



Designation: C 1535 – 02

Standard Practice for Application of Exterior Insulation and Finish Systems Class PI¹

This standard is issued under the fixed designation C 1535; 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 practice covers the minimum requirements and procedures for field or prefabricated application of Class PI Exterior Insulation and Finish Systems (EIFS). Class PI EIFS are systems applied over polyisocyanurate insulation board, in which the base coat ranges from not less than $\frac{1}{16}$ in. (1.6 mm) to $\frac{1}{4}$ in. (6.4 mm) in dry thickness, depending upon the number of nonmetallic reinforcing mesh layers encapsulated in the base coat. The base coat is then covered with a finish coat of various thickness in a variety of textures and colors. The insulation board shall be applied over a substrate or over open framing.

1.2 This practice does not cover Class PI EIFS with drainage. Consult the EIFS producer for information.

1.3 The values stated in inch-pound units are to be regarded as the standard. The SI (metric) values given in parentheses are approximate and are provided for information purposes only.

1.4 The text of this standard references notes and footnotes that provide explanatory material. These notes and footnotes shall not be considered as requirements of the standard.

1.5 *This standard may involve hazardous materials, operations and equipment. 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.*

2. Referenced Documents

2.1 ASTM Standards:

- C 11 Terminology Relating to Gypsum and Related Building Materials and Systems²
- C 79/C 79M Specification for Treated Core and Nontreated Core Gypsum Sheathing Board²
- C 150 Specification for Portland Cement²
- C 1063 Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster²

C 1177 Specification for Glass Mat Gypsum Substrate for Use as Sheathing²

C 1186 Specification for Flat Non-Asbestos Fiber-Cement Sheets³

C 1278/C 1278M Specification for Fiber-Reinforced Gypsum Panels²

C 1280 Specification for Application of Gypsum Board²

C 1289 Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board⁴

C 1382 Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish Systems (EIFS) Joints⁵

C 1472 Guide for Calculating Movement and Other Effects When Establishing Sealant Joint Width⁵

C 1481 Guide for Use of Joint Sealants with Exterior Insulation and Finish Systems (EIFS)⁶

E 1825 Guide for Evaluation of Exterior Building Wall Materials, Products and Systems⁷

E 2110 Terminology for Exterior Insulation and Finish Systems (EIFS)⁷

3. Terminology

3.1 Definitions used in this standard shall be in accordance with Terminologies C 11 and E 2110.

4. Significance and Use

4.1 This practice provides minimum requirements for the application of Class PI EIFS. The requirements for materials, mixtures, and details shall be contained in the project plans and specifications. See Guide E 1825 for guidance.

5. Delivery of Materials

5.1 All materials shall be delivered in packages, containers, or bundles with the identification and markings intact.

6. Inspection

6.1 Inspection of the materials shall be agreed upon and be a part of the purchase agreement.

¹ This practice is under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.05 on Application of Exterior Insulating and Finish Systems and Related Products.

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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 04.06.

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

⁶ *Annual Book of ASTM Standards*, Vol 04.02.

⁷ *Annual Book of ASTM Standards*, Vol 04.12.