Outdoor Wpc Wall Panel With Concealed Lighting And Customizable Width Waterproof

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: HB-DECOR
- Certification: FSC、LEED、GREENGUARD
- Minimum Order Quantity: 100m²
- Price: Negotiable
- Delivery Time: 10days after receive deposit
- Payment Terms: L/C,T/T,D/A,D/P,Western Union,MoneyGram
- Supply Ability: 40CONTAINERS PER MONTH

Product Specification

- Product Name: Outdoor Wpc Wall Panel
- Application: Concealed Lighting Walls
- Length: Customizable
- Flute Depth: 3mm , 5mm , Etc
- Thickness: 10mm , 12mm , 15mm , 20mm , Etc
- Widt: 100mm-300mm   Customizable
- Texture: Wood Grain , Matte , Glossy , Relief , Etc
- Waterproof Rating: Water Absorption Rate <0.5%
- Eco-Certifications: FSC、LEED、GREENGUARD
- Material: WPC
- Highlight: **Customizable Width Wpc Wall Panel**,
  Waterproof Wpc Wall Panel,
  Outdoor Wpc Wall Panel

Product Description

Outdoor Wpc Wall Panel Wpc Board Wall Paneling Concealed Lighting Walls

Engineered for premium outdoor applications, HB's WPC wall panel system combines durable cladding with innovative concealed lighting solutions. Our 18mm thick, high-density panels feature:
• Weatherproof Construction - IP65 rated lighting channels
• Dual-Function Design - Seamless integration of cladding and illumination
• Material Performance - 0.03% water absorption, Class A fire rating
The system includes pre-routed channels for LED strip installation, with optional dimmable controls and color temperature adjustment (2700K-6500K).

Specification

Category	Parameter	Specification
Material Composition	Wood Fiber Content	60-65%
	Polymer Matrix	HDPE + PP Composite
	Additives	UV Stabilizers, Fire Retardants, Fungicides
Physical Properties	Density	1.25-1.35 g/cm³
	Water Absorption	≤0.3% (24h immersion)
	Thermal Expansion	0.07-0.12 mm/m·°C (20-60°C)
Mechanical Performance	Flexural Strength	≥25 MPa
	Impact Resistance	≥8 kJ/m²
Fire Performance	Fire Rating	B-s1,d0 (EN 13501-1)
	Flame Spread	Class C (ASTM E84)
Weather Resistance	UV Stability	ΔE≤3 after 3000h QUV
	Freeze-Thaw Cycling	No cracking after 50 cycles
Dimensions	Panel Width	150/200/250 mm (±0.5mm)
	Panel Length	2400-6000 mm (customizable)
	Thickness	12/15/20 mm (±0.3mm)
	Flute Depth	3/5/8 mm (±0.2mm)
Installation	Mounting System	Hidden Clip/Aluminum Rail
	Maximum Span	600mm (20mm thickness)
Certifications	Environmental	FSC, LEED compliant
	Quality	ISO 9001, ISO 14001

Application

Commercial & Hospitality:
✔ Hotel Facade Accent Lighting
✔ Restaurant Outdoor Feature Walls
✔ Retail Storefront Branding Walls
Landscape Architecture:
✔ Garden Perimeter Illuminated Partitions
✔ Poolside Ambient Lighting Walls
✔ Pathway Guidance Screens
Urban Design:
✔ Public Plaza Decorative Partitions
✔ Transit Station Wayfinding Walls
✔ Building Entrance Light Canvases
Residential Premium:
✔ Luxury Villa Perimeter Lighting
✔ Rooftop Terrace Mood Walls
✔ Smart Home Control Surfaces