



SECTION 06 82 00 – GFRC ARCHITECTURAL SPECIFICATION

SECTION 06 82 00 – GLASS FIBER REINFORCED CONCRETE (GFRC)

Wilson Composites, LLC — Design-to-Install Composite Solutions

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes architectural Glass Fiber Reinforced Concrete (GFRC) components, including but not limited to:

1. Column covers and capitals
2. Cornices, friezes, banding, and trim
3. Wall panels, surrounds, soffits, and integrated ornamentation
4. Custom components as shown on drawings

B. Related Sections

1. 03 30 00 – Cast-In-Place Concrete
2. 04 20 00 – Unit Masonry
3. 07 92 00 – Joint Sealants
4. 09 96 00 – High-Performance Coatings

1.2 PERFORMANCE REQUIREMENTS

A. Structural Performance

GFRC components shall resist applicable design loads without cracking, permanent deformation, or warping.

B. Dimensional Tolerance: $\pm 1/8$ in (3.2 mm) in width/height; $\pm 1/16$ in (1.6 mm) in thickness.

C. Weatherability: Panels shall withstand freeze-thaw cycling per ASTM C666.

D. Fire Performance: Comply with NFPA 285 assemblies where applicable.

E. Installation Accuracy: Manufacturer must provide shop drawings with attachment hardware and field coordination details.

1.3 SUBMITTALS

A. Product Data: Technical data sheets, material composition, finishes.

B. Shop Drawings (Required): Fully coordinated with structural and façade support systems; locations, profiles, anchorage details.

C. Samples: Minimum size: 6"x6", indicating finish and texture.



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D. Quality Assurance Submittals: ISO/plant certification, project references.

1.4 QUALITY ASSURANCE

A. Manufacturer shall have minimum 10 years' experience producing GFRC.

B. Installer shall be trained and authorized by manufacturer.

1.5 WARRANTY

A. Provide manufacturer's minimum 1-year warranty covering structural integrity, finish adhesion, and dimensional stability.

PART 2 – PRODUCTS

2.1 MANUFACTURER

Basis of Design: Wilson Composites, LLC • www.wilsoncomposites.com • (xxx) xxx-xxxx
Substitutions must meet or exceed all specification requirements and include engineered anchorage systems.

2.2 MATERIALS

A. Glass Fiber Reinforced Concrete

1. Portland cement: ASTM C150, Type I/II
2. Alkali-resistant glass fibers meeting ASTM C1666
3. Acrylic polymer fortifiers
4. Weight target: 6–10 lb/sf depending on configuration

2.3 FINISHES

A. Factory-applied finish options include integral color, texture replication, smooth or sandblast finish.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify supporting substrates are plumb, level, and structurally adequate.

3.2 INSTALLATION

- A. Install GFRC per manufacturer instructions and approved shop drawings.
- B. Provide uniform joint spacing; seal joints per Section 07 92 00.

3.3 FIELD QUALITY CONTROL

A. Inspect anchors and attachments prior to concealment.



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3.4 CLEANING AND PROTECTION

A. Clean surfaces with manufacturer-approved methods and protect until completion.