Pinger HR51 SERIES Handrails

Suggested Specifications

PART 1 – GENERAL

1.01 SUMMARY

A. Handrail system for pedestrian safety and wall protection

1.02 SECTION INCLUDES

A. HR51 SERIES Handrail System

1.03 QUALITY ASSURANCE

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:
   Provide handrails conforming with EN13501 - 1 Class B fire rating. FLAME SPEAD 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:JISZ2801:2010.
3. Mould Proof:
   ASTM G21-15,Excellent, moisture-proof and mildew-proof, inhibit aspergillius brasiliensis , penicillium rope,short-stemmed sprouted mould,bulbar 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 Vinyl 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. Environmental friendly:
   No any toxic gas, formaldehyde is qualified.You can check in immediately, and there is no need to absorb formaldehyde TVOC:ISO 16000-3-6-9 AND SGS:CA CDPH 01350 -VOC
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:
    Duralble,Wear-resistant, not easy to scratch the surface, dirt, dust ,Not easy to attach, not fouling, simple maintenance.Convenient construction, construction, no noise.

1.04 SUBMITTALS

A. Product Data: Manufacturer's printed product data for each type of handrail specified.
B. Detail Drawings: Mounting details with the appropriate fasteners for specific project substrates.
C. Samples: Verification samples of handrail,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.

PART 2 – PRODUCTS

2.01 MANUFACTURED UNITS

A. *Handrail Profile (Dimensions, Color Option, Series Number)*

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Suggested Specifications

1. 51*mm gripping diameter, extends 38mm from wall. Handrail shall be a solid color. - HR511 Handrail*

2.02 MATERIALS

A. Vinyl: Extruded rigid Vinyl Texture ; 2MM thick

B. Aluminum: Continuous aluminum retainer of .1.85MM(+/-0.2MM) thickness shall be fabricated from 6063-T5 aluminum with a mill finish.

C. Brackets shall be made of type ABS/S.S.

2.03 COMPONENTS

A. left end cap,right end cap,outside end cap and s.s bracket 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.

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.

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