



Standard Specification for Asbestos-Cement Corrugated Fill For Use in Cooling Towers¹

This standard is issued under the fixed designation C 1081; 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 splash bar and corrugated sheet type asbestos-cement products used as cooling tower fill.

1.2 Drift eliminators or demisters, louvers, partitioning and casing panels are covered in Specifications C 1080. Asbestos-cement pipes are covered in Specification C 296 and Specifications C 428. Asbestos-cement flat sheet fill (heat exchange surfaces) are specified in Specification C 1082.

1.3 The values stated in the SI system are to be regarded as the standard. The inch-pound units in parentheses are for information only.

1.4 The following precautionary caveat pertains only to the Test Method portion, Section 8, of this Specification: *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 8.1.3 for specific safety hazards.

2. Referenced Documents

2.1 ASTM Standards:

- C 150 Specification for Portland Cement²
- C 296 Specification for Asbestos-Cement Pressure Pipe³
- C 428 Specifications for Asbestos-Cement Nonpressure Sewer Pipe³
- C 458 Test Method for Organic Fiber Content of Asbestos-Cement Products³
- C 459 Test Methods of Sampling and Testing Asbestos-Cement Flat Sheets, Roofing and Siding Shingles, and Clapboards³
- C 500 Test Methods for Asbestos-Cement Pipe³

C 1080 Specification for Asbestos-Cement Products Other Than Fill in Cooling Towers³

C 1082 Specification for Asbestos-Cement Flat Sheet for Cooling Tower Fill³

C 1096 Test Method for Determination of Wood Fiber in Asbestos-Cement³

D 2946 Terminology for Asbestos and Asbestos-Cement Products³

2.2 DIN Standard:

DIN 274 Asbestzement-Weilplatten⁴

3. Terminology

3.1 *Definitions*—The definitions included in Terminology D 2946 are applicable to this specification.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *autoclaved product*—Products that have been treated in a saturated steam atmosphere at between 689 and 1517 kPa (100 and 220 psi) for at least 8 h, and that contain portland cement Type I (Specification C 150) together with fine silica in the ratio of 3:2 that can react to form calcium silicate reaction products.

3.2.2 *pressed products*—Products that are pressed singly or in stacks interlayered with templates, at a minimum pressure of 12 MPa (1740 psi).

3.2.3 *pitch*—The wave length in corrugated products.

4. Classification

4.1 Splash Bar Classification:

4.1.1 *Type I*—Splash bars consist of corrugated autoclaved pressed asbestos-cement sheets for the most demanding applications that meet the requirements set forth in Table 1.

4.1.2 *Type II*—Splash bars consist of corrugated pressed asbestos-cement sheets for intermediate service that meet requirements presented in Table 1.

4.1.3 *Type III*—Splash bars are intended for less demanding service that meet the requirements stated in Table 1.

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

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² *Annual Book of ASTM Standards*, Vol 04.01.

³ *Annual Book of ASTM Standards*, Vol 04.05.

⁴ Available from Deutsches Institut für Normung, Beuth Verlag GmbH, Auslieferung, Post Fach1107, D-1000 Berlin 30, Germany.