

SECTION 066116

SOLID SURFACING FABRICATIONS

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, apply to this Section.

1.2 SUMMARY

- A. Work Included: Solid Surfacing Fabrications, complete, as shown and specified.
- B. Work Specified Elsewhere:
 - 1. Interior Architectural Woodwork: Section 064023.
 - 2. Joint Sealants: Section 079200.

1.3 REFERENCES

- A. General: Comply with the applicable provisions of the referenced standards, except as modified by governing codes and the Contract Documents. Where a recommendation occurs in the referenced standards, it shall be considered mandatory. In the event of conflict, the more stringent requirement shall govern.
 - 1. American Society for Testing and Materials (ASTM): E84, "Surface Burning Characteristics of Building Materials".
 - 2. "Architectural Woodwork Standards" (AWS), published by the Architectural Woodwork Institute (AWI), Architectural Woodwork Manufacturers Association of Canada, and Woodwork Institute (WI).

1.4 SUBMITTALS

- A. Product Data: Submit for Architect's action. Submit manufacturer's literature and installation instructions for each material and accessory, clearly notating each specified requirement.
- B. Shop Drawings: Submit for Architect's action. Prepare details at a scale not less than 3 in. = 1 ft. Coordinate shop drawings with assemblies in Work Specified Elsewhere.
- C. Samples: Submit for Architect's action. Label samples to indicate product, characteristics, and location in the Work. Samples will be reviewed for color and appearance only. Furnish sufficient samples to establish the full range of colors and textures for materials exposed in the finished work. Compliance with other requirements is the responsibility of the Contractor.
 - 1. Solid Surfacing: 12 in. (300mm) square. Submit each color, pattern and finish.

- D. Quality Assurance/Quality Control Submittals: Submit for Architect's information.
 - 1. Certificates:
 - a. Installer's Qualifications.
- E. LEED Submittals:
 - 1. Complete the LEED Material Buyout Form (MBoF) with all materials provided to the project. A complete submittal includes providing all material costs in the MBoF and all of the supporting documentation for the following credits:
 - a. MRc2 - Environmental Product Declarations (EPD): Provide Industry-Wide or Product-Specific EPD.
 - b. MRc3 - Sourcing of Raw Materials - Recycled Content: Provide product data for pre- and post- consumer recycled content.
 - c. MRc3 - Sourcing of Raw Materials – Forestry Stewardship Council (FSC) Certified Wood: For all wood products designated in this specification as "FSC certified," provide vendor invoices with the vendor's Chain-of-Custody (COC) number and identify each FSC certified product on a line-item basis. If FSC wood products are modified off-site by an architectural woodworker or millworker, the woodworker shall have an FSC COC number.
 - d. MRc4 - Material Ingredients, Provide manufacturers Declare label, Health Product Declaration (HPD), Cradle to Cradle Certification, or Cradle to Cradle Health Product Certificate.

1.5 QUALITY ASSURANCE

- A. Qualified Installer: Installer to have 5 years' experience in the installation of specified materials on comparable projects. The firm shall have the approval of the materials manufacturer.
- B. Inspection: Secure inspection service of the Woodwork Institute.
- C. Regulatory Requirements: Comply with applicable requirements of the laws, codes, and regulations of Authorities Having Jurisdiction (AHJs). Obtain necessary approvals from AHJs.

1.6 WARRANTY

- A. Warranty: Submit for Owner's documentation. Warranty shall be for a 5 year period, signed by the Contractor, manufacturer, and installer, against defects in materials or workmanship. Make repairs and replacements upon notification of defects.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Do not deliver solid surfacing until painting, finishing, and overhead work are complete in applicable spaces.

- B. Storage: Store solid surfacing in building, out of the way of other construction activities, at a relative humidity of 50 percent to 55 percent at 70 degrees F.

PART 2 – PRODUCTS

2.1 LEED REQUIREMENTS

- A. IW/PS EPD: Products specified under this section shall have either a Type III Product Specific EPD or the company shall be listed in the industry group responsible for the Industry Wide Externally Verified EPD.
- B. Composite Woods: Composite wood and agri-fiber products shall be made using ultra-low-emitting formaldehyde (ULEF) resins as defined in the California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" or shall be made with no added formaldehyde (NAF).

2.2 MATERIALS

A. Counter Products (Addendum 03):

- 1. **Solid Surface 1, SS-1 (see 090000) or equal.**
 - a. **Basis of Design (BOD) for sintered stone: Cosentino Silestone.**
 - b. **Neolith**
 - c. **Lapitec**
- 2. **Solid Surface 2, SS-2 (see 090000) or equal.**
- 3. **Solid Surface 3, SS-3 (see 090000) or equal.**

2.3 HARDWARE

A. Fasteners:

- 1. General: As required by Reference Standard and recommended by manufacturer for intended use.
- 2. Sheet Metal Screws: Cadmium-plated steel, sizes as shown.
- 3. Sheet Metal Angles: Fabricate angles from galvanized steel sheet, sizes and gauges as shown.

2.4 FABRICATION

- A. Field Measurements: Verify dimensions at project site so that solid surfacing will accurately fit to adjacent work.
- B. Cut-outs: Make cut-outs required to accommodate work of other Sections in the shop.
- C. Forming and Assembly: Form work to true shapes with accurate surfaces and edges. Completely shop assemble, mark, and disassemble before delivery to Project site any Work which cannot be permanently shop assembled. Assemble partial units in place in a

manner that each piece of solid surfacing becomes a unified whole visually and structurally. Fabricate fillers and scribe strips of same materials and finishes as Solid Surfacing with which they are associated.

- D. Hardware: Make cuts for hardware neat and true. Install hardware and fit securely.
- E. Quality of Solid Surfacing: Custom grade. Refer to AWS Section 11.

PART 3 – EXECUTION

3.1 GENERAL

- A. Manufacturer's Instructions: Prepare substrates and install the work, including components and accessories in accordance with the manufacturer's instructions, except where more stringent requirements are shown or specified. Examine the areas to receive the Work and remedy detrimental conditions.
- B. Field Dimensions: Verify dimensions and conditions in field and adjust solid surfacing in the shop to accommodate field conditions.

3.2 INSTALLATION

- A. Comply with AWS Section 11. Install Work plumb and level; shim as necessary with concealed shims; accurately scribe and closely fit faceplates, filler strips, and trim strips to irregularities of adjacent surfaces.
- B. Maximum Allowable Gap: 1/16 in.
- C. Installation Requirements: Provide anchoring and fastening devices required, including wood and sheet metal screws, toggle bolts, lag screws and expansion shields, among others.
- D. Hardware Installation: Install auxiliary items after final finishing has been completed. Install hinges to fit snugly, flat in mortises or on surfaces. Turn screws to a flat seat.
- E. Anchorage: Anchor supporting members solidly to surrounding construction to support loads specified and to prevent distortion or misalignment.
- F. Cutting and Trimming: Cut and trim component parts only with the approval of the manufacturer or fabricator. Restore finish completely and remove evidence of cutting and trimming.
- G. Installation Tolerances:
 - 1. Variation from Plane: Limit variation from plane or location shown to 1/8 in. in 10 ft.; 1/4 in. over total length.
 - 2. Alignment: Where surfaces abut in line and at corners and where surfaces are separated by less than 1/4 in., limit offset from true alignment to less than 1/32 in.
 - 3. Offsets In End-To-End Or Edge-To-Edge Alignment Of Consecutive Members:

1/16 in. maximum offset in any alignment.

3.3 ADJUSTING AND CLEANING

- A. Defective Work: Touch-up, refinish, or replace damaged, stained, scratched, or otherwise disfigured portions of the Work to the satisfaction of the Architect.
- B. Cleaning: Following completion of installation, clean both inside and outside surfaces of Solid Surfacing.

3.4 PROTECTION

- A. General: Protect Solid Surfacing against damage until Work is accepted.

END OF SECTION

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