



## Anti Corrosion Heat Insulation Cold Chain Logistics Special Cold Storage Plate

Our Product Introduction

for more products please visit us on [prefabricated-containerhouses.com](http://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

- Width: 1000mm
- Compressive Strength:  $\geq 150\text{kPa}$
- Water Absorption:  $\leq 1\%$
- Surface Material: Color Steel Sheet
- Thickness: 50mm-200mm
- Material: Polyurethane Foam
- Thermal Conductivity:  $0.022\text{ W/mK}$
- Length: Customizable
- Temperature Range:  $-50^{\circ}\text{C}$  To  $80^{\circ}\text{C}$
- Panel Joint: Tongue And Groove
- Application: Cold Storage, Refrigerated Warehouse, Food Processing Plant
- Name: Cold Storage Panel
- MOQ: 7 PCS
- Highlight: **Anti Corrosion Cold Storage Plate, Heat Insulation Cold Storage Plate**



### More Images



Product Description

Material Science Breakthroughs

At the heart of our panels lies an innovative polymer composite material. This material is formulated with nano-engineered fillers that significantly enhance its thermal resistance while maintaining excellent mechanical properties. The result is a lightweight panel with superior insulation capabilities, enabling tighter temperature control and reduced energy consumption.

Multi-Layer Insulation System

The insulation system within our cold storage panels consists of multiple layers of advanced materials. A vacuum-sealed gas barrier layer eliminates convective heat transfer, while a reflective foil layer minimizes radiative heat losses. An intermediate layer of high-performance insulation material further enhances the thermal efficiency of the system.

Precision-Engineered Thermal Breaks

To prevent thermal bridging, our panels feature precision-engineered thermal breaks. These strategically positioned breaks disrupt the continuous thermal path, ensuring that heat does not propagate from warmer areas to colder areas within the cold storage facility. This results in improved temperature stability and reduced energy losses.

Specification	Details
Panel Material	
Core Material	High-grade Polyurethane (PU)
Skin Material	Steel
Thickness Range	Customizable (e.g., 50mm - 200mm)
Panel Size	Standard and Customizable Dimensions
Thermal Properties	
Thermal Conductivity	Low, optimized for cold storage
Temperature Range	-40°C to +50°C (Customizable)
R-Value (Insulation Resistance)	High, depending on thickness
Structural Properties	
Compressive Strength	Excellent, designed for heavy loads
Tensile Strength	High, ensuring panel durability
Flexural Strength	Adequate to handle minor deformations
Environmental Properties	
Flammability	Low, meets fire safety standards
Moisture Resistance	Excellent, prevents mold and corrosion
UV Resistance	Good, suitable for outdoor applications
Recyclability	Yes, polyurethane insulation is recyclable
Installation & Handling	

Specification	Details
Weight	Lightweight yet sturdy for easy handling
Modular Design	Yes, for quick and efficient installation
Connection System	Compatible with standard cold storage fasteners
<b>Certifications &amp; Compliance</b>	
Fire Rating	Meets or exceeds local fire safety regulations
Environmental Standards	Compliant with relevant environmental certifications (e.g., LEED)
Other Standards	Meets or exceeds industry standards for cold storage panels

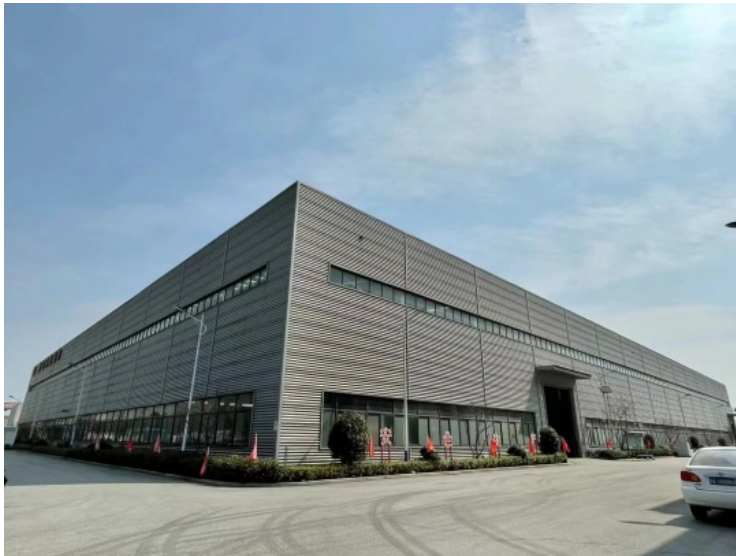
#### Company introduction

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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