CS Acrovyn® Wall Panels Permanent Adhesive

Wrapped Beveled Edge
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)z
D. California 01350 specification

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, Life Safety and CA 01350.
D. Fire performance characteristics: Provide engineered PVC FREE wall panels with a

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UL label indicating that they are identical to those tested in accordance with ASTM E84 for Class B/2 characteristics listed below:
1. Flame spread 75 or less
2. Smoke developed: 350 or less

E. Impact Strength: Provide wall protection components that have been tested for impact using a ram-type impact test in accordance with the applicable provisions of ASTM F476 -84.

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. (Specifier note: Construction Specialties' colors are matched under cool white fluorescent lighting and computer controlled within manufacturing tolerance. 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 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 50-100ºF (10-38ºC) should be maintained.

C. Materials must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 65-75ºF (18-24ºC) for at least 24 hours prior to beginning the installation.

B. Installation areas must be enclosed and weatherproofed before installation commences.

1.07 Warranty

A. Acrovyn 5-year Limited Warranty

☐ Applies to Interior Wall Protection orders that <u>do not</u> include recommended components or accessories
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

B. Limited Lifetime Systems Warranty

☐ Applies to CS Interior Wall Protection projects that include all recommended components and accessories related to CS Interior Wall Protection Products.
- Accessories = Primer, Adhesive, Caulk, Trims & Moldings

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., 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493; email: cet@c-sgroup.com

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B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. drawings and specifications unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

2.02 Materials

A. Engineered PVC FREE: 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. Colors to be indicated in the finish schedule from one of manufacturer's available colors and patterns.

B. Particle Board: 3/8" (9.53mm) thick particle board core.

C. Aluminum: Optional aluminum 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 PVC FREE Wall Panels to be CS Acrovyn: Wall panels to be manufactured of .040" (1.02mm) thick Acrovyn 4000 sheet in standard Suede texture, factory-bonded to the face side and edges of a 3/8" (9.53mm) thick particle board core. The backside of the panel and return edges to be laminated with a moisture resistant barrier.

1. Acrovyn Wall Panel with Wrapped Beveled Edge has a standard maximum panel size of 47" (1.2m) x 119" (3.0m). Select from one of Acrovyn solid colors, Acrovyn by Design®, Acrovyn ™ Woodgrains™ or Acrovyn™ Brushed Metals simulated patterns. Construction grade adhesive supplied by manufacturer for permanent installation.

2.04 Reveals

A. Reveal style available is Recessed Reveal when not using the Butt Joint option, spacing to be as narrow or wide as the following:

1. Painted wall.

2. Acrovyn reveals to consist of 1 1/2" (38.1mm) wide strips of .040" (1.02mm) 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. Adhesive: Acrovyn Wall Panels shall be furnished as a complete packaged system, including appropriate standard adhesive.

B. Primer available for purchase.

Part 3 - Execution

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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 65-75ºF (18-24ºC) 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.

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