

SECTION 066116  
SOLID SURFACING FABRICATIONS

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Solid surfacing materials including
  - 1. Window stools.
  - 2. Countertops with undermount sinks.

**1.2 DEFINITIONS**

- A. Inconspicuous: Barely detectable, not readily visible without careful inspection, with the naked eye, when observed in normal light at a distance of 5'-0".

**1.3 SUBMITTALS FOR REVIEW**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Product Data: Provide data on specified component products and data supporting compliance with specified requirements.
- C. Shop Drawings: Indicate dimensions, thicknesses, required clearances, tolerances, materials, colors, finishes, fabrication details, field jointing, adjacent construction, design load parameters, methods of support, integration of plumbing components and anchorages.
- D. Samples: Submit two samples, 6 x 6 inch in size, illustrating color, texture and finish; and seam together for representation of inconspicuous seam.

**1.4 MAINTENANCE DATA**

- A. Maintenance Data: Indicate list of approved cleaning materials and procedures required and list of substances that are harmful to the component materials.
- B. Include instructions for stain removal and surface and gloss restoration.

### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.
- B. Fabricator and Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years of experience, factory-trained and certified by manufacturer.
- C. Provide single source responsibility for products of this Section.
- D. Solid surface materials shall meet or exceed performance standards set forth in ANSI/ICPA SS-1-2001 or ISSFA-2-01.
- E. Furnish inserts and anchoring devices which must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.
- F. Coordinate accessory locations with other work to avoid interference and to ensure proper operation and servicing of accessory units.

### **1.6 REGULATORY REQUIREMENTS**

- A. Conform to applicable code for flame/smoke rating of 15/25 for a thickness of 1/2 inch according to ASTM E84 requirements.
- B. Conform to ANSI A117.1 code for access for the handicapped.

### **1.7 DELIVERY, STORAGE, AND PROTECTION**

- A. Deliver, store and protect products to site. Deliver no products to project site until areas are ready for installation.
- B. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent physical damage or staining following installation until Substantial Completion.

## **PART 2 PRODUCTS**

### **2.1 MATERIALS**

- A. Material: Reacted monomers and resins, mineral fillers and pigments manufactured in sheets of specific thicknesses; solid, non-porous, homogeneous, hygienic, renewable, and, when applicable, may feature inconspicuous hygienic seams; free from conspicuous internal strengthening fibers. Conform to the following criteria:
  - 1. Color Stability, NEMA LD-3, ANSI Z124, or ISSFA SST 2.1-00: No change - 200 hours

2. Stain Resistance, NEMA LD 3-39, ANSI Z124, or ISSFA SST 3.1-00: Passes
  3. Hardness: Minimum 60 Rockwell M Scale or 50 - 70 Barcol per ASTM D2583.
  4. Impact: Passes ANSI Z-124 1/2 pound ball drop, knife drop and skillet drop tests without chips or cracks, where point of impact is a seam of a fabricated solid surface panel, or ISSFA 6.1-00.
- B. Finish: Manufacturer's standard matte finish in color as selected by Contracting Officer from manufacturer's premium range.

## **2.2 ACCESSORIES**

- A. Joint Adhesive: Manufacturer's standard, low VOC-emitting, two-part adhesive to create inconspicuous, non-porous joints. Meet or exceed VOC limits of South Coast Air Quality Management District Rule #1168.
- B. Sealant: Mildew resistant, color compatible silicone sealant as recommended by manufacturer.
- C. Sealers: Standard product as recommended by manufacturer.
- D. Countertop Support Brackets: Comply with ANSI/BHMA A156.9; L-shaped, steel or aluminum bracket; powder coat finish, color as selected by Contracting Officer; with provisions for wire run clearance; 450 pound capacity each;.

## **2.3 FABRICATION**

- A. Factory-fabricate solid surfacing products to the greatest extent practicable in the following thickness:
1. Window Stools: 3/4 inch thick.
  2. Vanity Tops: 1/2 inch thick.
- B. Form joints between components using manufacturer's standard joint adhesive without conspicuous joints. Joints shall be made square (butt) rather than mitered and supported by framing. Reinforce seams with a 4" wide, 45° beveled piece of compatible solid surfacing material. Do not place seams within 3" of cutouts.
- C. Verify field measurements and check color match before fabricating.
- D. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- E. Fabricate tops with seamed undermount bowls with pre-drilled holes for faucets. Provide size as indicated on Drawings.
- F. Fabricate tops with edge as indicated built up from three 1/2" pieces stacked to create a 1 1/2" thick edge. Double ease surfaces and sand smooth according to manufacturer's instructions.

- G. Fabricate 3/8 inch minimum radius cove at intersection of tops and backsplashes and tops and side splashes utilizing material in same thickness as tops.

## **2.4 TOLERANCES**

- A. Variation in Component Size: Plus or minus 1/8 inch.
- B. Location of Openings: Plus or minus 1/8 inch from indicated location.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that surfaces and supports are suitable for installation and are according to approved shop drawings.
- B. Beginning of installation means acceptance of existing conditions.

### **3.2 INSTALLATION**

- A. Set and secure products of this Section in place rigid, scribed with maximum gaps of 1/32 inch to adjacent finishes according to manufacturer's published installation instructions and approved shop drawings. Set and secure products of this Section in place plumb and level to within 1/8 inch in 8'-0".
- B. Provide product in the largest pieces available. Form field joints using manufacturer's recommended adhesive, with joints inconspicuous in finished work. Semi-exposed countersunk fasteners shall be filled and color matched. Reinforce field joints with solid surface strips extending a minimum of 2 inch on both sides of seams with strips being the same thickness as top.
- C. Countertops on base cabinets shall be securely anchored with uniform front overhang. On unsupported tops over 48" long, provide steel tubing reinforcement at front edge. Provide continuous, solid support on backs and sides of tops.
- D. Provide expansion clearance of 1/8 inch for every 9'-10" in length.
- E. Provide manufacturer's recommended tape or slip sheet to prevent bond between joint and support.
- F. Coved backsplashes and sidesplashes: Provide coved backsplashes and sidesplashes at walls and adjacent casework. Fabricate radius cove at intersection of counters with backsplashes to dimensions shown on

Drawings. Adhere to countertops using manufacturer's standard color-matched joint adhesive.

**3.3 ADJUSTING AND CLEANING**

- A. Clean and polish surfaces according to manufacturer's instructions.

**3.4 PROTECTION**

- A. Protect finished installation.

END OF SECTION

