

## 03400 SPECIFICATION FOR PRECAST CONCRETE

### PART 1 GENERAL

#### 1.1 SUMMARY

A. Provide material necessary to furnish precast concrete elements as shown on the Drawings and specified herein.

#### 1.2 INSTALLATION STANDARDS

A. Installation shall be performed by experienced, well-trained workers competent to complete the work as specified.

B. Use only materials approved by the manufacturer for use with its product.

C. All work shall comply with governing building and safety codes.

#### 1.3 SUBMITTALS

A. Submit samples for approval to illustrate quality, color, and texture of surface finish; slight variation in color from approved sample shall be deemed acceptable.

B. Shop Drawings shall be submitted for approval as required. Shop Drawings shall be at a sufficient scale to indicate unique and unusual conditions and to indicate adjacent construction or finishes affected by the Work. Shop Drawings shall indicate the location of all required seams.

C. Templates taken shall supersede all Shop Drawing dimensions unless noted otherwise.

D. Templates must be approved by the architect or other specified representative of the client.

#### 1.4 MATERIALS HANDLING

A. Provide all materials required to complete the work as shown on drawings and specified herein. Deliver, store, and transport materials to avoid damage to the product or to any other work. Return any products or materials delivered in a damaged or unsatisfactory condition.

B. Store materials in a safe, secure location, protected from moisture and extreme temperature.

#### 1.5 PRECONSTRUCTION PROJECT PREPARATION

A. General Contractor shall examine and verify that job conditions are satisfactory for speedy and acceptable work prior to installation of precast units. This includes verifying accessibility to the site.

B. Physical templates shall be taken and used for fabrication

1. When templating for wall panels, level and plumb lines shall be established on the templates for reference during fabrication.

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## **PART 2 MATERIALS**

### **2.1 MANUFACTURER**

A. Units shall be manufactured by Get Real Surfaces, Inc., Poughkeepsie NY 12601 (845-452-3988).

### **2.2 CONCRETE MATERIAL**

A. Units shall be composed of a proprietary mix of Portland Cement (ASTM C150), Aggregate (ASTM C33), and Pigment achieving a design weighing no less than 110 lbs./cf. and a compressive strength of 3500 psi minimum at 28 days.

### **2.3 REINFORCING MATERIALS**

A. Primary Reinforcing: ASTM A 615, Grade 60 bar (note: may not be required for thin elements).

B. Secondary Reinforcing (where applicable): glass fiber

## **PART 3 CONSTRUCTION AND INSTALLATION**

### **3.1 FABRICATION**

A. All units shall be a standard slab thickness of 1 1/2" unless specified otherwise.

B. All units shall be factory sealed. Sealer is to be determined by Manufacturer based on application of product.

C. Units shall be cast in largest pieces practicable (approximately 8'L and 24sf).

D. Reinforcing bars shall be placed at the entire perimeter of product (minimum #3) and around all cutouts (minimum #2).

E. Fabricate units straight, smooth, and true to size and shape, with exposed edges and corners precise and square unless otherwise indicated.

F. Fabricate units with smooth surface finish free of pockets, sand streaks, and honeycomb, with uniform color and texture to match approved control sample.

G. Entrapped air voids or similar casting variations will be filled with a portland cement based colored filler (unless otherwise specified).

H. Dimensional Tolerances of Finished Units:

1. Overall height, width or length:  $\pm 1/8"$ .
2. Angular deviation of plane of side:  $1/16"$
3. Warp (out of plane):  $1/8"$  per 5'

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[www.getrealsurfaces.com](http://www.getrealsurfaces.com)

### 3.2 INSTALLATION

#### A. TOLERANCES

1. Installed units shall have seams no wider than 3/16" and shall be filled with corresponding colored caulk.

#### B. COUNTERTOPS AND BACKSPLASHES

1. Tops shall be supported at 24" o.c. (shim as required). Unsupported lengths greater than 24" shall have a continuous cleat at back edge fastened to solid blocking. Manufacturer should be consulted regarding unsupported lengths in excess of 48".
2. After dry fitting all pieces (to assure a proper fit), run a small bead of vinyl adhesive caulk along the front side of the tops.
3. Backsplashes shall be adhered to the wall with construction adhesive (press pieces gently into place; do not force the pieces to conform to the wall or they may crack).

#### C. FLOATING OR WALL-MOUNTED PRODUCTS

1. Floating or wall-mounted products that are to be wall-hung shall utilize pre-engineered brackets by Rakks™ in addition to continuous wall cleating when possible (for vanities or other wall-mounted product less than 36" long a continuous wall cleat on three sides will eliminate the need for additional support brackets).

#### D. WALL/CEILING PANELS

1. Walls shall be framed with wood or minimum 14GA metal studs at 16" Center to Center and sheathed with 3/4" exterior grade plywood. Glue and screw plywood at 8" Center to Center maximum.
2. Install panels directly to plywood using a combination of thinset mortar (minimum 1/4") and brick ties for positive secondary attachment. Screw ties to substrate.
3. Position lower panels first; as adjacent panels are installed use wood blocks screwed into joint locations to hold them in place until mortar has set (minimum 3 days).
4. Ceiling panels shall be installed over wall panels for additional support at edges.
5. When temporary blocking has been removed, install appropriate size backer rod into joints and fill with Phenoseal® caulk leaving 1/8" recess.
6. Grout over caulk when set with matching color if desired.

### 3.3 REPAIR AND TOUCH-UP

1. After installation, inspect all work for improper installation or damage.
2. Repair any work damaged during installation. Make repair work undetectable
3. Patching of damaged exposed face surfaces is acceptable. Repairs will be accepted if unnoticeable from a distance of 3'

**END SECTION**

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