

| Suggested Specifications | Section 10 26 00

CS Acrovyn® Models HRW-20, HRW-20S, HRW-20V, HRW-20CM, HRW-20SCM and HRW-20VCM

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)
- C. California 01350 specification

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, ADA and CA 01350.
- D. Fire performance characteristics: Provide wood components tested in accordance with ASTM E84 for Class A/1 fire characteristics.
- E. 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.

1.07 Warranty

A. Acrovyn 5-year Limited Warranty

- Applies to Interior Wall Protection orders that do not include recommended components or accessories
 - Assemblies = Brackets, Hardware
 - Accessories = Primer, Adhesive, Caulk, Trims & Moldings

B. Limited Lifetime Systems Warranty

- Applies to CS Interior Wall Protection projects that include all recommended components and accessories related to CS Interior Wall Protection Products.
 - Assemblies = Brackets, Hardware
 - Accessories = Primer, Adhesive, Caulk, Trims & Moldings

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., 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493; email: cet@csgroup.com
- B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. drawings and specifications unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

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 with nominal .075" (1.90mm) thickness for models HRW-20, HRW-20S and HRW-20V or 6105-T5 alloy with nominal .075" (1.90mm) thickness for models HRW-20CM, HRW-20SCM and HRW-20VCM. Minimum strength and durability properties as specified in ASTM B221.
- C. Stainless Steel: Shall be fabricated from type 304 stainless steel with a #4 satin finish for models HRW-20S and HRW-20SCM.
- D. Fasteners: All fasteners to be non-corrosive and compatible with wood. All necessary fasteners to be supplied by the manufacturer.

2.03 Handrails

- A. Wood Handrails to be CS Acrovyn: Surface mounted assembly consisting of wood handrail mounted to wall with matching wood blocks. Attachment hardware shall be appropriate for wall construction.
 1. Model HRW-20 4-1/2" (114.3mm) high solid wood handrail with field mitered ends. Rail mounted on matching wood brackets with concealed, patented Acrovyn Quick Lock™ fasteners for easy installation. Specify HRW-20S for optional 1/8" (3.2mm) wide stainless-steel strip; supplied to field verified dimensions with factory-installed end caps only. Specify

HRW-20V for optional feature insert, select from Acrovyn solid colors (limited options). Specify HRW-20CM, HRW-20SCM or HRW-20VCM for optional ligature resistant mounting bracket. Select from Renaissance™ Wood species and finishes. Optional factory mitered ends available.

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.

2.05 Fabrication

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