

## Part 1 - General

### 1.01 - SUMMARY

- A. Rigid vinyl wall sheet for wall protection and decoration.

### 1.02 - SECTION INCLUDES

- A. wX10 Series, Rigid Vinyl Wall Sheet
- B. The following sections contain product info related to this section:
  1. Corner Guards, Handrails, Wall Guards, Door Protection, Rub Rail, refer to section 10 26 00 "Wall and Door Protection"

### 1.03 - REFERENCES

- A. American Society for Testing and Materials (ASTM)
- B. National codes (IBC, UBC, SBCCI, BOCA and Life Safety)
- C. Society of Automotive Engineers (SAE)
- D. National Fire Protection Association (NFPA)

### 1.04 - SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each type of rigid vinyl wall sheet specified.
- B. Shop Drawings: Mounting details with the appropriate adhesives for specific substrates.
- C. Samples: Verification samples of the rigid vinyl wall sheet, 8" (203mm) square, for each product indicated.
- D. Manufacturer's Installation Instruction: Printed installation instructions for the rigid vinyl wall sheet.
- E. Maintenance Data: Wall protection maintenance data for inclusion in the Division 1 operating and maintenance manuals.

### 1.05 - QUALITY ASSURANCE

- A. Appoint an installer with 3 or more years of experience in installation projects of similar complexity.
- B. Manufacturer has 5 or more years of experience in the production of specified product and reliable product performance.
- C. Assemblies should follow all applicable codes including IBC, UBC, SBCCI, BOCA, and Life Safety.
- D. *Fire Performance Characteristics*: Provide UL classified rigid vinyl wall sheet conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by UL- 723 (ASTM E-84), shall be
  1. Flame Spread: 25 or less
  2. Smoke Developed: 450 or less
- E. *Self Extinguishing*: Provide rigid vinyl wall sheet with a CCI Classification, as tested in accordance with the procedures specified in ASTM D-635-74, Standard Test Method of Burnin and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position, as referenced in UBC 52-4-1988.
- F. *Impact Strength*: Provide rigid vinyl wall sheet materials that have an Impact Strength value of 15 ft-lbs/in as tested in accordance with the procedures specified in ASTM D-256, Notched Izod Test.
- G. *Chemical and Stain Resistance*: Provide rigid vinyl wall sheets that show resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
- H. *Fungal and Bacterial Resistance*: Provide rigid vinyl wall sheet that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
- I. *Color Consistency*: Provide components matched in accordance with SAE J-1545—(Delta E) with a color difference

no greater than 3.0 units using CIE Lab, CIE CMC, CIE Lch, Hunter Lab or similar color space scale systems.

### 1.06 - DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in unopened factory packaging to the jobsite.
- B. Inspect materials at time of delivery to assure that specified products have been received.
- C. Store in original packaging in a climate controlled location away from direct sunlight and from exposure to the elements. Maintain a minimum room temperature of 40°F and a maximum of 100°F.
- D. Store material flat and do not stack.

### 1.07 - PROJECT CONDITIONS

- A. Environmental Requirements: Products must be acclimated to a temperature of 65°F to 75° F for at least 24 hours before beginning installation.
- B. Install products in an enclosed and weatherproofed area of the same temperature.

### 1.08 - WARRANTY

- A. Standard Wallprotex limited lifetime warranty against material and manufacturing defects.

## Part 2 - Products

### 2.01 - MANUFACTURER

- A. Acceptable Manufacturer: Wallprotex, 3750 Ohio Ave., St. Charles, IL 60174, Phone: 877-880-8115, www.wallprotex.com
- B. Substitutions: Not permitted.
- C. Provide all rigid vinyl wall sheet and wall protection from a single source.
- D. All products are to be manufactured in the USA.

### 2.02 - MANUFACTURED UNITS

- A. wX10 Series, Rigid Vinyl Wall Sheet
  1. Wallprotex Vinyl Wall Sheet Options:
    - 4'x8' (1.22m x 2.44m), .040" (1mm)
    - 4'x8' (1.22m x 2.44m), .060" (1.5mm)
    - 4' x 10' (1.22m x 3.04m), .040" (1mm)
    - 4' x 10' (1.22m x 3.04m), .060" (1.5mm)
    - Custom sizes
  2. Accessories
    - Vinyl Edge Trim (for Wainscot applications)
    - Vinyl Joint Trim
    - Vinyl Inside Corner Trim
    - 3/4" x 3/4", 1-1/8"x1-1/8", 1-1/2"x1-1/2", 2"x2", 2-1/2"x2 1/2", or
- B. 3"x3" Vinyl Corner Guard for Outside Corners

### 2.03 - MATERIALS

- A. Vinyl/Acrylic: The wall sheet shall be made of a impact resistant, abrasion resistant, and stain and chemical resistant polyvinyl chloride/acrylic alloy with a class 1-A fire rating.

### 2.04 - ACCESSORIES

- A. Edge trim, joint trim, inside corner trim, and outside corner guards to be made of extruded vinyl.

### 2.05 - FABRICATION

- A. Fabricate wall sheet systems according to design, dimensions, detail, and finish per plans and specifications.

### 2.06 - FINISHES

- A. Colors of the rigid vinyl wall sheet to be selected by the architect from Wallprotex palette. Surface must have a haircell texture.



- B. Accessories made of vinyl to be of a matching Wallprotex color.

**Part 3 – Execution****3.01 – EXAMINATION**

- A. Prior to installation, examine areas and conditions in which the wall sheet systems will be installed for defects, damage, or incomplete site preparation.
- B. Complete all finishing operations, including painting, before beginning installation of the wall sheet system. New paint must be allowed to cure for an appropriate amount of time according to the paint manufacturer before wall sheet system is installed.
- C. Do not install wall sheet if wall surface is not adequately prepared.

**3.02 – PREPARATION**

- A. Prior to installation of the wall sheet, clean substrate to remove dust, debris, grease, or any loose particles.

**3.03 – INSTALLATION**

- A. Locate the rigid vinyl wall sheet as indicated on the approved shop drawing for the appropriate substrate. Install wall sheet flush and tight at the height indicated on the appropriate drawing, with surfaces free from distortion or other defects in appearance.
- B. Use the approved mounting hardware.
- C. Install all rigid vinyl wall sheet systems in accordance and compliance with Wallprotex installation instructions. Failure to do so, and or the use of non-recommended adhesives will void any and all warranty of the materials.

**3.04 – CLEANING**

- A. At completion of the installation, clean surfaces in accordance with the Wallprotex cleanup and maintenance instructions.
- B. Remove extra materials and debris accumulated from installation.

