

► 5-1/2" Handrail

Part 1 – General

1.01 – SUMMARY

- A. Handrail system for wall protection and decoration.

1.02 – SECTION INCLUDES

- A. WX7 Series, Handrail System
- B. The following sections contain product info related to this section:
 1. Corner Guards, Wall Covering, 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. Americans with Disabilities Act (ADA)

1.04 – SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each type of handrail specified.
- B. Shop Drawings: Mounting details with the appropriate fasteners for specific substrates.
- C. Samples: Verification samples of the handrail, 8" (203mm) long, in full size profiles for each product indicated.
- D. Manufacturer's Installation Instruction: Printed installation instructions for each handrail.
- 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* (PETG only): Provide UL classified wall guards conforming with NFPA Class A fire rating. Surface burning characteristics, as tested in accordance with UL 723 (ASTM E-84) shall be as follows:
 1. Flame Spread: 0
 2. Smoke Developed: 135
- E. *Impact Strength*: Provide plastic profile materials that have been tested in accordance with the procedures specified in ASTM D-256, Notched Izod Test and have the following Impact Strength values:
 1. 1.8 ft-lbs/in or greater (PETG only)
 2. 19 ft-lbs/in or greater (Vinyl only)
- F. Chemical and Stain Resistance: Provide handrail that shows resistance to stain when tested in accordance with applicable provisions of ASTM D-543.
- G. Fungal and Bacterial Resistance: Provide material that does not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22.
- H. 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 handrails and wall protection from a single source.
- D. All products are to be manufactured in the USA.

2.02 – MANUFACTURED UNITS

- A. PETG or Vinyl Handrail Profile
 1. WX7 Series, 5-1/2" (140mm) height, 1-1/2" (38mm) hand grip handrail, extending 3" (76mm) from the wall.
 2. Standard Length: 12'.

2.03 – MATERIALS

- A. PETG: Snap on cover of .080" (2mm) thickness shall be extruded from chemical and stain resistant PETG.
- B. Vinyl: Snap on cover of .080" (2mm) thickness shall be extruded from chemical and stain resistant polyvinyl chloride. No plasticizers shall be added.
- C. Snap on impact bumper of .080" (2.0mm) thickness shall be extruded from 100% recycled material.
- D. Aluminum: Continuous aluminum retainer of .080" (1.8mm) thickness shall be fabricated from 6063-T5 aluminum with a mill finish.

2.04 – ACCESSORIES

- A. End caps, inside corners, outside corners, stand offs, and brackets shall be made of molded thermoplastics.
- B. Fasteners may be provided for standard drywall and steel stud wall installations. Manufacturer will provide appropriate fasteners if required.
- C. Fasteners to meet ADA Guideline 4.26.3, ASTM A-307, and Federal Specification FF-B-588-D requirements.

2.05 – FABRICATION

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

2.06 – FINISHES

- A. Covers: Colors of the handrail to be selected by the architect from Wallprotex palette. Surface shall have a haircell texture.



- B. Molded Components: End caps, inside corners, outside corners, stand offs, and brackets shall be of a color matching the handrail. Surface shall have a haircell texture unless otherwise specified by the manufacturer.

Part 3 – Execution**3.01 – EXAMINATION**

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

3.02 – PREPARATION

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

3.03 – INSTALLATION

- A. Locate handrail as indicated on the approved shop drawing for the appropriate substrate. Install handrail 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 handrail systems in accordance and compliance with Wallprotex installation instructions.

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.

