

PIR Sandwich Panel Data Sheet

Insulated sandwich panel reference for industrial buildings, cold room envelopes and projects requiring improved fire behavior.



Product Overview

PIR sandwich panels use a rigid insulation core with metal facings. They are selected where the buyer needs a balance of thermal insulation, panel strength and improved fire behavior compared with standard PU systems.

Typical Technical Parameters

Item	Reference Value / Range
Core material	PIR rigid foam insulation core
Color steel thickness	0.3-0.8 mm
Wall panel core thickness	30-250 mm
Roof panel core thickness	20-200 mm / 30-200 mm by roof profile
Effective width	Wall: 1000 / 1120 mm; Roof: 1000 mm
Thermal conductivity reference	PIR/PU family reference: around 0.019-0.023 W/m.K in catalogue context; confirm by model
Panel length	Customizable according to order and transport limitations

Selection Notes

Selection Item	Buyer Review Point
Fire expectation	Confirm required fire classification and local standard before order.
Temperature range	Confirm room temperature, panel thickness and joint sealing details.

Typical Applications

Application	Project Reference
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Cold storage envelope	Freezer rooms, chillers and refrigerated warehouses
Industrial buildings	External wall and roof systems requiring insulation
Clean or food spaces	Insulated enclosure where smooth facings and sealing details are required

Quotation Checklist

Item	Information to Provide
Panel type and core material	Confirm PU, PIR, rock wool, EPS or clean/cold room system.
Thickness and steel skin	Confirm core thickness, inner/outer steel sheet thickness, coating and color.
Quantity and dimensions	Provide panel length, effective width requirement, project quantity and drawings if available.
Application and country	Provide building use, project country, fire/insulation expectations and destination port.
Accessories and packing	Confirm flashings, fasteners, packing method and loading reference.

Reference Notes

Values are compiled from LIAOHE catalogue references and common product ranges. They are for preliminary buyer review, not a substitute for final order drawings or engineering confirmation.

Fire rating, thermal value, loading span and certification applicability must be confirmed according to product model, thickness, facing material and destination market requirement.

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