

## **SECTION 123661.16 - SOLID SURFACING COUNTERTOPS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

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

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Solid surface material countertops.
  - 2. Solid surface adhesives and sealants.
  - 3. Solid surface millwork
- B. Related Requirements:
  - 1. Section 06 20 00 Rough Carpentry
  - 2. Section 06 40 00 Architectural Woodwork

#### **1.3 SUBMITTALS**

- A. Submit Product Data: For countertop including manufacturer's technical data sheets, and published written instructions.
- B. Submit Material Data and Safety Sheets (MSDS) for all adhesives and sealants.
- C. Shop Drawings: Submit fully dimensioned shop drawings showing countertop layouts, joinery, terminating conditions, substrate construction, cutouts and holes. Show plumbing installation provisions. Include elevations, section details, and large-scale details. Show directional pattern, if any.
- D. Samples for Verification: For the following products:
  - 1. Countertop material as specified, 4 inches (102 mm) square.
  - 2. Joint Sealant Color

#### **1.4 CLOSEOUT SUBMITTALS**

- A. 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**

- A. Fabricator Qualifications: Minimum 3 to 5 years documented experience in fabricating solid surface countertops similar in scope and complexity to this project, and currently certified by the manufacturer as an acceptable fabricator.
- B. Installer Qualifications: Minimum 3 to 5 years documented installation experience for projects similar in scope and complexity to this project, and currently certified by the Manufacturer as an acceptable installer.

#### **1.6 PROJECT CONDITIONS**

- A. Field Measurements: Verify actual dimensions and openings in countertops by field measurements before countertop fabrication is complete. Show all recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
- B. Adhesive: Acclimatize adhesives to occupancy room temperatures with a maximum temperature not to exceed 75 deg F.

#### **1.7 DELIVERY, STORAGE AND HANDLING**

- A. Storage and Protection: Store Materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer. Store sheet materials flat on pallets or similar rack type storage.

#### **1.8 WARRANTY**

- A. Manufacturer's Limited Warranty: Provide manufacturer's Standard 10 year commercial Limited Warranty against defects in solid surface materials.

### **PART 2 - PRODUCTS**

#### **2.1 SOLID SURFACE COUNTERTOP MATERIALS**

- A. Composition Solid-Surface Material: Acrylic resins, fire retardant mineral fillers, and proprietary coloring agents. Through the body color for full thickness of sheet material.
  - 1. Acceptable Product: "Wilsonart Solid Surface"

Public Works Accessibility and Security Upgrades

2. Thickness: Type 050 ½ inch nominal
3. Panel Weight: 4.4 lb/sq. ft
4. Surface-Burning Characteristics: Class 1 and Class A; ASTM E 84
5. Colors and Patterns: White Stone 9208CS- Matte Finish

- B. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

## 2.2 COUNTERTOP FABRICATION

- A. Fabricate countertops according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WI's "Architectural Woodwork Standards."

- B. Countertops: 1/2-inch (12.7-mm) thick, solid surface material with front edge built up with same material. Refer to drawing details.

1. Joint Locations: Not within 3 inches (76 mm) of a cutout or cooktop, 1 inch (25 mm) from inside corner for conventional seams, and not where countertop sections less than 36 inches (900 mm) long would result, unless unavoidable.

- C. Cutouts and Holes:

1. Drill countertops (where possible) on site for plumbing fittings, Grommet Holes and similar items.

## 2.3 INSTALLATION MATERIALS

- A. Joint Adhesive: Product recommended by solid surface material manufacturer. Color to be match solid surface selected color and to be approved by the Designer.

- B. Sealant for Countertops: Where countertops meet walls, use Siliconized Acrylic latex Sealant. Product: Wilsonart Color Matched Caulk.

- C. Construction Adhesive: Countertop manufacturer's recommended silicone- based construction adhesive for backsplashes, end splashes and other applications according to manufacturer's instructions.

## 2.4 FABRICATION

- A. Fabricate components in shop to greatest extent practicable, in sizes and shapes indicated according to approved shop drawings and Wilsonart published fabrication requirements.

- B. Form joint seams between solid surfacing components with specified seam adhesive. Completed joints to be inconspicuous in appearance and without voids. Provide joint reinforced if required by manufacturer for particular installations.

- C. Provide holes and cutouts indicated on approved shop drawings. Rout cutouts and complete by sanding all edges smooth.

## **PART 3 - EXECUTION**

### **3.1 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. Substrates must be sound, flat, smooth and free from dust or other surface contaminants.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. Install countertops plumb, level and true according to approved shop drawings and manufacturer's instructions.
- B. Fasten countertops by adhering with 100-percent silicone material in dab format (not bead format) to base units into underside of countertop. 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.
- C. Fill gaps between countertop and terminating substrates with specified silicone sealant.
- D. Form joint seams with specified seam adhesive, Seams to be inconspicuous in completed work. Seams in locations shown on approved shop drawings and acceptable to manufacturer. Promptly remove excess adhesive.
- E. Bond joints with adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive smears.
  - 1. Clamp units to temporary bracing, supports, or each other to ensure that countertops are properly aligned and joints are of specified width.
- F. 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.
- 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.

**3.3 CLEANING AND PROTECTON**

- A. Clean solid surfacing components according to manufacturer's published maintenance instructions. Completely remove excess adhesives and sealants from finished surfaces.
- B. Protect complete work from damage during remainder of construction period.

END OF SECTION 123661.16