

# **Array**<sup>®</sup>

## **SOLID SURFACE**

### **COUNTERTOP SPECIFICATIONS**

## **PART 1 - GENERAL**

### **1.1 Summary.**

- A. Section includes horizontal surface applications, as indicated and as specified:
  - 1. Countertops for architectural cabinetwork
  - 2. Wall-hung counters and vanity tops
  - 3. Window Sills
  - 4. Solid surface molded integral sinks and bowls
  
- B. Related Work:
  - 1. Cabinetry, casework, millwork and counter supports
  - 2. Plumbing fixtures, piping and trim

### **1.2 Submittals**

- A. Manufacturer's Product Data:
  - 1. Manufacturer's Color Chart
  - 2. MSDS sheets
  - 3. Product Description to include identifying name and color
- B. Shop Drawings: Indicate locations of each item, with detailed and dimensioned plans and elevations, cutout locations, accessories, reinforcements and supports, and edge treatments.
- C. Samples: Full range of manufacturer's colors and patterns, minimum 2" x 2" samples of final color selections.
- D. Manufacturer's Fabrication and Installation Manual

### **1.3 Quality Assurance**

- A. Fabricator / Installer Qualifications: Work of this section shall be by an accredited firm certified in writing by the solid surface manufacturer and that can demonstrate successful experience in fabricating and installing products similar in type and quality to those required for this project.
  
- B. Applicable Standards
  - 1. Materials must meet industry standards as referenced herein:
    - a. American National Standards Institute (ANSI)
    - b. American Society for Testing and Materials (ASTM)
    - c. National Electrical Manufacturers Association (NEMA)
    - d. National Sanitary Foundation (NSF)
  
- C. Source Limitations
  - 1. Obtain all materials and products from a single manufacturer and source.

### **1.4 Delivery, Storage, Handling**

- A. Transport and handle all materials according to manufacturer's recommended instructions to prevent damage to finished surfaces.
- B. Store all components indoors prior to installation.
- C. Do not deliver any components to job site until areas are prepared for installation.
- D. Provide protective coverings on all installed components to prevent physical damage and staining for the duration of the project.

### **1.5 Job Site Conditions**

- A. Maintain environmental conditions (ambient temperature/humidity/ventilation) within limits as recommended by the manufacturer for a minimum of 48 hours prior to and during installation. Upon installation, maintain environmental conditions planned for building occupants.

### **1.6 Warranty**

- A. Provide manufacturer's 10 year warranty against defects in materials.
  - 1. Damage caused by abuse, improper manufacturing or installation techniques, or neglect will not to be warranted by the manufacturer.

### **1.7 Maintenance**

- A. Upon project completion, provide manufacturer's standard Care and Maintenance Instructions.
- B. If necessary, provide materials for future repair from same batch/dye lot as installed products.

## **PART 2 - PRODUCTS**

### **2.1 Acceptable Manufacturers**

- A. Array Solid Surface Products, as distributed by Maxstone International, LLC  
[www.maxstoneusa.com](http://www.maxstoneusa.com)

### **2.2 Materials**

- A. Solid surface material shall be non-porous, hygienic, renewable, homogeneous material maintaining the same composition throughout the entire thickness of the material, composed of acrylic resins, aluminum trihydrate mineral fillers and pigments.
- B. Thickness: ½" nominal for horizontal applications.
- C. Exposed Edge Details:
  - 1. Specify Edge Thickness: [1/2"], [1"], [1 ½"], [Other, including flush front apron]
  - 2. Specify Edge Profile: [Eased, 1/8" radius], [Bevel], [Bullnose], [Ogee],  
[As indicated on drawings]
- D. Backsplash / sidesplash options: [Set-on, applied in field] , [Coved, integrally molded]
- E. Color and Pattern: [To be selected from manufacturer's full range of colors]  
[Indicate specific finish color(s)]  
[As indicated on drawings]
- F. Finish: Provide surfaces with a uniform finish  
(Greater polishing increases cost, requires more maintenance)
  - 1. [Matte (standard); gloss range 5-20]
  - 2. [Semi-Gloss; gloss range 20 – 50]
  - 3. [High-Gloss; gloss range 50 – 80]
- G. Integral Solid Surface Cast Sinks/Bowls:
  - 1. [Array B06: 15" x 12" x 5" I.D. Oval (Recommended for ADA applications)]
  - 2. [Array B08: 17" x 14" x 6" I.D. Oval (Recommended for Std. 24" D.+ tops)]
  - 3. [Array Single-Bowl Kitchen Sinks:]
  - 4. [Array Double-Bowl Kitchen Sinks:]
  - 5. Sink/Bowl Color: [White], [Bone], [ As indicated on drawings]

### **2.3 Accessory Materials**

- A. Substrate: Recommended material for substrate for solid surface should be minimum ¾" thick plywood, MDF/HDF or tubular steel. It is not recommended to use full substrate under counters, especially near heat-generating products.
- B. Joint Adhesive: Manufacturer's 2-part approved adhesive to create non-porous, inconspicuous seams with a chemical bond.
- C. Sealant: Mildew-resistant silicone sealant, in color-matched or clear formulations.

## **2.4 Fabrication**

- A. Fabrication to be completed by a solid surface manufacturer's certified fabricator/installer.
- B. Fabricate components in manufacturing shop to greatest extent practical to size and shape indicated, in accordance with approved shop drawings and manufacturer's recommended instructions. Fabricate tops up to 144 inches long in one piece.
- C. Form joints between components using manufacturer's standard joint adhesive. Joints shall be inconspicuous in appearance and without voids. Attach reinforcing strips under joints according to manufacturer's guidelines.
- D. Rout and finish all component edges to a smooth, uniform finish. All cutouts to be routed and sanded for a smooth edge.
- E. Repair all defective or inaccurate work.
- F. When applicable, comply with manufacturer's thermoforming requirements:
  - a. Heat entire piece, (do not spot heat) to a uniform 280° - 325 °
  - b. Form pieces to shape prior to seaming and joining
  - c. Sand edges and remove nicks and scratches
  - d. Prevent blistering, whitening, and cracking during the forming process.

## **PART 3 - EXECUTION**

### **3.1 Examination**

- A. Examine substrates where solid surface will be installed, with fabricator present, to identify any conditions detrimental to proper or timely installation. Coordinate with contractor to correct unsatisfactory conditions.
- B. Proceed with installation only after all unsatisfactory conditions have been corrected.

### **3.2 Installation**

- A. Install solid surface according to manufacturer's Fabrication and Installation Manual:
  - 1. Install all components plumb, level, and rigid; scribed to adjacent surfaces; In accordance with approved shop drawings and product data.
  - 2. Provide components in largest pieces available for proper installation.
  - 3. Form field joints using the manufacturer's approved adhesive, with joints inconspicuous in finished work.
  - 4. Adhere undermount sinks/bowls to the countertop using the manufacturer's recommended adhesive.
  - 5. Anchor solid surface tops securely to base cabinets or supports according to manufacturer's recommendations.
  - 6. Provide solid surface material sinks and bowls with overflows in locations shown on shop drawings.
  - 7. Cut and finish component edges with clean, sharp returns.
  - 8. Carefully remove scratches and clean entire surface.
  - 9. Install countertops with no more than 1/8" sag or other variation from a straight line.

### **3.3 Cleaning and Protection**

- A. Clean all surfaces according to manufacturer's Care and Maintenance Instructions.
- B. Remove excess adhesives, caulks, sealants, etc.
- C. Cover and protect all surfaces to prevent damage until substantial completion.
- D. Touch-up, repair or replace any damaged products prior to substantial completion.