

Pinger Rigid PETG Wall Sheet

Suggested Specifications

PART 1 - GENERAL

1.01 SUMMARY

- A. Pinger Rigid PETG Sheet for wall protection and decoration
- B. PETG Wall panel, Antibacterial, Fired proof, Green and environmental protection, crash proof, wareproof, surface cleanly finished, mould proof, insert prevention, ageing resistant and 100% recycling
- C. Fired proof, medical used antibacterial non phthalate and non harmful PETG material.

1.02 SECTION INCLUDES

- 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 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 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.

1.03 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.

1.04 PROJECT CONDITIONS

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

1.05 WARRANTY

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

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

A. Rigid PETG Sheet

1. Thickness

0.8mm, 1mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm

2. Size:

4' x 8' (1.22m x 2.44m) sheet- thickness, .040" (1mm)

4' x 9' (1.22m x 2.8m) sheets - thickness, .030" (.8mm), .040" (1mm), .060" (1.5mm)

Custom sizes - available

Backing - unbacked

3. Surface Finished

Lightly Texture(A),Weave Effect(B),Suede Grain(C),Coarse

Texture(D),Matte Smooth(G),Starburst pattern(H),Flax Surface(M),Basket weave(O),Leather Effect(P),Wood Effect(S)

B. Accessories

1. PETG

Top Cap; Length: 9' (2.8m) standard,

Vertical Divider Bar; Length: 9' (2.8m) standard,

Inside Corner; Length: 8' (2.44m) standard, 10' (3.04m) available

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Outside corner for .Length: 9' (2.8m) standard,
2. Aluminum
Aluminum Top Cap; Length: 2.8m standard,
Aluminum Vertical Divider Bar; Length: 2.8m standard,
Aluminum Inside Corner; Length: 2.8m standard,
Aluminum Outside Corner; Length: 2.8m standard.
3. Color Matched Caulk

2.02 MATERIALS

A. PETG: Pinger Rigid PETG Sheet shall be manufactured from chemical and stain resistant polyPETG chloride with the addition of impact modifiers. No plasticizers shall be added (plasticizers may aid in bacterial growth).

2.03 FINISHES

A. Color or pattern of PinGer® Rigid PETG Sheet to be selected by the architect from the PinGer® Rigid PETG Sheet finish selection. Surface shall have a velvet texture.
B. PETG Accessories: Top caps, inside corners, divider bars and outside corners shall be of a color matching the PinGer.
D. Aluminum Accessories: Top caps, inside corners and divider bars shall be clear anodized.

PART 3 - EXECUTION

3.01 EXAMINATION

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

3.02 PREPARATION

A. General: Prior to installation, clean substrate to remove dust, debris and loose particles.

3.03 INSTALLATION

A. General: Locate the Pinger Rigid PETG Sheet as indicated on the approved detail drawing for the appropriate substrate and in compliance with

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the Pinger installation instructions. Install 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.