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Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel¹

This standard is issued under the fixed designation C1178/C1178M; 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 coated glass mat water-resistant gypsum backing panel designed for use on ceilings and walls in bath and shower areas as a base for the application of ceramic or plastic tile.
- 1.2 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. Within the text, the SI units are shown in brackets.
- 1.3 The text of this standard references notes and footnotes that 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:²
- C11 Terminology Relating to Gypsum and Related Building Materials and Systems
- C473 Test Methods for Physical Testing of Gypsum Panel Products
- C645 Specification for Nonstructural Steel Framing Members
- C1264 Specification for Sampling, Inspection, Rejection, Certification, Packaging, Marking, Shipping, Handling, and Storage of Gypsum Panel Products
- E119 Test Methods for Fire Tests of Building Construction and Materials

3. Terminology

- 3.1 Definitions shall be in accordance with Terminology C11.
- 3.2 Definitions of Terms Specific to This Standard:
- 3.2.1 glass mat, n—a mat of glass fibers with or without a binder.
- 3.2.2 *edge*, *n*—the bound edge as manufactured.
- 3.2.3 *face*, *n*—the coated surface.
- 3.2.4 *nominal thickness*, *n*—the manufacturer-stated fractional value of thickness of the gypsum panel product expressed in decimal value to the nearest one-thousandth (0.001) of an inch.

4. Materials and Manufacture

- 4.1 Coated glass mat water-resistant gypsum backing panel shall consist of a noncombustible water-resistant core, essentially gypsum, surfaced with glass mat, partially or completely embedded in the core, and with a water-resistant coating on one surface.
- 4.2 Coated glass mat water-resistant gypsum panels, type X (special fire-resistant) designates glass mat gypsum panels complying with this specification that provide not less than 1-h fire resistance rating for boards $\frac{5}{8}$ in. [15.9 mm] thick or $\frac{3}{4}$ -h fire resistance rating for panels $\frac{1}{2}$ in. [12.7 mm] thick, applied parallel with and on each side of load bearing 2 by 4 wood studs spaced 16 in. [406 mm] on center with 6d coated nails, $\frac{1}{8}$ in. [48-mm] long, 0.0915 in. [2.3 mm] diameter shank, $\frac{1}{4}$ in. [6.4 mm] diameter heads, spaced 7 in. [178 mm] on center with glass mat gypsum panel joints staggered 16 in. [406 mm] on each side of the partition and tested in accordance with Test Methods E119.
- Note 1—Consult manufacturers for independent test data on assembly details and fire resistance ratings for other types of construction. See fire test reports or listings from recognized fire testing laboratories for assembly particulars, materials, and ratings.

¹ This specification is under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.01 on Specifications and Test Methods for Gypsum Products.

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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.

5. Physical Properties

- 5.1 Specimens shall be taken from the samples obtained in accordance with Specification C1264.
- 5.2 Specimens shall be tested in accordance with Test Methods C473.

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