

# Pinger Wood Grip+Stainless Steel Bottom Handrails HRWS175 Suggested Specifications

## PART 1 – GENERAL

### 1.01 SUMMARY

- A. Handrail systems for pedestrian safety and wall protection

### 1.02 SECTIONS INCLUDES

- A. HRWS175 Handrail System, Solid Wood Grip with integrated Stainless Steel Bumper Cover.

### 1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide handrail systems that conform to the following requirements of regulatory agencies and the quality control of Wall Protection Systems, Pinger.
  - 1. **Fire Performance Characteristics:**Conforms with EN 13501-1 Class B fire rating.Flame Spread and Smoke:Tested in accordance with ASTM E84, Class A. Smoke concentration is fully qualified, non-toxic, and exhibits no dripping during combustion.
  - 2. **Fungal and Bacterial Resistance:**Manufactured with a silver-ion-infused resin matrix that effectively Inhibits surface fungal growth and pathogenic organisms such as *Escherichia coli* and *Staphylococcus aureus*.Tested and certified in accordance with **JIS Z 2801:2010**.
  - 3. **Mould Proof:** Rated as **Excellent** under ASTM G21-15. Provides superior moisture-proof and mildew-proof performance, inhibiting the growth of *Aspergillus brasiliensis*, *Penicillium funiculosum*, *Chaetomium globosum*, and *Trichoderma viride*.
  - 4. **Horizontal Burning:** Tested in accordance with the procedures specified in UL 94HBStandard Test Method for Rate of Burning and/or Extent and Time of Burning of Self Supporting Plastics in a Horizontal Position).
  - 5. **Impact Strength:** Engineered with rigid vinyl profile materials providing high impact Resistance tested to 1kg drop impact) in accordance with **ASTM D256-10EL** and **GB 8624-2012**.
  - 6. **LEED, LCA & IAQ Compliance & Green Sustainable**
    - a. **LEED & Green Building Contribution:** Formulated to support sustainable design credits, contributing directly to **LEED Leadership in Energy and Environmental Design**) certification requirements for low-emitting materials and recycled content.
    - b. **Life Cycle Assessment LCA):** Evaluated through a comprehensive Life Cycle Assessment to ensure minimized environmental footprints, optimized resource efficiency, and extended durability that prevents premature replacement waste.

Guangzhou Pinger Vinyl Material Co.Ltd

No. 30, Zhuning Road, Yongning Sub-district, Zengcheng  
District, Guangzhou City,China  
[www.pingerpanel.com](http://www.pingerpanel.com)



# Pinger Wood Grip+Stainless Steel Bottom Handrails HRWS175 Suggested Specifications

- c. **FSC & Sustainable Sourcing:** Supporting responsible material lifecycle management and eco-friendly manufacturing frameworks.
  - d. **Zero Toxic Emissions & Formaldehyde-Free:** Contains no hazardous toxic gases; formaldehyde levels meet strict qualification standards with zero off-gassing upon installation.
  - e. **Low-VOC Certifications:** Rigorously tested for TVOC compliance under **ISO 16000-3/-6/-9** and **SGS CA CDPH 01350** standards.
- 7. **Chemical Resistance & Stain Proofing:** Features a robust, waterproof, anti-pollution surface that resists staining and is exceptionally easy to clean. Staining test verified in accordance with **EN 423:2001**.
  - 8. **ISO Certified Quality Standards:** Manufactured under ISO 9001, ISO 14001, and ISO 45001 certified management systems, meeting international emission and quality standards for low-emitting architectural products.
  - 9. **Chemical and Corrosion Resistance:** Tested in accordance with ASTM D543-14, ASTM D2240-15, and ASTM D638-14. Exhibits a low coefficient of thermal expansion and contraction with minimal dimensional change under varying temperatures. Highly resistant to most acids, alkalis, salts, alcohols, iodine, vegetable oil, and commercial disinfectants.
  - 10. **Heavy Metal Free:** Guaranteed free from lead, cadmium, and other toxic or hazardous heavy metals. Certified compliant under **California Proposition 65 CA65**) heavy metal testing.
  - 11. **Durability & Easy Installation:** Highly durable, wear-resistant, and scratch-resistant surface that prevents dust and dirt accumulation for low-maintenance upkeep. Designed for flexible, quiet, and efficient installation: can be direct-glued to substrates, mechanically secured via steel sub-framing, or installed using modular assembly techniques.

## 1.04 SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each product indicated in this section.
- B. Detail Drawings: Mounting details with appropriate fasteners for specific project substrates.
- C. Samples: Verification samples of handrail, 10" (254mm) long, in full size profiles with mounting brackets of each type indicated.
- D. Manufacturer's Installation Instructions: Printed installation instructions for each handrail.

## 1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in unopened factory packaging to the jobsite.
- B. Inspect materials at delivery to assure that specified products have been received.

**Guangzhou Pinger Vinyl Material Co.Ltd**

No. 30, Zhuning Road, Yongning Sub-district, Zengcheng  
District, Guangzhou City, China  
[www.pingerpanel.com](http://www.pingerpanel.com)



# **Pinger Wood Grip+Stainless Steel Bottom Handrails HRWS175 Suggested Specifications**

- C. Store in original packaging in a climate controlled environment away from direct sunlight.

## **1.06 WARRANTY**

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

## **PART 2 – PRODUCTS**

### **2.01 MANUFACTURED UNITS**

- A. Wood/Stainless Handrail HRWS175 Dimensions, Color Options, Series Number)
  - 1. 170mm height x 38mm gripping diameter, system extends 76mm from the wall. System includes integrated stainless steel Bumper Cover, 102mm high. Wood handrail is manufactured in random 2.44m-4.88m standard lengths. Bumper Cover shall be Satin Finish.

### **2.02 MATERIALS**

- A. Wood: Shall be FSC grade, solid maple with moisture content of 5-9%.
- B. Stainless Steel
  - 1. Stainless steel brackets returns and corners shall be type 201 stainless steel with a brushed finish or a powder coat finish.
  - 2. Stainless steel Bumper Cover shall be manufactured from type 304 stainless steel.
- C. Zinc bracket adapters shall be cast from zinc.

### **2.03 COMPONENTS**

- A. Handrail returns and corners
  - 1. Solid wood grip and a finish to match handrails.
  - 2. Cast stainless steel bumper cover with a brushed satin finish.
- B. Stainless steel brackets shall be type 304 #4 satin finish.
- C. bumper cover shall be fabricated from type 304 stainless steel.
- D. Molded bracket component shall be made of injection molded thermoplastic.
- E. Fasteners: All mounting systems accessories appropriate for substrates indicated on the drawings shall be provided.

### **2.04 FINISHES**

- A. Wood Stain: Color of the handrail wall guard to be selected, by the architect, from the IPC stain selection.
- B. Wood Finish: Handrail shall be finished with two coats of pre-catalyzed finish. Finish shall be a low luster satin finish.
- C. Stainless Steel

**Guangzhou Pinger Vinyl Material Co.Ltd**

No. 30, Zhuning Road, Yongning Sub-district, Zengcheng  
District, Guangzhou City, China  
[www.pingerpanel.com](http://www.pingerpanel.com)



# **Pinger Wood Grip+Stainless Steel Bottom Handrails HRWS175 Suggested Specifications**

1. Bracket Color: Color of the stainless steel bracket to be selected by the architect from the solid color metal tone color palette.
2. Bumper Cover: Stainless steel wall guard shall have a #4 satin finish.
- D. Molded Bracket Components: Molded bracket components shall be of a color matching the bumper cover. Surface shall have a pebble texture.

## **PART 3 – EXECUTION**

### **3.01 INSTALLERS**

- A. Installer should be familiar with the installation of fine finished wood products.

### **3.02 EXAMINATION**

- A. Examine areas and conditions in which handrail will be installed.
  1. Complete all finishing operations, including painting, before beginning installation of handrail system materials.
  2. Wall surface shall be dry and free from dirt, grease and loose paint.

### **3.03 PREPARATION**

- A. Surface Prep: Prior to installation, clean the substrate to remove dust, debris and loose particles. Ensure the substrate is sound and per project plans.
- B. The area of installation must temperature and humidity controlled for at least 48 hours after installation.

### **3.04 INSTALLATION**

- A. General: Locate the handrail as indicated on the approved detail drawing for the appropriate substrate and in compliance with the IPC installation instructions. Install handrail level and plumb at the height indicated on the drawings.

### **3.05 CLEANING**

- A. At completion of the installation, clean surfaces in accordance with the IPC clean-up and maintenance instructions.

**Guangzhou Pinger Vinyl Material Co.Ltd**

No. 30, Zhuning Road, Yongning Sub-district, Zengcheng  
District, Guangzhou City, China  
[www.pingerpanel.com](http://www.pingerpanel.com)

