



Designation: ~~E 2568–07~~ Designation: E2568 – 09^{e1}

Standard Specification for PB Exterior Insulation and Finish Systems¹

This standard is issued under the fixed designation E2568; 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.

^{e1} NOTE—Editorial changes were made throughout to comply with ASTM's policy on Units in Standards (April 2009).

1. Scope

1.1 This specification covers PB Exterior Insulation and Finish Systems (EIFS) defined as an exterior, non-bearing wall covering providing a weather-resistant exterior wall envelope on walls required to be combustible or noncombustible, fire-resistance-rated or nonfire-resistance-rated. Further, PB EIFS is a system described as being applied over expanded polystyrene or polyisocyanurate insulation board, an adhesive or mechanical attachment of the insulation board to a substrate, or both, glass fiber reinforcing mesh, a base coat on the face of the insulation board, and a textured protective finish coat.

1.2 This specification does not cover Class PB EIFS with drainage.

1.3 This specification qualifies EIFS products for use in normal service conditions and is not for evaluating in service EIFS installations.

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1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.5 *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:*²

B117 Practice for Operating Salt Spray (~~Fog~~)(Fog) Apparatus

C297/C297M Test Method for Flatwise Tensile Strength of Sandwich Constructions

C578 Specification for Rigid, Cellular Polystyrene Thermal Insulation

C1289 Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board

D2247 Practice for Testing Water Resistance of Coatings in ~~100%~~100 % Relative Humidity

E84 Test Method for Surface Burning Characteristics of Building Materials <https://standards.iteh.ai/8bea-066a7c817387/astm-e2568-09e1>

E119 Test Methods for Fire Tests of Building Construction and Materials

E330 Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

E331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

~~E631 Terminology of Building Constructions~~

E2098 Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution

E2110 Terminology for Exterior Insulation and Finish Systems (~~EIFS~~)(EIFS)

E2134 Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (~~EIFS~~)(EIFS)

E2485 Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings

E2486 Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)

¹ This test method is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.58 on Exterior Insulation and Finish Systems (EIFS).

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

G23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials³

G26 Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials (~~Discontinued-2004~~)⁰

G153 Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

G155 Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

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³ Withdrawn. The last approved version of this historical standard is referenced on www.astm.org.

2.2 NFPA Standards:⁴

ANSI/NFPA 268 Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source

ANSI/NFPA 285 Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior, Nonload-bearing Wall Assemblies Containing Combustible Components

3. Terminology

3.1 Definitions are in accordance with Terminology E-2110 unless otherwise specified.

3.2 *Definitions of Terms Specific to This Standard:*

3.3 *EIFS-related construction* class PB EIFS, *n*—construction that works in conjunction with the EIFS, but is not part of the EIFS. EIFS where the base coat varies in thickness depending upon the number of layers, or thickness of reinforcing mesh. The reinforcing mesh is glass fiber mesh that is encapsulated by the base coat in accordance with EIFS manufacturer recommendations. Protective finish coats, of various thicknesses in a variety of textures and colors, are applied over the base coat.

3.3.1 *Discussion*—Class PB EIFS includes foam plastic conforming to either Specifications C578 or C1289.

3.4 *class PB EIFS-related construction, n*—EIFS where the base coat varies in thickness depending upon the number of layers, or thickness of reinforcing mesh. The reinforcing mesh is glass fiber mesh that is encapsulated by the base coat per EIFS manufacturer recommendations. Protective finish coats, of various thicknesses in a variety of textures and colors, are applied over the base coat. construction that works in conjunction with the EIFS, but is not part of the EIFS.

4. Materials and Manufacture

4.1 *Product Description*—The material and specifications shall be as specified by the selected EIFS manufacturer and shall be defined as in Terminology E-2110 except as modified herein.

5. Performance Requirements

5.1 The system and its components shall meet or exceed the performance standards described in 5.2-5.7 of this specification.

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⁴ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>.