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产品展示
PRODUCT DISPLAY

夹芯保温板
PUR INSULATION PANEL

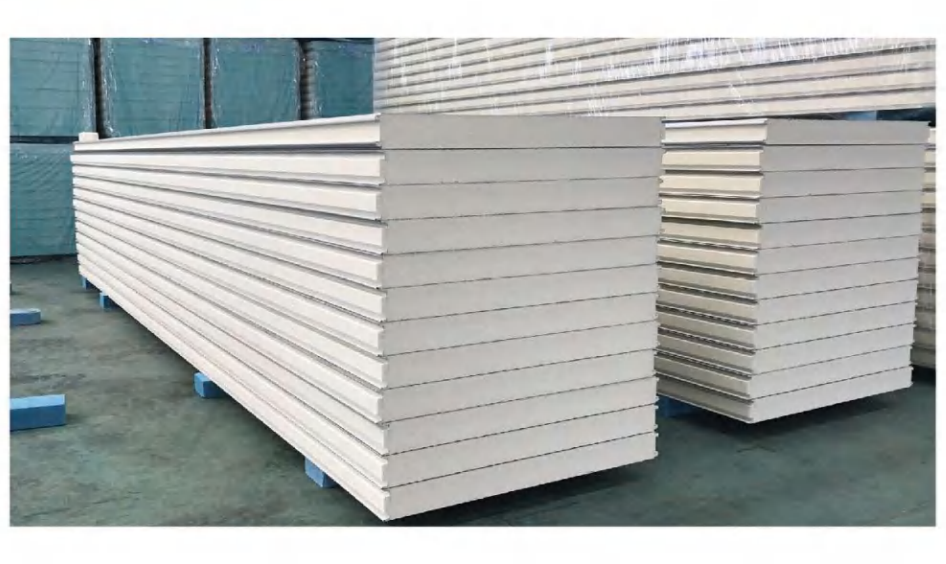
PUR聚氨酯保温板 PUR INSULATION PANEL

PUR聚氨酯保温板芯材是由多异氰酸酯与聚醚型或聚酯型多元醇在一定比例下反应的产物。

PUR夹芯板特性：导热系数低、吸水率低，保温性能好，抗压强度、抗拉强度大，不易变形，广泛用于组合式冷库的维护结构。

The core material of PUR insulation panel is a product of polyisocyanate and polyether type or polyester type polyol in a certain proportion of the reaction.

The features of PUR insulation panel: Good heat conductivity, great water absorption, good in temperature preservation performance, excellent compressive strength and tensile strength, not easy to deformation, it is widely used in maintaining the combination of cold storage structure.



常用PUR板技术标准
The Technical standard of PUR panel

序号 NO.	项目 Item		单位 Unit	技术要求 Tel. requirement
1	密　度 Density		kg/m³	40±2
2	导热系数 Heat conductivity		W/m.k	≤0.024
3	抗压强度 Compressive strength		≥150	≥150
4	燃烧性能 Combustion performance	平均燃烧时间 Average burning time	s	≤90
		平均燃烧范围 Average burning range	mm	≤50
5	夹芯板芯层与面板粘结强度 The bond strength between sandwich core layer and panel		Mpa	> 0.1
6	剥离性能 Stripping performance	粘结在面材上的芯材 The core material on the surface	--	应均匀分布 uniform distribution
		每个剥离面的粘结面积 The adhesive area of each stripping surface	--	≥90%

PIR聚异氰脲酸酯保温板 PIR INSULATION PANEL

PIR聚异氰脲酸酯保温板芯材又称聚异三聚氰酸酯泡沫，是异氰酸酯自身的三聚反应产物。

PIR夹芯板特性：相比于PUR夹芯板，PIR的导热系数更低，防火性能更好，也越来越多的运用于冷库的维护结构中。

The core material of PIR polyisocyanurate insulation panel also known as cyanuric acid foam, is the product of isocyanate trimerization.

The features of PIR sandwich panel: Compared to PUR sandwich panel, PIR sandwich board is of better heat conductivity, better performance, also more and more used in the maintenance structure of cold storage.

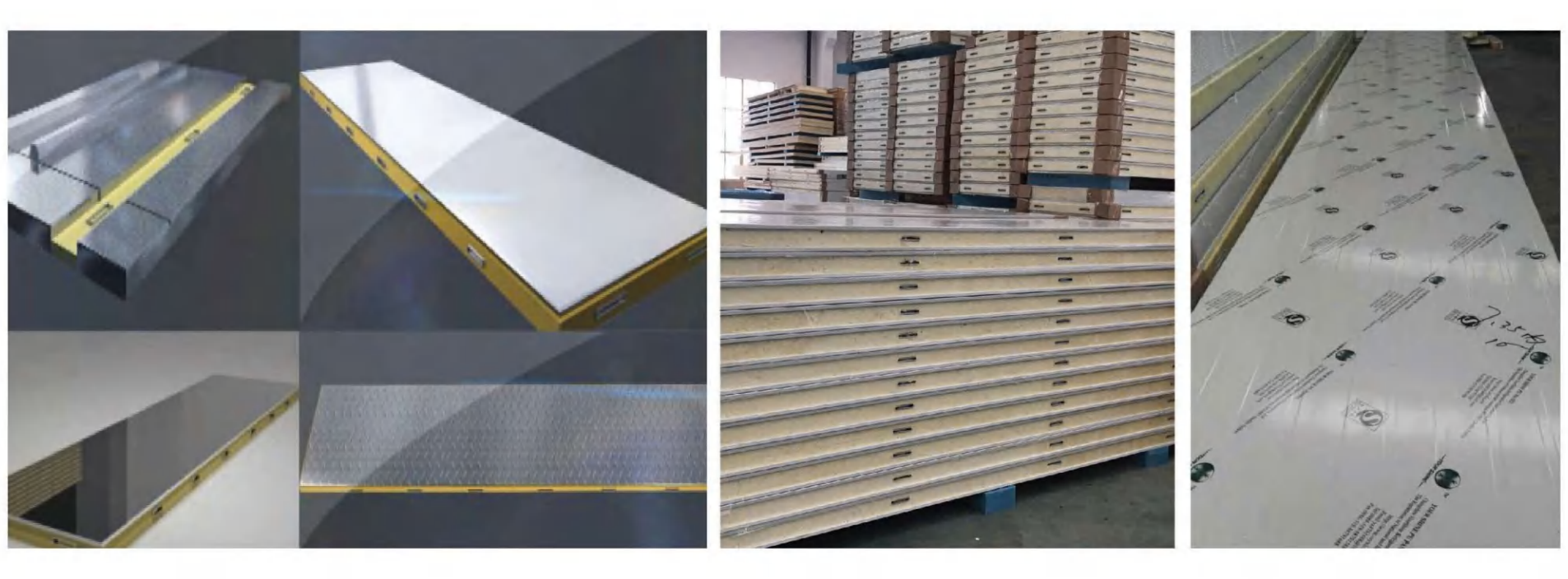
常用PIR板技术标准
The Technical standard of PIR panel

序号 NO.	项目 Item		单位 Unit	技术要求 Tel. requirement
1	密　度 Density		kg/m³	40±2
2	导热系数 Heat conductivity		W/m.k	≤0.022
3	抗压强度 Compressive strength		KPa	≥160
4	燃烧性能 Combustion performance		--	B1级
5	夹芯板芯层与面板粘结强度 The bond strength between core polyurethane and surface steel		Mpa	> 0.1
6	剥离性能 Stripping performance	粘结在面材上的芯材 The core material on the surface	--	应均匀分布 uniform distribution
		每个剥离面的粘结面积 The adhesive area of each stripping surface	--	≥ 90%

偏心钩板 CAM-LOCK PANEL

偏心钩板的结构是用传统模具制作的聚氨酯夹芯板，生产时在模具内预埋偏心钩，偏心钩嵌入芯板四周，方便拼接，一般适用于小型或者中型冷库。

The structure of the panel is a polyurethane sandwich panel made with traditional molds,which is embedded the eccentric hook in the mould around the sandwich panel when produce,convenient assembly,and generally applicable to small or medium-sized cold storage.



偏心钩板技术标准
The technical standard of cam-lock panel

序号 NO.	表面材质 Surface material	保温板厚度 Thickness								表面条纹 Surface streak		
		50 mm	75 mm	100 mm	120 mm	150 mm	175 mm	200 mm	250 mm	平面 Flat	排骨纹 Ribs grain	细纹 Finely-laminated
1	彩钢板（0.326-0.8mm） Colored steel sheet(0.326-0.8mm)	√	√	√	√	√	√	√	√	√	√	√
2	不锈钢（0.4-0.8mm） Stainless steel sheet(0.4-0.8mm)	√	√	√	√	√	√	√	√	√	√	√
3	压花铝（0.5-3mm） Emboseed aluminum sheet(0.5-3mm)	√	√	√	√	√	√	√	√			
4	镀锌板（0.5-2mm） Galvanized steel sheet(0.5-2mm)	√	√	√	√	√	√	√	√	√		
5	聚氨酯光板 Polyurethane panel without steel	√	√	√	√	√	√	√	√			

插接板 FAST-FIT(MALE-FEMALE) TYPE PANEL

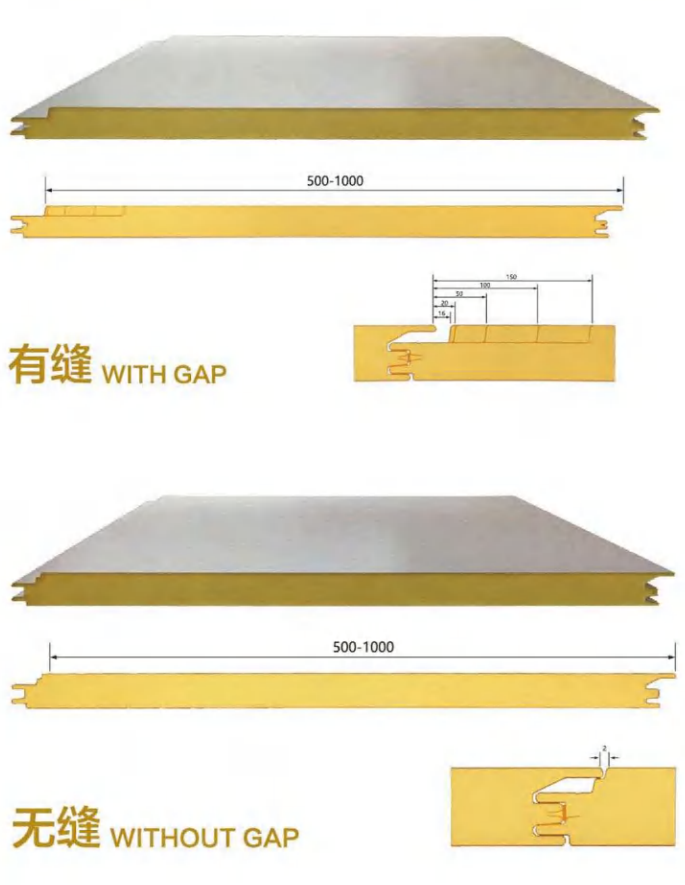
我司生产的插接式保温板采用国际先进的全自动连续生产线生产，发泡料在高温环境的双履带机内发泡成型，反应充分，发泡均匀，无气孔，保温性能更好。

Our company adopts advanced continuous production line to produce fast-fit panel,the foaming material is made in high temperature environment of the double-belt machine,full reaction,unifor form, no stoma,and the insulation performance is better.

插接板技术标准
The technical standard of Fast-fit(male-female) type panel

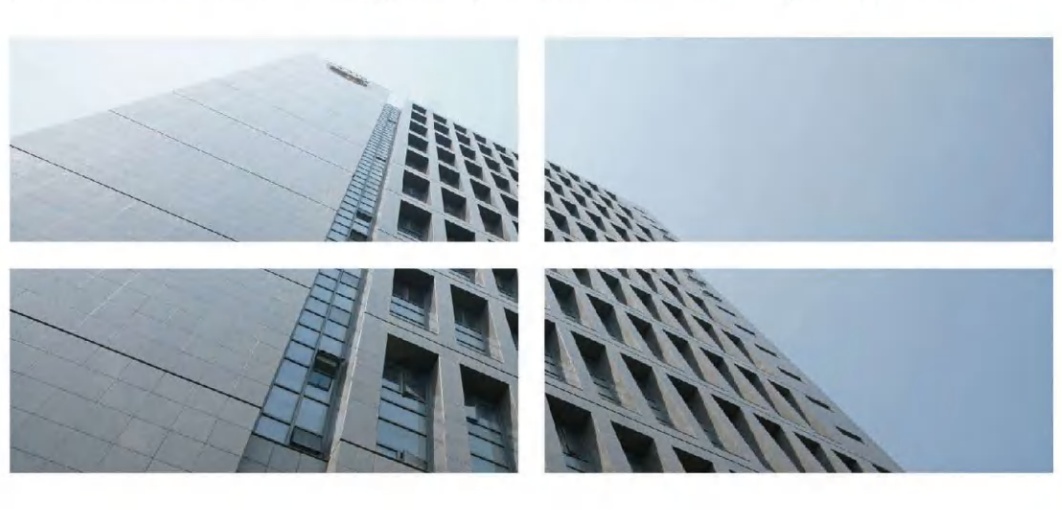
序号 NO.	表面材质 Surface material	保温板厚度 Thickness								表面条纹 Surface streak		
		50 mm	75 mm	100 mm	120 mm	150 mm	175 mm	200 mm	250 mm	平面 Flat	排骨纹 Ribs grain	细纹 Finely-laminated
1	彩钢板（0.326-0.8mm） Colored steel sheet(0.326-0.8mm)	√	√	√	√	√	√	√	√	√	√	√
2	不锈钢（0.4-0.8mm） Stainless steel sheet(0.4-0.8mm)	√	√	√	√	√	√	√	√	√	√	√
3	压花铝（0.5-3mm） Emboseed aluminum sheet(0.5-3mm)	√	√	√	√	√	√	√	√			
4	镀锌板（0.5-2mm） Galvanized steel sheet(0.5-2mm)	√	√	√	√	√	√	√	√	√		
5	聚氨酯光板 Polyurethane panel without steel	√	√	√	√	√	√	√	√			

外墙板 EXTERIOR WALL PANEL



PUR\PIR外墙板，耐火耐热，尺寸稳定性好，具有良好的保温节能效果，将优异的防火性能和良好的节能效果于一身，适用于外墙保温等诸多领域；独特的防水设计，有效防止雨水渗漏，安装便捷，外观雅致。

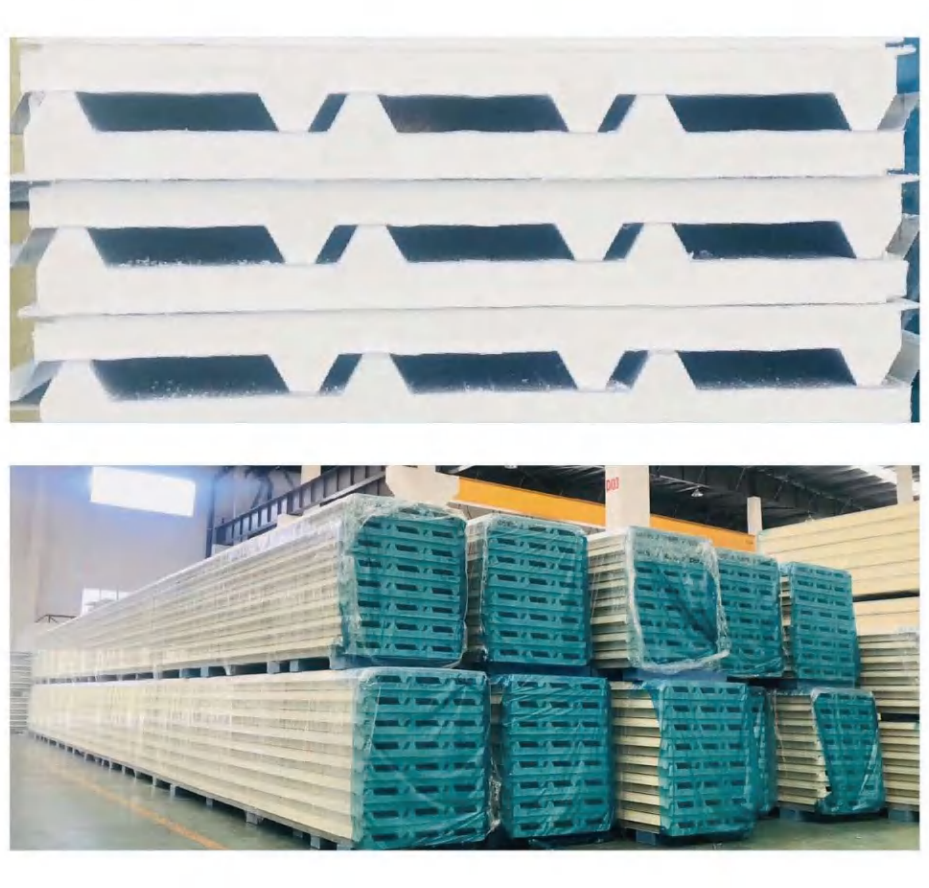
PUR\PIR exterior wall panel, is of heat and fire resistant, dimensionally stable, with good insulation effect, excellent fire performance and good energy saving effect, suitable for many fields such as exterior wall insulation; unique waterproof design, It effectively prevents rainwater from leaking, is easy to install, and has an elegant appearance.



常用PUR板技术标准
The Technical standard of PUR panel

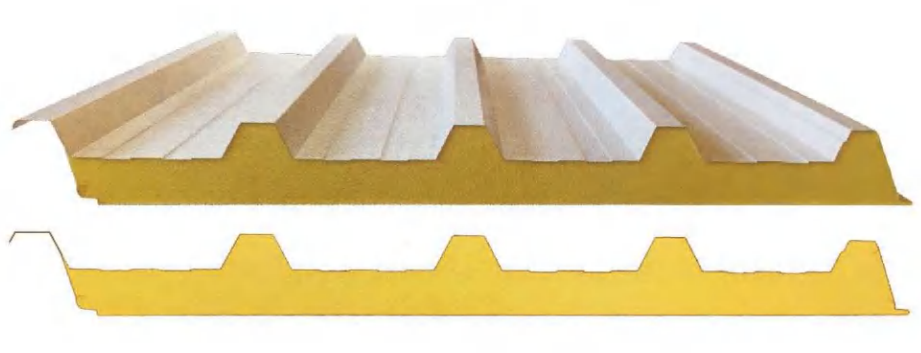
序号 NO.	项目 Item		单位 Unit	技术要求 Tel. requirement
1	密　度 Density		kg/m³	40±2
2	导热系数 Heat conductivity		W/m.k	≤0.024
3	抗压强度 Compressive strength		≥150	≥150
4	燃烧性能 Combustion performance	平均燃烧时间 Average burning time	s	≤90
		平均燃烧范围 Average burning range	mm	≤50
5	夹芯板芯层与面板粘结强度 The bond strength between sandwich core layer and panel		Mpa	> 0.1
6	剥离性能 Stripping performance	粘结在面材上的芯材 The core material on the surface	--	应均匀分布 uniform distribution
		每个剥离面的粘结面积 The adhesive area of each stripping surface	--	≥90%

屋面板 POOF PANEL



PUR\PIR屋面板，采用三波峰设计，波峰高42mm，极大提高屋面排水效果和承载力，在确保建筑物保温效果的同时，减少屋面檩条使用量，有效降低建筑成本。

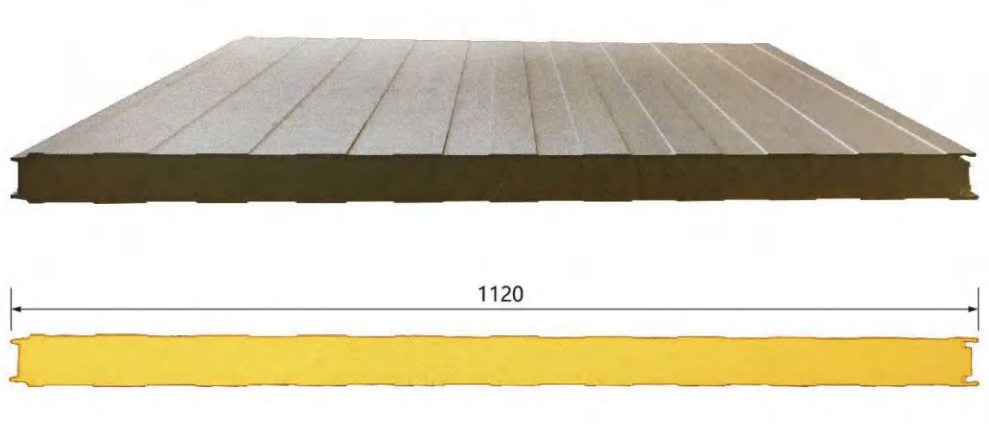
PUR\PIR roof panel is designed with three wave crests, and the height of wave crest is 42mm, which greatly improves the drainage effect and bearing capacity of the roof. While ensuring the thermal insulation effect of the building, it reduces the use of roof purlins and effectively reduces the construction cost.

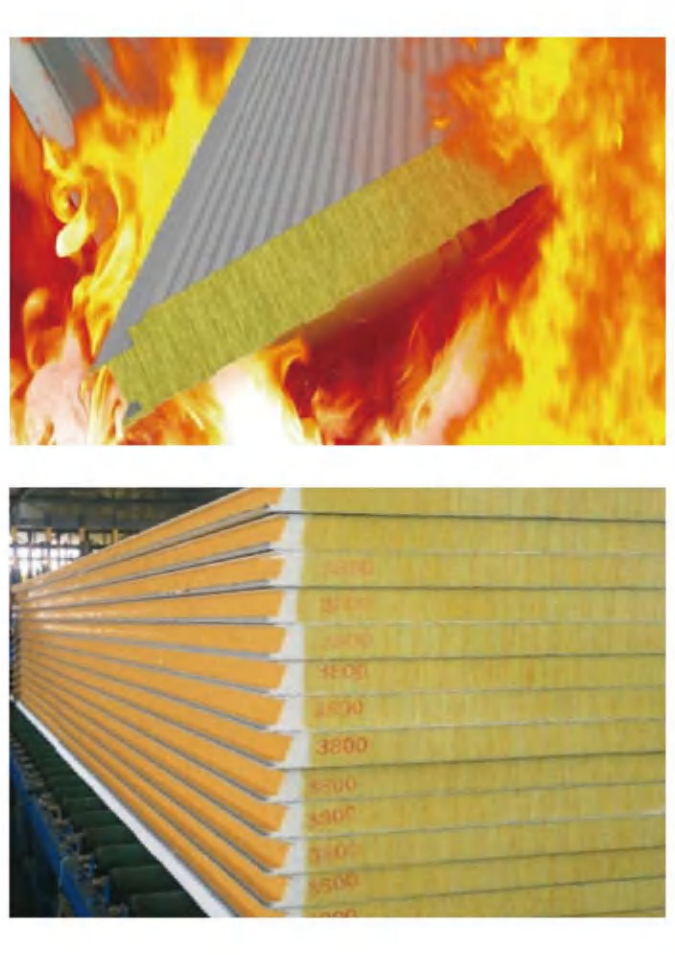


常用PIR板技术标准
The Technical standard of PIR panel

序号 NO.	项目 Item		单位 Unit	技术要求 Tel. requirement
1	密　度 Density		kg/m³	40±2
2	导热系数 Heat conductivity		W/m.k	≤0.022
3	抗压强度 Compressive strength		KPa	≥160
4	燃烧性能 Combustion performance		--	B1级
5	夹芯板芯层与面板粘结强度 The bond strength between sandwich core layer and panel		Mpa	>0.1
6	剥离性能 Stripping performance	粘结在面材上的芯材 The core material on the surface	--	应均匀分布 uniform distribution
		每个剥离面的粘结面积 The adhesive area of each stripping surface	--	≥90%

岩棉板 ROCK WOOL PANEL





岩棉防火板采用天然岩石生产的岩棉为芯材，属于不燃材料，达到A级防火，火灾时不产生有毒烟气和熔融滴落物，应用于建筑系统中形成一道防火屏障，有效阻断火焰蔓延，最大限度降低火灾损失；高容重芯材（岩棉芯材容重≥120kg/m3）使保温性能更佳。

The rock wool fireproof panel adopts rock wool produced by natural rock as the core material, which belongs to non-combustible material and achieves Class A fireproof. It does not produce toxic fumes and molten drippings during fire, and it is applied to the building system to form a fire barrier, effectively blocking The flame spreads to minimize the loss of fire; the high-capacity heavy core material (rock wool core material density ≥120kg/m3) makes the insulation performance better.

常用岩棉板技术标准
The Technical standard of Rock wool panel

序号 NO.	项目 Item		单位 Unit	技术要求 Tel. requirement
1	密　度 Density		kg/m³	120± 3
2	导热系数 Heat conductivity		W/m.k	≤0.04
3	抗压强度 Compressive strength		KPa	≥ 100
4	燃烧性能 Combustion performance		--	A级
5	夹芯板芯层与面板粘结强度 The bond strength between sandwich core layer and panel		Mpa	>0.1
6	剥离性能 Stripping performance	粘结在面材上的芯材 The core material on the surface	--	应均匀分布 uniform distribution
7		每个剥离面的粘结面积 The adhesive area of each stripping surface	--	≥90%

产品展示
PRODUCT DISPLAY

AS电动平移门 AS ELECTRIC SLIDING DOOR

概述：AS系列电动平移门，采用同步电机控制系统，能够精准控制门体的各种动作状态，保障门体流畅运行。
使用环境：适用于库房温度-60℃-+120℃冷藏库、冷冻库、高温库等。

Summary: AS electric sliding door, using the synchronous motor control system, can accurately control the action of door to ensure the door run smoothly.
Applicable environment：-60℃-+120 ℃ cold storage, freezer， high temperature warehouse…

结构特点
The features of electric sliding door's structure

门体 Door panel	全封闭无框架结构，板材采用不锈钢或彩钢板，门体四周圆弧处理。 Fully enclosed without frame structure, the panel is made of stainless steel sheet or colored steel sheet. do arc processing around the door.
门框 Door frame	采用铝合金或C型钢上包制不锈钢，外观整洁大方，经久耐用，克服了木质门框易腐烂的现象。 Made of aluminum alloy or C steel enveloped by stainless steel, it is tidy in appearance and durable,the disadvantage of corrosion against wooden door frame is conquered.
导轨装置 Guide rail device	铝合金制作导轨，其内有导向轮装置与压紧轮装置配合动作，使门在开启时与门框分离，在关闭时向门框与地坪压紧。 Made of aluminum alloy,its guides wheel device acts together with compression wheel device so that the door can separate with door frame when opening and press against door frame and floor when closing.
电控系统 Electric control system	采用日本原装松下变频器，保证了电动系统的可靠性，无限控制器，红外线报警系统程序设计，各种触发状态对应不同的相应情况，使门的控制达到完美的效果。 Adopt original Panasonic frequency converter to ensure the reliability of electric control system, wireless controller and infrared alarm system will activate difference responses pursuant todifferent circumstances to achieve better control to the door.
密封条 Sealing string	耐低温、耐油、高弹力的三元乙丙材料。 Low temperature resistance, oil resistance, made of high elastic EPDM.
加热丝 Heating wire	自动恒温220V或36V低压加热带。 Automatic constant temperature 220V or 36V low voltage heating zone.
五金配件 Fittings	库门金属件均为不锈钢高精度材质。 The metal parts of door panel are of high precision stainless steel material.

LS手动平移门 LS MANUAL SLIDING DOOR

概述：LS系列平移门选材合理，结构简单，外表修饰美观，内部聚氨酯整体发泡，门内有逃生安全装置，安全实用。

使用环境：适用于库房温度-60℃ -+120℃冷藏库，冷冻库，高温库等。

Summary: LS manual sliding door, it is reasonable material selection, simple in structure, delicate in appearance, with integrated foaming of internal polyurethane foam, the door is with escape and safety devices, it is safe and practical.
Applicable environment：- 60 ℃ – +120 ℃ cold storage,freezer， high temperature warehouse...

结构特点
The features of manual sliding door's structure

门体 Door panel	全封闭无框架结构，板材采用不锈钢或彩钢板。 Fully enclosed without frame structure, the panel is made of stainless steel sheet or colored steel sheet. do arc processing around the door.
门框 Door frame	采用铝合金或C型钢上包制不锈钢，外观整洁大方，经久耐用，克服了木质门框易腐烂的现象。 Made of aluminum alloy or C steel enveloped by stainless steel, it is tidy in appearance and durable, the disadvantage of corrosion against wooden door frame is conquered.
导轨装置 Guide rail device	铝合金制作导轨，其内有导向轮装置与压紧轮装置配合动作，使门在开启时与门框分离，在关闭时向门框与地坪压紧。 Made of aluminum alloy,its guides wheel device acts together with compression wheel device so that the door can separate with door frame when opening and press against door frame and floor when closing.
密封条 Sealing string	耐低温，耐油，高弹力的三元乙丙材料。 Low temperature resistance, oil resistance, made of high elastic EPDM.
加热丝 Heating wire	自动恒温220V或36V低压加热带。 Automatic constant temperature 220V or 36V low voltage heating zone.
五金配件 Fittings	库门金属件均为不锈钢高精度材质。 The metal parts of door panel are of high precision stainless steel material.

PH半埋门 SEMI-EMBEDDED DOOR (SWING DOOR)

概述：PH系列半埋门，特点是门体一半镶嵌在门框中，密封、隔热最为优越。
使用环境：-45℃ – +50℃的小型冷藏库、冷冻库。

Summary: PH semi-embedded door，Half of the door embedded in the door frame, the air-tightness and insulation performance is excellent.
Applicable environment：-45 ℃ – +50 ℃ small cold storage,freezer,etc.

全埋回归门 FLY-BACK DOOR

概述：PH系列半埋门，特点是门体一半镶嵌在门框中，密封、隔热最为优越。
使用环境：-45℃ – +50℃的小型冷藏库、冷冻库。

Summary: PH semi-embedded door，Half of the door embedded in the door frame, the air-tightness and insulation performance is excellent.
Applicable environment：-45 ℃ – +50 ℃ small cold storage,freezer,etc.

结构特点
The features of Semi-embedded door's structure

门体 Door panel	塑料型材与面板组合成外壳，内部聚氨酯发泡成型，无冷桥，保温性能极好。 The plastic material and panel combine the shell, with integrated foaming of polyurethane, without the cold bridge, the heat preservation performance is extremely good.
门框 Door frame	配自限温电热带，不需要温控或开关控制。 Fitted with ecectric heating string for self-temperature control, there is no need to mount temperature control or manual switch power source.
密封条 Sealing string	柔韧塑料内置磁性条，能很好弥补因制造引起的小许误差，密封性很好。 Flexible plastic built-in magnetic strips, can make up the small error caused by manufacturing, the air-tightness is very good.
五金配件 Fittings	采用不锈钢或高强度镀锌材料。 Used stainless steel or good galvanized material.
逃生装置 Escape device	门锁内侧配置逃生锁。 with escape and safety devices.

自由门 FREE-STYLE DOOR

概述：自由门采用可调节式弹簧铰链，结构坚固，调节方便，门体转动灵活。
使用环境：一般位于货物通道处。

Summary: Spring free-style door adopt adjustable spring hinge, firm in structure, convenient adjustment, flexible rotation body at the door.

Applicable environment : Commonly used in the goods channel.

结构特点
The features of Free-style door's structure

门体 Door panel	门体采用SUS304不锈钢与聚氨酯发泡成型，厚度薄，质量轻，运行平滑。 The door panel is made of SUS304 stainless steel and and form with the polyurethane foam, thin thickness, light weight, runs smoothly.
门框 Door frame	采用工程塑料制作门框，内置PTC发热丝，可使用于中温冷藏间。 The door frame is made of engineering plastic, built-in PTC heating wire, can be used in medium temperature of cold storage.
密封条 Sealing string	采用三元乙丙制作，插槽接口，无需禁锢件，易更换。 Made of EPDM material, it is slot interface, without imprisonment, easy to replace.
五金配件 Fittings	采用不锈钢或高强度镀锌材质。 Used stainless steel or good galvanized material.

洁净门 CLEAN DOOR

概述：洁净门，不锈钢材质外框，内聚氨酯发泡而成，外观美观，容易擦洗，不锈钢材质符合净化环境要求。
使用环境：加工车间或洁净车间。

Summary: Clean door adopt adjustable spring hinge, firm in structure, convenient adjustment, flexible rotation body at the door.

Applicable environment : Commonly used in the goods channel.

结构特点
The features of Clean door's structure

门体 Door panel	门体采用SUS304不锈钢，内聚氨酯发泡，具有保温功能。 The door panel is made of SUS304 stainless steel and polyurethane foam forming，with good insulation function.
门框 Door frame	不锈钢包裹门洞，坚固耐用，容易保持清洁卫生。 Stainless steel wrapped doors, durable, easy to keep clean.
密封条 Sealing string	采用硅橡胶制作，形状窄小，与门框的接触面积小，不易积聚杂物、异物。 Adopt silicon rubber production, the shape is narrow, and the frame of the contact area is small, not easy to accumulate things.
五金配件 Fittings	采用不锈钢或高强度镀锌材质。 Used stainless steel .

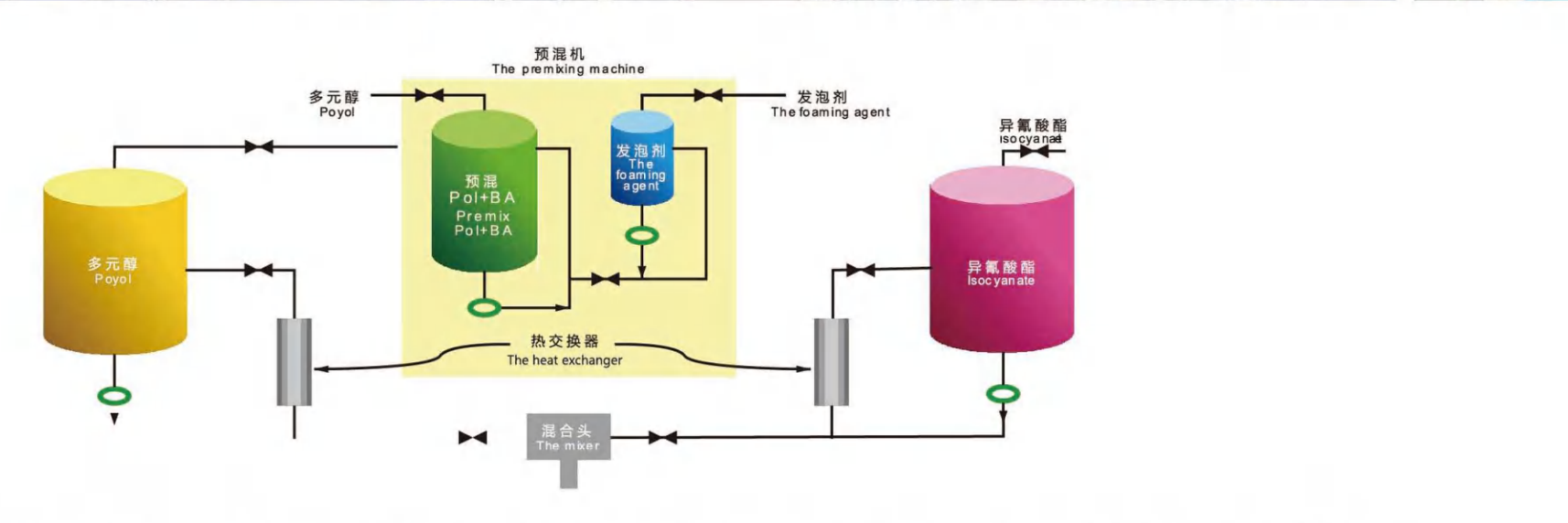
生产及研发
PRODUCTION AND DEVELOPMENT

我公司引进国际先进的第三代全自动连续生产线，生产线的长度长达260米以上，其中发泡系统，采用6组份发泡工艺，包含141B发泡体系，成烷发泡体系，其中发泡的核心部分双履带机长度达到43米，是国内长度领先的双履带机之一，有效保证了保温板发泡密度，均匀性、保温等性能，此生产线可生产夏度从50mm-250mm厚的U保温板、PIR保温板及其他各种类型的复合保温板，可采用材质范围：04-1.0mm的镀锌彩钢板和04-1.0mm不锈钢板及花纹铝板等。

双履带机是自动连续生产线的核心部分，是保证保温板性能的关键，双履带机越长，多元醇和异氰酸酷的化学反应越充分，形成的分子结构就越牢固产品的保温性、稳定性、防火性能等就越优异，是产品的质量和性能的重要保证。

Our company introduced the most advanced in domestic and international third-generation automatic continuous production ine, the length of the production line is up to 260 meters, of which foam system uses 6-component foam process, nclude 141B foam system, pentane foam system , the length of double-covered machine in the core of the foam part reaches 43 meters, it is one of the leading double track machine in length in China, it guarantes the foanlensity of the insulation panel effectively ,uniformity, and insulation and other properties. This production ine can produce PU panel with the thicknes:rom 50MM to 250MM, PIR sandwich panel and other types of composite sandwich panel, can be used material range: 0.4-1.0MM galvanized steetainless steel and pattern aluminum panel.

The double-bet machine is the core f the third -aeneration automatc continuous aroduction ine. it aranteas the toam dansivat the insuilatioanel effectively ,uniformity, and insulation and other properties.



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