

Pinger WG61 SERIES Wall Guard

Suggested Specifications

PART 1 – GENERAL

1.01 SUMMARY

- A. Arc shape Wall Guard system for pedestrian safety and wall protection

1.02 SECTION INCLUDES

- A. WG61 SERIES Wall Guard System

1.03 QUALITY ASSURANCE

- A. Performance Requirements: Pinger Rigid PETG Sheet systems that conform to the following requirements of regulatory agencies and the quality control of Wall Protection Systems, Pinger.

- 1. Fire Performance Characteristics:

- Provide handrails conforming with EN13501 - 1 Class B fire rating.
 - FLAME SPREAD AND SMOKE: ASTM E84, CLASS A, The smoke concentration is qualified, non-toxic, and there is no dripping when burning.

- 2. Fungal and Bacterial Resistance:

- The resin material is rich in silver ions, inhibiting the fungal growth on the surface of wall panel, such as the growth of pathogenic organisms such as Escherichia coli, staphylococcus aureus. Antibacterial proof: JIS Z2801:2010.

- 3. Mould Proof:

- ASTM G21-15, Excellent, moisture-proof and mildew-proof, inhibit aspergillus brasiliensis, penicillium rope, short-stemmed sprouted mould, bulbous hairy shell and trichoderma viride.

- 4. Horizontal burning:

- As tested in accordance with the procedures specified in UL94HB, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.

- 5. Impact Strength:

- Provide rigid PETG profile materials that have an Impact Strength of 1kg as tested in accordance with the procedures specified in ASTM D256-10EL, GB8624 -2012, Impact Resistance of Plastics.

- 6. LEED, LCA & IAQ Compliance & Green Sustainable

- a. LEED & Green Building Contribution: Formulated to support

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- 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.
 - 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. Does not stain:
Strong, water proof,easy to clean the surface,Anti-pollution, not easy to dye, Staining test:EN423:2001.
8. ISO Certified:
Provide ISO9001/14001/45001 Certified material. Profiles shall meet the requirements of ISO9001/14001/45001 Certification Standards for Low-Emitting Products and ISO9001/14001/45001 Product Emission Standard.
9. Chemical and CORROSION Resistance:
Tested according to ASTM D 543- 14/ASTM D2240- 15/ASTM D638- 14,Excellent, small coefficient of thermal expansion and cold contraction, and almost no change in temperature size.,Antibacterial and bacteriostatic, effectively resisting most acids, alkalis, salts, alcohols,Corrosion of iodine, vegetable oil, liquor, etc.
10. No heavy metals:
Does not contain lead, cadmium and other toxic and harmful heavy metals,Heavy Metal Test:CA65
11. Durable and easy to install:
Durable,Wear-resistant, not easy to scratch the surface, dirt, dust ,Not easy to attach, not fouling, simple maintenance.Convenient construction, construction, no noise.Can be glued on the keel, can also be hung on

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the keel by steel, and can also be used for assembly installation.

1.04 SUBMITTALS

- A. Product Data: Manufacturer's printed product data for each type of wall guard specified.
- B. Detail Drawings: Mounting details with the appropriate fasteners for specific project substrates.
- C. Samples: Verification samples of wall guard ,in full size profiles of each type and color indicated.
- D. Manufacturer's Installation Instruction: 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.
- C. Store in original packaging in a climate controlled location away from direct sunlight.

1.06 PROJECT CONDITIONS

- A. Environmental Requirements: Products must be installed in an interior climate controlled environment.

1.07 WARRANTY

- A. Standard Pinger Limited Lifetime Warranty against material and manufacturing defects.

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PART 2 – PRODUCTS

2.01 MANUFACTURED UNITS

A. Arc shape Wall guard *Profile (Dimensions, Color Option, Series Number)*

1. 61mm Height, *extends 15 mm to 80 from floor. Handrail shall be a solid color.*

2.02 MATERIALS

- A. Vinyl Cover: 135degree Arc shape Extruded rigid Vinyl Texture; 2MM thick
- B. Vinyl Retainer strip: Extruded Soft rigid Vinyl strip Texture
- C. Aluminum: Continuous aluminum retainer of .1.80MM(+/-0.2MM), 2mm thickness shall be fabricated from 6063-T5 aluminum with a mill finish.
- D. End cap shall be made of type ABS.

2.03 COMPONENTS

- A. left end cap, right end cap, end cap with faster
- B. Fasteners: All mounting systems accessories appropriate for substrates indicated on the drawings shall be provided, unless installer supplied is indicated.

PART 3 – EXECUTION

3.01 EXAMINATION

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

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3.02 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. Acclimate product in temperatures between 65° F and 80° F [18°-27°C] and a humidity level less than 80% 24 hours in advance of installation.
- C. The area of installation must temperature and humidity controlled for at least 48 hours after installation.

3.03 INSTALLATION

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

3.04 CLEANING

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