

| Suggested Specifications | Section 10 26 00
CS Acrovyn® 4000 Models D1-DFPN and D2-DFPN

Part 1 - General

1.01 Summary

- A. This section includes the following types of wall protection systems:
 - 1. Door Protection
- B. Related sections: The following sections contain requirements related to this section:
 - 1. Handrails, Corner Guards, Bumper Guards, Crash Rails, Accent Rails, Wall Covering, Wall Panels; 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. National Fire Protection Association (NFPA 252 fire test)
- D. Underwriters Laboratories (UL-10C positive pressure fire test)

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 door protection 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 door protection products 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: Door protection products should conform to all applicable codes including IBC, UBC, SBCCI, BOCA and Life Safety.
- D. Fire performance characteristics: Provide engineered PVC FREE door protection products with an Intertek/Warnock Hersey label indicating that they are identical to those tested in accordance with UL-10C Positive Pressure and NFPA 252.
- E. Chemical and stain resistance: Provide door protection products with chemical and stain resistance in accordance with ASTM D543.
- F. Color Match: Provide door protection products 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.)
- 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 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 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.

1.07 Warranty

A. Acrovyn 5-year Limited Warranty

- Applies to Interior Wall Protection orders that do not include recommended components or accessories
 - Assemblies = Brackets, Hardware
 - 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.
 - Assemblies = Brackets, Hardware
 - 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
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: Extruded material should be high-impact Acrovyn 4000 with Shadowgrain texture and nominal .078" (1.98mm) thickness for models D1-DFPN and D2-DFPN. Back edge portion of D2-DFPN protector is high-impact Acrovyn 4000 with Suede texture and 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. Aluminum Retainers: Extruded aluminum retainers should be 6063-T6 alloy, nominal .062" (1.57mm) thickness. Minimum strength and durability properties as specified in ASTM B221.
C. Fasteners: All fasteners to be non-corrosive and compatible with aluminum extrusions. All necessary fasteners to be supplied by the manufacturer.

2.03 Door Protection

- A. Engineered PVC FREE Door Frame Protection to be CS Acrovyn: Surface mounted guards consisting of continuous aluminum retainer with snap-on Acrovyn cover and color matched end caps. Attachment hardware shall be appropriate for frame construction.
1. **Model D1-DFPN Bullnose shaped guard with 3" (76.6mm) legs designed to provide shock absorbing protection for lead-in edges of door frame. Supplied in 32-114" (0.8-2.9m) heights. Select from one of Acrovyn solid colors or Acrovyn simulated patterns.**
 2. **Model D2-DFPN Bullnose shaped guard with 3" (76.6mm) legs designed to provide shock absorbing protection for lead-in edges of door frame. For additional frame protection, a standard .040" (1.02mm) thick back edge protector is supplied with standard adhesive or optional factory-applied double-faced tape. Supplied in 32-114" (0.8-2.9m) heights. Select from one of Acrovyn solid colors or Acrovyn simulated patterns.**

2.04 Fabrication

- A. General: Fabricate door protection products to comply with requirements indicated for design, dimensions, detail, finish and sizes.

2.05 Accessories

- A. Adhesive: Acrovyn door frame protection shall be furnished as a complete packaged system, including adhesive.

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 door protection 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 door protection products 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.