

SECTION 12 36 61 - SIMULATED STONE COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid-surface-material countertops and backsplashes.

B. Related Sections:

1. Section 061053 "Miscellaneous Rough Carpentry" for wood support of Simulated Stone Countertops.
2. Section 064116 Plastic-Laminate-Faced Architectural Cabinets
3. Section 123623 "Plastic Laminate-Clad Countertops."
4. Division 22 for Plumbing Fixtures, nonintegral sinks and plumbing fittings.

1.2 ACTION SUBMITTALS

A. Coordination: Submit related shop drawings, specified in another Section simultaneously for approval.

1. Cabinet shops, showing all dimensions and indicating how countertops are to be mounted to cabinets.

B. Product Data: For countertop materials and sinks.

C. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.

D. Samples for Verification: For the following products:

1. Countertop material, 6 inches (150 mm) square.

1.3 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance. Shop is a certified participant in AWI's Quality Certification Program.

B. Installer Qualifications: Fabricator of products.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver countertops until painting and similar operations that could damage countertops have been completed in installation areas. If countertops must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.5 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install countertops until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F (16 and 32 deg C) and relative humidity between 25 and 55 percent during the remainder of the construction period.
- B. Field Measurements: Where countertops are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Established Dimensions: Where countertops are indicated to fit to other construction, establish dimensions for areas where wood countertops are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.6 COORDINATION

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

PART 2 - PRODUCTS

2.1 SIMULATED STONE COUNTERTOPS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades indicated for construction, finishes, installation, and other requirements.
- B. Provide labels and certificates from AWI certification program indicating that countertops, including installation, complies with requirements of grades specified.
 - 1. The Contract Documents contain selections chosen from options in the quality standard and additional requirements beyond those of the quality standard. Comply with those selections and requirements in addition to the quality standard.
- C. Grade: Premium.

2.2 SOLID-SURFACE-MATERIAL COUNTERTOPS

- A. SS-1, 2, 3, and 4: Solid Surface Material: Homogeneous solid sheets of filled plastic resin complying with ANSI SS1.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide DuPont , Corian, or comparable product by one of the following:
 - a. Avonite Surfaces.
 - b. Formica Corporation.
 - c. LG Chemical, Ltd.
 - d. Meganite Inc.
 - e. Samsung Chemical USA, Inc.
 - f. Swan Corporation (The).

- g. Transolid, Inc.
 - h. 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, DuPont Corian Type 810 and Type 820, as indicated on Drawings
 - 4. Colors and Patterns: As selected by Architect from manufacturer's full range.
- B. Configuration: Provide countertops with the following front and backsplash style:
- 1. As indicated on Drawings
- C. Countertops: 3/4-inch- thick, solid surface material with front apron of same material as indicated.
- D. Backsplashes: 1/4-inch- thick, solid surface material.
- E. Fabrication: Fabricate tops in one piece with shop-applied edges and sinks 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.
- 2.3 SOLID-SURFACE-MATERIAL CUSTOM APPLICATION
- A. SS-5: Solid Surface Material: Homogeneous solid sheets of filled plastic resin complying with ANSI SS1.
- 1. Basis-of-Design Product: Subject to compliance with requirements, provide DuPont , Zodiaq.
 - 2. Colors and Patterns: As selected by Architect from manufacturer's full range.
- B. Configuration: Provide custom millwork and wall covering as indicated on Drawings.
- 2.4 SOLID-SURFACE-MATERIAL CUSTOM APPLICATION
- A. SS-6: Solid Surface Material: Homogeneous solid sheets of filled plastic resin complying with ANSI SS1.
- 1. Basis-of-Design Product: Subject to compliance with requirements, provide 3Form, Chroma.
 - 2. Colors and Patterns: As selected by Architect from manufacturer's full range.
- B. Configuration: Provide custom millwork and wall covering as indicated on Drawings.
- 2.5 COUNTERTOP UNDERLAYMENT MATERIALS
- A. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

- B. Adhesives:
 - 1. Adhesives shall not contain urea formaldehyde.
- C. VOC Limits for Installation Adhesives and Sealants: Use products that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - 1. Wood Glues: 30 g/L.
 - 2. Multipurpose Construction Adhesives: 70 g/L.
 - 3. Structural Wood Member Adhesive: 140 g/L.
 - 4. Architectural Sealants: 250 g/L.

2.6 ACCESSORIES

- A. Grommets for Cable Passage through Countertops: 3-1/2-inch OD, brushed aluminum grommets and matching caps with oval brush wire passage.
 - 1. Product: Subject to compliance with requirements, provide "ABG3-94" by Doug Mockett & Company, Inc.

2.7 FABRICATION

- A. Fabricate countertops to dimensions, profiles, and details indicated. Provide front and end overhang of 1 inch (25 mm) over base cabinets.
- B. Complete fabrication, including assembly, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
 - 1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
 - 2. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements before disassembling for shipment.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition countertops to average prevailing humidity conditions in installation areas.
- B. Before installing countertops, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

3.2 INSTALLATION

- A. Install countertops level to a tolerance of 1/8 inch in 8 feet (3 mm in 2.4 m).
- B. 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 and endsplashes to comply with manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.

C. Integral Sinks/Vanities:

1. Provide solid surface materials bowls and/or lavatories sinks with overflows in locations shown on the drawings.

2. Secure sinks and lavatory bowls to tops using manufacturer's recommended sealant, adhesive and mounting hardware to maintain warranty.

3.3 ADJUSTING AND CLEANING

A. Repair damaged and defective countertops, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.

B. Clean countertops on exposed and semiexposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION