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GFRG Product Data

Product Data: Interior Columns, Domes, Light Coves & Ceiling or Wall Panels

Design: Shop drawings are submitted for verification of profiles, dimensions, and surrounding construction of GFRG units. Recommended attachment details are indicated on the shop drawings. Attachment methods shown on shop drawings are suggestions only. It is the responsibility of the installer to meet all local building codes, verify job conditions and adjust installation procedures accordingly. Some site cutting and/or grinding of parts may be required to suit job conditions. Field shimming may be required.

Testing:

Matrix:	Gypsum Cement
Glass content	5-6% by weight.
Density	103-112 lb./cu. ft.
Shell Thickness	1/8" min.
Flame Spread Index (ASTM E84)	0
Fuel Contribution (ASTM E84)	0
Smoke Developed Index (ASTM E84)	0 (5, water vapor)
Compressive Strength (ASTM C472)	11,289 psi (77.83 MPa) (average)
Flexural Strength (M.O.R.) (ASTM C947)	3,084 psi (21.27 MPa) (mean value)
Flexural Strength (P.E.L.) (ASTM C947)	2,857 psi (19.70 MPa) (mean value)
Ultimate Tensile Strength (ASTM D638)	1,220 psi (8.41 MPa) (mean value)
Compressive Strength (ASTM D638)	5,790 psi (39.9 MPa) (mean value)
Impact Resistance (ASTM D256)	7.88 ft.lb./in. (mean value)
Barcol Hardness (ASTM D2583)	64 (mean value)
Consistency	25 c.c.
Specific Heat	0.253 Btu/lb./°F
Dielectric Strength	Same as air w/dry, conductive w/wet
Coefficient of Thermal Expansion (ASTM D696)	1.31 x 10⁻⁶ mm/mm/°C (7.3 x 10⁻⁶ in/in/°F)
Nail Pull (wood embedment) (ASTM C473)	590 lbf. (min.)
Behaviour at 750°C (ASTM E136)	18.78% mass loss (mean average)
Humidified Deflection (ASTM C473)	3 mm. mid-point deflection. (mean value)

Fabrications: **Mix** - GFRG is batched and blended in accordance with industry standards using the specified mix design. Prefabricated glass-fiber reinforced gypsum units using multidirectional spray lay-up procedures and combined with gypsum plaster formulated for combination with glass fiber.

Application - GFRG mixture is sprayed and/or hand laid into molds designed to match the shape and dimensions shown on the approved shop drawings. The nominal shell thickness is 3/16".

Finish - GFRG surface is smooth, ready to receive primer and paint, which is suitable for interior finish.

Delivery: GFRG units are crated or palletized at the plant. Crated units are delivered to the jobsite via truck.

Storage: Store crated GFRG products on a level surface protected from weathering and damage. Do not unpack crates until immediately prior to installation.

Handling: Use special care to prevent damage to material surface; do not allow acidic materials to come in contact with surface, as degradation and discoloration can occur.