

## Product technical specification

Revision Date: 2025-03

TDS Number:

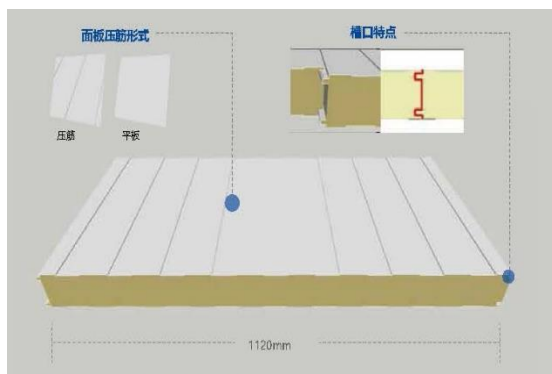
Product name: Polyisocyanurate Ester (PIR) Thermal Insulation Sandwich Plate

version: V 3.2

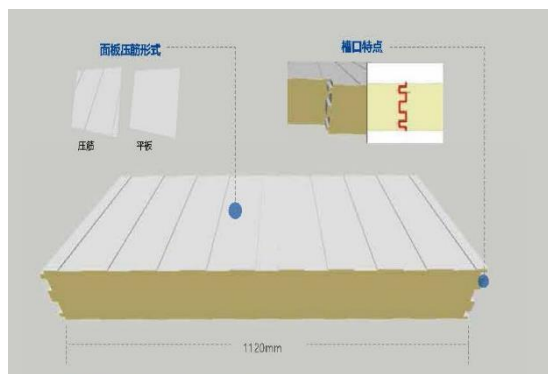
### Product profile

Polyisocyanurate ester (PIR) thermal insulation sandwich plate series cold storage board is using the industry's most advanced import seven components foaming machine HENNECKE-OMS continuous production of high-end cold storage board, the refrigerator grade insulation material polyurethane modified isocyanurate foam (PIR) for thermal insulation, the fire, heat insulation and seismic performance than general polyurethane foam (PUR) more excellent, suitable for food storage of prefabricated cold storage, artificial refrigeration cooling temperature control food processing workshop and the corresponding supporting building accessory of load-bearing exterior wall board, wall board, ceiling board, etc. Our company can according to the customer needs of the plate steel material (color steel, stainless steel, aluminized zinc plate, etc.), plate pressing mode (plate or reinforcement), flame retardant grade (B1 or B2), size, the series of cold storage plate contains polyisocyanurate ester (PIR) sandwich plate single slot cold storage plate, polyisocyanurate ester (PIR) sandwich plate double slot cold storage plate, polyisocyanurate ester (PIR) sandwich plate hook lock box cold storage plate, polyisocyanurate ester (PIR) sandwich plate hook box frame cold storage plate 4 categories of products.

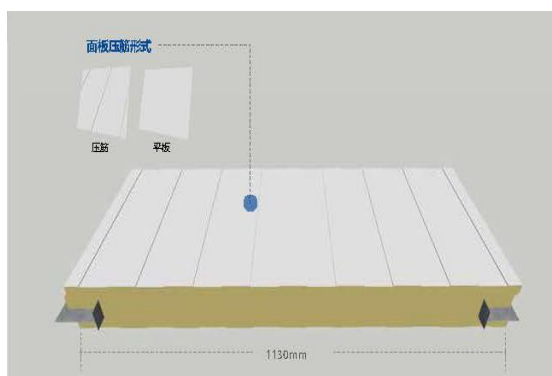
**Polyisocyanurate Ester (PIR) Thermal  
Insulation Sandwich Board Single Trough  
Cold Storage Board**



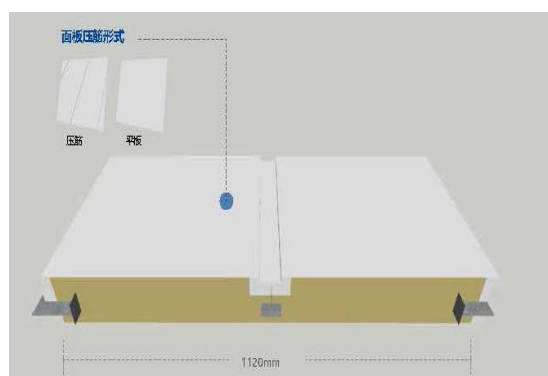
**Polyisocyanurate (PIR) Thermal Insulation  
Sandwich Plate Double Slot Cold Storage  
Plate**



**Polyisocyanurate Ester (PIR) Thermal  
Insulation Sandwich Board Hook Lock Box  
Type Cold Storage Board**



**Polyisocyanurate Ester (PIR) Thermal  
Insulation Sandwich Board Hook Lock Box  
Frame Type Cold Storage Board**



## Product application and characteristics

name	The temperature difference between the inside and the outside of the applicable library is °C	Product features
Polyisocyanurate Ester (PIR) Thermal Insulation Sandwich Board Single Trough Cold Storage Board	20/30/40/55	The structure design of concave and convex groove improves the insulation air tightness at the plate joint, which is specially designed for the refrigeration room and warehouse. The steel plate wrapping groove makes the groove shape is not easy to damage, deformation and remove, and increases the bending strength.
Polyisocyanurate (PIR) Thermal Insulation Sandwich Plate Double Slot Cold Storage Plate	40/55/70	The double groove makes the plate uniform and stable, heat insulation performance, waterproof performance, light weight, beautiful appearance, effectively solve the temperature difference of refrigeration industry.
Polyisocyanurate Ester (PIR) Thermal Insulation Sandwich Board Hook Lock Box Type Cold Storage Board	20/30/40/55	Design for the assembly of small and medium cold storage and thermal insulation room, box; each prefabricated board is buried with high strength locks, assembly is very convenient.
Polyisocyanurate Ester (PIR) Thermal Insulation Sandwich Board Hook Lock Box Frame Type Cold Storage Board	20/30/40/55	The envelope board with good insulation performance and high strength, within a certain modulus, the warehouse can change freely in three directions of length, width and height, and can be expanded or reduced according to the need, and the assembled plate can also be disassembled and reinstalled in different places.

## size of product

name	Thickness specification mm	Board heavy Kg/m <sup>3</sup>	Wall plate brief support height m	Wall plate brief support height m
Polyisocyanurate Ester (PIR) Thermal Insulation Sandwich Board Single Trough Cold	50/100/150/200	10/12.5/15/17.5	3/3.8/4.2/5	2.5/3/3.6/4.2

Storage Board				
Polyisocyanurate				
(PIR)Thermal Insulation	150/200/250	15/17.5/20	3.8/4.2/5	2.5/3/3.6/4.2
Sandwich Plate Double Slot				
Cold Storage Plate				
Polyisocyanurate Ester (PIR)				
Thermal Insulation Sandwich	50/100/150/200	10.6/13.1/15.6/18.1	3/3.8/4.2/5	2.5/3/3.6/4.2
Board Hook Lock Box Type				
Cold Storage Board				
Polyisocyanurate Ester				
(PIR)Thermal Insulation	50/100/150/200	10.6/13.1/15.6/18.1	3/3.8/4.2/5	2.5/3/3.6/4.2
Sandwich Board Hook Lock				
Box Frame Type Cold				
Storage Board				

## Precautions for use

1. Pay attention to labor protection during the installation process to prevent falling and injuring the plate edge scratching the body;
2. The construction site should be a fire-free area, and should be far away from the fire source. Smoking is strictly prohibited. When there is a fire operation nearby, the fire approval system must be strictly implemented, and corresponding safety measures and special monitoring must be taken.

## Plate packaging

1. Classification k bulk according to the board length, with corner iron protection and fixed with rope.
2. The box should be filled with type steel and metal sheet or wood board and other materials as packaging box.
3. The packaging height shall be determined by the supply and demand parties, and shall not exceed 2.8m in principle.
4. The sandwich board should be separated with polyethylene film or kraft paper, and the outer surface should be covered with protective film.

## Transport

1. Products can be transported by cars, trains, ships or containers, automobiles can

be transported in bulk, and other means of transport should be transported in boxes or bundles. During transportation, the height and width of the stack shall meet the requirements of local road transport regulations.

2. In the process of transportation, the sandwich board should not be stressed, slammed or collision with sharp items, should be laid solid, with ropes and other hoops, reasonable support, avoid pressure or mechanical damage, fireworks are strictly prohibited.

3. The storage place should be flat, reduce vibration, prevent collision, should avoid pressure or mechanical damage, there should be rain prevention measures, fireworks are strictly prohibited.

4. For the long sandwich board handling, in order to prevent the sandwich plate from breaking, it is forbidden to lift the two ends flat.

5. It is strictly prohibited to transport the same chemical active substances and wet materials in the same carriage or ship.

6. When loading and unloading products, collision should be avoided, and throwing is strictly prohibited.

### **Keep in storage**

1. The sandwich plate shall be stored in warehouses with clean, dry, ventilated, non-corrosive environment and protected from rain and snow; when stored in the open air, the erosion medium shall be isolated and waterproof and moisture-proof measures shall be taken to avoid direct sunlight.

2. The storage site should be solid, flat, and the bulk stacking height should not exceed 2.8m. The bottom of the sandwich board shall be paved with cushion wood or foam board. The spacing between the sandwich board shall not be greater than 2.0m, and the cushion point shall ensure that the sandwich board does not produce bending deformation.

3. Keep away from heat and fire sources during storage, and do not contact with chemicals.

4. It should be stored in an environment of temperature above 15°C. When the

temperature is below 10°C, it should be cooked at room temperature.

## **Combustion and explosive hazards**

This product does not belong to inflammable, explosive, oxidant, corrosive, toxic and radioactive dangerous goods in storage and transportation, and is not classified as dangerous goods.

The core material of this product can be fire extinguishing, and the outer steel plate protection, no fire under normal circumstances. In case of fire release, this product can use water, carbon dioxide, foam, or chemical dry powder fire extinguisher.

Rescue procedure: normal protection

## **Solid waste treatment**

The treatment of waste panels and plate scraps produced in the process of construction, transportation and storage shall be implemented in accordance with the environmental protection regulations of the local government.

**For more information, please refer to the safety technical manual for our products or contact our customer service center**

---

The indicators and data given in this data are based on our existing technical knowledge level and practical experience and are for reference only. The specific guarantee index shall be subject to the provisions of the quality guarantee certificate or the supply contract. Users have the responsibility for testing the products purchased to verify whether they are suitable for the proposed process and use and to achieve the intended purpose. Further application and processing of our products are beyond our control, so our liability for the products provided is limited to the parts delivered by us and used by you. We will not bear the indirect losses caused by the production process of using our company's products as raw materials. Our company technical support and customer service center is willing to provide you with product consulting and application technology services, welcome to contact.

Address: Wanhua Energy Saving Technology (Yantai) Co., LTD., No.56, Taiyuan Road, Economic and Technological Development Zone, Yantai city, Shandong Province

---

