

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 MaxPhenolic 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 the manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 WINDOW STOOLS / SILLS

A. MaxPhenolic Solid Phenolic Resin Lab Grade Window Stools / Sills / Aprons: Flat panels with an integrated, decorative polyurethane-acrylic surface and a cellulose fiber reinforced phenolic resin paper based core.

1. Fabricator / Supplier:

Total Laboratory Solutions; www.MaxPhenolic.com Phone: 480.488.6421.

Email: Sales@MaxPhenolic.com or approved equal.

2. Flat Surface Thickness: Nominal minimum 3/4 inch (19 mm) Thickness.

Maximum 1 inch (25 mm).

3. Flammability: Self-extinguishing, when tested in accordance with ASTM D635.

4. Surface Finish: Crystal Smooth Finish.

5. Color: To be selected by Owner from the manufacturer's full range.

6. Exposed Edge Shape: 1/8 inch bevel or 3/16 inch radius exposed edges.

7. Maximum length without seam, up to 144 inch, or as required.

8. Aprons below Sills (to cover imperfections in masonry or other wall material) to be 2 to 5 inch depth x 3/4 or 1 inch thick, same thickness and color as window sills / stools.

B. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

C. Fasteners: Size and type to suit application, where applicable.

D. 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.

2.2 Color: TO BE SELECTED BY ARCHITECT Based on the following 5 in-stock surface colors: Black #0082RE, Pastel Grey #0074RE, Charcoal Grey #0077RE, Volcano Grey #2181RE or White #0085RE, all with black exposed edge and core.

Note: ALL other non-stocked Colors have extended lead times of up to 14-16 weeks Plus Fabrication and shipping.

In addition to the Industry standard MaxPhenolic Black surface and core material, a new Color range is also available that includes COLOR-THRU-THE-CORE:

COLOR-THRU-THE-CORE TO BE SELECTED BY ARCHITECT include:

- Black 0082RE
- White 0085RE
- Pastel Grey 0074RE
- Charcoal Grey 0077RE

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2.3 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.

2.4 FABRICATION

- A. Fabricate window sills in the largest sections practicable, with top surface of seamed joints flush.
 - 1. Join lengths of sills / stools using the best method recommended by the 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 the Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished.

3.2 PREPARATION

- 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.

3.3 INSTALLATION

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

3.4 TOLERANCES

- 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 ¼ inch to 1 inch maximum.
- E. Sills to be rectangular in shape with finished front edges and at the overhangs.

3.5 CLEANING and PROTECTION

- A. Clean surfaces thoroughly.

B. Protect installed products until completion of project.

C. Touch-up, repair or replace damaged products before the date of substantial completion.