



Standard Practice for Installing Factory-Made Corrugated Steel Pipe for Sewers and Other Applications¹

This standard is issued under the fixed designation A798/A798M; 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 practice covers procedures, soils, and soil placement for the proper installation of corrugated steel pipe and pipe-arches produced to Specification A760/A760M or A762/A762M, in either trench or embankment installations. A typical trench installation and a typical embankment (projection) installation are shown in Figs. 1 and 2, respectively. The pipes described in this practice are manufactured in a factory and furnished to the job in lengths ordinarily from 10 to 30 ft [3 to 9 m], with 20 ft [6 m] being common, for field joining. This practice applies to structures designed in accordance with Practice A796/A796M.

1.2 *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.*

1.3 This specification is applicable to design in inch-pound units as A798 or in SI units as A798M. 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 installation is to be performed in accordance with A798M.

2. Referenced Documents

2.1 ASTM Standards:²

A760/A760M Specification for Corrugated Steel Pipe, Metallic-Coated for Sewers and Drains
A762/A762M Specification for Corrugated Steel Pipe, Polymer Precoated for Sewers and Drains
A796/A796M Practice for Structural Design of Corrugated

Steel Pipe, Pipe-Arches, and Arches for Storm and Sanitary Sewers and Other Buried Applications

A902 Terminology Relating to Metallic Coated Steel Products

A978/A978M Specification for Composite Ribbed Steel Pipe, Precoated and Polyethylene Lined for Gravity Flow Sanitary Sewers, Storm Sewers, and Other Special Applications

A1019/A1019M Specification for Closed Rib Steel Pipe with Diameter of 36 in. [900 mm] or Less, Polymer Precoated for Sewers and Drains (Withdrawn 2012)³

A1042/A1042M Specification for Composite Corrugated Steel Pipe for Sewers and Drains

D698 Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³ (600 kN-m/m³))

D1556 Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method

D2167 Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method

D2487 Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)

D2922 Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth) (Withdrawn 2007)³

D2937 Test Method for Density of Soil in Place by the Drive-Cylinder Method

3. Terminology

3.1 *Definitions*—For definitions of general terms used in this practice, refer to Terminology A902. For definition of terms specific to this standard, refer to 3.2.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *bedding, n*—the earth or other material on which a pipe is supported.

3.2.2 *haunch, n*—the portion of the pipe cross section between the maximum horizontal dimension and the top of the bedding.

¹ This practice 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.

Current edition approved May 1, 2013. Published June 2013. Originally approved in 1982. Last previous edition approved in 2007 as A798/A798M - 07. DOI: 10.1520/A0798_A0798M-13.

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 The last approved version of this historical standard is referenced on www.astm.org.