

SUGGESTED SPECIFICATIONS
SECTION 10 26 00
C/S Acrovyn® Model BCR-64

Part 1 - General

1.01 Summary

- A. This section includes the following types of wall protection systems:
 - 1. Crash Rails
- B. Related sections: The following sections contain requirements related to this section:
 - 1. Handrails, Bumper Guards, Corner Guards, Accent Rails, Wall Covering, Wall Panels, Door Protection; refer to section 10 26 00 "Wall and Door Protection"
 - 2. Blocking in walls for fasteners; refer to section 09 22 00 "Supports for Plaster and Gypsum Board"

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

- 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 crash rails. Show methods of attachment to adjoining construction.
- D. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern and end cap attachment and alignment.
 - 1. 12" (304.8mm) long sample of each model specified including end cap and mounting hardware.
- 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 and Life Safety.
- D. Fire performance characteristics: Provide wall protection system components with UL label indicating that they are identical to those tested in accordance with ASTM-E84 (CAN/ULC S102.2) for Class 1 characteristics listed below:
 - 1. Flame spread: 25 or less
 - 2. Smoke developed: 450 or less

International Fire Ratings Include:

UK: BS476-part 7, Class 1.

France: MI.

Spain: MI.

Germany: DIN4102, BI Classification.

Italy: Class 1.

- 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 D-1308.
- 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 cool, 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.** Material 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.** Vinyl/Acrylic: Extruded material should be high impact Acrovyn with pebblette grain texture, nominal .078" (1.98mm) thickness. Chemical and stain resistance should be per ASTM D-1308 standards as established by the manufacturer. Colors to be indicated in the finish schedule from one of manufacturer's standard color range.
- B.** Aluminum Retainers: Extruded aluminum retainers should be 6063-T6 alloy, nominal .090" (2.29mm) thickness. Minimum strength and durability properties as specified in ASTM B221.
- C.** Fasteners: All fasteners to be non-corrosive and compatible with aluminum retainers. All necessary fasteners to be supplied by the manufacturer.

2.03 Crash Rails



- A. Vinyl/Acrylic crash rails to be Acrovyn by Construction Specialties: Surface, bumper or extended mounted assembly consisting of a continuous aluminum retainer or aluminum clips with snap-on Acrovyn cover and integral shock absorbing cushions. Color matched end caps and corners to be removable for ease of replacement. Attachment hardware shall be appropriate for wall conditions.

- 1. Model BCR-64 8" h (203.2mm) bumper mounted crash rail. Rail to be mounted with a continuous aluminum retainer with flexible cushion. Select from one of (60) Acrovyn solid colors or (16) Chameleon patterned colorways which include (14) woodgrains and (2) metals.

2.04 Fabrication

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

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 only approved mounting hardware, and locating all components firmly into position, level and plumb.
- 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.
- C. Where splices occur in horizontal runs, splice aluminum retainer and cover at different locations along the run.

3.04 Cleaning

- A. General: Immediately upon completion of installation, clean covers 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.