

SECTION 12 36 00

PHENOLIC RESIN WINDOW SILLS or STOOLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Trespa Solid Phenolic Resin Window Stools or Sills

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.

PART 2 PRODUCTS

2.1 WINDOW STOOLS / SILLS

- A. Trespa Solid Phenolic Resin Window Stools / Sills: Flat panels with an integrated, decorative urethane-acrylic surface and a cellulose fiber reinforced phenolic resin core with patented Electronic Beam Curing (ECB) process.
 1. Manufacturer / Supplier:
Total Laboratory Solutions; www.PhenolicResinLabs.com
Phone: 480.488.6421. Email: Sales@PhenolicResinLabs.com
 2. Flat Surface Thickness: Nominal minimum 3/4 inch (20 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: Industry Standard Black; Slate Grey; Silver Grey or Mystic White surfaces with black exposed edge and core.
 6. Exposed Edge Shape: 1/8 inch bevel or 3/16 inch radius exposed edges.
 7. Maximum length without seam, up to 97 or 120 inch, as required.

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.

2.3 FABRICATION

- A. Fabricate window sills in the largest sections practicable, with top surface of seamed joints flush.
 - 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.

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 epoxy resin sill / stool material to window openings using adhesive or 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 Trespa Solid Phenolic Resin sill material minimum 3/4 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 date of substantial completion.