



Fiblast, LLC.
1602 Mizell Road
Tuskegee, AL 36083

GLASS FIBER REINFORCED GYPSUM (GFRG) / PLASTER FABRICATIONS 092700

GENERAL SPECIFICATIONS

1 SCOPE

1.1 This specification encompasses materials and labor required in the manufacture of Architectural Fiberglass products to include Cornice, Building Claddings, Columns Covers and other decorative shapes etc. These products are collectively called "Product" hereinafter. The product is designed for residential, industrial & commercial markets.

1.2 MANUFACTURER

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2 CONSTRUCTION

2.1 The Product is made from Reinforced Gypsum Composite Laminate combined with core materials (if applicable) appropriate for the total composite required to meet the physical requirements of external loads.



- 2.2 The product is produced in a controlled environment by the "Open Mold" process with secondary procedures to ensure proper and complete integrity between all materials used.
- 2.3 All patch materials, caulking materials, blocking and fasteners will be by others.

3 PRODUCT SIZES

- 3.1 Product can be formed in spherical or rectangular shape or any combination. They can be any shape for cornices as long as there is no negative draft to inhibit the open molding process.
- 3.2 For cornices, unless otherwise specified each panel is eight (8) ft long.
- 3.3 The nominal shell thickness is 3/16". Thickness can vary depending upon the requirements or the job specifications.

4 ENVIRONMENT OPERATING REQUIREMENTS

- 4.1 The product shall be able to resist all environments from minus 20 degrees to plus 150 degrees F.
- 4.2 The Product composite is constructed in such a manner to afford protection from climatic variations.

5 PRODUCT PROPERTIES

- 5.1 Fiblast GRG is easy to customize almost any shape.
- 5.2 Lightweight material; 2-3 lbs per square foot.
- 5.3 100% non-combustible.
- 5.4 Method of Construction: Hand or spray lay-up process in mold.
- 5.5 Weight of mold depends on thickness.
- 5.6 Flame spread Index is 0 and Smoke Developed Index is less than 10, when tested per ASTM E 84-01.

6 MATERIAL STANDARDS

- 6.1 ASTM C840- Standard Specification for Application and Finishing of Gypsum Board.
- 6.2 ASTM C1335/C1335M- Standard Specification for Glass Fiber Reinforced Gypsum Composites.
- 6.3 ASTM E84- Standard Test Method for Surface Burning Characteristics of Building Materials.
- 6.4 ASTM C 1467/C 1467/M.
- 6.5 ASTM C 1381/C 1381/M.

7 TECHNICAL PROPERTIES

7.1	Flexural strength (ASTM C947)	3200-4000psi
7.2	Impact Strength (ASTM D256)	8.0-8.8psi
7.3	Strength (ASTM C109)	10,000psi
7.4	Barcol Hardness (ASTM D2583)	84
7.5	Rockwell Hardness (ASTM D785)	70-95
7.6	Thermal Expansion (ASTM D696)	1.17x10/F
7.7	Density	103-112 psi
7.8	Glass Fiber	5-6% by weight
7.9	Humidified Deflection (ASTM C473)	1/16" – 1/8"
7.10	Modulus of Elasticity (ASTM D790)	2.1-2.2x10 ⁵ psi

8 OTHER REFERENCES

- 8.1 Shipping, handling, storage & installation instructions.

END OF GENERAL SPECIFICATIONS