

## Part 1 – General

### 1.01 – SUMMARY

A. Rigid PETG wall sheet for wall protection and decoration. **1.02 – SECTION INCLUDES**

- A. wX10 Series, Rigid PETG 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)
- E. American National Standards Institute (ANSI)

### 1.04 – SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each type of rigid PETG wall sheet specified.
- B. Shop Drawings: Mounting and installation details with the appropriate installation methods and materials.
- C. Samples: Samples of the rigid PETG wall sheet in 8" (203mm) square in any color for texture verification. Color chips provided for color verification.
- D. Manufacturer's Installation Instruction: Printed installation instructions for the rigid PETG 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 PETG wall sheet conforming with NFPA Class A fire rating. Surface burning characteristics, as determined by UL723 (ASTM E84), shall be
  1. Flame Spread: 25 or less
  2. Smoke Developed: 450 or less
- E. *Impact Strength*: Provide rigid PETG wall sheet materials that have an Impact Strength value of 19 ft-lb/in as tested in accordance with the procedures specified in ASTM D256, Notched Izod Test.
- F. *Chemical and Stain Resistance*: Provide rigid PETG wall sheets that show resistance to stain when tested in accordance with applicable provisions of ASTM D543.
- G. *Fungal and Bacterial Resistance*: Provide rigid PETG wall sheet that does not support fungal or bacterial growth as tested in accordance with ASTM G21 and ASTM G22.
- H. *Color Consistency*: Provide components matched in accordance with SAE J1545—(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](http://www.wallprotex.com)
- B. Substitutions: Not permitted.
- C. Provide all rigid PETG 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 PETG Wall Sheet
  1. Wallprotex PETG Wall Sheet Options:
    - 4'x8' (1.22m x 2.44m), .040" (1mm)
    - 4'x8' (1.22m x 2.44m), .060" (1.5mm)
- B. Custom sizes
  1. Accessories
    - Edge Trim
    - Joint Trim
    - Inside Corner Trim
    - Outside Corners

### 2.03 – MATERIALS

- A. PETG: The wall sheet shall be made of a impact resistant, abrasion resistant, and stain and chemical resistant PETG

### 2.04 – ACCESSORIES

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

### 2.05 – FABRICATION

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

### 2.06 – FINISHES

- A. Colors and textures of the rigid PETG wall sheet to be selected by the architect from Wallprotex palette.
- B. Accessories made of PETG to be of a matching Wallprotex color.
- C. Custom color matching available upon request.

## 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 PETG 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. With the appropriate trowel profile, adhere the wall sheet to the substrate with XT-2000+, following all instructions provided by the adhesive manufacturer. Ensure that the adhesive pattern is even and provides channels for air to pass through before beginning the curing time period. Be sure to follow all instructions for tack time, cure time, and material application, according to the substrate and site conditions. Apply the wall sheet and immediately roll it out with laminate rollers.
- C. Install all rigid PETG 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.

