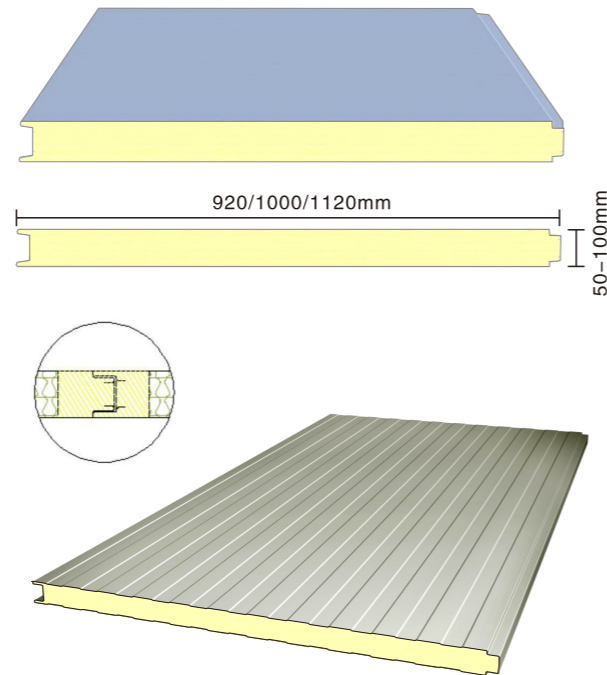




PNS Brand Cold Storage Sandwich Wall / Ceiling Panels

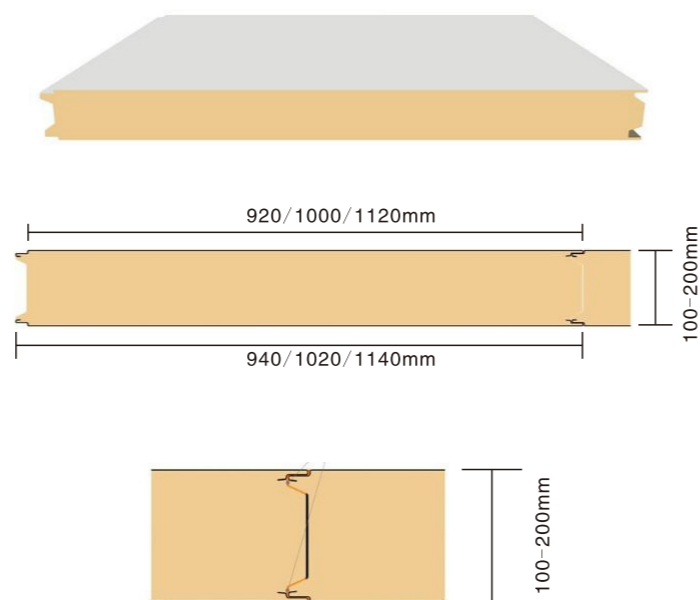
CS50-100/PUR/PIR series

- ▶ The concave and convex groove structure improves the airtightness of the joint of the panel, and has excellent heat insulation and waterproof performance;
- ▶ It has excellent heat insulation effect, eliminates "cold steam bridge", greatly improves the airtight performance, and is more suitable for air-conditioned cold storage.
- ▶ It can be connected by nails, which improves the connection structure of the cold storage body. The docking position of adjacent boards is accurate, and the facade effect of the storage body is neat and uniform.



CS100-200/PUR/PIR series

- ▶ Through prestaging the special airtight rubber in wedge-shaped structure between internal and external layer of cold storage panel, so that the adjacent panel of the inner and outer layers of cold steel as one organic, greatly overcome the thermal expansion and contraction phenomenon of cold storage panel, make the whole air tightness performance is equivalent to the effect of seamless steel plate welding.
- ▶ Light weight and beautiful appearance, the assembly board can be disassembled and reinstalled in another place is easy and fast;



Product Name	Cold Storage Sandwich Wall / Ceiling Panels	
Model	CS50-100/PUR CS100-200/PUR	CS50-100/PIR CS100-200/PIR
Metal sheet 0.4-0.8mm	1) color pre-painted galvanized steel sheet 2) Aluminium zinc sheet 3) stainless steel sheet 4) Aluminum Magnesium Manganese sheet	
Thickness	50 / 75 / 100 / 120 / 150 / 175 / 200mm	
Effective width	920mm, 1000mm, 1120mm (Regular 1000mm)	
Length of panel	≤ 11.8 meters	
Core material	PU/PUR (Polyurethane)	PIR (polyisocyanurate)
Density	40-42 KG/M ³	45-50 KG/M ³
Thermal conductivity (25℃)	≤ 0.022w/(m.k)	≤ 0.0195w/(m.k)
Heat-resistance range	-185℃ ~ 110℃ (PUR foam)	-196℃ ~ 205℃(PIR foam)
	Long-term continuous use below 85℃(PUR sandwich panel)	Long-term continuous use below 150℃(PIR sandwich panel)
Closed cell rate	≥ 97%	≥ 97%
Compression strength	185 Kpa	220 Kpa
Water absorption rate	2.5-3%	up to 0.9%
Fireproof grade	B2	B1
Combustion performance	≥ D	≥ B
Color of steel plate	White gray, silver gray or as per RAL	
Exterior / Interior surface profile	Square wave, flat, embossment, small wave, wide ribbed	
Painting	Self-cleaning coating PE, PVDF SMP, HDP	
Installation method	1. horizontal	2. vertical

Reference table of temperature and cold storage panels' thickness

Thickness of panels	Temperature difference between indoor and outdoor of cold storage	length of panels	Temperature of keeping in cold storage														
			25	20	15	10	5	0	-2	-8	-15	-20	-25	-30	-35	-40	-45
mm	℃	m															
50	30	2-8															
75	40	2-8															
100	50	2-12															
120	60	2-12															
125	60	2-12															
150	70	2-12															
180	80	2-12															
200	90	2-12															



Allowable vertical load, span and heat transfer coefficient of PNS' cold storage panels (allowable deformation $\leq L/200$)

Thickness of panels	Heat transfer coefficient U-Value, W/(M ² K)	Weight of panel (kg/m ²)				
		PPGI :0.5+0.5	PPGI : 0.6+0.6	P=kg/m ²	PPGI :0.5+0.5	PPGI : 0.6+0.6
100mm	0.21	12.48	14.17	L=M	6.20	6.55
120mm	0.18	13.42	15.12	L=M	7.10	7.50
150mm	0.14	14.38	16.06	L=M	8.40	8.80
175mm	0.12	15.28	17.02	L=M	9.50	10.00
200mm	0.11	16.18	17.98	L=M	10.20	10.80

Above core material :PU (40-42KG/M³)

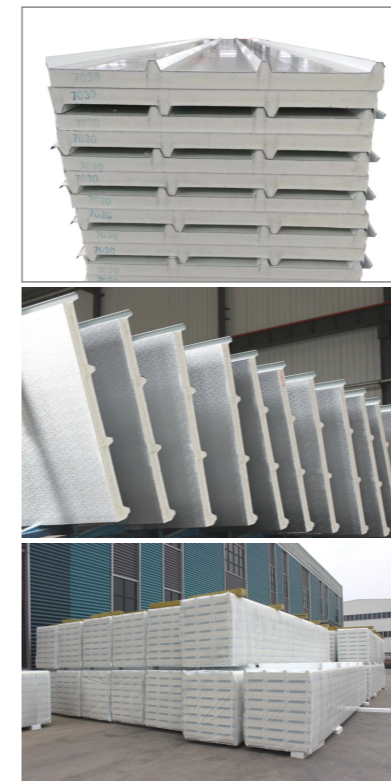
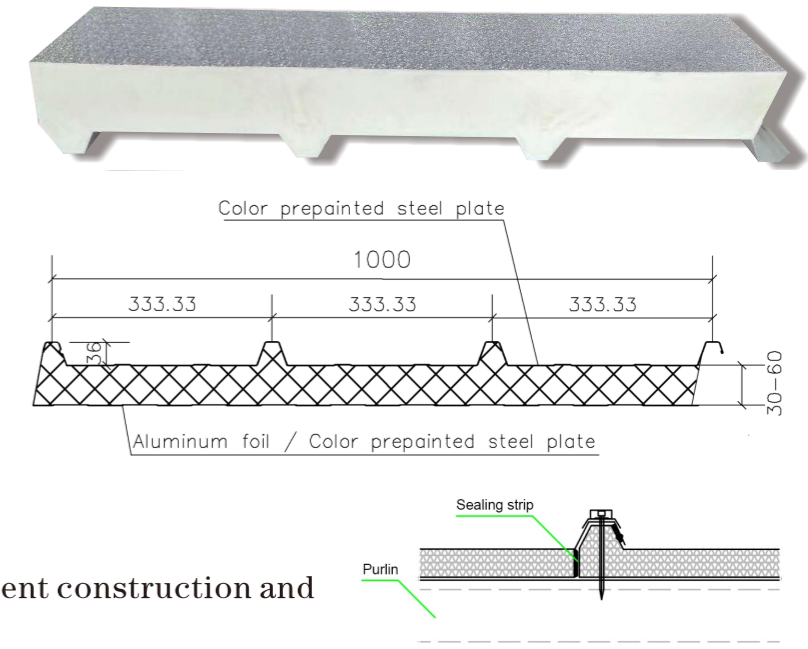


PNS Brand Aluminum Foil Sandwich Roof Panel

Product Introduction:

❖ The inner surface can choose ordinary color steel plate or aluminum foil. Aluminum foil has corrosion resistance, moisture resistance, acid and alkali resistance, and the outer surface adopts color steel plate to ensure the overall structural strength of roof maintenance. With aluminum foil veneer, it is suitable for various corrosive environments that do not react with aluminum.

❖ Exposed nails joint for convenient construction and installation.



Product Name	Aluminum Foil Sandwich Roof Panel	
Model	RF-1000A/PUR	RF-1000A/PIR
Core material	PU/PUR (Polyurethane)	PIR (Polyisocyanurate)
Density	40-42kg/m ³ (PU/PUR)	45-48kg/m ³ (PIR)
Thickness of panel	30-150mm	
Upper plate	Color steel plate (0.4-0.8mm)	
Inner steel plate	Color steel plate 0.4-0.7mm / Aluminum foil (0.06mm)	
Effective width	1000mm	
Length of panel	Max.11.8m	
Regular color	White gray, silver, sea blue or as per need	