

SECTION 123661 - SIMULATED STONE COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Solid-surface-material countertops and backsplashes.
 - 2. Quartz agglomerate countertops and backsplashes.
- B. Related Requirements:
 - 1. Section 123640 "Stone Countertops."

1.2 COORDINATION

- A. Coordinate locations of utilities that will penetrate countertops or backsplashes.

1.3 ACTION SUBMITTALS

- A. Product Data: For countertop materials.
- B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.
- C. Samples for Initial Selection: For each type of material exposed to view.
- D. Samples for Verification: For the following products:
 - 1. Countertop material, 6 inches square.
 - 2. One full-size solid-surface-material countertop, with front edge, 8 by 10 inches, of construction and in configuration specified.
 - 3. One full-size quartz agglomerate countertop, with front edge, 8 by 10 inches, of construction and in configuration specified.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Include recommended cleaning materials and procedures, and list of materials detrimental to surfaces.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Fabricator of simulated stone countertops.
- B. Manufacturer Qualifications: A qualified manufacturer that is certified for chain of custody by an FSC-accredited certification body.
- C. Vendor Qualifications: A vendor that is certified for chain of custody by an FSC-accredited certification body.

1.6 FIELD CONDITIONS

- A. Field Measurements: Verify dimensions of countertops by field measurements after base cabinets are installed but before countertop fabrication is complete.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace simulated stone countertops that fail in materials or workmanship within specified warranty period.
 - 1. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective simulated stone countertops.
 - 2. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOLID-SURFACE-MATERIAL COUNTERTOPS (SO##)

- A. Configuration: Provide countertops with the following front and backsplash style:
 - 1. Front: Straight, slightly eased at top.
 - 2. Backsplash: Straight, slightly eased at corner.
- B. Countertops: 1/2-inch- thick, solid surface material with front edge built up with same material.
- C. Backsplashes: 1/2-inch- thick, solid surface material.

- D. Fabrication: Fabricate tops in one piece with shop-applied edges and backsplashes unless otherwise indicated. Comply with solid-surface-material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.

1. Fabricate with loose backsplashes for field assembly.
2. Install integral sink bowls in countertops in the shop.

2.2 QUARTZ AGGLOMERATE COUNTERTOPS (SC##)

- A. Configuration: Provide countertops with the following front and backsplash style:
1. Front: Straight, slightly eased at top.
 2. Backsplash: Straight, slightly eased at corner.
- B. Countertops: 1-1/4-inch- thick, quartz agglomerate with front edge built up with same material.
- C. Backsplashes: 1-1/4-inch- thick, quartz agglomerate.
- D. Fabrication: Fabricate tops in one piece with shop-applied edges and backsplashes unless otherwise indicated. Comply with quartz agglomerate manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
1. Backsplashes: Fabricate with loose backsplashes for field assembly.
- E. Fabricate countertops without joints.
- F. Fabricate countertops in sections if one piece is not possible for joining in field, with joints at locations indicated and as follows:
1. Bonded Joints: 1/32 inch or less in width.

2.3 COUNTERTOP MATERIALS

- A. Particleboard: ANSI A208.1, Grade M-2.
- B. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.
- C. Adhesives: Do not use adhesives that contain urea formaldehyde.
- D. Adhesives: Use adhesives that meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

- E. Solid Surface Material: Homogeneous solid sheets of filled plastic resin complying with ANSI SS1.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Avonite Surfaces.
 - b. E. I. du Pont de Nemours and Company.
 - c. Formica Corporation.
 - d. Wilsonart International.
 2. Type: Provide Standard Type or Veneer Type made from material complying with requirements for Standard Type, as indicated unless Special Purpose Type is indicated.
 3. Integral Sink Bowls: Comply with ISSFA-2 and ANSI Z124.3, Type 5 or Type 6, without a precoated finish.
 4. Colors and Patterns: As indicated by manufacturer's designations in Finish Schedule on Drawings.
- F. Quartz Agglomerate: Solid sheets consisting of quartz aggregates bound together with a matrix of filled plastic resin and complying with the "Physical Characteristics of Materials" Article of ANSI SS1.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following :
 - a. Caesarstone.
 - b. Cambria.
 - c. Cosentino USA.
 - d. E. I. du Pont de Nemours and Company.
 - e. LG Chemical, Ltd.
 - f. Samsung Chemical USA, Inc.
 - g. Technistone USA, Inc.
 - h. Transolid, Inc.
 2. Colors and Patterns: As indicated by manufacturer's designations in Finish Schedule on Drawings.

PART 3 - EXECUTION

3.1 PREPARATION

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

3.2 INSTALLATION

- A. Install countertops in accordance with manufacturer's written instructions and approved Shop Drawings.
- B. Install countertops level to a tolerance of 1/8 inch in 8 feet , and with a maximum variation in plane between adjacent pieces at joint of plus or minus 1/16 inch.
- C. For solid-surface-material countertops, fasten countertops by screwing through corner blocks of base units into underside of countertop. Pre-drill holes for screws as recommended by manufacturer. Align adjacent surfaces and, using adhesive in color to match countertop, form seams to comply with manufacturer's written instructions. Carefully dress joints smooth, remove surface scratches, and clean entire surface.
 - 1. Install backsplashes to comply with manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
 - 2. Seal edges of cutouts in particleboard subtops by saturating with varnish.
- D. For quartz agglomerate countertops, fasten by applying continuous bead of adhesive along all base cabinet surfaces, or if underlayment is used, apply continuous bead of adhesive along perimeter and around openings. Align adjacent surfaces and, using adhesive in color to match countertop, form seams to comply with manufacturer's recommended written instructions. Carefully dress joints smooth; remove excess adhesive and sealant, and clean entire surface.
 - 1. Bond joints with stone adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive smears.
 - a. Fill joints with stone adhesive level with quartz surfacing.
 - b. Clamp or brace quartz-agglomerate surfacing in position until adhesive sets.
 - 2. Install backsplashes to comply with manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.

3.3 CLEANING

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

3.4 PROTECTION

- A. Protect installed countertops with non-staining covering.

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Radiology**
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END OF SECTION