# Standard Specification for the Installation of Molded Glass Fiber Reinforced Gypsum Parts<sup>1</sup>

This standard is issued under the fixed designation C 1467/C 1467M; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

# 1. Scope

- 1.1 This specification covers the installation of molded glass fiber reinforced gypsum (GRG) parts.
- 1.2 The values stated in either inch-pound units or SI (metric) are to be regarded separately as the standard. Within the text, SI units are shown in brackets. The values stated in each shall be used independent of the other. Values from the two systems shall not be combined.
- 1.3 All references to finishes, dimensions and tolerances shall refer to the finished surface of the part.
- 1.4 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:
- C 11 Terminology Relating to Gypsum and Related Building Materials and Systems<sup>2</sup>
- C 754 Specification for Installation of Steel Framing Members to Receive Screw Attached Gypsum Panel Products<sup>2</sup>
- C 840 Specification for Application and Finishing of Gypsum Board<sup>2</sup>
- C 1007 Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories<sup>2</sup>
- C 1381 Specification for Molded Glass Fiber Reinforced Gypsum (GRG) Parts<sup>2</sup>

# 3. Terminology

- 3.1 *Definitions* Definitions of terms shall be in accordance with Terminology C 11.
  - 3.2 Definitions of Terms Specific to This Standard:
- 3.2.1 *critical lighting*, *n*—strong side lighting from natural or artificial light sources.
- 3.2.2 *primer*, *n*—paint material formulated to fill the pores and equalize the suction difference between the GRG part and finishing compounds used.

## 4. Materials

4.1 Molded GRG parts shall meet the requirements of Specification C 1381.

#### 5. Environmental Conditions

- 5.1 Room temperature shall be maintained at not less than 40°F [4°C] during the installation of GRG parts except when adhesive is used for the bonding or attachment of parts to each other or to a substrate. For the bonding of adhesive and joint treatment the room temperature shall be maintained at not less than 50°F [10°C] for 48 hours prior to application and continuously thereafter until completely dry.
- 5.2 When a temporary heat source is used, the temperature shall not exceed 95°F [35°C] in any given room or area.
- 5.3 Installed GRG shall be protected from direct exposure to rain, snow, sunlight and other excessive weather conditions.

Note 1—Installation in conditions of excessive humidity is not recommended. The ideal conditions to install molded GRG parts is 70°F [21°C] and 50 % RH.

#### 6. Substrate Preparation

- 6.1 Substrates to accept GRG parts shall be installed straight and true within ½ in. in 8 ft [3 mm in 2500 mm] and shall be free of obstructions and interference that prohibits correct attachment of GRG parts.
- 6.2 Metal framing members shall be of the proper size and design for the intended use and shall be sufficient to properly support the installed GRG parts. Metal framing members shall be installed in accordance with Specification C 754 or C 1007 as required.

#### 7. Tolerances of Installed GRG Parts

- 7.1 Parts shall be installed plumb and not be out of line more than  $\pm \frac{1}{8}$  in. in 8 ft [3 mm in 2500 mm] in any direction.
- 7.2 The planar surface of any part shall not vary by more than  $\frac{1}{8}$  in. [3 mm] from the planar surface of any adjacent part.
- 7.3 GRG parts shall be installed so that the joints between parts are not more than ½ in. [6 mm] in width.

#### 8. Installation of GRG Parts

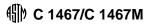
- 8.1 GRG parts shall be installed to the tolerances stated in Section 7.
- 8.2 GRG parts shall be installed according to manufacturers' directions onto substrates and with fastening devices as

azmanco.com

<sup>&</sup>lt;sup>1</sup> 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 C11.03 on Specifications for the Application of Gypsum and Other Products in Assemblies.

Current edition approved May 10, 2000. Published July 2000.

<sup>&</sup>lt;sup>2</sup> Annual Book of ASTM Standards, Vol 04.01.



specified by the GRG manufacturer.

# 9. Finishing of GRG Parts

- 9.1 GRG parts shall be finished in accordance with the manufacturers' directions.
- 9.2 GRG parts subject to critical lighting or scheduled to receive gloss or semi-gloss decoration shall be prepared as a Level 5 finish in accordance with Specification C 840.

Note 2—GRG parts are furnished with a primer-ready surface.

# 10. Handling and Storage

10.1 GRG parts shall be stored in accordance with the manufacturers' recommendations.

- 10.2 GRG parts shall be protected from rain, snow, sunlight, excessive weather conditions and jobsite damage during storage.
  - 10.3 GRG parts shall be stored on a clean and dry surface.
- 10.4 GRG parts shall not be stacked or placed on other GRG parts unless approved by the manufacturer in writing.

Note 3—Parts improperly stored could be subject to warping, bowing and dimensional variations.

## 11. Keywords

11.1 GRG parts; installation

The American Society for Testing and Materials takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org).