



Standard Specification for Asbestos-Cement Siding¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers asbestos-cement siding, including accessories, designed to provide the weather-exposed sidewall surfaces of buildings. Siding in the following forms is covered:

1.1.1 *Siding Shingles*—Uniform thickness, generally rectangular in shape and having wavy, random, thatched, straight, or irregular butts.

1.1.2 *Clapboards*—Uniform thickness, generally longer and narrower in shape than siding shingles, and usually with the exposed edge straight.

1.1.3 *Sheets*—Uniform thickness, rectangular in shape, larger in unit sizes than shingles or clapboards.

NOTE 1—For additional information, see Specification C 725 for Semidense Mineral Fiber Siding.

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

2. Referenced Documents

2.1 ASTM Standards:

C 220 Specification for Flat Asbestos-Cement Sheets²

C 458 Test Method for Organic Fiber Content of Asbestos-Cement Products²

C 459 Test Methods for Asbestos-Cement Flat Products²

C 725 Specification for Semidense Mineral Fiber Siding²

C 1096 Test Method for Determination of Wood Fiber in Asbestos Cement²

2.2 Federal Standard:

Fed. Std. No. 123 Marking for Domestic Shipment (Civilian Agencies)³

2.3 Military Standard:

MIL-STD-129 Marking for Shipment and Storage³

2.4 Other Documents:

Uniform Freight Classification Rules⁴

National Motor Freight Classification Rules⁵

3. Physical Requirements

3.1 All measurements and tests necessary for determining the conformity of the asbestos-cement siding with this specification shall be made in accordance with Test Methods C 459.

3.2 *Flexural Strength*—The average breaking load obtained by loading equally and simultaneously at both one-third points of the test span as shown in Table 1.

3.3 *Deflection*—The average deflection at mid-span at maximum load obtained by loading equally and simultaneously at both one-third points of the test span as shown in Table 1.

3.4 *Water Absorption*—The average water absorption shall not exceed 30 % mass.

4. Dimensions, Mass, and Permissible Variations

4.1 Asbestos-cement siding supplied under this specification shall conform to the dimensions prescribed in Table 2.

4.2 The unit dimensions and laps given in Table 2 are an indication of customary current manufacture and shall not be construed to limit or fix the width, length, or lap dimensions of siding units that conform to all other requirements of this specification. Siding units of one half normal length may be supplied in an amount not exceeding two per bundle. Fifteen percent of the clapboard units may be supplied shorter than the standard length in multiples of 406 mm (16 in.).

4.3 *Thickness*—The average thickness of all units supplied under this specification shall be as shown in Table 1, and the average thickness of any one unit shall not be less than the average of all units within the shipment by more than 10 %. For textured siding, the thickness shall be construed as the gross over-all measurement from the top of the textured surface to the back of the unit.

4.4 *Width and Length*—The permissible variation from the nominal width or length shall be 3.2 mm ($\pm 1/8$ in.), as measured after 48 h at 23°C (73°F) and 50 % relative humidity.

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 Sheet Products and Accessories.

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² *Annual Book of ASTM Standards*, Vol 04.05.

³ Available from Standardization Documents, Order Desk, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁴ Available from The Uniform Classification Commission, Room 1106, 222 S. Riverside Plaza, Chicago, IL 60606.

⁵ Available from National Motor Freight Inc., 1616 P. St., N.W., Washington, DC 20036.