

## CS Acrovyn by Design<sup>®</sup> Wall Panels Demountable Sure Snap<sup>™</sup>

Unfinished Edge with Trim

Suggested Specifications | Section 10 26 23

### 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, Corner Guards, Bumper Guards, Crash Rails, 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)

#### 1.03 Submittals

General: Submit the following in accordance with conditions of contract and Division 1 specification section 01 33 00 "Submittal Procedures":

- A. Product data and detailed specifications for each system component and installation accessory required, including installation methods for each type of substrate.
- B. Shop drawings showing locations, extent and installation details of wall panel products.
- C. 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.
- D. Product test reports from a qualified independent testing laboratory showing compliance of each component with requirements indicated.
- E. 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 and Life Safety.
- D. Impact Strength: Provide assembled wall protection units that have been tested in accordance with

the applicable provisions of ASTM F476.

- E. Chemical and stain resistance: Provide wall panels with chemical and stain resistance in accordance with ASTM D543.
- F. Color match: Provide wall protection components that are computer controlled within manufacturing tolerances and typical limitations of digital printing color matching.
- G. 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 50-100°F (10-38°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 included on the submittal drawings shall be manufactured by Construction Specialties, Inc.

#### 2.02 Materials

- A. Engineered PETG: Material should be high-impact Acrovyn 4000 with Suede texture, nominal .040" (1.02mm) thickness. Chemical and stain resistance should be per ASTM D543 standards as established by the manufacturer.
- B. Particle Board: 3/8" (9.53mm) thick particle board core.
- C. Aluminum: Aluminum trims and optional reveals to be alloy 6063 T5 with clear anodized finish; minimum strength and durability properties as specified in ASTM B221.

#### 2.03 Wall Panels

- A. Engineered PETG Wall Panels to be CS Acrovyn by Design: Wall panels to be manufactured of .040" (1.02mm) thick Acrovyn by Design sheet in standard Suede texture, factory-bonded to the face side of a 3/8" (9.53mm) thick particle board core. The backside of the panel to be laminated with a moisture resistant barrier.
  - 1. Acrovyn by Design Wall Panel with Unfinished Edge to include aluminum picture frame [1/4" (6.35mm) visible] or aluminum thin trim [1/16" (1.59mm) visible] factory installed on panel. Standard maximum panel size to be 47" x 119" (1.2m x 3.0m). Select from one of Acrovyn by Design standard pattern colorways or supply custom artwork for embedded digital imagery.

Overall panel thicknesses of 3/4" (19.05mm) available with demountable Sure Snap™ System mounting hardware mechanically fastened to wall and preinstalled on panel.

#### 2.04 Reveals

- A. Reveal spacing to be as narrow or wide as the following allow:
  - 1. Painted wall.
  - 2. Acrovyn reveals to consist of 1 1/2" (38.1mm) wide strips of .040" (1.02mm) thick sheet.
  - 3. Aluminum reveals to be 1 1/2" (38.1mm) wide x .024" (0.61mm) thick.

#### 2.05 Fabrication

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

#### 2.06 Finishes

- A. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applications and designations of finishes.

#### 2.07 Accessories

- A. Acrovyn Wall Panels shall be furnished as a complete packaged system, including appropriate demountable hardware.

### 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 demountable hardware.
- 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.