

**SUGGESTED SPECIFICATIONS**  
**SECTION 09 72 00**  
**C/S Acrovyn® 4000 Square Edge Wall Panel**

**Part 1 - General**

**1.01 Summary**

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

**1.02 References**

- A. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)
- 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 panel 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 wall panels 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 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 panels identical to those tested in accordance with ASTM E84 for Class B characteristics listed below:
  - 1. Flame spread 75 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 panels with chemical and stain resistance in accordance with ASTM D543.

- G. Color Match: Provide wall panels that are color matched in accordance with the following:
  - 1. Delta Ecmc of no greater than 1.0 using CIELab color space. Components of the wall protection system manufactured by the same company to ensure compatibility of color, texture and physical properties.
- 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 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 room temperature of 40-100°F (4-38°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 Wall Panels to be Acrovyn 4000 by Construction Specialties Inc: Wall panels to be manufactured of .040" (1.02mm) thick Acrovyn 4000 sheet factory bonded to the face side of a 3/8" (9.53mm) thick particle board core with no added urea formaldehyde. The backside of the panel to be laminated with a moisture resistant sheet.
  - 1. C/S Acrovyn 4000 Square Edge Wall Panel available in (64)\* Acrovyn solid colors, (13) textures and (18)\* Chameleon patterned colorways, which include (16) woodgrains and (2) metals. All joint caulk and PVC-free trims supplied in color to coordinate (or contrast) with panel color. [Note variable panel sizes: Standard Suede texture shall be 46" x 94" or 118" (1.17m x 2.39m or 3.00m). All other (12) textures shall be 43" x 90" or 114" (1.09m x 2.29m or 2.90m).] [\*Specifier note: Acrovyn sheet material is MBDC Cradle to Cradle® Certified Silver in all (64) colors and (18) patterns.]

#### 2.03 Wall Panel Mounting Options

- A. Mount Option to be construction grade adhesive supplied by manufacturer. Panel edges to be concealed with joint caulk or PVC-free trim options.

#### 2.04 Fabrication

- A. General: Fabricate wall panels to comply with requirements indicated for design, dimensions, detail, finish and sizes. All based upon required field verified dimensions.

## **2.05 Accessories**

- A. Acrovyn Wall Panels shall be furnished as a complete packaged system.

## **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 and the required field verified dimensions.
- 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 panels 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 panels 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.