



Standard Specification for Asbestos-Cement Conduit¹

This standard is issued under the fixed designation C 875; 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 asbestos-cement conduit for use in electric-power systems and communication systems. The service is for both underground and exposed conditions.

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

1.3 *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.* See 10.2.1 for a specific hazard warning.

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 2946 Terminology Relating to Asbestos and Asbestos-Cement Products³

2.2 Military Standard:

MIL-STD-129 Marking for Shipment and Storage⁵

2.3 Federal Standard:

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)⁵

2.4 Other Standards:

Uniform Freight Classification Rules⁶

National Motor Freight Classification Rules⁷

AIA, RCP2, Asbestos-Cement Products⁸

3. Terminology

3.1 Definitions:

3.1.1 *conduit, n*—asbestos-cement pipe used to protect wires for electric-power or communication systems, for both underground and exposed situations.

3.1.2 *coupling*—component made from a larger diameter pipe of the same type or Type II and of the same class or a higher class, or produced otherwise to yield at least equal performance, for joining asbestos-cement pipe that when properly installed, forms a silt-tight joint, allows alignment corrections and slight changes in direction, and provides an assembled joint equivalent in serviceability and strength to the pipe sections.

3.1.3 *fittings*—fittings such as adapters, reducers, increasers, bends, and bell ends, for use in laying asbestos-cement conduit as described in Section 5 and made to such dimensions as will provide equivalent strength and silt-tight joints when assembled with the conduit.

3.1.4 *lot*—a lot as used herein is defined as each 1000 lengths of conduit or less, of a given class, type, and size manufactured on one machine during a 24-h period.

3.2 Additional terminology is given in Terminology D 2946.

4. Classification

4.1 The classes of conduit shall be as follows:

Class B—Intended for use encased in concrete after installation.

Class C—Intended for use without concrete encasement, or for exposed services.

4.2 The types of conduit shall be known as Type I and Type II corresponding to the chemical requirements given in Section 6 of this specification. For a more thorough understanding and as a guide to the chemical resistance of asbestos-cement conduit, reference is made to Test Methods C 500.

¹ This specification is under the jurisdiction of ASTM Committee C-17 on Fiber-Cement Products and is the direct responsibility of C17.03 on Asbestos-Cement Products.

Current edition approved Sept. 10, 1998. Published March 1999. Originally published as C 875 – 77. Last previous edition C 875 – 92(1997).

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

⁶ Available from the Uniform Classification Commission, Room 1106, 222 S. Riverside Plaza, Chicago, IL 60606.

⁷ Available from National Motor Freight Inc., 1616 “P” St. NW, Washington, DC 20036.

⁸ Available from Asbestos Information Assoc., 1745 Jefferson Davis Highway, Crystal Square 4, Suite 509, Arlington, VA 22202.