



Standard Specification for Asbestos-Cement Nonpressure Sewer Pipe¹

This standard is issued under the fixed designation C 428; 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 requirements relating to asbestos-cement nonpressure sewer pipe, joints, and fittings suitable for use with gravity flow, intended for sewerage and drainage applications from point of use to point of treatment or disposal. It defines certain conditions of manufacture, classification, characteristics, and acceptance tests applicable to these products.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided for information only.

NOTE 1—Rubber rings suitable for use with this pipe are covered in Specification D 1869.

NOTE 2—As general guidance to achieve safe and clean construction-site conditions when working with asbestos-cement pipe products, the procedures covered in AWWA No. M-16 shall be followed.

NOTE 3—This specification is issued for product standardization and purchasing purposes only, and does not include requirements for installation or the relationships between operating conditions and the strength characteristics of the various classifications of pipe. The purchaser is cautioned that he must correlate installation and operating conditions with the specified characteristics of the pipe.

1.3 *This standard does not purport to address all of the safety problems, 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.* For a specific safety hazard, see Note 6.

2. Referenced Documents

2.1 ASTM Standards:

C 150 Specification for Portland Cement²

C 458 Test Method for Organic Fiber Content of Asbestos-Cement Products³

C 500 Test Methods for Asbestos-Cement Pipe³

C 595 Specification for Blended Hydraulic Cements²

C 618 Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete⁴

D 1869 Specification for Rubber Rings for Asbestos-Cement Pipe⁵

2.2 Federal Standard:

No. 123 Marking for Domestic Shipment (Civilian Agencies)⁶

2.3 Military Standard:

No. 129 Marking for Shipment and Storage⁶

2.4 Other Standards:

Uniform Freight Classification Rules⁷

National Motor Freight Classification Rules⁸

M-16 Work Practices for Asbestos-Cement Pipe⁹

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *pipe*—asbestos-cement nonpressure sewer pipe as defined in Sections 1, 3, and 6 of this specification.

3.1.2 *coupling*—a section for joining asbestos-cement nonpressure sewer pipe, as defined in 6.3, that when properly installed with the proper accessories, develops an assembled joint, equivalent in serviceability and strength to the pipe sections when tested in accordance with 8.3 of this specification.

3.1.3 *fitting*—components such as wyes, tees, adaptors, for use in laying asbestos-cement pipe, such that, when properly installed, yields develops an assembly fitting equivalent in serviceability and strength to the pipe sections.

3.2 Lot:

¹ This specification is under the jurisdiction of ASTM Committee C-17 on Fiber-Cement Products and is the direct responsibility of Subcommittee C17.03 on Asbestos-Cement Products. Specifications C 428 and C 644 have been combined into this one edition of Specification C 428. In this edition are the results of the work done by the Common Wording Task Force and A/C Sewer Pipe Redesign Task Force. The 1981 edition included the Ordering Information section (Section 5), that is given as an appendix in some Asbestos Cement Specifications under Additional Information, and Requirements for non-Asbestos Cement Couplings and Fittings for use with Asbestos Cement Non-Pressure Sewer Pipe.

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² Annual Book of ASTM Standards, Vol 04.01.

³ Annual Book of ASTM Standards, Vol 04.05.

⁴ Annual Book of ASTM Standards, Vol 04.02.

⁵ Annual Book of ASTM Standards, Vol 09.02.

⁶ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁷ Available from the Uniform Classification Commission, Room 1106, 222 S. Riverside Plaza, Chicago, IL 60606.

⁸ Available from National Motor Freight Inc., 1616 P St., N. W., Washington, DC 20036.

⁹ Available from American Water Work Assoc., 6666 W. Quincy Ave., Denver, CO 80235.