KURTIN® PIR FOAM PANEL TECHNICAL DATA

1-Product Introduction

KURTIN® PIR FOAM INSULATION PANEL is a composite panel made of PIR as the insulation core material and double-sided composite fiberglass cement tissue skin or aluminum foil surface material. With the excellent self-adhesion of PIR foaming process, it is formed continuously in an automated production line with high dimensional stability and high flame retardancy.

2 - Advantages of KURTIN® PIR FOAM INSULATION PANEL

- Product is CFC/HCFC Free, more friendly to environment. Low Global Warming Potential
- Lower thermal conductivity, better insulation performance compare to other insulation material.
- Easy to handle and install (ease of cutting manually).
- Great fire reaction performances, self-extinguish as soon as the cause of fire removed.
- Excellent dimensional stability.
- Good water resistance to help last long life time thermal performance.

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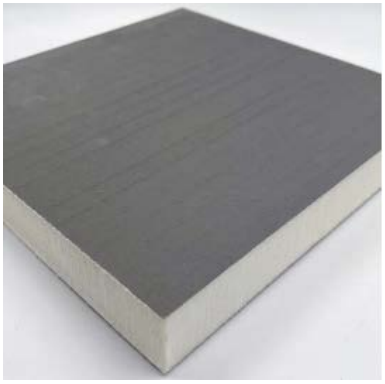
Technical info

Number	Items	PIR Panel
1	Regular size (Special size to be customized with discussion)	1200 x 2400 x 20-120 mm 1200 x 600 x 20-120mm
2	Skin material	Double sided fiberglass cement felt (Grey/White) Or Double-sided embossed aluminum foil
3	Flame retardant performance	B2 or B1
4	Oxygen Index	≥26% (B2) or ≥30% (B1)
5	Density	Overall Density 40±2kg/m³ or up to 60kg/m3
6	Thermal Conductivity	≤0.024w/(m·K)
7	Compressive Strength	≥150kpa
8	Close Cell Content	≥90%
9	Dimensional deviation	±2mm
10	Temperature range	-50℃~150℃ Short-term 200℃

Thermal resistance reference



Thickness	Thermal conductivity coefficient (W/(m·K)) **λ**	Thermal resistance value (m2·K/W) R	Heat transfer coefficient value (W/m²·K) K or U
20mm	0.023	0.87	1.15
30mm	0.023	1.30	0.77
40mm	0.023	1.74	0.57
50mm	0.023	2.17	0.46
60mm	0.023	2.61	0.38
70mm	0.023	3.04	0.33
80mm	0.023	3.48	0.29
90mm	0.023	3.91	0.26
100mm	0.023	4.35	0.23
110mm	0.023	4.78	0.21
120mm	0.023	5.22	0.19

Note: lower thermal conductivity can be produced with modifying the formula.

4 - Product appearance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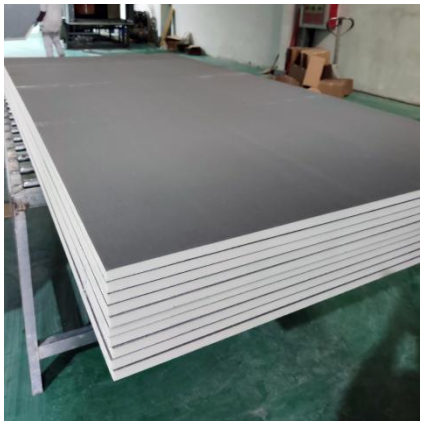
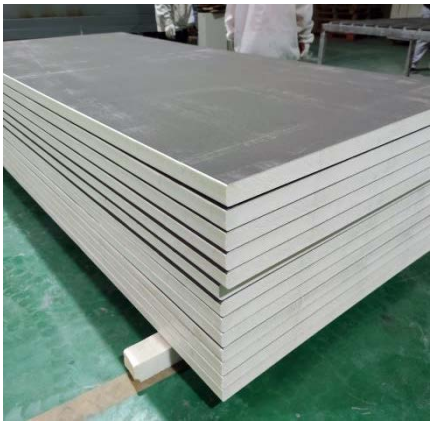
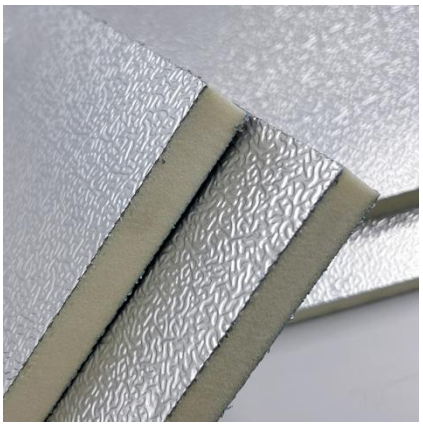
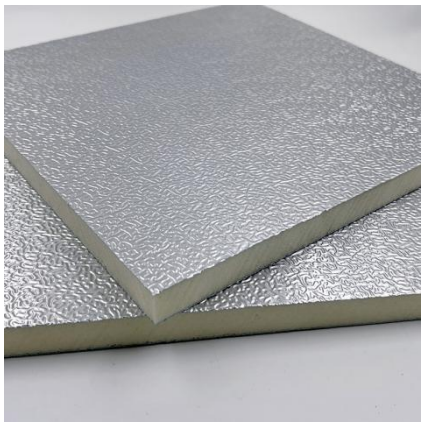
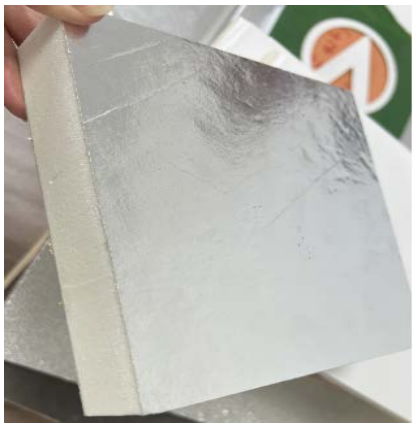



Double sided fiberglass cement tissue +PIR foam

Double-sided embossed aluminum foil +PIR foam

5- Application Area

PIR insulation panel is widely used in :



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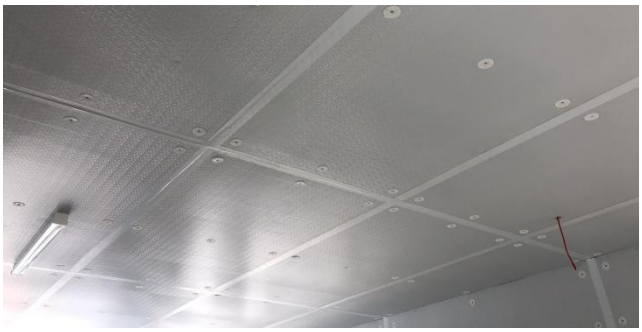
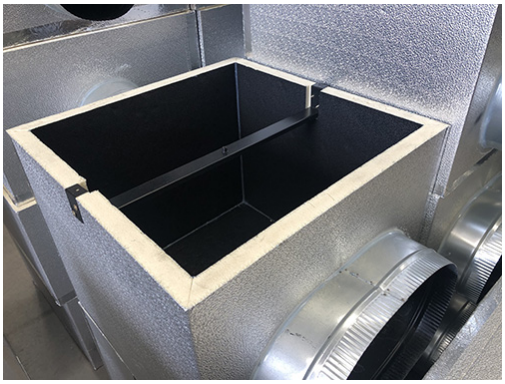
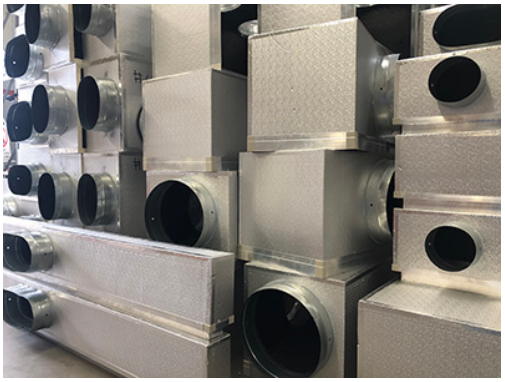
External wall thermal insulation field	Roof insulation field	Thermal insulation field of highway and railway tunnels



Ceiling insulation





Central air conditioning ventilation duct

6- About our PIR panel workshop

In 2013, Kurtin PIR production workshop was established. In the face of the increasing demand for energy conservation and building energy efficiency in today's society. Kurtin has been committed to technological innovation in the field of polyurethane with the concept of sustainable development of environmental protection and energy conservation for over 20 years. Its products involve the whole industry chain of rigid polyurethane foam, new energy-saving building materials and other related fields.

7- Packing & loading