HiGenik Building Supplies Inc.

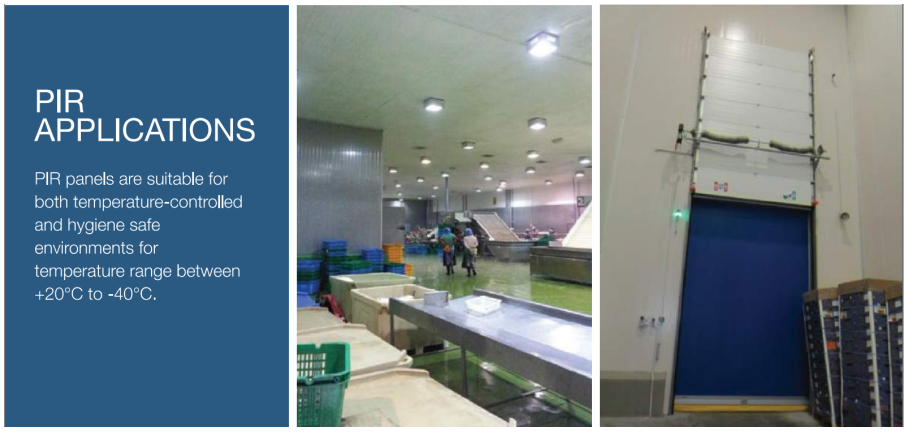
209 #306 Amang Rodriguez Ave. Barangay Manggahan, Pasig City

FM APPROVED PIR Sandwich Panel Technical Specifications

Product Overview

Polyisocyanurate (PIR) foam panels have excellent thermal conductivity, do not support the growth of fungi, are resistant to moisture ingress and are CFC-free, PIR Foam panels can only be produced on a continuous production line.

PIR panels are extremely lightweight and are accepted worldwide as the best fire rated solution for insulated panel construction. In preparation for PIR foam, a different set of catalysts are used in the production of PIR foam as compared with the PUR foam. This reaction is achieved at higher temperatures which creates strong isocyanurate linkages in the molecular structure. The linkages are much stronger than the normal PUR linkages and much more difficult to break, hence making the PIR foam chemically more stable.

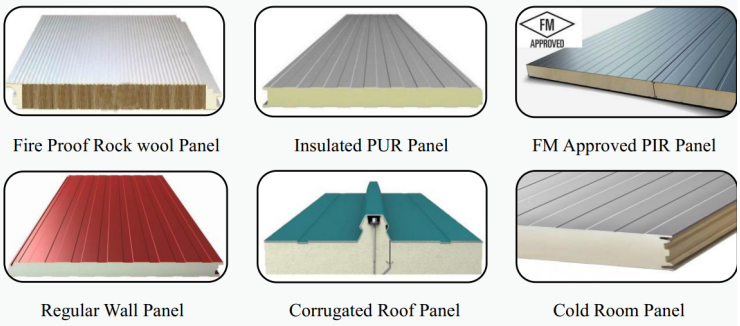


Choices of Panels

We offer a variety of panel core insulation and sheet materials depending on the nature of the business and specific requirements.

PIR core material has the best insulation rating of all materials shown. In additional to its excellent thermal performance, our FM Approved PIR panel offers:

Variety of Panel Types



Fire Proof Rock wool Panel | Insulated PUR Panel | FM Approved PIR Panel

Regular Wall Panel | Corrugated Roof Panel | Cold Room Panel

Sandwiched Sheet Materials

Exterior	Interior	Application Variety
PPGI/PPGL	PPGI/PPGL	Regular environment
Stainless Steel	PPGI/PPGL	Pharmaceutical, food processing
Stainless Steel	Stainless Steel	In particular required hygienic occasion
PPGI/PPGL	Alum Foil	Poultry farm with cost effective requirements

Superior Fire Resistance as a result of reduced flammability compared with other panel cores;

Moisture Resistant due to the foam's closed-cell properties;

Stronger parallel compression strength because PIR foam has better dimensional stability;

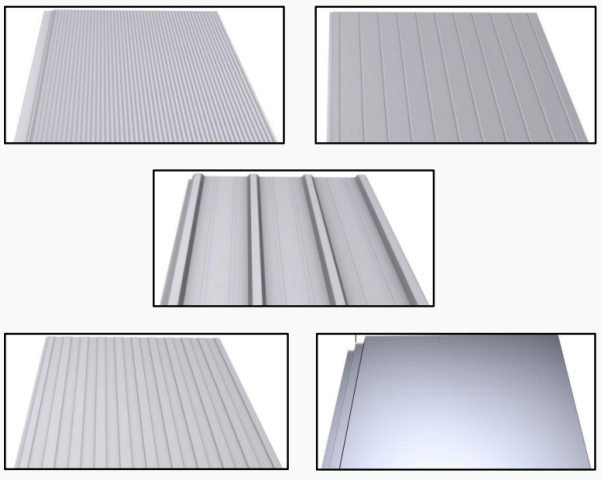
More savings by reduction in the energy costs in both heating and cooling;

Faster delivery time as the manufacturing process line speed increases;

No restrictions on length in a single panel due to continuous line;

Environmentally benefits as PIR cores contain no CFCs or HCFCs.

Profile Type Options



Profile Options

- Micro Ribbed
- Standard Ribbed
- Corrugated
- Squared
- Flattened

Technical Data Sheet

PUR/PIR panel	Width (mm)	Thickness (mm)	Exterior sheet thk (mm)	Interior sheet thk (mm)	Density (kg/m³)	Weight (kg/m²)
Wall panel	1000	50	0.5	0.5	40-43	11.30
		60	0.5	0.5	40-43	12.50
		80	0.5	0.5	40-43	13.40
Roof panel	1000	75	0.5	0.5	40-43	11.65
		95	0.5	0.5	40-43	12.50
Cold room panel	1135	50	0.5	0.5	40-43	11.40
		60	0.5	0.5	40-43	11.60
		80	0.5	0.5	40-43	12.40
		100	0.5	0.5	40-43	14.00
		120	0.5	0.5	40-43	14.90
		150	0.5	0.5	40-43	15.30
		180	0.5	0.5	40-43	16.70
		200	0.5	0.5	40-43	17.50

General Features of Steel Sheet in Coil

Material standard	JIS3312, ASTM792, EN10346
Coating mass	80-275g/m²
Paint thickness	5+15(20) / 8~10um
Finishing type	Sheet in coil, strip, sheet plate
Application	Building material, household appliances

FM Approval Certificate of Quality:

HIGENIK BUILDING SUPPLIES INC. has well a couple of established high quality insulation panel manufacturers. This ensures that we can serve the product requirements to various customers with the shortest possible lead time. Our quality is guaranteed as all of our suppliers have FM Approved Certificates. FM Approved Certificate provides the assurance that all panels manufactured will have a consistent quality and durability as required by FM Global Standards. The panels also have wind load tests and recommended installation methods in the typhoon prone area such as in the Philippines.

FM approvals class: 4880 4881 4471
Covers all panel types, with sheet over 0.5mm in thickness

AS4040.2, BCA2012 for roof panel
AS1170.0, AS1562.1, AS4040.1
AS4040.2, AS4040.3 for wall panel