



Fiblast, LLC.
1602 Mizell Road
Tuskegee, AL 36083

ARCHITECTURAL FIBERGLASS SPECIFICATIONS 06610

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, Gutters, Downspouts decorative shapes etc. These products are collectively called “Product” hereinafter. The product is designed for residential, industrial & commercial markets. These specifications are not to be used for Underground Storm Shelters or FRP Structural Products manufactured by Greenville Products Group, Inc.

1.2 MANUFACTURER

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2 CONSTRUCTION

2.1 The Product is made from Reinforced Plastic 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 patching material, if required, will be provided by Fiblast. All 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 Fiberglass cornice, unless otherwise specified each panel is eight (8) ft long.
- 3.3 For Downspouts the min diameter is 5", or 4"x5" Rectangular.
- 3.4 The nominal wall 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.
- 4.3 Specially formulated product is available in Bullet and/or impact resistant formulations.
- 4.4 Specially formulated product is available for extreme corrosive & chemical environments.

5 PRODUCT STRUCTURE

- 5.1 The product is made of molded fiberglass construction.
- 5.2 External surfaces are finished surfaces.



- 5.3 External surfaces can be field painted or factory gel coated from an assortment of colors.
- 5.4 Typical gel coat thickness is 15-25 Mils.
- 5.5 Typical laminate thickness is 3/16", thicker laminates are available upon request or if required.
- 5.6 All corners (unless where custom dimensions apply) shall be shop fabricated.
- 5.7 Counter sink all exposed fasteners and finish with especially formulated patch.
- 5.8 Lap the joints and finish and seal.
- 5.9 Lap joints that do not require structural strength bonding, use non-skinning Butyl caulk inside the lap joints. Apply this caulk in a way that it is never exposed to UV.

6 PROPERTIES

- 6.1 The fiberglass laminate consists of polyester resin reinforced with a minimum of 20% by weight E-Glass, unless fire-retardants are added then the minimum weight can be a minimum of 14%.
- 6.2 Gel coat is formulated to give high performance against water & certain chemicals. Primarily developed for sanitary & marine applications. It meets and surpasses the following water resistance standards;
- 6.3 ANSI Z1Z4.1.1987
- 6.4 ANSI Z1Z4.2.1987
- 6.5 Gel coat with low luster finish, smooth and free from roughness, or other irregularities.
- 6.6 Gel Coat type: Gel Coat shall be a high performance product containing UV inhibitors, manufactured by Polygard, Cooke Composites or Ferro Corporation or equal.
- 6.7 Resins shall be flame retardant Polyester resins for hand lay or spraying applications. Resins with Flame retardant fillers can also be used. Class 1 rated (per ASTM E-84) resins that meet the requirements of flame spread of less than 25 & smoke density of less than 450.



- 6.8 Laminate: 3/16" inch thick, (minimum can vary), and chemically bonded to gel coat", thicker laminates are available upon request or if required.

7 LAMINATE PROPERTIES

7.1	Tensile strength (ASTM D 638):	12,000 PSI.
7.2	Flexural strength (ASTM D 790):	20,000 PSI.
7.3	Shear strength (ASTM D 732):	12,000 PSI.
7.4	Barcol hardness (ASTM D 2583):	40
7.5	Compressive strength (ASTM D695):	17,000 Psi
7.6	Impact (ASTM D 256):	12-ft lbs/inch.
7.7	Density/specific gravity (ASTM D 792):	93.6 PCF/1.5.

8 OTHER REFERENCES

- 8.1 Shipping, handling, storage & installation instructions.

END OF GENERAL SPECIFICATIONS