



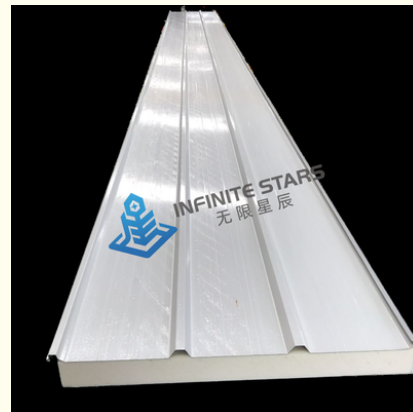
Strong Color Steel Sandwich Panel PU 50 Type Environmental Protection Energy Saving

Our Product Introduction

for more products please visit us on prefabricated-containerhouses.com

Basic Information

- Place of Origin: china
- Brand Name: INFINITE STARS
- Certification: CE/ISO9001/ISO45001/ISO14001
- Model Number: B
- Minimum Order Quantity: 7 Sets
- Payment Terms: L/C, T/T
- Supply Ability: 100000 /day



Product Specification

- Surface Treatment: PE/PVDF/PVC/Embossed
- Material: Color Steel
- Wind Resistance: $\geq 120\text{km/h}$
- Water Absorption: $\leq 1\%$
- Core Material: EPS/XPS/PU/Rock Wool/Glass Wool
- Length: Customized
- Color: Customized
- Compressive Strength: $\geq 150\text{kPa}$
- Sound Insulation: $\geq 20\text{dB}$
- Thickness: 50mm/75mm/100mm/150mm/200mm
- Thermal Conductivity: 0.024-0.028W/mK
- Name: Color Steel Sandwich Panel
- MOQ: 7 PCS
- Highlight: Strong Color Steel Sandwich Panel, Color Steel Sandwich Panel PU 50 Type, 50 PU Sandwich Panel



More Images



Product Description

The Advantages and Applications of PU Panels

PU panels, also known as polyurethane panels, are made from polyurethane materials. They offer numerous advantages and find widespread applications in various industries.

Advantages:

Excellent Thermal Insulation: PU panels have extremely low thermal conductivity, meaning they can achieve the same level of insulation with a significantly thinner thickness compared to other materials, reducing the burden on buildings.

Good Waterproofing: PU panels have a closed-cell structure with a high closed-cell rate of over 90%, effectively preventing water penetration. They maintain their structural and insulation properties even in humid environments.

High Strength and Long Service Life: Compared to other insulation materials, PU panels exhibit higher strength and hardness, able to withstand significant loads without deformation or damage. With proper use and maintenance, they can last for over 30 years, offering significant economic benefits.

Chemical Resistance: PU panels are resistant to most acids and alkalis, maintaining their stability even in harsh environments and resisting aging.

Environmental Friendliness and Energy Efficiency: The production process of PU panels does not require the use of CFCs (chlorofluorocarbons), making them environmentally friendly. Their excellent insulation properties also help reduce energy consumption.

Applications:

Construction: PU panels are widely used in the construction industry for their sound and thermal insulation properties. They can be used as wall insulation materials to improve the insulation effect of buildings, or as flooring materials to enhance comfort.

Cold Chain Logistics: PU panels are essential in cold storage facilities, refrigerated vehicles, and refrigerated containers for cold chain logistics. Their excellent insulation and corrosion resistance ensure the quality and safety of goods.

Medical Devices: PU materials are used in medical devices such as artificial kidneys due to their special structure, making them the ideal sealing material for hollow fiber bundles. Research is also ongoing for applications in artificial hearts and skin.

Electronics: PU panels offer excellent wear resistance, making them suitable for use as adhesives in products like audio tapes, recharge cards, and recording media. They help prevent wear and improve recording density.

Clothing and Apparel: PU panels are widely used in clothing items that require good elasticity, such as skiwear and swimwear. They provide both flexibility and comfort.

In addition, PU panels also find applications in furniture manufacturing, pipe insulation, industrial materials, daily necessities, agriculture, greenhouse cultivation, aerospace, transportation, and many other fields.

Parameter Category	Parameter Details
Size Specifications	
Length x Width (mm)	3000×1000, 2400×1200, 1200×600, 600×600 (Other sizes available)
Thickness (mm)	20, 30, 50, 75, 100 (Other thicknesses available)
Physical Properties	
Density (g/cm ³)	1.15 (Standard PU), 1.25 (High Abrasion Resistance PU)
Hardness (Shore Hardness)	90A (Standard)
Tensile Strength (MPa)	30 (Standard PU), 53 (High Abrasion Resistance PU)
Elongation at Break (%)	445 (Standard PU), 548 (High Abrasion Resistance PU)
Akron Abrasion Loss (cm ³ /1.61km)	0.029 (Standard PU), 0.014 (High Abrasion Resistance PU)
Operating Temperature (°C)	-35~50
Mechanical Properties	
Bearing Capacity (Mpa)	10.5 (Approx. 25% compression)
Tear Resistance (kN/m)	65 (Standard)
Fire Resistance	
Fire Rating	Class 1
Others	
Application Fields	Construction, Cold Chain Logistics, Medical, Electronics, Apparel, etc.

Company introduction

As a wholly-owned subsidiary of Wujiang Saima (established in 2005), Suzhou Stars Integrated Housing Co., Ltd. focuses on foreign trade. As one of the most professional prefabricated house manufacturers in south-east China, we provide customers with all kinds of integrated housing solutions.

Equipped with complete production lines, including sandwich panel production machines and steel structure production line, with 5000 square meter workshop and professional staff, we already built long-term business with domestic giants like CSCEC and CREC. Also, based on our export experience in the past years, we are furthering our steps to global customers with best product and service.

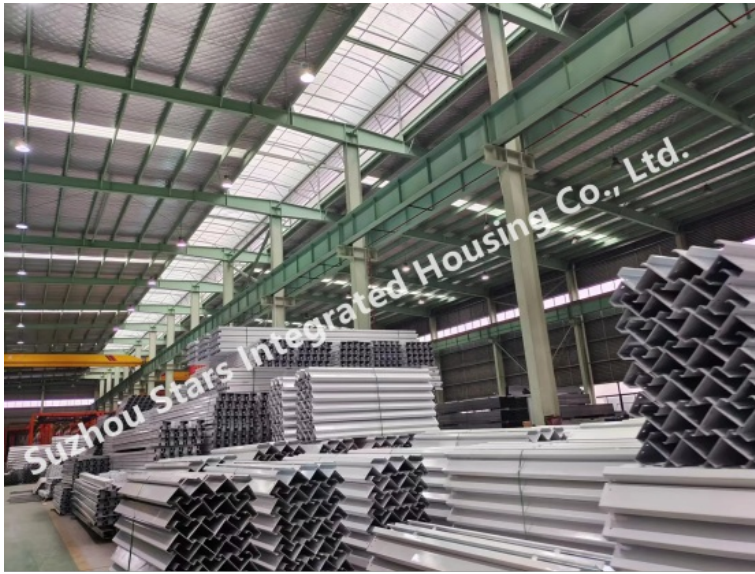
As a supplier to overseas customers all over the world, we are very familiar with the manufacturing standards of various countries, such as European standards, American standards, Australian standards, and so on. We have also participated in the construction of many large-scale projects, such as recent 2022 Qatar World Cup camping construction.

Company photo



Workshop





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