



SECTION 09 27 13 – GFRG ARCHITECTURAL SPECIFICATION

SECTION 09 27 13 – GLASS FIBER REINFORCED GYPSUM (GFRG)

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

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes architectural Glass Fiber Reinforced Gypsum (GFRG) decorative interior components including ceilings, domes, wall cladding, column covers, cornices, moldings, and custom assemblies.

B. Related Sections:

1. 09 29 00 – Gypsum Board
2. 09 90 00 – Painting and Coating
3. 06 10 00 – Rough Carpentry (blocking support)

1.2 PERFORMANCE REQUIREMENTS

A. Non-combustible per ASTM C1381 and ISO 1182.

B. Dimensional Stability: Maintain tolerances and resist humidity-related deformation.

C. Fire Performance: Flame spread 0, smoke 0 (from Wilson Composites product sheet).

1.3 SUBMITTALS

A. Product Data: Material composition, embedment options, finishes.

B. Shop Drawings: Indicate jointing, blocking, fastening, and supports.

C. Samples: Minimum 6" × 6" finish sample.

D. Quality Assurance Submittals: Installer qualifications.

1.4 QUALITY ASSURANCE

A. Manufacturer: Minimum 10 years producing GFRG.

B. Installer: Approved and trained by manufacturer.

1.5 WARRANTY

A. 5-year warranty against manufacturing defects.



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PART 2 – PRODUCTS

2.1 MANUFACTURER

Basis of Design:

Wilson Composites, LLC

www.wilsoncomposites.com • Sales@WilsonComposites.com • (864) 646-3000

2.2 MATERIALS

A. GFRG composite reinforced with glass fibers.

1. Weight: 1.5–2 lb/ft² (from Wilson Composites product sheet)
2. Shell Thickness: 3/16" (5 mm)
3. Flexural Strength (Ultimate): 4,700 psi
4. Flame Spread: 0 • Smoke: 0
5. Embedments: Wood or galvanized steel for attachment

2.3 FINISHES

- A. Smooth paint-ready finish standard; factory pre-finishing available.
- B. Custom molded textures available.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Verify substrates are clean, dry, level, and braced.

3.2 INSTALLATION

- A. Install GFRG per approved shop drawings.
- B. Attach using screws into substrate or embedments.
- C. Shim for alignment; avoid forcing joints.

3.3 FIELD QUALITY CONTROL

- A. Inspect fastening locations prior to concealment.

3.4 CLEANING AND PROTECTION

- A. Clean with soft cloth; avoid abrasives.