

## SECTION 06 61 19

### QUARTZ SURFACING FABRICATIONS

This section includes notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word: From the pull-down menus select TOOLS, then OPTIONS. Under the tab labeled VIEW, select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Quartz countertops.
  - 2. Quartz [\_\_\_\_\_].
  - 3. 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. American National Standards Institute (ANSI):
  - 1. A108.5 - Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex Portland Cement Mortar.
  - 2. A118.4 - Latex-Portland Cement Mortar.
  
- B. ASTM International (ASTM):
  - 1. C97 - Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone.
  - 2. C99 - Standard Test Method for Modulus of Rupture of Dimension Stone.
  - 3. C170 - Standard Test Method for Compressive Strength of Dimension Stone.
  - 4. C241 - Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic.
  - 5. C482 - Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement.
  - 6. C484 - Standard Test Method for Thermal Shock Resistance of Glazed Ceramic Tile.
  - 7. C531 - Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
  - 8. C648 - Standard Test Method for Breaking Strength of Ceramic Tile.
  - 9. C650 - Standard Test Method for Resistance of Ceramic Tile to Chemical Substances.
  - 10. C672/C672M - Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals.
  - 11. C880 - Standard Test Method for Flexural Strength of Dimension Stone.
  - 12. C1026 - Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling.
  - 13. C1028 - Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
  - 14. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

##### 1.3 SUBMITTALS

- A. Shop Drawings: Include layout, dimensions, materials, finishes, cutouts, and attachments.
- B. Samples:
  - 1. [3 x 3] [\_\_ x \_\_] inch quartz samples [in specified color.] [showing available colors.]
  - 2. [3] [\_\_] inch long joint sealer 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].] [[\_\_\_\_] mockup, [\_\_] x [\_\_] feet.]
  - 2. Include [plumbing fixtures and trim.] [\_\_\_\_.]
  - 3. Locate [where directed.] [\_\_\_\_.]
  - 4. Approved mockup may remain as part of the Work.

#### 1.5 WARRANTY

- A. Provide manufacturer's 10 year warranty against defects in materials and workmanship.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by Cosentino USA, Inc.
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### 2.2 MATERIALS

- A. Quartz Sheet:
  - 1. Product: Silestone.
  - 2. Composition: Quartz aggregate, resin, and color pigments formed into flat slabs.
  - 3. Anti-microbial protection: Microban by Microban International, Inc., integral to sheet.
  - 4. Color: [\_\_\_\_.] [To be selected from manufacturer's full color range.]
  - 5. Thickness:
  - 6. Physical characteristics:
    - a. Static coefficient of friction: 1.02 dry, 0.51 wet, tested to ASTM C1028.
    - b. Water absorption: Maximum 0.03 percent, tested to ASTM C97.
    - c. Compressive strength: Minimum 29,000 psi, tested to ASTM C170.
    - d. Bond strength: Minimum 210 psi, tested to ASTM C482.
    - e. Modulus of rupture: Minimum 6300 psi, tested to ASTM C99.
    - f. Flexural strength: Minimum 5800 psi, tested to ASTM C880.
    - g. Breaking strength: Minimum 480 lbf, tested to ASTM C648.
    - h. Stain resistance: Not affected by 10 percent hydrochloric acid or 10 percent KOH, tested to ASTM C650.
    - i. Thermal shock resistance: Pass 5 cycles, tested to ASTM C484.
    - j. Abrasive index: 65-Ha = 25, tested to ASTM C241.
    - k. Thermal expansion:  $1.670 \times 10^{-5}$  in/in/deg F, tested to ASTM C531.
    - l. Deicing resistance: Rating of 0, tested to ASTM C672/C672M.
    - m. Freeze/thaw resistance: 0 tiles at 15 cycles, tested to ASTM C1026.
    - n. Flame spread rating: Class 1, tested to ASTM E84.

#### 2.3 ACCESSORIES

- A. Adhesive: Type recommended by quartz 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 \*\*\*\*

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

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

- D. Latex-Portland Cement Mortar: ANSI A118.4.
- E. Joint Sealer:
  - 1. Latisil Tile and Stone Sealant by Laticrete International, Inc.
  - 2. Color: [\_\_\_\_\_] [To be selected from manufacturer's full color range.]

## 2.4 FABRICATION

- A. Cut quartz 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 fabrications; remove loose and foreign matter than could interfere with adhesion.

### 3.2 INSTALLATION

- A. Install fabrications in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Adhere fabrications with continuous beads of adhesive.

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

- C. Set in thin set mortar bed in accordance with ANSI A 108.5.
- D. Set plumb and level. Align adjacent pieces in same plane.
- E. Install with hairline joints.
- F. Fill joints between fabrications and adjacent construction with joint sealer; finish smooth and flush.

### 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 fabrications in accordance with manufacturer's instructions.

### 3.5 PROTECTION

- A. Protect installed fabrications with nonstaining sheet coverings.

END OF SECTION