

SM-20N and SM-20AN

Product Data

A shock absorbing 90 degree surface mounted corner guard featuring 76.1mm Acrovyn® 4000 legs.

Technical Data:

- 76.1mm leg
- 9.5mm wall offset
- 6.4mm radius cover
- 1.98mm thick Acrovyn® 4000 cover with Acrovyn® 4000 top and bottom end caps
- 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

Options:

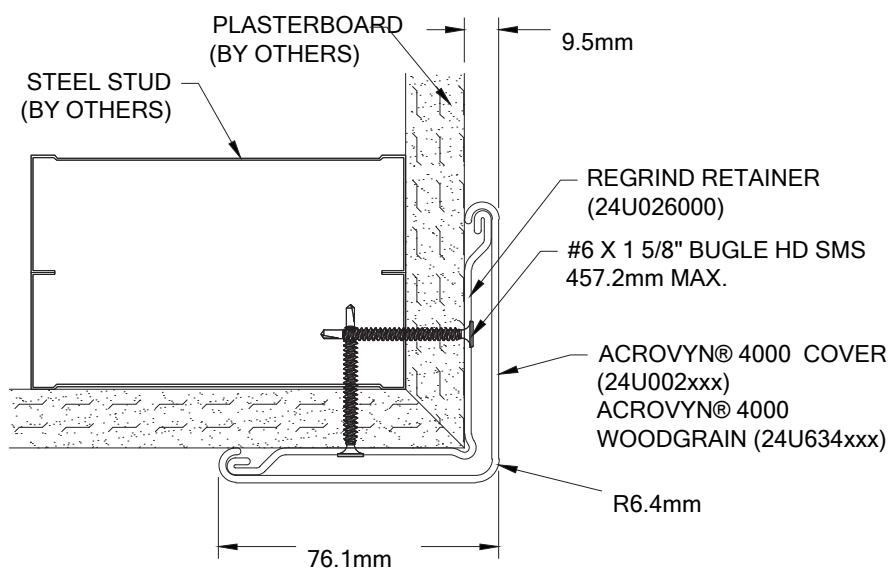
- Horizontal accent reveal between end cap and cover in Black only
- SM-20N - continuous regrind PETG retainer
- SM-20AN - continuous aluminum retainer

Similar Models:

- SSM-20N - 50.8mm leg; 6.4mm radius cover - 90 degree
- SM-10N - 76.6mm leg; 25.4mm radius bullnose cover - 90 degree
- SSM-10N - 51.2mm leg; 31.8mm radius bullnose cover - 90 degree
- SM-20MN - 76.2mm leg - odd degree
- SSM-25N - 50.8mm leg; 6.4mm radius cover - end wall
- SSM-15N - 53.4mm leg; 28.9mm radius bullnose cover - end wall



Solid Colours | Acrovyn® 4000 Woodgrain/
Brushed Metals



Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

SUGGESTED SPECIFICATIONS
SECTION 10 26 00
**CS Acrovyn® 4000 Models SM-20N,
SM-20AN and SM-20MN**
Part 1 - General
1.01 Summary

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

1. Corner Guards

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

1. Handrails, 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. 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 corner guards. 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 IBC, UBC, SBCCI, BOCA, Life Safety and CA 01350.

D. Fire performance characteristics: tested in accordance with AS/NZS1530.3-1999 characteristics listed below:

1. Flame spread: 9 or less

2. Smoke developed: 8 or less

E. Impact strength: Provide wall protection components 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 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. Regrind PETG: PVC-free regrind retainer for model SM-20N.

C. Aluminum: Extruded aluminum retainers should be 6063-T6 alloy, nominal 1.57mm thickness for models SM-20AN and SM-20MN. Minimum strength and durability properties as specified in ASTM B221.

D. Fasteners: All fasteners to be non-corrosive and compatible with aluminum retainers. All necessary fasteners to be supplied by the manufacturer.

2.03 Corner Guards

A. Engineered PETG Corner Guards to be CS Acrovyn® 4000: Surface mounted guards consisting of continuous retainer with snap-on Acrovyn® 4000 cover. Color matched end caps to be provided for both partial and full height applications. Attachment hardware shall be appropriate for wall construction.

1. **Model SM-20N 90° surface mounted corner guard with 76.1mm legs, 6.4mm radius cover and regrind PETG retainer. Specify SM-20AN for continuous aluminum retainer or SM-20MN for odd degree corners. Select from one of Acrovyn® 4000 solid colors or Acrovyn® 4000 Woodgrain. Optional horizontal accent reveal available in Black only (90° only)** [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 (exception: horizontal accent reveal). 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.

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.