

## SECTION 12 36 61.19

### RECYCLED GLASS COUNTERTOPS

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Recycled Glass countertops.
  - 2. Setting materials and accessories.
- B. Related Sections:
  - 1. Division 01: Administrative, procedural, and temporary work requirements.
  - 2. Section [\_\_\_\_ - \_\_\_\_\_] - Steel supports.
  - 3. Section [\_\_\_\_ - \_\_\_\_\_] - Wood supports.
  - 4. Section [\_\_\_\_ - \_\_\_\_\_] - Cementitious backer unit substrate.
  - 5. Section [\_\_\_\_ - \_\_\_\_\_] - Base cabinets.
  - 6. Section [\_\_\_\_ - \_\_\_\_\_] - Joint sealers.
  - 7. Section [\_\_\_\_ - \_\_\_\_\_] - Toilet Accessories.

##### 1.2 REFERENCES

- A. ASTM International (ASTM):
  - 1. C99 - Standard Test Method for Modulus of Rupture of Dimension Stone.
  - 2. C39 - Standard Test Method for Compressive Strength of Dimension Stone.
  - 3. C97-02 - Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone

##### 1.3 SUBMITTALS

- A. Shop Drawings: Include countertop layout, dimensions, materials, finishes, cutouts, and attachments.
- B. Samples:
  - 1. [3 x 3] [\_\_ x \_\_] inch recycled glass surfacing samples [in specified color.] [showing available colors]

##### 1.4 QUALITY ASSURANCE

- A. Fabricator and Installer Qualifications: Minimum [2] [\_\_] years [documented] experience in work of this Section.
- B. Mockup:
  - 1. Construct countertop mockup, [6] [\_\_] feet wide, full depth, with splash [and skirt].
  - 2. Include [plumbing fixtures and trim.] [\_\_\_\_].
  - 3. Locate [where directed.] [\_\_\_\_].
  - 4. Approved mockup may remain as part of the Work.

#### PART 2 - PRODUCTS

##### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by Polycor Vetrazzo LLC
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

##### 2.2 MATERIALS

- A. Recycled Glass Panel:
  - 1. Product: Vetrazzo
  - 2. Composition: Recycled glass aggregate, cement, additives, and color pigments formed into flat slabs. Petroleum based resins not permitted.
  - 3. Total recycled glass content: At least 75% recycled glass by weight.
  - 4. Post-Consumer recycled glass content: At least [\_\_\_\_]% post-consumer recycled glass by weight.
  - 5. Color: [\_\_\_\_.] [To be selected from manufacturer's full color range.]
  - 6. Thickness: 3 cm
  - 7. Physical characteristics:
    - a. Food Safety: NSF/ANSI 51, NSF splash zone certified
    - b. Compressive Strength: 6,295 psi, tested to ASTM C39
    - c. Absorption: 0.79%, tested to ASTM C-97-02
    - d. Scratch Resistance / Mohs Hardness : 7.5 Glass / 4.75 Matrix
    - e. Modulus of Rupture: 1,004 psi, tested to ASTM C-99
    - f. Radon Emissions: < 0.5 pCi/L, compared to EPA-402-R-92-004

## 2.3 ACCESSORIES

- A. Adhesive: Type recommended by recycled glass panel manufacturer.

\*\*\*\* OR \*\*\*\*

- B. Latex-Portland Cement Mortar: 272 Premium Floor N' Wall Thin-Set Mortar mixed with 333 Super Flexible Additive by Laticrete International, Inc. or equivalent.

\*\*\*\* OR \*\*\*\*

- C. Latex-Portland Cement Mortar: 254 Platinum Multipurpose Thin-Set Mortar by Laticrete International, Inc. or equivalent.

\*\*\*\* OR \*\*\*\*

- D. Latex-Portland Cement Mortar: ANSI A118.4.

- E. Joint Sealer:

- 1. Latisil Tile and Stone Sealant by Laticrete International, Inc. or equivalent.
- 2. Color: [\_\_\_\_.] [To be selected from manufacturer's full color range.]

## 2.4 FABRICATION

- A. Cut recycled glass panels accurately to required shapes and dimensions.
- B. Radius exposed edges.
- C. Fabricate with hairline joints.
- D. Cut holes for [sinks] [faucets] [toilet accessories] [\_\_\_\_\_].

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Clean surfaces to receive countertops; remove loose and foreign matter than could interfere with adhesion.

### 3.2 INSTALLATION

- A. General:

- 1. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with

- approved shop drawings and product data.
- 2. Provide product in the largest pieces available.
- 3. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work.
- a. Exposed joints/seams will not be allowed.
  - 4. Cut and finish component edges with clean, sharp returns.
  - 5. Rout radii and contours to template.
  - 6. Anchor securely to base cabinets or other supports.
  - 7. Align adjacent countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop.
  - 8. Carefully dress joints smooth, remove surface scratches and clean entire surface.
  - 9. Install countertops with no more than 1/8 IN sag, bow or other variation from a straight line.
- B. Countertops:
  - 1. Install plumb, level, true and straight.
    - a. Shim as necessary using concealed shims.
  - 2. Adhere tops to base cabinets as recommended by manufacturer.
  - 3. Attach top securely to base unit or support brackets in accordance with manufacturer's instructions.
    - a. Supply additional wood supports, spaced no more than 12 IN apart or as otherwise required for adequate strength.
    - b. Restrict unsupported overhangs to 12 IN.
  - 4. Where tops are abutted by walls at both ends: 1/8 IN expansion gaps at both ends for every 10 FT countertop.
    - a. Seal gaps with elastomeric sealant.

### 3.3 INSTALLATION TOLERANCES

- A. Maximum variation from level and plumb: 1/8 inch in 10 feet, noncumulative.
- B. Maximum variation in plane between adjacent pieces at joint: Plus or minus 1/16 inch.

### 3.4 CLEANING

- A. Clean countertops in accordance with manufacturer's instructions.

### 3.5 PROTECTION

- A. Protect installed countertops with nonstaining sheet coverings.

END OF SECTION