



GC Products, Inc. – Architectural Precast Concrete (Section 03450)

1.0 **General**

1. Architectural precast concrete 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.
601 7th St., PO Box 1767
Lincoln, CA 95648
P. 916.645.3870 F. 916.645.3857
www.gcproductsinc.com

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

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

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.
- 1.8 Delivery, Storage, and Handling
1. Transport units with care and avoid excessive stress and preventing damage; use appropriate equipment.
 2. Store units off the ground on material that will not stain the precast. If long term storage is necessary, cover with polyethylene or other non-staining waterproof material.
- 2.0 **Products**
- 2.1 Materials:
1. Architectural Precast Concrete Fabrications: Architectural precast concrete units shall be prefabricated with polymer modified high density concrete designed to achieve desired strength, color and texture.
 2. Reinforced as required.
 3. Architectural Precast Concrete to be ready to receive finish coatings as specified.
 4. Architectural Precast Concrete is supplied in finished color and texture as determined by the customer.
 - A. Shell Thickness +3" – 1 1/2"
 - B. Thickness Total Unit +3" – 2 1/2"
 - C. Variation from Dimensions +1/8" – 1/8"
 - D. Surface Burning Characteristics
Flame Spread 0
Smoke Developed 5
Fuel Contribution 5
 - E. Compressive Strength 4800 to 5200 PSI
 - F. Weight 14 to 25 lbs./sq. ft.

3.0 **Execution**

3.1 Examination

1. Do not begin installation until substrates have been properly construction; verify that substrates are plumb and true.
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. Set units using mortared masonry techniques except where metal anchors are indicated on drawings or shop drawings.
3. Install anchors, dowels, and other fastening devices as indicated.
4. Patch exposed anchor points to texture of unit.
5. Install sealant backer, prime joint surfaces, and install sealant with tooled joint surface matching pointed joints. Use materials and methods specified in Section 07900.

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.
4. To clean, use fiber brushes and clean water only. Do not use acid or commercial cleaners unless specifically approved by manufacturer.

END OF SECTION