

Part 1 General

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- .1 Section Includes:
 - .1 Solid surface material countertops.
 - .1 Solid surface material backsplashes.
 - .2 Solid surface material end splashes.
 - .3 Solid surface material apron fronts.
 - .4 Solid surface adhesives and sealants.

1.3 ACTION SUBMITTALS

- .1 Product Data: For countertop materials and sinks including manufacturer's technical data sheets and published written instructions.
- .2 Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, terminations, and cutouts.
 - .1 Show locations and details of joints.
 - .2 Show direction of directional pattern, if any.
- .3 Samples for Initial Selection: For each type of material exposed to view.
- .4 Samples for Verification: For the following products:
 - .1 Countertop material, 150 mm square.

1.4 CLOSEOUT SUBMITTALS

- .1 Maintenance Data: For solid surface material 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.

1.5 QUALITY ASSURANCE

- .1 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.
- .2 Installer Qualifications: Manufacturer certified fabricator of countertops.
- .3 Mockups: Build mockups to demonstrate aesthetic effects and to set quality standards for fabrication and installation.

- .1 Build mockup of typical countertop as indicated by Architect.
- .2 Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 FIELD CONDITIONS

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

1.7 COORDINATION

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

1.8 WARRANTY

- .1 Manufacturer's Warranty: Manufacturer and installer agree to repair or replace sheet material not free from defects in materials, fabrication, or workmanship within specified warranty period.
 - .1 Warranty Period: 10 years from date of Substantial Completion.

Part 2 Products

2.1 SOLID SURFACE COUNTERTOP AND WALL MATERIALS

- .1 Composition Solid-Surface Material: Homogeneous-filled plastic resin complying with ICPA SS-1.
 - .1 Basis-of-Design Product: Subject to compliance with requirements, provide Wilsonart LLC; 051 or a comparable product by one of the following:
 - .1 Dupont Corporation.
 - .2 Formica Corporation.
 - .2 Thickness: 12.4 mm.
 - .3 Panel Weight: 21.5 kg/sq. m.
 - .4 Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - .5 Flame-Spread Index: 25 or less.
 - .6 Smoke-Developed Index: 50 or less.
 - .7 Colors and Patterns: As selected by Architect from manufacturer's full range.

2.2 COUNTERTOP FABRICATION

- .1 Fabricate countertops according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WT's "Architectural Woodwork Standards."
 - .1 Grade: Custom.
- .2 Configuration:

- .1 Front: Straight, slightly eased at top.
- .2 Backsplash: Straight, slightly eased at corner.
- .3 End Splash: Matching backsplash.
- .3 Countertops: 12.7-mm thick, solid surface material with front edge built up with same material.
- .4 Backsplashes: 19-mm thick, solid surface material.
- .5 Fabricate tops 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.
- .6 Joints: Fabricate countertops without joints.
- .7 Cutouts and Holes:
 - .1 Undercounter Plumbing Fixtures: Make cutouts for fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.
 - .1 Provide vertical edges, slightly eased at juncture of cutout edges with top and bottom surfaces of countertop.
 - .2 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.
 - .1 Fittings: Drill countertops in shop for plumbing fittings, undercounter soap dispensers, and similar items.
 - .2 Counter-Mounted Cooktops: Prepare countertops in shop for field cutting openings for cooktops. Mark tops for cutouts and drill holes at corners of cutout locations. Make corner holes of largest radius practical.

2.3 INSTALLATION MATERIALS

- .1 Adhesive: Product recommended by solid surface material manufacturer.
- .2 Sealant for Countertops: Comply with applicable requirements in Section 07 92 00 Joint Sealants.

Part 3 Execution

3.1 EXAMINATION

- .1 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.
- .2 Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- .1 Install countertops level to a tolerance of 3 mm in 2.4 m, 6 mm maximum. Do not exceed 0.4-mm difference between planes of adjacent units.
- .2 Fasten countertops by adhering with 100-percent silicone material in dab format (not bead format) to base units into underside of countertop at 457 to 610 mm o.c. 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.
- .3 Fasten countertops by adhering with 100-percent silicone material in dab format (not bead format) to base units into underside of countertop at 457 to 610 mm o.c. Shim as needed to align subtops in a level plane.
- .4 Secure countertops to subtops or wood-web frame 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.
- .5 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.
- .6 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.
- .7 Apply sealant to gaps at walls; comply with Section 07 92 00 Joint Sealants.

END OF SECTION