



Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets¹

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1. Scope

1.1 This specification covers either untextured or surface textured non-asbestos fiber-cement flat sheets intended for exterior applications such as claddings, facades, curtain walls, soffits, etc.

1.2 This specification is not applicable to asbestos-cement flat sheets (Specification C 220), gypsum-based boards (Specifications C 442/C 442M, C 630, C 1177/C 1177M, C 1178/C 1178M), or particle boards (Terminology D 1554) discrete non-asbestos fiber-cement interior substrate sheets (Specification C 1288), fiber-mat reinforced non-asbestos cement interior substrate sheets (Specification C 1325), or cement-bonded particleboards (Specification BS 5669: Part 4) and (ISO 8335).

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

1.4 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

2. Referenced Documents

2.1 ASTM Standards:

C 220 Specification for Flat Asbestos-Cement Sheets²

C 442/C 442M Specification for Gypsum Backing Board, Gypsum Coreboard, and Gypsum Shaftliner Board³

C 630/C 630M Specification for Water-Resistant Gypsum Backing Board³

C 1154 Terminology for Non-Asbestos Fiber-Reinforced Cement Products²

C 1177/C 1177M Specification for Glass Mat Gypsum Substrate for Use as Sheathing³

C 1178/C 1178M Specification for Glass Mat Water-Resistant Gypsum Backing Panel³

C 1185 Test Method for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboard²

C 1288 Specification for Discrete Non-Asbestos Fiber-Cement Interior Substrate Sheets²

C 1325 Specification for Non-Asbestos Fiber-Mat Reinforced Cement Interior Substrate Sheets²

D 1554 Terminology Relating to Wood-Base Fiber and Particle Panel Materials⁴

E 84 Test Method for Surface Burning Characteristics of Building Materials⁵

2.2 British Standards:⁶

BS 5669: Part 4 Specification for Cement Bonded Particleboard

2.3 International Standards:⁶

ISO 8335 Cement-bonded Particleboards—Boards of Portland or Equivalent Cement Reinforced with Fibrous Wood Particles

3. Terminology

3.1 *Definitions*—Refer to Terminology C 1154.

4. Classification

4.1 Flat sheets covered by this specification are divided into two types, according to their intended application.

4.2 *Type A*—Sheets are intended for exterior applications, subjected to the direct action of sun, rain, or snow. They are supplied coated or uncoated.

4.3 *Type B*—Sheets are intended for exterior applications, not subjected to the direct action of sun, rain, or snow.

NOTE 1—If sheets of Type B are used in an exterior application, where they are directly exposed to the weather, but are protected by impregnation or coatings, the weather resistance of the product may be altered by the quality of the protection. Specification of this protection, as well as the method for control and test, are outside the scope of this specification.

4.4 The sheets are further classified into four grades according to their flexural strengths. The manufacturer shall declare the type and grade of a given product in the literature for that product.

5. Composition and Manufacture

5.1 *Composition*—This specification is applicable to fiber-reinforced cement flat sheets consisting essentially of an

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

³ *Annual Book of ASTM Standards*, Vol 04.01.

⁴ *Annual Book of ASTM Standards*, Vol 04.10.

⁵ *Annual Book of ASTM Standards*, Vol 04.07.

⁶ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.