

HRB-10CN (AU)

Series

Product Data

A 158.2mm high Acrovyn® 4000 handrail/crash rail combination featuring numerous design options.

Technical Data:

- 158.2mm height
- 88.2mm wall off set
- 38.1mm round grip
- 1.98mm thick Acrovyn® 4000 cover with Acrovyn® 4000 end caps; maximum 6.1m length
- Aluminum retainer with regrind PETG cushion maximum 6.1m length
- Minimum handrail length is 330.2mm
- Acrovyn® 4000 mounting brackets



Solid
Colours

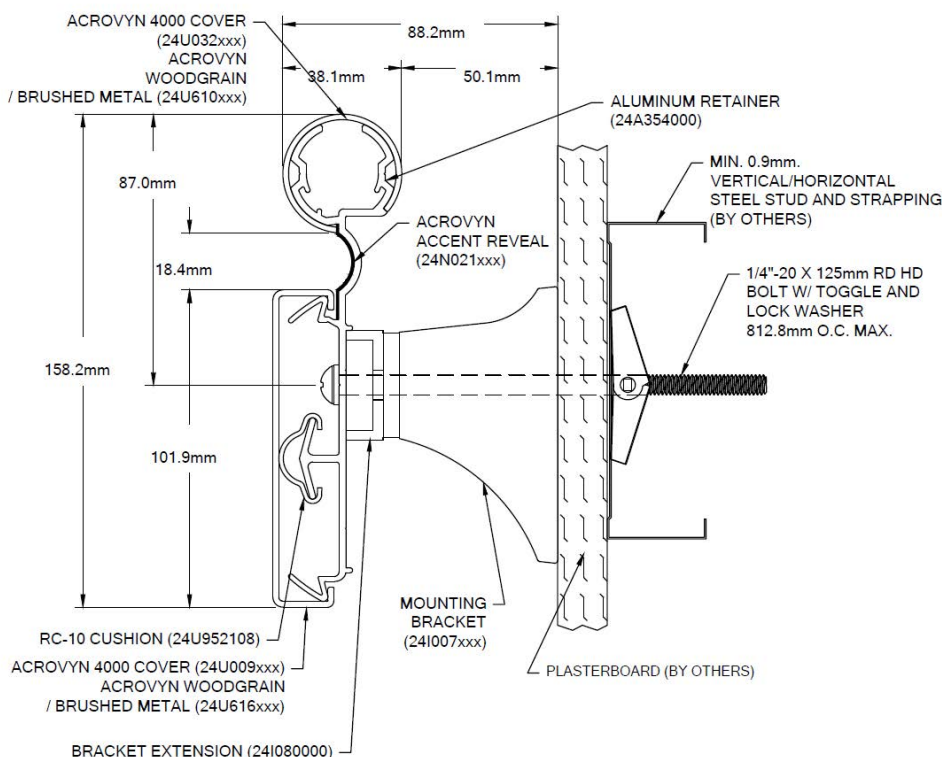
Acrovyn® 4000 Woodgrains/
Brushed Metals

Features:

- AS 1428.1:2009 (section 12b,c & h) compliance
- 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 Woodgrains/Brushed Metals

Options:

- Round grip, accent reveal and crash rail can be different colors
- Factory-formed radius and ramp transitions (except ligature resistant)
- 90 and odd degree outside corners
- HRB-10CHLN - high load requirements
- HRB-10CCMN - ligature resistant mounting brackets
- HRB-10CQLN - Quick Lock mounting brackets (specify HRB-10CQLHLN for high load requirements, HRB-10CQLCMN for ligature resistant or HRB-10CQLCMN for ligature resistant and high load requirements)



Similar Models:

- HRBW-10C - wood handrail and Acrovyn® 4000 crash rail
- HRW-10C - wood handrail and crash rail



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SUGGESTED SPECIFICATIONS

SECTION 10 26 00

CS Acrovyn® 4000 Models

HRB-10CN, HRB-10CQLN, HRB-10CHLN and HRB-10CCMN

Part 1 - General

1.01 Summary

A. This section includes the following types of wall protection systems:

1. Handrails

B. Related sections: The following sections contain requirements related to this section:

1. Corner Guards, Bumper Guards, Crash Rails, 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. AS1428.1 : 2009 (section 12b,c & h) compliance

C. American Society for Testing and Materials (ASTM)

D. 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 handrails. 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. Code compliance: Assemblies should conform to all applicable codes including AS1428.1: 2009.

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 1.98mm 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: Extruded aluminum should be 6063-T6 alloy with nominal 2.29mm thickness for models HRB-10CN and HRB-10CHLN or 6105-T5 alloy with nominal 1.91mm thickness for model HRB-10CCMN. 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 Handrails

A. Engineered PETG Handrails to be CS Acrovyn® 4000: Surface mounted assembly consisting of a continuous extruded aluminum retainer with snap-on Acrovyn® 4000 cover and integral shock absorbing cushion where indicated. Color matched mounting brackets to be spaced as indicated on installation instructions. Color matched end caps and corners shall be attached to allow post installation adjustment. Attachment hardware shall be appropriate for wall construction.

1. Model HRB-10CN 158.75mm high handrail/crash rail configuration with matching or contrasting colored accent strip. Three individual color selections can be incorporated into this design. For top rail, bottom rail and accent reveal, select from one of Acrovyn® 4000 solid colors, Acrovyn® 4000 Woodgrain or Brushed Metals. Specify HRB-10CQLN for optional Quick Lock mounting bracket. For

optional high load mounting tested to withstand over 453 kgs peak loads, specify HRB-10CHLN. Specify HRB-10CCMN for optional ligature resistant mounting bracket.

(Specifier note: refer to the Acrovyn® 4000 Cradle to Cradle Product Summary at www.acrovyn.com/c2c to determine which colors and patterns are Cradle to Cradle Certified™ Gold or Silver for Acrovyn® 4000 wallguards. Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.)

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 rails 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.