



Standard Specification for the Installation of Molded Glass Fiber Reinforced Gypsum Parts¹

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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*:²

C11 Terminology Relating to Gypsum and Related Building Materials and Systems

C754 Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

C840 Specification for Application and Finishing of Gypsum Board

C1007 Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories

C1381 Specification for Molded Glass Fiber Reinforced Gypsum Parts

3. Terminology

3.1 *Definitions*—Definitions of terms shall be in accordance with Terminology **C11**.

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 **C11.03** on Specifications for the Application of Gypsum and Other Products in Assemblies.

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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.

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 **C1381**.

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 1/8 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 **C754** or **C1007** as required.

7. Tolerances of Installed GRG Parts

7.1 Parts shall be installed plumb and not be out of line more than ± 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 $\frac{1}{4}$ 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 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 C840.

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

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