

# CSI GUIDE

SECTION 06 61 19 QUARTZ SURFACING FABRICATIONS

SECTION 12 36 61.19 QUARTZ SURFACING COUNTERTOPS



## Part 1 - General

### I.1 SECTION INCLUDES

- A. Section includes quartz surfacing for (includes, but not limited to):
  1. CATALINA Quartz Countertops.
  2. Setting materials and accessories.

### I.2 RELATED SECTIONS

Related Sections include the following:

- A. Administrative, procedural and temporary work requirements.
- B. Section [ ] - Concrete substrate.
- C. Section [ ] - Wood substrate.
- D. Section [ ] - Base cabinets.

### I.3 REFERENCES

- A. ASTM International:
  1. C-97 Absorption and Bulk Specific Gravity of Dimension Stone.
  2. C-99 Modulus of Rupture of Dimension Stone.
  3. C-170 Compressive Strength of Dimension Stone.
  4. C-370 Moisture Expansion.
  5. C-501 Relative Resistance to Wear of Unglazed Tile to Taber Abrader.
  6. C-482 Bond Strength of Ceramic Tile to Portland Cement.
  7. C-484 Thermal Shock Resistance of Glazed Ceramic Tile.
  8. C-531 Linear Shrinkage and Coefficient of Thermal Expansion of Chemical - Resistant Mortars, Grouts, Monolithic Surfacing and Polymer Concrete.
  9. C-648 Breaking Strength of Ceramic Tile.
  10. C-1026 Resistance of Ceramic Tile to Freeze Thaw Cycling.
  11. E-84 Surface Burning Characteristics of Building Materials.
  12. E-662 Smoke Density.
- B. American National Standards Institute (ANSI)
  1. ANSI Z124.6 Stain Resistance.
  2. A137.1 Dynamic Coefficient of Friction.

### I.4 SUBMITTALS

- A. Product Data:
- B. CATALINA QUARTZ Product Specification Sheet.
  1. CATALINA QUARTZ Care and Maintenance Information.
  2. Submit CATALINA Warranty.

- B. Samples:
1. Submit two [ ] x [ ] inch CATALINA samples [showing available Designs].
- C. Adhesive:
1. Submit two [ ] samples of adhesive joint for each Catalina Design selected.
- D. Shop Drawings:
1. Drawings to include countertop layout, dimensions, required locations of support and blocking member, edge profiles, cutouts and attachments.
- E. Fabricator Qualifications:
1. Work of this section shall be performed by a fabricator/installer approved by CATALINA Quartz

## 15 QUALITY ASSURANCE

- A. Mockup:
1. Construct mockup (if requested by Architect) [ ] feet wide, full depth with backsplash, skirt, and plumbing fixtures and trim.
  2. Approved mockup shall remain as part of the work.
- B. Delivery, Storage and Handling:
1. Packaging, Shipping, Handling and Unloading; Observe CATALINA's recommendations and handle in a manner to prevent breakage. Brace parts if necessary. Transport in the near vertical position with finished face toward finished face. Do not allow finished surfaces to rub during shipping and handling.
- C. Storage and Protection:
1. Store in racks in near vertical position. Prevent warpage and breakage. Store inside away from direct exposure to sunlight.

## 16 WARRANTY

1. Catalina Warranty

# Part 2 - Products

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## 21 MANUFACTURERS

- A. Acceptable Manufacturer:
1. Catalina Quartz  
(no substitutions).

## 22 MATERIALS

- A. Material:
1. Catalina (no substitution).
- B. Thickness:
1. 2 cm.
  2. 3 cm.
- C. Identification:
1. Material shall be labeled with CATALINA identification/logo.
- D. Design: [ ] to be selected from CATALINA Design range.

- E. Finish: [\_\_\_\_\_] to be selected from CATALINA surface options.
1. Polish or Catalina's Quartz Matte™ Finish.
- F. Exposed Edges and Corners:
1. Countertops profile [\_\_\_\_\_].
  2. Backsplash profile [\_\_\_\_\_].
  3. Other Surface applications profile [\_\_\_\_\_].
- G. Performance:
1. Moisture Absorption: typical results negligible; ASTM C97
  2. Modulus of Rupture: typical results 6,800 psi; ASTM C99
  3. Compressive Strength: typical results 24,750 psi; ASTM C170
  4. Abrasion Resistance: typical results 223; ASTM C501
  5. Bond Strength: typical results 205; ASTM C482
  6. Thermal Shock: Passes 5 cycles: ASTM484
  7. Coefficient of Thermal Expansion: typical results  $1.2 \times 10^{-5}$  inch/°F; ASTM C531
  8. Breaking Strength of Tile: typical results 3,661 lbf; ASTM C648
  9. Resistance to Freeze Thaw Cycling: Unaffected 15 cycles; ASTM C1026
  10. Dynamic Coefficient of Friction: 0.72 dry / 0.34 wet; ANSI A137.1
  11. Surface Burning Characteristics: typical results 17 (Class A/1 Rating); ASTM E84
  12. Smoke Density: Flaming 196, Non-flaming 69; ASTM E662
  13. Stain Resistance: Unaffected; ANSI Z124.6

## 23 ACCESSORIES

- A. Mounting Adhesive:
1. Provide structural grade 50-year 100% silicone or epoxy adhesive.
  2. Acceptable silicone manufactures:
    - i. [\_\_\_\_\_].
  3. Acceptable epoxy manufacturers:
    - i. EXPOXY Adhesive.
    - ii. [\_\_\_\_\_].
- B. Quartz Surface Adhesive:
1. Provide epoxy or polyester adhesive of a type recommended by manufacturer for application and conditions of use.
  2. Acceptable manufacturers:
    - i. Epoxy Adhesive.
    - ii. [\_\_\_\_\_].
  3. Adhesive which will be visible in finished work shall be tinted to match quartz surface.
- C. [Fasteners] [Grout] [Hardware]: [\_\_\_\_\_].



D. Joint Sealant:

1. Clear sealant of type recommended by manufacturer for application and use.
2. Provide anti-bacterial type in toilet, bath, food preparation, and [\_\_\_\_\_].
3. Acceptable manufacturers:
  - i. Dow Corning.
  - ii. GE Sealants.
  - iii. [\_\_\_\_\_].

DI. Solvent: Denatured alcohol for cleaning CATALINA surfacing to assure adhesion of adhesives and sealants.

DII. Cleaning Agents: Mild soap and water.

## 24 FABRICATION

A. Layout:

1. Layout surface to minimize joints and avoid L-shaped pieces of quartz surfacing. Layout and fabricate with 'hairline' joints.
2. Work with a certified CATALINA QUARTZ fabricator who utilizes digital images for seam coordination and product flow (i.e. Slabsmith™).

B. Inspection of Materials:

1. Inspect materials for defects prior to fabrication.

C. Tools: Cut and polish with water cooled powered tools.

D. Cutouts:

1. Cutouts shall have a minimum of ¼" inch (6.35mm) radius.
2. Where edges of cutouts will be exposed in finished work; polish edges.

E. Laminations: Laminate layers of CATALINA surfacing as required to create built up edges following procedures recommended by the manufacturer.

# PART 3 - EXECUTION

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## 31 INSTALLER

A. Installation shall be by an approved Installer, certified in writing by CATALINA QUARTZ

## 32 PRE-INSTALLATION EXAMINATION.

 Contact Cambria Commercial Representative: [\_\_\_\_\_].

A. Site Verification:

1. Verify dimensions by field measurements prior to installation.
2. Verify that substrates supporting CATALINA surfaces are plumb, level and flat to within 1/8 inch in 10 feet and that all necessary supports and blocking are in place.
3. Base Cabinets shall be secured to adjoining units and back wall.

B. Inspection of CATALINA Surfaces:

1. Inspect materials for imperfections prior to installation.

## 33 PREPARATION

A. Prepare Surface:

1. Clean surfaces prior to installation.

B. Protection of CATALINA Surfaces:

1. Protect finished surfaces from scratches. Apply masking where necessary.
2. Take necessary precautions to prevent dirt, grit, dust and debris from other trades from contacting the surface by covering the top and exposed edge profiles after installation is completed.

### 34 INSTALLATION

A. Install materials in accordance with CATALINA's instructions and approved shop drawings.

B. Preliminary Installation:

1. Position materials to verify the correct size.
2. If size adjustments, or additional fabrication is necessary, use water cooled tools. Protect jobsite and surface from dust and water. Perform work away from installation site if possible.
3. Allow gaps for expansion of not less than 1/8 inch (1.5mm) per 10 feet when installed between walls or other fixed structure.

C. Permanent Installation:

1. After verification of fit and finish, clean substrate; remove loose and foreign matter which may interfere with adhesion. Clean quartz surface backside & joints with denatured alcohol.
2. Horizontal surface: Apply continuous bead of 100% silicone at the intersection point of the CATALINA countertop and the substrate or cabinet. This bead will be continuous throughout the entire perimeter.
3. Vertical surface: Apply continuous bead of mounting adhesive around perimeter. In addition, apply ¼ inch mounting adhesive bead every 8 inches on vertical center.
4. Install quartz surfacing plumb, level, square and all on the same plane.
5. Align adjacent pieces in same plane.

D. Joints:

1. Joints Between Adjacent Pieces of CATALINA Surfaces:
  - i. Joints shall be flush, tight fitting, level and neat.
  - ii. Securely join adjacent pieces with CATALINA Adhesive.
  - iii. Fill joints level to polished surface.
  - iv. Secure adjacent quartz surfaces with vacuum clamps until adhesive hardens.
2. Joints between CATALINA Surface and [back splash] [wall] [tub] [shower] [other];
  - i. Seal joints with 50-year 100% silicone sealant.

### 35 REPAIR

A. Perform finish work or replace damaged material in a satisfactory manner.

### 36 CLEANING

A. Remove masking, excessive adhesive and sealants. Clean exposed surfaces with denatured alcohol.

### 37 PROTECTION

A. Protect installed fabrications with non-staining sheet coverings.

### 38 SCHEDULES

A. [site and job specific].

**End of section**