



## Thermal Insulation Cold Storage Panel Plant Partition Board Purification Board Polystyrene Board

### Our Product Introduction

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#### Basic Information

- Place of Origin: china
- Brand Name: INFINTE 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

- Name: Cold Storage Panel
- Installation Method: Cam Lock
- 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
- MOQ: 7 PCS



#### More Images



## Product Description

Cold storage panels play a pivotal role in the construction of refrigerated and frozen facilities. Their importance cannot be overstated. Here are the key applications and characteristics of cold storage panels:

**Thermal Insulation:** The core function of cold storage panels lies in their excellent thermal insulation properties. As refrigerated and frozen storage facilities require maintaining a constant low-temperature environment, cold storage panels with good insulation capabilities are essential to minimize the temperature exchange between the interior and exterior. Cold storage panels typically adopt a multi-layer structure, with polyurethane, polystyrene, or glass wool as the main material, filled with insulation material in between, resulting in superior insulation effects.

**Panel Specifications:** Cold storage panels are generally pre-manufactured by manufacturers, with fixed lengths, widths, and thicknesses. Depending on the specific needs of the cold storage facility, medium and high-temperature cold storage facilities often use 10-centimeter-thick panels, while low-temperature and freezing facilities utilize 12- or 15-centimeter-thick panels. Additionally, the density, steel plate thickness, and load-bearing capacity of the panels are also important factors to consider during selection.

**Energy Efficiency:** The energy efficiency of cold storage panels is mainly reflected in their ability to prevent temperature transfer between the interior and exterior of the cold storage due to the significant temperature difference. This ensures the cold storage operates more efficiently, saving energy. For instance, polyurethane cold storage panels, with lightweight polyurethane as the core material and exterior components such as SII, PVC color steel plates, and stainless steel plates, effectively prevent temperature transfer.

**Corrosion Resistance and Electrical Insulation** Besides thermal insulation, cold storage panels also exhibit good corrosion resistance and electrical insulation properties. Polyurethane panels, for instance, have excellent corrosion resistance, making them suitable for insulation of various pipelines and equipment in food and pharmaceutical factories. Additionally, due to their excellent electrical properties and high breakdown voltage, they are often used as the outer shells of electrical components or as insulation materials.

**Environmental Protection and Sound Absorption:** Cold storage panels also possess environmental protection and sound absorption capabilities. Environmentally friendly cold storage panels, such as high-density rigid PVC foam boards, conform to national food hygiene standards and are tested to contain no harmful substances to humans. Furthermore, the tiny air bubbles in polystyrene foam plastic can absorb sound wave energy, reducing noise pollution.

**Industry Applications:** Cold storage panels are widely used in various industries, including food, slaughter, pharmaceuticals, and cold chain logistics. In these industries, cold storage panels are not only crucial for maintaining a low-temperature environment but also essential for ensuring product quality and food safety.

Parameter	Description/Range
<b>Panel Thickness (mm)</b>	50 - 200
<b>Panel Density (kg/m<sup>3</sup>)</b>	50- 150
<b>Thermal Conductivity (W/(m·K))</b>	0.02 - 0.04
<b>Tensile Strength (MPa)</b>	0.15 - 0.4
<b>Material</b>	Polyurethane, Polystyrene Foam, etc.
<b>Surface Layer Material</b>	Color Steel Plate, Stainless Steel Plate, Aluminum-Magnesium-Manganese Plate, etc.
<b>Core Material</b>	Polyurethane, Polystyrene Foam, etc.
<b>Back Layer Material</b>	Color Steel Plate, Stainless Steel Plate, etc.
<b>Insulation Performance</b>	High-efficiency insulation, isolating external temperature impact
<b>Corrosion Resistance</b>	Good, suitable for humid environments
<b>Environmental Protection</b>	Compliant with relevant environmental regulations, using environmentally friendly materials
<b>Load-bearing Capacity</b>	Depends on panel thickness and density, ensuring structural safety
<b>Dimension Specifications (mm)</b>	Length: 2000 - 6000
	Width: 1000 - 1500
<b>Applicable Temperature Range (°C)</b>	Depends on specific cold storage requirements

## 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.

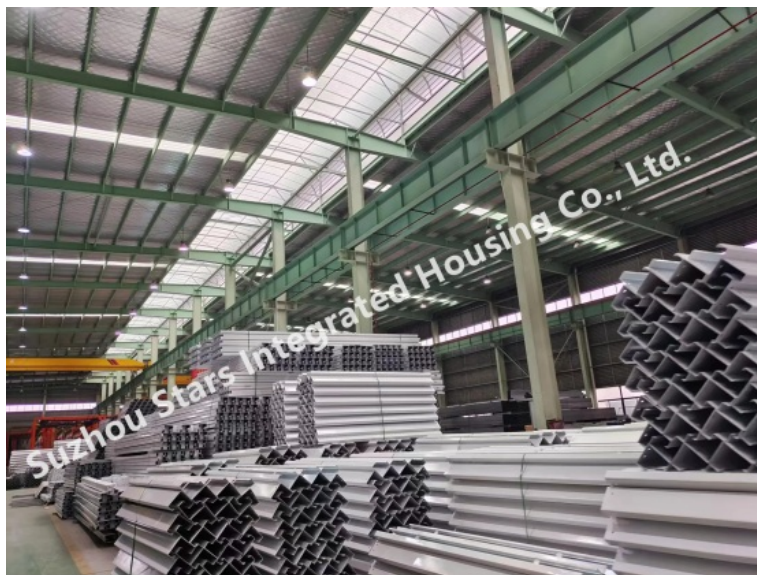
As a supplier to overseas customers all over the world, we are very familiar with the manufacturing standards of various countries, such as European standards, American standards, Australian standards, and so on. We have also participated in the construction of many large-scale projects, such as recent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

## Company photo



**Workshop**





**Suzhou Stars Integrated Housing Co., Ltd.**



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