

| Suggested Specifications | Section 10 26 00
CS Acrovyn® Models P-OWM, P-RWM and P-RWMSS

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. National codes (IBC, UBC, SBCCI, BOCA, OSHA, Life Safety, OSHPD and ADA)
- B. American Society for Testing and Materials (ASTM)

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, finish and end cap attachment and alignment:
 - 1. 12" (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, OSHA, Life Safety, OSHPD and ADA.
- D. Fire performance characteristics: Provide wood and metal components tested in accordance with ASTM E84 for Class A/1 fire characteristics.
- E. Impact Strength: Provide assembled wall protection units that have been tested in accordance with the applicable provisions of ASTM F476.
- F. 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. Solid Wood Components: Shall be manufactured from plain sawn, FAS grade hardwood, kiln dried to a moisture content of 6% to 10%.
- B. Aluminum: Extruded aluminum should be 6063-T6 alloy Crash rail to be nominal .080" (2.03mm) thickness. Minimum strength and durability properties as specified in ASTM B221.
- C. Stainless Steel: Cast brackets to be type 304 alloy with #4 satin finish.
- D. 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. Handrails to be CS Acrovyn: Surface mounted handrail and crash rail configuration with end caps returning to the wall. Attachment hardware shall be appropriate for wall construction.
 1. **Model P-OWM 6" (152.4mm) high configuration consisting of an oval wood handrail, an aluminum crash rail and matching end caps returning to the wall. Select handrail from one of Renaissance™ wood species and finishes. FSC certified wood can be specified. Custom woods and finishes available. Crash rail to be powder coated aluminum; select from standard powder coat finishes. Dual cantilevered mounting brackets to be stainless steel available with optional powder coat; select from standard powder coat finishes.** (Specifier note: This product is *Cradle to Cradle Certified™* Silver. *Cradle to Cradle Certified™* is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.)
 2. **Model P-RWM 6 3/8" (161.9mm) high configuration consisting of a round wood handrail, an aluminum crash rail and matching end caps returning to the wall. Select handrail from one of Renaissance™ wood species and finishes. FSC certified wood can be specified. Custom woods and finishes available. Crash rail to be powder coated aluminum; select from standard powder coat finishes. Dual cantilevered mounting brackets to be stainless steel. For optional stainless steel end caps specify P-RWMSS. Optional 90 degree stainless steel outside corners and 3" (76.2mm) splices available. All stainless steel components available with optional powder coat; select from standard powder coat finishes.** [Specifier note: This product is *Cradle to Cradle Certified™* Silver (exceptions: stainless steel end caps, corners and splices). *Cradle to Cradle Certified™* is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.]

2.04 Finishes

- A. All wood components shall be factory finished. Wood components to be final coated with water based, high solids, clear lacquer using a two coat process. Finish shall be in accordance with specified AWI finish system. Coverage shall be a minimum of 3-5 mils. Gloss shall be measured on 60° gloss meter as per ASTM D523.
- B. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applications and designations of finishes.

2.05 Fabrication

- A. General: Fabricate wall protection systems to comply with requirements indicated for design,

dimensions, detail, finish and member sizes.

- B. Preassemble wood components in shop as much as possible to minimize field assembly.
- C. Fabricate components with wood joints lightly chamfered. Provide surfaces free of chipping, dents and other imperfections.

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.

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.