Architectural Fiberglass, Inc.

AB 2004

Manufacturer & Designer
Custom Fiberglass
Architectural Ornamentation

Made in the U.S.A.

FRP Fluted Columns
with Corinthian Capitals

Simulated FRP Cast Stone
Cornices & Keystones

FRP Decorative Elements

FRP Grapevine Column & Base

Reproduced Historic FRP Cupola

FRP Dome, Base, Cross,

Arches • Balusters • Canopies • Column Covers • Column Caps & Bases

Architectural Fiberglass, Inc. (AFI) custom designs and manufactures decorative fiberglass ornamentation for the restoration, reproduction, and new construction industries. **AFI** can manufacture fiberglass composites requiring exact specifications with unlimited repetition Our designers can provide as much or as little design support that may be required. **AFI** can manufacture products superior to existing ornamentation and is only limited by the scope of the architect's imagination. Complex configurations and reproductions of historical shapes can be achieved with fiberglass. Architects now have the ability to replicate existing architecture that was once cost prohibitive. **AFI's** products are unparallel in their beauty, strength, longevity, and the answers to many maintenance problems.

FRP Terra Cotta Replacement

25' Gold FRP Domes & Crosses

Historical FRP Simulated Cast Stone Cornices, Pediments & Decorative Elements

Historical Reproduced FRP Bell Tower Housing Cellular Antenna

25' diameter FRP Dome

Historical Reproduced FRP Stone Elements

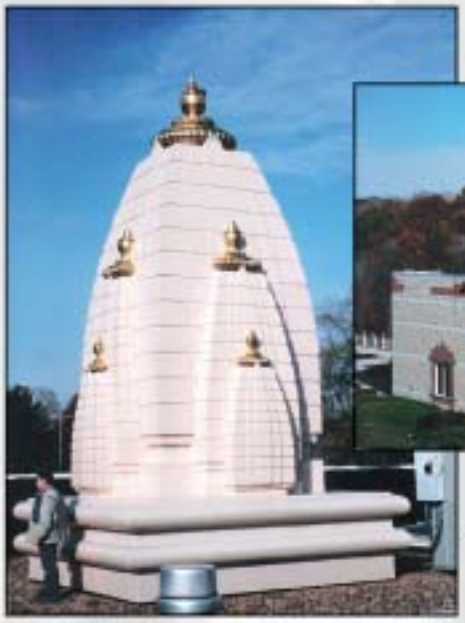
40" diameter by 30' Tall FRP Entasis Column Covers

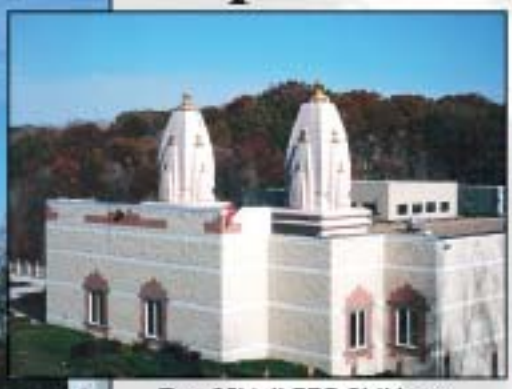
Cornices • Crosses • Cupolas • Custom Shapes • Domes •

Restoration

Reproduction

New Construction





Two 25' tall FRP Shikhars
(Religious Ornaments)

Stone Finish FRP Dentil Cornice and Brackets

FRP Dome & Cupola/Finial

FRP Cornice and Brackets

FRP Signature Signage & Cornice

FRP Window Ornament

Fiberglass Benefits

Fiberglass Reinforced Polyesters (FRP) can replicate wood, stone, concrete, terra cotta, marble, granite, copper, steel, and other popular building materials. FRP parts are chosen over other material because it is lightweight, cost effective, corrosion resistant, and is virtually maintenance free. Fiberglass products can be painted or the color can be molded in the surface. Because FRP begins with liquid polymer resins and formable glass fibers, the finished shape can be curved, corrugated, ribbed, or contoured in a variety of ways, with varying thickness. Per unit of weight, FRP is among the strongest commercial material available. Pound for pound, FRP is stronger than concrete, steel or aluminum and has weathered extremes for more than thirty years. FRP parts can often reduce maintenance and installation cost when compared to other traditional building materials.

Sculptures • Signs • Simulated Stone • Spandrel Panels • Towers • Urns

• Fascia Panels • Louvers • Molding • Pilasters • Railings

FRP Properties

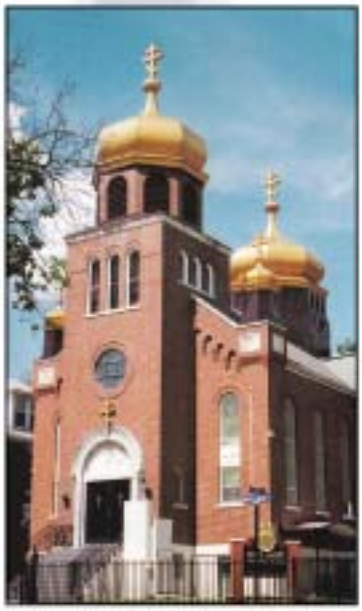
Listed below are ranges of physical properties that can be created for architectural applications

Flexural strength, psi	16,000 to 32,000
Flexural modulus, psi	0.8 to 1.4 x10^6
Tensile strength, psi	9,000 to 18,000
Tensile modulus, psi	0.8 to 1.4 x 10^6
Elongation	1.0 to 2.5%
Compressive strength, psi	15,000 to 25,000
Impact strength izod, lb./in. of notch	4 to 12
Specific gravity	1.0 to 1.8
Density, lbs./ft.3	80 - 100
Continuous heat resistance	150 to 350
Thermal coefficient of expansion in/in/F x 10-	12 to 20
Barcol hardness	40 to 60

Properties of a typical 1/8" glass mat laminate using specific fire retardant resin

Flexural strength, psi @ 77 degrees F	28,000
Flexural strength, psi @ 77 degrees F	1.07 x 10^6
Tensile strength, psi @ 77 degrees F	16,800
Elongation	2.2%
Barcol hardness	40-50
Glass content	31%
Specific gravity	1.62
ASTM E-84 (tunnel test)	<25
UL Subject 94	V-O

FRP Grapevine Columns, simulated Marble Wall Panels



Reproduced Gold FRP Domes, Crosses & Bases

FRP Copper top Cupola

FRP Cornice and Brackets

FRP Canopy

FRP Balusters and Dentil Cornice

FRP Fluted Columns & Corinthian Capitals, Dentil Cornice

Architectural Fiberglass, Inc.

8300 Bessemer Ave.
Cleveland, Ohio 44127-1839
(216) 641-8300 Fax: (216) 641- 8150
(888) 483-1775

www.fiberglass-afi.com