

SECTION 12 3623 – COUNTERTOPS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Work results specified in this Section includes:
 - 1. Solid surface material countertops.
 - 2. Solid surface material end and backsplashes.
 - 3. Quartz Aggregate Based Engineered Stone countertops
 - 4. Quartz Aggregate Based Engineered Stone ends and backsplashes.
- B. Related Requirements:
 - 1. Section 06 4116 “Plastic-Laminate Clad Architectural Cabinets” for cabinets with these types of countertops.
 - 2. Section 12 3216 “Manufactured Plastic-Laminated Casework” for cabinets with these types of countertops.
 - 3. Division 22 Plumbing for Fixtures for non-integral sinks and plumbing fittings.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of countertop materials.
- B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.
 - 1. Show locations and details of joints.
 - 2. Show direction of directional pattern, if any.
- C. Samples for Initial Selection: For each type of material exposed to view.
- D. Samples for Verification: For the following products:
 - 1. One full-size solid surface material countertop, with front edge and backsplash], 8 by 10 inches (200 by 250 mm), of construction and in configuration specified.

1.04 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator and installer.

COUNTERTOPS 12 3623 - 1

1.05 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For countertops to include in maintenance manuals. Include Product Data for care products used or recommended by Installer and names, addresses, and telephone numbers of local sources for products.

1.06 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate countertops similar to that required for this Project, and whose products have a record of successful in-service performance.
- B. Installer Qualifications: Fabricator of countertops.

1.07 FIELD CONDITIONS

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

1.08 COORDINATION

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

PART 2 - PRODUCTS

2.01 COUNTERTOP MATERIALS

- A. Basis-of-Design: Homogeneous-filled plastic resin complying with ICPA SS-1
 - 1. Corian by Dupont. Refer to Finish Schedule for details.
 - 2. Comparable products:
 - a. Samsung Chemical USA.
 - b. Wilsonart Contract.
 - c. Product accepted by the Architect.
- B. Basis-of-Design: Quartz Based Engineered Material
 - 1. Vicostone. Refer to Finish Schedule for details.
 - 2. Comparable products:
 - a. Samsung Chemical USA: Radianz Quartz.
 - b. Product accepted by the Architect.
- C. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.
- D. Plywood at Countertops with Sinks: Marine grade plywood.
- E. Adhesives: As recommended in writing by countertop material manufacturer for usage at locations indicated.
- F. Sealant: As Section 07 9000 "Joint Sealants".

COUNTERTOPS 12 3623 - 2

2.02 COUNTERTOP FABRICATION

- A. Fabricate countertops according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WI's "Architectural Woodwork Standards"; Section 11 – Countertops.
 - 1. Grade: Custom.
- B. Configuration:
 - 1. Front: As indicated
 - 2. Backsplash: Straight, slightly eased at corner.
 - 3. End Splash: Matching backsplash.
- C. Fabricate tops with shop-applied edges unless otherwise indicated. Comply with solid surface material manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.
- D. Joints: Fabricate countertops without joints to the greatest extent possible.
- E. Joints: Fabricate countertops in sections for joining in field, with joints at locations indicated.
- F. Cutouts and Holes:
 - 1. Counter-Mounted Plumbing Fixtures: Prepare countertops in shop for field cutting openings for counter-mounted fixtures. Mark tops for cutouts and drill holes at corners of cutout locations. Make corner holes of largest radius practical.
 - 2. Fittings: Drill countertops in shop for plumbing fittings, wiring grommets, and similar items.

2.03 INSTALLATION MATERIALS

- A. Adhesive: Product recommended by solid surface material manufacturer.
- B. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates to receive solid surface material countertops and conditions under which countertops will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of countertops.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install countertops level to a tolerance of 1/16 inch in 8 feet, 1/8 inch maximum. Do not exceed 1/64-inch difference between planes of adjacent units.
- B. Fasten subtops to cabinets by screwing through subtops into cornerblocks of base cabinets. Shim as needed to align subtops in a level plane.

COUNTERTOPS 12 3623 - 3

- C. Secure countertops to subtops with adhesive according to solid surface material manufacturer's written instructions. 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.
- D. Bond joints with adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive smears.
- E. Install backsplashes and end splashes by adhering to wall and countertops with adhesive. Mask areas of countertops and splashes adjacent to joints to prevent adhesive smears.
- F. Install aprons to backing and countertops with adhesive. Mask areas of countertops and splashes adjacent to joints to prevent adhesive smears. Fasten by screwing through backing. Pre-drill holes for screws as recommended by manufacturer.
- G. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.
 - 1. Seal edges of cutouts in subtops by saturating with varnish.
- H. Apply sealant to gaps at walls; comply with Section 07 9200 "Joint Sealants."

END OF SECTION

COUNTERTOPS
12 3623 - 4