



Designation: A 979/A 979M – 97

AMERICAN SOCIETY FOR TESTING AND MATERIALS  
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## Standard Specification for Concrete Pavements and Linings Installed in Corrugated Steel Structures in the Field<sup>1</sup>

This standard is issued under the fixed designation A 979/A 979M; 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 the minimum material requirements and describes the procedures for installing concrete pavements and linings in corrugated steel pipes and structural plate structures in the field. Specific designs with additional or greater requirements shall be detailed in the contract documents. This specification is applicable to paving or lining new pipes and for rehabilitating existing structures. The pipe to be paved or lined is described in Specifications A 760/A 760M, A 761/A 761M, and A 762/A 762M.

1.2 This specification covers pipes 48 in. (1 200 mm) and larger for pavements and 24 in. (600 mm) and larger for full linings.

1.3 New pipes are to be designed in accordance with Practice A 796 and installed in accordance with Practice A 798 for factory-made pipes and Practice A 807 for structural plate structures. Structures to be rehabilitated shall be structurally stable.

1.4 Pipes with plant installed concrete pavements and linings are covered under Specification A 849.

1.5 This specification is applicable to product in either inch/pound units as A 979 or in SI units as A 979M. 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 materials are ordered to A 979M.

1.6 *This standard may involve hazardous materials, operations and equipment. The 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:

- A 185 Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement<sup>2</sup>
- A 615 Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement<sup>2</sup>
- A 760/A 760M Specification for Corrugated Steel Pipe,

Metallic-Coated for Sewers and Drains<sup>3</sup>

A 761/A 761M Specification for Corrugated Steel Structural Plate, Zinc-Coated, for Field-Bolted Pipe, Pipe-Arches, and Arches<sup>3</sup>

A 762/A 762M Specification for Corrugated Steel Pipe, Polymer Precoated for Sewers and Drains<sup>3</sup>

A 796 Practice for Structural Design of Corrugated Steel Pipe, Pipe-Arches, and Arches for Storm and Sanitary Sewers and Other Buried Applications<sup>3</sup>

A 798/A 798M Practice for Installing Factory-Made Corrugated Steel Pipe for Sewers and Other Applications<sup>3</sup>

A 807/A 807M Practice for Installing Corrugated Steel Structural Plate Pipe for Sewers and Other Applications<sup>3</sup>

A 849 Specification for Post-Applied Coatings, Pavings, and Linings for Corrugated Steel Sewer and Drainage Pipe<sup>3</sup>

A 902 Terminology Relating to Metallic Coated Steel Products<sup>3</sup>

C 31/C 31M Practice for Making and Curing Concrete Test Specimens in the Field<sup>4</sup>

C 33 Specification for Concrete Aggregates<sup>4</sup>

C 39 Test Method for Compressive Strength of Cylindrical Concrete Specimens<sup>4</sup>

C 150 Specification for Portland Cement<sup>5</sup>

C 309 Specification for Liquid Membrane-Forming Compounds for Curing Concrete<sup>4</sup>

C 595M Specification for Blended Hydraulic Cements<sup>5</sup>

C 618 Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete<sup>4</sup>

#### 2.2 American Water Works Association Standards:

AWWA C 602 Standards for Cement-Mortar Lining of Water Pipelines—4 in. (100 mm) and larger-in place<sup>6</sup>

### 3. Terminology

3.1 *Definitions*—For definitions of general terms used in this specification, see Terminology A 902.

3.2 *Definitions of Terms Specific to This Standard:*

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee A-05 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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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 01.04.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 01.06.

<sup>4</sup> *Annual Book of ASTM Standards*, Vol 04.02.

<sup>5</sup> *Annual Book of ASTM Standards*, Vol 04.01.

<sup>6</sup> Available from American Water Works Association, 6666 West Quincey Avenue, Denver, CO 80235.