Materials—Sponge or Expanded Rubber⁸

¹ This specification is under the jurisdiction of ASTM Committee A05 on Metallic Coated Iron and Steel Products and is the direct responsibility of Subcommittee A05.17 on Corrugated Steel Pipe Specifications.

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² Annual Book of ASTM Standards, Vol 01.06.

³ Annual Book of ASTM Standards, Vol 15.08.

⁴ Annual Book of ASTM Standards, Vol 01.03.

⁵ Annual Book of ASTM Standards, Vol 06.01.

⁶ Annual Book of ASTM Standards, Vol 02.05.

⁷ Annual Book of ASTM Standards, Vol 04.05.

⁸ Annual Book of ASTM Standards, Vol 09.02.

