

SECTION 12 36 00 – PHENOLIC RESIN WINDOW SILLS or STOOLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Solid Phenolic Resin Window Stools or Sills and Aprons

1.2 REFERENCE STANDARDS

- A. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position; 2014.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- C. AWI(QCP) - Quality Certification Program; current edition at www.awiqcp.org.
- D. AWI/AWMAC/WI(AWS) - Architectural Woodwork Standards; 2014.

1.3 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Specimen warranty.
- C. Shop Drawings: Complete details of materials and installation.
- D. Test Reports: Chemical resistance testing, showing compliance with specified requirements.
- E. Installation Instructions: Manufacturer's installation instructions and recommendations.
- F. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of window sills or stool surfaces.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Same fabricator or supplier of Trespa countertop materials or approved alternative.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 FIELD CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

Products of Solid Phenolic to be certified for the following:

FSC and PEFC Certified

Low VOC off-gassing: 0.22 mg/(mm³) or 220 g/l or 0.22 mg/m³

MaxResistance2 is a solid phenolic is manufactured by FunderMax is a self-supporting flat panel based on thermosetting resins, homogeneously reinforced with cellulose fibers and manufactured under high heat and pressure to form Composite panels.

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PART 2 PRODUCTS

2.1 WINDOW STOOLS / SILLS / APRONS

A. MaxPhenolic Solid Phenolic Resin Window Stools / Sills and Aprons: Flat panels with an integrated, cellulose fiber reinforced phenolic resin core with a patented, scientifically developed, double-cured polyurethane acrylic coating, material good two sides.

1. Manufacturer / Supplier: Total Laboratory Solutions; <https://www.maxphenolic.com>
Phone: 480.488.6421. Email: Sales@MaxPhenolic.com
2. Flat Surface Thickness: Nominal minimum 3/4 inch (19-20 mm) thickness, maximum 1 inch (25 mm).
3. Flammability: Self-extinguishing, when tested in accordance with ASTM D635.
4. Surface Finish: Smooth Matt Finish.
5. Color: "Volcano Grey - Color Code 2181RE " or to be selected by Owner from manufacturers full range of colors. See below**
6. Edge / Core Color: Black edge core unless other color as specified by architect.
7. Exposed Edge Shape: 1/8 inch bevel or 3/16 inch radius exposed edges.
8. Maximum length without seam, up to 72", or as required.

**Color: TO BE SELECTED BY ARCHITECT Based on the following 7 in-stock surface colors:

Industry Standard Black #0082RE, White #0085RE, Pastel Gray #0074RE, Charcoal Gray #0077RE, Volcano Gray #2181RE, Dark Gray #0075RE, Arctic White #0606RE, all with black exposed edge and core.

Note: ALL other non-stocked Colors have extended lead times plus fabrication and shipping.

In addition to the Industry standard MaxPhenolic black core material, a new color range is also available that includes color-thru-the-core:

COLOR-THRU-THE-CORE (CTC) COLORS: TO BE SELECTED BY ARCHITECT to include;

• Black #0082RE • White #0085RE • Pastel Gray #0074RE • Charcoal Gray #0077RE • Volcano Gray #2181RE

2.2 ACCESSORY MATERIALS

- A. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
- B. Fasteners: Size and type to suit application, where applicable.
- C. Pins: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations, where applicable.

FABRICATION

2.3

- A. Fabricate window sills in the largest sections practicable, with top surface of seamed joints flush.
Sill aprons to be +/- 2" up to 5" height / height variable per architects drawings.

1. Join lengths of sills / stools using best method recommended by manufacturer.
2. Fabricate to overhang fronts and ends of wall sills 1 inch maximum.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished.

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3.2 PREPARATION

- 3.3 A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. INSTALLATION

- 3.4 A. Securely attach epoxy resin sill / stool material to window openings using adhesive or silicone. Make flat surfaces level; shim where required.

TOLERANCES

- 3.5 A. Variation from Horizontal: 1/8 inch in 10 feet, maximum.
- B. Offset from Wall, Stools: 1/8 inch maximum; 1/16 inch minimum.
- C. Field Joints: 1/8 inch wide, maximum.
- D. Overhang Solid Phenolic Resin sill material minimum $\frac{3}{4}$ inch to 1 inch maximum.
- E. Sills to be rectangular in shape with finished front edges and at the overhangs. CLEANING and PROTECTION

- 3.6 A. Clean surfaces thoroughly.
- B. Protect installed products until completion of project.
- C. Touch-up, repair or replace damaged products before date of substantial completion.

END OF SECTION 12 36 00