



GC Products, Inc. GFRC* - Glass Fiber Reinforced Cement

1.0 **General**

1. Glass fiber cement fabrications as indicated on the drawings.

1.2 Related Sections:

1. Section 04720 – Cast Stone
2. Section 05500 – Metal Fabrications
3. Section 06100 – Rough Carpentry
4. Section 09900 – Paints and Coatings

1.3 References:

1. ASTM C 150 – Standard Specification for Portland Cement
2. ASTM E 84 – Standard Test Method for Surface Burning Characteristics

1.4 Manufactures:

GC Products, Inc.
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1.5 Submittals and Samples:

1. Product Data: Manufactures data sheets, including dimensions, finishes, installation recommendations and storage and handling requirements.
2. Shop Drawings: Provide drawings showing dimensions and joint details.
3. Samples: Submit two samples, minimum size 6 inches (150 mm) square, representing actual product, color and patterns.

1.6 Substitutions:

1. Not permitted

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2. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- 1.7 Quality Assurance:
1. Installer Qualifications: Regularly engaged and experienced in the installation of glass fiber reinforced cement or pre-cast units.
- 2.0 **Products**
- 2.1 Materials:
1. Glass Fiber Reinforced Cement Fabrications: GFRC units shall be prefabricated with Polymer Glass Fiber Reinforced Cement.
 2. Reinforced as required.
 3. GFRC to be ready to receive finish coatings as specified.
 4. GFRC is supplied in natural grey color and requires finish by others.
 - A. Shell Thickness +1/8" – 1/16"
 - B. Thickness Total Unit +1/4" – 1/8"
 - C. Variation from Dimensions +1/8" – 1/8"
 - D. Surface Burning Characteristics
Flame Spread 0
Smoke Developed 5
Fuel Contribution 5
 - E. Flexural Strength 1000 to 1800 PSI
 - F. Weight 2 ½ to 6 lbs./sq. ft.
 - G. Compressive Strength Over 5000 PSI
- 3.0 **Execution**
- 3.1 Examination
1. Do not begin installation until substrates have been properly construction; verify that substrates are plumb and true.

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2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
3. Check field dimensions before beginning installation. If dimensions vary too much from design dimensions for proper installation, notify Architect and wait for written instructions before proceeding.

3.2 Preparation:

1. Clean surfaces thoroughly prior to installation.
2. Prepare surfaces using the methods recommended by the manufactures for achieving the best results for the substrate under the project conditions.
3. Install supplementary temporary and permanent supports as required for proper installation.

3.3 Installation:

1. Install in accordance with applicable code and manufactures recommendations, plumb and true to line; shim where necessary.
2. Provide control joints at not more than 35 feet on center if not indicated on drawings.
3. Provide expansion joints where moving joints in substrates occur.
4. Patch exposed anchor points to texture of unit.

3.4 Protection:

1. Protect installed products until completion of project.
2. The surface should be dry and clean before applying finish. The surface should be dry for 48 to 72 hours prior to applying finish.
3. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION