

SECTION 10260 HIGH-IMPACT HANDRAILS: TRANSITIONAL

SUGGESTED SPECIFICATIONS

PART 1 – GENERAL

1.01 Summary

- A. Wall Protection Systems to include:
 - 1. High-Impact Handrails
- B. Related Sections
 - 1. Wall blocking between framing studs for mechanical fasteners: Section 09250 Gypsum Board Systems

1.02 References

- A. American Society for Testing and Materials (ASTM)
- B. National Fire Protection Association (NFPA)
- C. Uniform Building Code (UBC)

1.03 Submittals

- A. Product Data for each type of handrail specified
- B. Test Data detailing compliance with specifications
- C. Detail Drawings depicting product dimensions, accessories, installation methods, and accessories
- D. Installation Instructions detailing in writing manufacturer's recommended installation methods for all types of wall construction and substrates
- E. Maintenance Instructions outlining manufacturer's recommended cleaning, refinishing and repair instructions
- F. Product Samples to include each type of handrail specified, and samples of manufacturer's standard colors and patterns
- G. Manufacturer's Statement of Warranty

1.04 Warranty

- A. Manufacturer to provide 10-year warranty against structural failure and 10-year warranty on finish, as per manufacturer's terms and conditions

1.05 Quality Assurance

- A. Code compliance: Provide handrails that comply with the following requirements of regulatory agencies and the quality control of Kwalu
- B. Fire Performance Characteristics: Handrails to conform with NFPA Class A fire rating, and surface burning characteristics, as determined by ASTM E-84 (Steiner tunnel test), shall be a flame spread of 0-25 and smoke development of 350-450
- C. Self-Extinguishing: Handrails to have a CC1 classification, as referenced in UBC 52-4-1988 and tested in accordance with ASTM D-635-74, Standard Test Method for Rate of Burning of Self-Supporting Plastics in a Horizontal Position
- D. Impact Strength: Provide handrails that have an impact strength of 30.2 ft-lbs/inch of thickness, as specified in ASTM D-256-

- 90b, Impact Resistance of Plastics
- E. Chemical Stain Resistance: Provide handrails that are resistant to staining when tested in accordance with applicable provisions of ASTM D-543
- F. Fungal and Bacterial Resistance: Provide handrails that do not support fungal or bacterial growth as tested in accordance with ASTM G-21 and ASTM G-22
- G. Single Source Responsibility: Provide all wall protection systems and components manufactured by the same company to ensure compatibility of color, texture, and other properties

1.06 Delivery, Storage and Handling

- A. Deliver materials to the jobsite in unopened factory packaging
- B. Inspect materials upon delivery to ensure that all specified product components and accessories received in good condition
- C. Store material flat in original packaging in a climate controlled location, away from direct sunlight

1.07 Project Conditions

- A. Materials must be acclimated to project conditions between 65°F and 80°F at least 24 hours prior to installation
- B. Install wall protection systems only after the facility's permanent environmental conditions have been established

PART 2 – PRODUCTS

2.01 Manufacturer

- A. Kwalu LLC, Ridgeland, SC 29936, Phone: 877-MY-KWALU (695-9258), Fax: 843-726-9230, website: kwalu.com
- B. Substitutions: Not permitted
- C. Provide all wall protection products and components from a single manufacturer

2.02 Materials

- A. Acrylic/polyvinyl chloride co-polymer: Extruded material to be high-impact resistant, stain and chemical resistant
- B. Particle board: Class A fire-rated

2.03 Manufactured Units

- A. Handrail components to be manufactured with a simulated wood grain. The surface finish shall be repairable in the field following manufacturer's repair procedures so that there is no discernible damage. Surface printing methods strictly prohibited.
- B. Kwalu handrail to be Transitional Style, Model HRT, with 1 3/8" diameter polymer extrusions on top and bottom
 - 1. Height of handrail system to be 6"
 - 2. Pattern/color of round polymer extrusions to be chosen by architect from

- manufacturer's many wood grain patterns
- 3. Pattern/color of flat polymer extrusion covering center section to be chosen by architect from manufacturer's many wood grain patterns
- 4. Mounting brackets are manufactured with wood grained polymer to match top rail

PART 3 – EXECUTION

3.01 Examination

- A. Verify that all wall surfaces are properly prepared to receive installation of handrails
- B. Complete all other finish operations prior to installing wall protection systems, including painting

3.02 Preparation

- A. Clean all wall surfaces and substrates to remove dust, debris, and loose paint

3.03 Installation

- A. Install all wall protection components in strict accordance with manufacturer's printed installation instructions

3.04 Cleaning

- A. Clean all wall protection components in strict accordance with manufacturer's cleaning instructions



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