Acrovyn® Wall Covering
.040, .060, .075 Sheet

CS Acrovyn® Sheet with up to 50% Post-Consumer Recycled Content
Suggested Specifications | Section 10 26 00

PART 1 – GENERAL

1.01 SUMMARY
A. This section includes the following types of wall protection systems:
  1. Wall Covering
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”

1.02 REFERENCES
A. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)
B. American Society for Testing and Materials (ASTM)
C. Underwriters Laboratories (UL)
D. 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 wall covering products.
C. Samples for verification purposes: Submit the following samples, as proposed for this work, for verification of color, texture, pattern, and thickness:
  1. Sample of each product specified available in 4” x 4” standard size. Available colors: solid, woodgrain & patterns, Acrovyn by Design® and textures.
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: Provide engineered PVC-FREE wall protection

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system components with UL label indicating that they are identical to those tested in accordance with ASTM E84 for composite (sheet and adhesive) Class A/1 fire performance characteristics listed below:
    1. Flame spread: 25 or less
    2. Smoke developed: 450 or less

E. Impact strength: Provide wall protection components that have been tested for impact using a ram-type impact test in accordance with the applicable provisions of ASTM F476 -84 .

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 CIELab 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.
Indoor Air Quality: Provide material that meets CDPH 01350 v1.2. Wall Protection shall meet the requirements of Intertek's Clean Air Gold Standards for Low-Emitting Products.

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 undamaged packaging in a clean, dry place out of direct sunlight and exposure to the elements. A minimum room temperature of 40ºF (4ºC) and a maximum of 100ºF (38ºC) should be maintained.

C. Materials must be stored flat.

1.06 PROJECT CONDITIONS

A. Materials must be acclimated in an environment of 65-75ºF (18-24ºC) 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 <u>do not</u> include recommended components or accessories
    - 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.
    - Accessories = Primer, Adhesive, Caulk, Trims & Moldings

1.08 SUSTAINABILITY REQUIREMENTS

A. Environmental Product Declaration (EPD):

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- ☐ Provide product-specific, third-party verified Type III EPD in accordance with ISO and EN 15804 or ISO 21930
- ☐ EPD shall disclose, at minimum, cradle-to-gate (A1-A3) impacts

B. Red List Free

- ☐ Provide a Living Building Challenge Declare Label for the product.
- ☐ Product shall be Red List Free as defined by the Living Building Challenge

C. Material Health Transparency:

- ☐ Provide a Health Product Declaration (HPD) in accordance with HPD Open Standard
- ☐ Product shall demonstrate material ingredient transparency to at least 1000 ppm

D. Cradle to Cradle Certified®:

- ☐ Product shall be Cradle to Cradle Certified® Full Scope

E. Indoor Air Quality

- ☐ Product shall meet CDPH Standard Method v1.2 (CA 01350).
- ☐ Product shall be certified to Intertek Clean Air Gold or equivalent low-emitting material standard.

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@c-sgroup.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. Engineered PVC FREE: Rigid sheet should be high-impact Acrovyn (with up to 50% post-consumer recycled content) in standard Suede texture. Chemical and stain resistance should be per ASTM D543 standards as established by the manufacturer.

Note to Specifier – update appropriate section in red below and delete

1. Nominal Thickness: .040" (1.02 mm), .060" (1.52 mm) and (.075" (1.91 mm) Solid color only)

B. Aluminum: Optional aluminum trims to be alloy 6063 T5 with clear or colored anodized finish; minimum strength and durability properties as specified in ASTM B221. The colored anodized finish is available in eight colors and is not covered under 1.04.G.

C. Cured ColorFlex® II Bacteria Resistant Caulk has a Shore A value of greater than 55 (product considered "pick-resistant" based on industry standards) testing conducted by independent lab in accordance with ASTM C661 and ASTM C920.

D. Acrovyn trim offering is available for .040" (1.02mm), .060" (1.52 mm) and .075" (1.91 mm) thickness. Vertical, Wainscot, inside and outside corner trims are available in 10' lengths. Visible trim width is 3/8" (9.53mm).

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2.03 WALL COVERING

A. Engineered PVC FREE rigid sheet to be CS Acrovyn (with up to 50% post-consumer recycled content):

Note to Specifier – update appropriate section in red below and delete

1. Sheet Size:
   - **a)** Suede Texture (standard) 4' x10' (1.2m x 3.0M); 4’ x 8’ (1.2m x 2.4m) also available
   - **b)** Microtexture (optional for select patterns) in .040” thick 4’ x 8’ (1.2m x 2.4m).
   - **c)** Optional textures shall be 43" x 90" or 43” x 114" (1.1m x 2.3m or 2.9m).
2. Finishes:
   - **a)** Select from one of Acrovyn® solid colors: (color name) (color number)
     - **(1)** Other colors will not be accepted as “closest standard color” must match exactly.
   - **b)** or Acrovyn® Woodgrains, Acrovyn® Brushed Metals, or Acrovyn® Strata simulated patterns with post-consumer recycled content: (pattern name) (pattern number)
     - **(1)** Other patterns will not be accepted as “closest standard pattern” must match exactly.
     - **(2)** Standard Acrovyn® Woodgrains, Acrovyn® Brushed Metals, and Acrovyn® Strata sheet size is 4’ x 8’ (1.2m x 2.4m); 4' x 10' (1.2m x 3.0); pattern direction runs parallel to 10' (3.0m) side of sheet.
   - **c)** or Colors to be indicated in the finish schedule from one of manufacturer’s available colors and patterns.
3. Specify color-matched caulk, clear caulk, Acrovyn trims or aluminum trims as needed for joints/transitions.

2.04 FABRICATION

A. General: Fabricate wall covering to comply with requirements indicated for design, dimensions, detail, finish, and sizes.

2.05 FINISHES

A. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applications and designations of finishes.

2.06 ACCESSORIES

A. Adhesive and Primer: Acrovyn wall covering shall be furnished as a complete packaged system, including appropriate standard adhesive.

B. Bacteria Resistant caulk and trims available for purchase. [Specifier note: ColorFlex II bacteria resistant caulk, used to cover seams in Acrovyn sheet installation, is resistant to bacteria/mold when subjected to ASTM G21 & ASTM G22 requirements. ZERO bacteria or fungal growth was observed.]

PART 3 – EXECUTION

3.01 EXAMINATION

A. Verification of conditions: Examine areas and conditions under which work is to

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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. Minimum Level 3 wall finish is required; for surfaces with Level 5 finish, ensure the surface and any surface coatings are fully dry and cured.

B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer's installation instructions.

C. 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 approved adhesive. Note there are special installation instructions for non-standard conditions: radius walls, tile, CMU block, etc.

B. Temperature at the time of installation must be between 65-75ºF (18-24ºC) and be maintained for at least 48 hours after the installation to allow for proper adhesive set-up.

C. Relative humidity shall not exceed 80%.

D. Do not expose wall covering to direct sunlight during or after installation. This will cause the surface temperature to rise, which in turn will cause bubbles and delamination.

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.

END OF SECTION

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