



SECTION 06 61 16

SOLID SURFACING FABRICATIONS

For best results, display hidden notes to specifier.

This section is based on the products of EOS Solid Surfaces, which is located at:

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SECTION 06 61 16 – Solid Surfacing Fabrications (EOS Solid Surfaces), Copyright 2008, EOS Solid Surfaces.

This section is prepared with MasterFormat 2004 section references and includes proprietary type specifications. Edit as required to avoid conflicting requirements within the Project Manual.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes cast 2cm and 3cm cast acrylic/polyester sheets of solid surface materials and accessories simulating the thickness of 2cm and 3cm natural and engineered stone both through appearance and fabrication methods.
- B. Related Sections:
 - 1. Section 06 41 00 - Architectural Wood Casework: Cabinets with cast plastic counter top , [integral sink,] [and backsplash].
 - 2. Section 07 90 00 - Joint Protection: Perimeter sealant to adjacent construction.
 - 3. Section 12 35 30 - Residential Casework: Cabinets with cast plastic counter top [, integral sink,] [and backsplash].
 - 4. Section 22 40 00 - Plumbing Fixtures: Plumbing [drains and fixture trim.]

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

- A. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. National Electrical Manufacturers Association:
 - 1. NEMA LD3 – Radiant Heat Resistance.

1.3 SEQUENCING

- A. Section 01 10 00 - Summary: Work sequence.

Use this article primarily for counters integrated into surrounding wall construction.

- B. Sequence Work to permit installation of adjacent affected construction, plumbing rough-in.
- C. Coordinate installation of countertops with partition erection and plumbing work.

1.4 SUBMITTALS

Only request submittals needed to verify compliance with Project requirements.

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Indicate dimensions, thicknesses, required clearances, tolerances, materials, colors, finishes, fabrication details, field jointing, adjacent construction, methods of support, integration of [plumbing] [and] [] components, and anchorages.
- C. Product Data: Submit data on specified component products, electrical characteristics and connection requirements.

Include the following paragraph for submission of physical samples for selection of finish, color, texture, and other properties.

- D. Samples: Submit [two] [] samples representative of [counter top,] [wall panel,] [], [x] inch ([x] mm) in size illustrating color, texture, and finish.
- E. Manufacturer's Installation Instructions: Submit preparation of opening required, rough-in sizes; [furnish templates for cast-in or placed frames or anchors;] tolerances for item placement, temporary bracing of components, and [].

1.5 CLOSEOUT SUBMITTALS

- A. Section 01 70 00 - Execution and Closeout Requirements: Closeout procedures.
- B. Operation and Maintenance Data: Submit list of approved cleaning materials and procedures required; list of substances harmful to component materials. Include instructions for stain removal, surface and gloss restoration, and [].

1.6 MAINTENANCE

- A. Section 01 70 00 - Execution and Closeout Requirements: Spare parts and maintenance products.
- B. Furnish [two] [] polishing pads recommended by manufacturer.

1.7 QUALITY ASSURANCE

IBC requires surface burning to be tested in accordance with ASTM E84 for individual materials.

- A. Flammability Rating: ASTM E-84; Class 1/Class A.
- B. Radiant Heat Resistance: NEMA LD3-3.10; 600 seconds plus.
- C. High Temperature Resistance: ISSFA SST9.1-00; No Effects
- D. Sustainable Design Requirements:

1.8 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.9 MOCKUP

Use this article for full sized erected assemblies required for review of construction, coordination of work of several sections, testing, or observation of operation.

- A. Section 01 40 00 - Quality Requirements: Mockup requirements.
- B. Construct mockup, [] x [] feet ([] x [] mm), including one of each type of unit.
- C. Locate [where directed by Architect/Engineer.] [where indicated on Drawings.]
- D. Incorporate accepted mockup as part of Work.

***** [OR] *****

- E. Remove mockup [when directed by Architect/Engineer.] [_____].

1.10 FIELD MEASUREMENTS

- A. Verify field measurements prior to fabrication.
- B. Verify field measurements are as [indicated [on shop drawings]] [instructed by manufacturer].

1.11 Delivery Storage and Handling

- A. Store sheet materials flat and inside in a dry location at optimum temperature range of 55 degrees F and 85 degrees F, away from extreme weather and temperature conditions.
- B. Store material flat on a level storage rack supporting the entire length of the material, maximum 12 sheets to a pallet.



1.12 WARRANTY

This article extends warranty period beyond one year. Extended warranties increase construction costs and Owner enforcement responsibilities. Specify warranties with caution.

- A. Section 01 70 00 - Execution and Closeout Requirements: Product warranties and product bonds.
- B. Furnish 10 year manufacturer warranty on the solid surface product to be free of manufacturing defects from date of installation.
- C. Limited Warranty covers solid surface materials installed in residential projects and covers the provision of replacement for the failed product.

Refer to manufacturer's full warranty information.

PART 2 PRODUCTS

2.1 MATERIAL

- A. Manufacturer: EOS Solid Surfaces, 2500 B Rodman Ave, Portsmouth VA 23701
- B. Fabricator:

Refer to EOS's website to locate an approved fabricator: (<http://eos-surfaces.com/find/>)

2.2 COMPONENTS

- A. Solid Surface Sheets: Acrylic/Polyester Resin Plastic, composed of non-porous homogenous blend of polyester and acrylic alloys and fillers. Minimum [3 cm (1-1/4 inch)] [2 cm (3.4 inch)] thick.
 - 1. Provide integral color and texture finish as selected from manufacturer's standard colors.
- B. Accessories: Provide sinks for under counter installation in countertop of [the same cast resin material] [stainless steel, 18 gage, satin finish].
- C. Adhesive: Methyl Methacrylate Monomer type, cartridge dispensed, color matched to solid surface product. As manufactured by Integra Adhesives or as recommended by the manufacturer.
- D. Aluminum Tape: Heat resisting protective tape; 3M Brand, #4253UAL35175 or as recommended by manufacturer for the function.
- E. Screw Inserts: Plastic, Brass or Lead as recommended by the manufacturer for fastening screws.

2.3 FABRICATION

- A. Cut solid surface sheets to size and required profile; sand and smooth all resulting tool marks.
- B. Provide [the factory finish of matte finish approximating 360 grit sandpaper] [[a satin sheen #400] [a high polish #1000, #2000] obtained by buffing with manufacturer's recommended polishing compounds].
- C. Radius outside corners and edges a minimum of 1/8 inch; Radius interior corners a minimum of 1/2 inch.
- D. At cut out areas adjacent to heat producing equipment, apply a heat resisting aluminum tape.
- E. Avoid location of seams in areas of high heat (exceeding 150 degrees F) or over dishwashers.
- F. Provide screw anchors or inserts at locations requiring screw fasteners. Direct screw fastening into cast plastic materials is not permitted.
- G. Maximum unsupported overhang is 12 inches in 2cm and 16 inches in 3cm; maximum unsupported span is 24 inches.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify joint preparation and affected dimensions are acceptable.
- C. Visually inspect sheet materials for damage prior to installation. Report and document any visible damages on damaged material and provide replacement.

3.2 PREPARATION

- A. Provide anchoring devices (silicone) for installation [and embedding].
- B. Provide templates and rough-in measurements.

3.3 INSTALLATION

- A. Align work plumb and level.
- B. Rigidly anchor to supporting structure using common silicone to prevent misalignment.

Add paragraphs identifying attachment methods, fastener types, erection tolerances, and other requirements pertinent to subject component.

- C. Provide screw anchors or inserts at locations requiring screw fasteners.

- D. Install sheet materials only on flat and true surfaces.
- E. Seal to adjacent construction in accordance with Section 07 90 00.

3.4 ERECTION TOLERANCES

- A. Section 01 40 00 - Quality Requirements: Tolerances.
- B. Maximum Variation From Indicated Dimension: **1/8 inch** (3 mm).
- C. Maximum Offset From Indicated Position: **1/8 inch** (3mm).

3.5 CLEANING

- A. Section 01 70 00 - Execution and Closeout Requirements: Final cleaning.
- B. Clean work under provisions of 01700.
- C. Clean and polish fabrication surfaces.

END OF SECTION