

SCR-40N Series

Product Data

This Acrovyn® 4000 crash rail features a 101.6mm high shock absorbing profile.

Technical Data:

- 101.6mm height
- 19.6mm wall offset
- 1.98mm thick Acrovyn® 4000 cover with Acrovyn® 4000 end caps
- SCR-40N - continuous aluminum retainer with continuous regrind PETG cushion
- Maximum 6.1m length



Features:

- Acrovyn® 4000 Group No. 1 NCC 2019 (Amendment. 1) – C1.10
- Shadowgrain texture
- Engineered PETG free of PVC and PBTs
- CA 01350 protocol for low VOC
- 5 year product warranty
- Acrovyn® 4000 Woodgrain limited lifetime warranty

Solid Colours

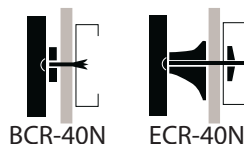
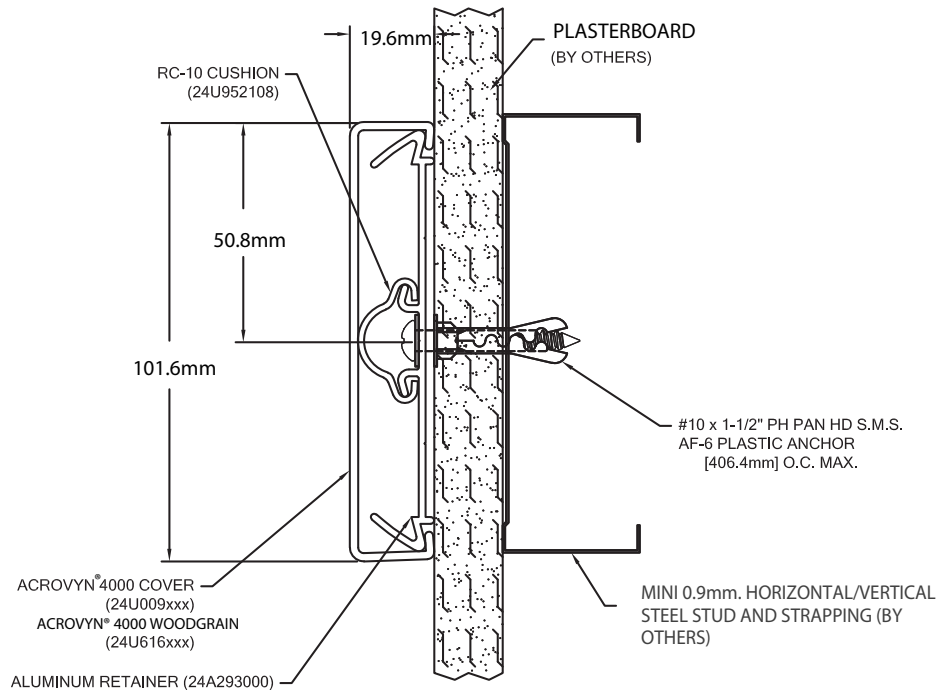
Acrovyn® 4000 Woodgrains/
Brushed Metals

Options:

- Factory-formed radius
- Ramp transitions
- 90 and odd degree outside corners
- BCR-40N - 12.7mm mounting cushion; 30.6mm wall offset
- ECR-40N - 54.0mm mounting bracket; 73.5mm wall offset

Similar Models:

- SCR-48N - 152.4mm height; 32.2mm wall offset
- SCR-64N - 203.2mm height; 31.6mm wall offset



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SUGGESTED SPECIFICATIONS
SECTION 10 26 00
CS Acrovyn® 4000 Models
SCR-40N, BCR-40N and ECR-40N

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, Corner Guards, Bumper 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. NCC 2019 (Amendment. 1) – C1.10

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 crash rails. Show methods of attachment to adjoining construction.

C. 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. 304.8mm long sample of each model specified including end cap.

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 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. Fire performance characteristics: Tested in accordance with AS/NZS 1530.3-1999 characteristics listed below:

1. Flame spread: 9 or less

2. Smoke developed: 8 or less

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 protection system components with chemical and stain resistance in accordance with ASTM D543.

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 CIE Lab 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 4°C and a maximum of 38°C should be maintained.

C. Material must be stored flat.

1.06 Project Conditions

A. Materials must be acclimated in an environment of 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: Extruded material should be high-impact Acrovyn® 4000 with Shadowgrain texture, nominal .198mm 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. Regrind PETG: PVC-free regrind absorption cushion.

C. Aluminum: Extruded aluminum should be 6105-T5 alloy, nominal 1.57mm thickness. Minimum strength and durability properties as specified in ASTM B221 or AS/NZS 1866:1997.

D. 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. Engineered PETG Crash Rails to be CS Acrovyn® 4000: Surface mounted assembly consisting of standard aluminum retainer with snap-on Acrovyn® 4000 cover and integral shock absorbing cushion. End caps shall be mechanically fastened with concealed fasteners. Color matched end caps and corners shall be removable for ease of replacement. Attachment hardware shall be appropriate for wall conditions.

1. **Model SCR-40N 101.6mm high surface mounted crash rail with continuous aluminum retainer and continuous regrind PETG cushion for added absorption. Specify BCR-40N for bumper mount option or ECR-40N for extended mount option. Select from one of Acrovyn® 4000 solid colors or Acrovyn® 4000 Woodgrain and Brushed Metals**

(Specifier note: refer to the Acrovyn® 4000 Cradle to Cradle Product Summary at www.acrovyn.com/c2c to determine which colors and patterns are

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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 18°-24°C and be maintained for at least 48 hours after the installation.

C. Adjust installed end caps as necessary to ensure tight seams.

D. Where splices occur in horizontal runs, splice retainer and rail at different locations along the run.

3.04 Cleaning

A. General: Immediately upon completion of installation, clean material 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.