



## RPG GRG FACT SHEET

Glass Fiber Reinforced Gypsum (GRG) is a white, 'thin cast' alpha gypsum that is typically field finished. GRG is the material of choice because of its light weight, superior strength and ease of installation. GRG is a non-combustible material (test results of flame spread and smoke development values as per ASTM E-84) and most items only weigh 2-3 pounds per square foot (10-15 kg/m<sup>2</sup>), on average.

RPG's GRG is a composite of high strength, alpha gypsum reinforced with continuous filament random glass fiber mat that is molded into RPG's proprietary acoustical shapes. RPG's GRG is free of asbestos, resin and chopped strand fiber. All units are reinforced with steel or wood supports around the perimeter. No additives such as polymers, retarders or accelerators are used.

Similar to traditional plaster castings but considerably lighter and stronger, GRG is typically field finished with any interior paint. Joints can be taped and finishing is similar to drywall finishing. See below for more details on finishing.

GRG is one of the most practical and economical materials used in acoustics today.

To avoid the risk of costly replacement and/or cancelling the warranty, it is the buyer's responsibility to handle, install and finish GRG products as follows:

### Application Method

- I. **Delivery, Storage and Handling:** Transport and handle GRG units in a manner that avoids excessive stresses or damage. Ensure that the area in which the GRG units are to be stored and installed is a controlled environment, with relative humidity maintained consistently between 30% and 55% and a temperature between 60 and 80 degrees F. GRG units shall be stored flat on dry wooden pallets. Please pay special attention to moisture in the floor in new building construction.
- II. **Installation:** Units shall be lifted carefully with suitable devices and installed plumb and level. Fasten units with screws (through the face or from the back) or bolts as shown on the shop drawings. Where units are suspended, use as a minimum the suspension points indicated on the shop drawings. Butt joints are to be cemented together using construction adhesive (such as "Liquid Nails" or equivalent). Under certain lighting conditions (in atriums, at reflectors, vaults, etc.) reinforcing, fastener and joint taping "read-through" may occur. A field applied plaster skim coat may therefore be required.
- III. **Finishing:** Tape, float and sand all joints and provide control joints (where required) as specified under the gypsum drywall section of the specifications and as described in C.G.C. or U.S.G. Gypsum Construction Handbook - Second Edition. Countersunk fasteners and any damage should be patched to match units' texture. GRG should only be painted under final lighting conditions since imperfections may not be apparent under temporary lighting.
- IV. **Notes:** GRG is a gypsum-based material and is meant to be used as an interior product only. Unfinished GRG may exhibit slight imperfections normally hidden by textured finishes. To obtain satisfactory results with smooth finishes, filling and sanding will be required to hide imperfections inherent in GRG. Improper sealing, more than crowning, can cause tape joint read-through after painting. This is due to the porosity differential between joint compounds and GRG. Ensure that the painting contractor seals all surfaces properly prior to finishing. To cut penetrations in the field, it is recommended that a carbide tipped blade be used. Operator should follow tool safety instructions and wear proper protection.