

# MEGANITE®

## Acrylic Solid Surface

### SECTION 066116 SOLID SURFACE FABRICATIONS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

#### PART 1 GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Solid surfacing countertops.
  - 2. [Sinks.]
- B. Related Sections:
  - 1. Division 01: Administrative, procedural, and temporary work requirements.

##### 1.2 REFERENCES

- A. ASTM International (ASTM) ([www.astm.org](http://www.astm.org)):
  - 1. D570 - Standard Test Method for Water Absorption of Plastics.
  - 2. D638 - Standard Test Method for Tensile Properties of Plastics.
  - 3. D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer.
  - 4. D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
  - 5. D2583 - Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
  - 6. E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 7. G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
  - 8. G22 - Standard Practice for Determining Resistance of Plastics to Bacteria.
- B. American National Standards Institute (ANSI) ([www.ansi.org](http://www.ansi.org)) Z-124.3 - Plastic Lavatories.
- C. American National Standards Institute / NSF International (ANSI/NSF) ([www.nsf.org](http://www.nsf.org)) 51 - Food Equipment Materials.
- D. American National Standards Institute / National Electrical Manufacturers Association (ANSI/NEMA) ([www.nema.org](http://www.nema.org)) LD 3 - High Pressure Decorative Laminates (HPDL).

##### 1.3 SUBMITTALS

- A. Submittals for Review:

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1. Shop Drawings: Indicate dimensions, component sizes, fabrication details, attachment provisions and coordination requirements with adjacent work.
2. Product Data: Indicate product description, fabrication information and compliance with specified performance requirements.
3. Samples: [2 x 2] [\_\_ x \_\_] inch samples [showing available colors.] [in each specified color.]

B. Sustainable Design Submittals: Refer to Division 01.

C. Closeout Submittals:

1. Maintenance Data: Include recommended cleaning materials and procedures and damage repair.

#### 1.4 QUALITY ASSURANCE

A. Fabricator and Installer Qualifications:

1. Minimum [2] [\_\_] years [documented] experience in work of this Section.
2. Certified by solid surfacing manufacturer.

B. Mockup:

1. Size: [One full size countertop.] [\_\_\_\_.]
2. Show: Countertop, splash, [apron,] and trim.
3. Locate [where directed.] [\_\_\_\_.]
4. Approved mockup may [not] remain as part of the Work.

#### 1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver components in protective coverings with identification labels.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

A. Acceptable Manufacturer: Meganite, Inc., 800-836-1118, 1461 South Balboa Avenue, Ontario, CA 91761, [www.meganite.com](http://www.meganite.com).

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

#### 2.2 MATERIALS

A. Solid Surfacing:

1. Description: Solid homogeneous sheet blended with acrylic resins, ATH mineral fillers, and pigments, color throughout full thickness.
2. Thickness: [1/4] [1/2] inch.
3. Color: [\_\_\_\_.] [To be selected from manufacturer's full color range.] [Scheduled at end of Section.]

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4. Performance characteristics:
  - a. Flame spread/smoke developed index: Class 1A, tested to ASTM E84.
  - b. Stain resistance: No effect, tested to ANSI Z-124.3.
  - c. Wear and cleanability: Pass ANSI Z-124.3.
  - d. Fungus resistance: Does not support microbial growth, tested to ASTM G21.
  - e. Bacteria resistance: Does not support microbial growth, tested to ASTM G22.
  - f. Meet ANSI/NSF 51.
  - g. Impact resistance: Pass 1/2 pound ball drop, tested to ANSI/NEMA LD 3-3.3.
  - h. Color stability: No change, tested to ANSI/NEMA LD 3-3.3.
  - i. Boiling water surface resistance: No effect, tested to ANSI/NEMA LD 3-3.5.
  - j. High temperature resistance: No effect, tested to ANSI/NEMA LD 3-3.5.
  - k. Water absorption: 0.04 percent, tested to ASTM D570.

- B. Sinks:
  1. Filled methyl methacrylate with integral drain and overflow holes.
  2. [ ] inch round.] [ ] x [ ] inch oval.] [ ] x [ ] inch rectangular.] [Size and shape as scheduled at end of Section.]

#### 2.3 ACCESSORIES

- A. Joint Adhesive:
  1. Two component, type as recommended by solid surfacing manufacturer.
  2. Maximum volatile organic compound (VOC) content: [70] [ ] grams per liter.
- B. Countertop Adhesive:
  1. Type: Silicone or flexible neoprene.
  2. Maximum volatile organic compound (VOC) content: [70] [ ] grams per liter.
- C. Joint Sealant: Mildew-resistant, FDA-compliant, 100 percent silicone sealant recommended by solid surfacing manufacturer, color to match solid surfacing.

#### 2.4 FABRICATION

- A. Fabricate in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Fabricate components in shop to greatest extent possible, to sizes and shapes indicated.
- C. Provide components in largest practical pieces.
- D. Form joints between pieces using joint adhesive, to be inconspicuous and without voids. Use reinforcement strips on seams.
- E. Fabricate [splashes] [skirts] [and trim] from solid surfacing in [color to match countertops.] [ ] color.]
- F. Splash Type: [Set-on, adhered.] [Integral, coved.]

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- G. Thermoforming:
  - 1. Comply with manufacturer's thermoforming requirements.
  - 2. Heat entire piece to 280 to 325 degrees F. Do not spot heat.
  - 3. Form pieces to shape prior to seaming and joining.
  - 4. Sand edges smooth.
  - 5. Prevent blistering, whitening, and cracking during forming process.
  
- H. Provide holes and cutouts for mounting of [sinks,] [faucets,] [and] [accessories].
  - 1. Finish edges uniformly, sanded smooth.
  - 2. Maintain 1/4 inch radius on sink cutout corners.
  
- I. Finish exposed edges to smooth, uniform [bullnose] [square] [beveled] [ogee] [inlay] [\_\_\_\_] profile.
  
- J. Ease exposed edges 1/16 inch.
  
- K. Finishing:
  - 1. Finish surfaces to consistent and uniform finish.
  - 2. [Matte finish: Gloss range 5 to 20.] [Semigloss finish. Gloss range 20 to 50.] [Polished finish: Gloss range 50 to 80.]
  
- L. Allowable Tolerances:
  - 1. Maximum variation in size: Plus or minus 1/8 inch.
  - 2. Maximum variation in location of openings: Plus or minus 1/8 inch from indicated location.

### **PART 3 EXECUTION**

#### 3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Set plumb, level, and rigid, scribed to adjacent surfaces.
- C. Adhere countertops, splashes, and skirts with beads of countertop adhesive.
- D. Form field joints using adhesive, with joint inconspicuous in finished work.
- E. Install sinks at locations indicated. Adhere undermount sinks/bowls to countertops using adhesive.

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- F. Anchor securely to base cabinets or supports according to manufacturer's recommendations.
- G. Seal perimeter with joint sealant. Finish smooth and flush.
- H. Allowable Tolerances:
  - 1. Maximum sag, bow, or variation from straight line: 1/8 inch in 10 feet, noncumulative.
  - 2. Maximum variation in plane between adjacent pieces at joint: Plus or minus 1/32 inch.
  - 3. Maximum variation from true dimensions: Plus or minus 1/8 inch.

#### 3.2 ADJUSTING

- A. Buff out minor scratches and abrasions.

#### 3.3 PROTECTION

- A. Protect surfaces from damage with nonstaining coverings.

#### 3.4 SCHEDULE

LOCATION	COLOR	FINISH	SPLASH	SINK
Breakroom 121 countertops	001A Bright White	Matte	Back and side, color to match	10 x 12 inches
Toilet 230 countertops	M007 Mt. Carrara	Semi gloss	None	None

END OF SECTION