

**SUGGESTED SPECIFICATIONS**  
**SECTION 09 72 00**  
**C/S Acrovyn® 4000 .040N Rigid Sheet**

**Part 1 - General**

**1.01 Summary**

- A. This section includes the following types of wall protection systems:
  - 1. Wall Covering
- B. Related sections: The following sections contain requirements related to this section:
  - 1. Handrails, Bumper Guards, Crash Rails, Corner Guards, Accent Rails, Wall Panels, Door Protection; refer to section 10 26 00 "Wall and Door Protection"

**1.02 References**

- A. National codes (IBC, UBC, SBCCI, BOCA, Life Safety and CA 01350)
- B. American Society for Testing and Materials (ASTM)
- C. Underwriters Laboratories (UL)
- D. California 01350 specification

**1.03 Submittals**

- A. General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 "Submittal Procedures".
- B. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.
- C. Shop drawings showing locations, extent and installation details of wall covering products.
- D. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and thickness:
  - 1. Sample of each product specified.
- E. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.
- F. Maintenance data for wall protection system components for inclusion in the operating and maintenance manuals specified in Division 1.

**1.04 Quality Assurance**

- A. Installer qualifications: Engage an installer who has no less than 3 years experience in installation of systems similar in complexity to those required for this project.
- B. Manufacturer's qualifications: Not less than 5 years experience in the production of specified products and a record of successful in-service performance.
- C. Code compliance: Assemblies should conform to all applicable codes including IBC, UBC, SBCCI, BOCA, Life Safety and CA 01350.
- D. Fire performance characteristics: Provide engineered PETG wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM E84 for Class 1 characteristics listed below:
  - 1. Flame spread: 25 or less
  - 2. Smoke developed: 450 or less
- E. Impact Strength: Provide assembled wall protection units that have been tested in accordance with the applicable provisions of ASTM F476.
- F. Chemical and stain resistance: Provide wall protection system components with chemical and stain resistance in accordance with ASTM D543.

- G. Color match: Provide wall protection components that are color matched in accordance with the following:
  - 1. Delta Ecmc of no greater than 1.0 using CIELab color space. (Specifier note: Construction Specialties' colors are matched under cool white fluorescent lighting and computer controlled within manufacturing tolerances. Color may vary if alternate lighting sources are present).
- H. Single source responsibility: Provide all components of the wall protection system manufactured by the same company to ensure compatibility of color, texture and physical properties.

#### **1.05 Delivery, Storage and Handling**

- A. Deliver materials to the project site in unopened original factory packaging clearly labeled to show manufacturer.
- B. Store materials in original, undamaged packaging in a clean, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40°F (4°C) and a maximum of 100°F (38°C) should be maintained.
- C. Materials must be stored flat.

#### **1.06 Project Conditions**

- A. Materials must be acclimated in an environment of 65-75°F (18-24°C) for at least 24 hours prior to beginning the installation.
- B. Installation areas must be enclosed and weatherproofed before installation commences.

### **Part 2 - Products**

#### **2.01 Manufacturers**

- A. Interior surface protection products specified herein and installed on the submittal drawings shall be manufactured by Construction Specialties, Inc.

#### **2.02 Materials**

- A. Engineered PETG: Rigid sheet should be high impact Acrovyn 4000 with nominal .040" (1.02mm) thickness and supplied in 4' x 8' or 10' (1.22m x 2.44m or 3.05m) sheet sizes in Suede (standard) and Shadowgrain textures. Quatro and Single Tread textures shall be 42" x 88" or 112" (1.07m x 2.24m or 2.84m). Beadboard texture shall be 43" x 90" or 113" (1.09m x 2.29m or 2.87m). Mesa, Stone Chips, Irish Linen, Pindot, Leather, Pinstripe, Dado and Stipple textures shall be 43" x 90" or 114" (1.09m x 2.29m or 2.90m). Select from one of (64) Acrovyn solid colors or (16) Chameleon patterned colorways which include (14) woodgrains and (2) metals. Specify color-matched caulk, plastic trims or metal trims as needed for joints/transitions.

#### **2.03 Fabrication**

- A. General: Fabricate wall covering to comply with requirements indicated for design, dimensions, detail, finish and sizes.

#### **2.04 Accessories**

- A. Acrovyn Wall Covering shall be furnished as a complete packaged system, containing all primers and adhesive. Primer and adhesive materials shall be water based and non-hazardous.



## **Part 3 - Execution**

### **3.01 Examination**

- A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.

- 1. Do not proceed until unsatisfactory conditions have been corrected.

### **3.02 Preparation**

- A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.
- B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer's installation instructions.

### **3.03 Installation**

- A. Install the work of this section in strict accordance with the manufacturer's recommendations using approved adhesive.
- B. Temperature at the time of installation must be between 65-75°F (18-24°C) and be maintained for at least 48 hours after the installation to allow for proper adhesive set up.
- C. Relative humidity shall not exceed 80%.
- D. Do not expose wall covering to direct sunlight during or after installation. This will cause the surface temperature to rise, which in turn will cause bubbles and delamination.

### **3.04 Cleaning**

- A. General: Immediately upon completion of installation, clean wall covering and accessories in accordance with manufacturer's recommended cleaning method.
- B. Remove surplus materials, rubbish and debris resulting from installation as work progresses and upon completion of work.

### **3.05 Protection**

- A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

