

## SPECIFICATION FOR PRECAST CONCRETE NON-STRUCTURAL STAIR COMPONENTS

### 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 145 lbs./cf. and a compressive strength of 6000 psi minimum at 28 days.

B. Absorption 6.50%

C. ANSI Z 137.1 .56 Wet

D. ASTM C666 Freeze Thaw - Pass (no change)

**2.3 REINFORCING MATERIALS**

A. Primary Reinforcing: GFRP (Glass Fiber Reinforced Polymer Rebar)

B. Secondary Reinforcing (where applicable): glass and/or PVA fiber

**PART 3 CONSTRUCTION AND INSTALLATION**

**3.1 FABRICATION**

A. All units shall be a minimum slab thickness of 1 1/2" unless specified otherwise by design or engineering. 18 lbs. / sq.ft. @ 1.5" thickness.

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 for the application.

D. Fiberglass Reinforcing rod shall be placed at the entire perimeter of product.

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) and is considered common practice.

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'
4. Thickness + zero, minus  $1/16"$

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### 3.2 INSTALLATION

#### A. TOLERANCES

1. Installed units shall have planned seams , 3/16" in width unless specified otherwise and shall be filled with corresponding colored caulk or grout appropriate for the particular installation as specified by architect or designer.

#### B. GENERAL PRECAST NON STRUCTURAL STAIR COMPONENTS

1. Allowances for variations in field conditions shall be considered when planning thickness of and material selected as setting bed . Typically 1/4" minimum thickness for rapidsetting thinset or epoxy bonding mortar is required.
2. Prior to installing product, layout all critical points. Dry fit units (to assure a proper fit), prior to the addition of bonding material.

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