

10cm 15cm Polyurethane Insulation Board Moisture Proof Heat Insulation

Basic Information

- Place of Origin:
- Brand Name:
- INFINTE STARS

CE/ISO9001/ISO45001/ISO14001

china

- Certification:
- Model Number:
- Minimum Order Quantity: 7 S
- Payment Terms:
- Supply Ability:
- B ntity: 7 Sets L/C, T/T
 - 100000 /day



Product Specification

- Width:
- Compressive Strength:
 - ≤1%

1000mm

≥150kPa

- Water Absorption:Surface Material:
- Thickness:
- Material:
- Thermal Conductivity:
- Length:
- Temperature Range:
- Panel Joint:
- Application:
- Name:
- MOQ:
- Highlight:

- ≤1% Color Steel Sheet 50mm-200mm Polyurethane Foam 0.022 W/mK Customizable
- -50°C To 80°C
- Tongue And Groove
 - Cold Storage, Refrigerated Warehouse, Food Processing Plant
- Cold Storage Panel
- 7 PCS
 - 10cm Polyurethane Insulation Board,



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Modular Panel System with Customizable Configurations

Our cold storage panels are designed in a modular format, allowing for flexibility and scalability. Panels can be easily combined and interconnected to create customized cold storage solutions that fit specific dimensions and configurations. Prefabricated panels also ensure faster installation and reduced construction time.

Integration with Advanced Energy Management Systems

To maximize energy efficiency, our cold storage panels can be integrated with state-of-the-art energy management systems. These systems utilize sensor technology to monitor and control temperature, humidity, and airflow within the cold storage facility. Advanced algorithms optimize energy usage based on real-time data, ensuring consistent product quality and minimal energy waste.

Integration with Renewable Energy Sources

In addition to traditional energy sources, our cold storage panels are also compatible with renewable energy systems such as solar panels. By integrating photovoltaic cells directly into the panel surface or connecting to nearby solar arrays, cold storage facilities can reduce their reliance on fossil fuels and lower their carbon emissions.

Compliance and Safety Standards

We take pride in our commitment to compliance with international safety and quality standards. Our cold storage panels are rigorously tested and certified to meet the highest requirements for food safety, hygiene, and environmental impact. This ensures that your products are stored in a safe and reliable environment, meeting the demands of today's regulated markets.

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

Specification	Details
UV Resistance	Good, suitable for outdoor applications
Recyclability	Yes, polyurethane insulation is recyclable
Installation & Handling	
Weight	Lightweight yet sturdy for easy handling
Modular Design	Yes, for quick and efficient installation
Connection System	Compatible with standard cold storage fasteners
Certifications & Compliance	
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**





Application of Cold Storage Panels

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
Panel Thickness (mm)	40 - 200
Panel Density (kg/m ³)	30 - 45
Thermal Conductivity (W/(m·K))	0.02 - 0.04
Tensile Strength (MPa)	0.15 - 0.4
Material	Polyurethane, Polystyrene Foam, etc.
Surface Layer Material	Color Steel Plate, Stainless Steel Plate, Aluminum-Magnesium-Manganese Plate, etc.
Core Material	Polyurethane, Polystyrene Foam, etc.
Back Layer Material	Color Steel Plate, Stainless Steel Plate, etc.
Insulation Performance	High-efficiency insulation, isolating external temperature impact
Corrosion Resistance	Good, suitable for humid environments
Environmental Protection	Compliant with relevant environmental regulations, using environmentally friendly materials
Load-bearing Capacity	Depends on panel thickness and density, ensuring structural safety
Dimension Specifications (mm)	Length: 2000 - 6000
	Width: 1000 - 1500
Applicable Temperature Range (°C)	Depends on specific cold storage requirements

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