

Global Polyisocyanurate (PIR) Sandwich Panel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Polyisocyanurate (PIR) Sandwich Panel market size was valued at US\$ 6152 million in 2025 and is forecast to a readjusted size of US\$ 9313 million by 2032 with a CAGR of 6.1% during review period.

Polyisocyanurate (PIR) Sandwich Panels are factory-manufactured insulated building envelope products consisting of a rigid closed-cell PIR foam core permanently bonded between two metal facings through continuous or discontinuous foaming and lamination processes. Major products include roof panels, external wall panels, internal wall and ceiling panels, cold storage panels, cleanroom panels, and a limited range of cold room floor panels. The facings are generally made of pre-painted galvanized steel or aluminum-zinc coated steel, while stainless steel, aluminum, and hygienic film-laminated steel are used in more demanding applications, with typical core thicknesses ranging from approximately 40 mm to 200 mm. Key upstream inputs include coated steel coil, stainless steel and aluminum coil, polymeric isocyanate, polyester polyols, catalysts, flame retardants, blowing agents, foam stabilizers, sealing materials, and packaging materials. Major downstream customers include industrial building envelope contractors, cold storage and cold-chain engineering companies, warehouse and logistics developers, food and pharmaceutical cleanroom contractors, commercial construction companies, and modular building manufacturers. Principal applications include factories, warehouses, logistics centers, refrigerated and frozen storage facilities, food processing plants, pharmaceutical cleanrooms, data centers, and modular buildings. On a panel-only factory-gate basis, global effective production capacity is estimated at approximately 184 million square meters in 2025, with sales volume of around 136.5 million square meters, theoretical capacity utilization of

approximately 74.2%, and a global weighted average selling price of approximately USD 43.8 per square meter. The industry's average gross margin is estimated at approximately 18%?26%.

The global Polyisocyanurate (PIR) Sandwich Panel market is characterized by the coexistence of large international building envelope groups and regional manufacturers, with production and sales remaining highly localized. Because the panels are bulky, relatively costly to transport over long distances, and vulnerable to surface damage during handling, major suppliers generally rely on regional manufacturing facilities and nearby delivery networks. Leading international companies maintain advantages in mid- and high-end industrial, cold-chain, and public building projects through large-scale material procurement, continuous production, product certification, and integrated envelope solutions. Regional manufacturers compete primarily through pricing, delivery speed, and customized specifications in standardized factories, warehouses, and cold storage projects.

Market demand is mainly driven by the continued development of industrial buildings, logistics warehouses, cold-chain facilities, food processing plants, pharmaceutical cleanrooms, data centers, and modular construction. Compared with site-built masonry and multilayer insulation systems, PIR sandwich panels integrate thermal insulation, enclosure, weather protection, and surface finishing into factory-made components, helping shorten construction schedules, reduce wet trades, and improve building airtightness. Refrigerated warehouses, freezer facilities, and food and pharmaceutical buildings require strong insulation, reliable joint sealing, hygienic surfaces, and long-term dimensional stability, making them important sources of market growth. Rising energy-efficiency requirements and renovation of existing industrial buildings will also support demand for roof and wall panels.

Future product development will focus on improving complete-system fire performance, lowering thermal conductivity, enhancing joint airtightness, and reducing lifecycle carbon emissions. Manufacturers are expected to make greater use of lower-impact blowing agents, lower-carbon steel, recycled metal facings, and traceable raw materials while strengthening control over foam density, closed-cell content, facing adhesion, and long-term thermal aging. In premium applications, product evaluation will increasingly shift from isolated core properties toward the integrated performance of the complete panel system under fire, wind pressure, air leakage, water penetration, corrosion, and long-term service conditions. Compatibility with photovoltaic roofing, digital design, standardized joint systems, and prefabricated construction will also become increasingly important.

The industry continues to face constraints from raw-material price volatility, changing construction investment cycles, stricter fire regulations, and intense competition in standardized products. Fluctuations in coated steel, polymeric isocyanate, and polyol prices directly affect manufacturing costs, while project-based sales may delay the pass-through of higher input costs. Mineral wool sandwich panels may substitute for PIR products in high-rise buildings, densely occupied facilities, and industrial sites with elevated fire risks. Market share is therefore expected to become increasingly concentrated among suppliers with stable continuous production, comprehensive certification, local service networks, lower-carbon material solutions, and reliable project delivery capabilities, while low-end producers will face mounting pressure from both price competition and product-quality risks.

This report is a detailed and comprehensive analysis for global Polyisocyanurate (PIR) Sandwich Panel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polyisocyanurate (PIR) Sandwich Panel market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Polyisocyanurate (PIR) Sandwich Panel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Polyisocyanurate (PIR) Sandwich Panel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Polyisocyanurate (PIR) Sandwich Panel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Polyisocyanurate (PIR) Sandwich Panel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Polyisocyanurate (PIR) Sandwich Panel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kingspan Group, Nucor Corporation, ArcelorMittal, Tata Steel, SSAB, Isopan, Metecno Group, Assan Panel, Nippon Steel Corporation, Paneltech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Polyisocyanurate (PIR) Sandwich Panel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Roof Panels

External Wall Panels

Internal Wall and Ceiling Panels

Floor Panels

Other

Market segment by Panel Thickness

Up to 60 mm

61?100 mm

101?150 mm

Above 150 mm

Market segment by Facing Material

Pre-painted Galvanized or Al-Zn Coated Steel

Stainless Steel

Aluminum

Other

Market segment by Application

Industrial Buildings

Cold Storage and Cold Chain

Warehousing and Logistics

Commercial and Public Buildings

Other

Major players covered

Kingspan Group

Nucor Corporation

ArcelorMittal

Tata Steel

SSAB

Isopan

Metecno Group

Assan Panel

Nippon Steel Corporation

Paneltech

Emirates Industrial Panel

Wiskind

Wanhua Energysav Science & Technology Group

BRD New Materials

KINDUS

PH Insulation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polyisocyanurate (PIR) Sandwich Panel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polyisocyanurate (PIR) Sandwich Panel, with price, sales quantity, revenue, and global market share of Polyisocyanurate (PIR) Sandwich Panel from 2021 to 2026.

Chapter 3, the Polyisocyanurate (PIR) Sandwich Panel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polyisocyanurate (PIR) Sandwich Panel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Polyisocyanurate (PIR) Sandwich Panel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polyisocyanurate (PIR) Sandwich Panel.

Chapter 14 and 15, to describe Polyisocyanurate (PIR) Sandwich Panel sales channel, distributors, customers, research findings and conclusion.

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