

Global PIR Foam Sandwich Panel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PIR Foam Sandwich Panel market size is expected to reach \$ 9313 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

PIR Foam Sandwich Panels are factory-manufactured insulated envelope products consisting of a rigid closed-cell polyisocyanurate foam core bonded between two pre-painted galvanized steel, aluminum-zinc coated steel, or other 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, 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, pigments, sealing materials, and protective films. Major downstream customers include industrial building envelope contractors, steel structure companies, cold storage and cold-chain engineering firms, warehouse and logistics developers, food and pharmaceutical cleanroom contractors, data center developers, 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 agricultural 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 PIR Foam Sandwich Panel market is characterized by the coexistence of large international building envelope groups and specialized regional manufacturers, with production and sales remaining highly localized. Because the panels are bulky and have a limited economical transportation radius, major suppliers generally establish manufacturing facilities close to key industrial, logistics, and cold-chain markets and sell through local distributors, construction contractors, and building envelope integrators. Leading international companies maintain advantages in premium projects through automated continuous production, stable foam formulations, comprehensive fire certifications, and engineering design capabilities, while regional manufacturers compete mainly through cost, delivery speed, and customized dimensions.

Demand is primarily driven by industrial facilities, logistics warehouses, cold storage, food processing plants, pharmaceutical cleanrooms, data centers, and modular construction. PIR foam 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 and thermal performance. Refrigerated warehouses, freezer facilities, and food and pharmaceutical buildings require low thermal conductivity, reliable joint sealing, hygienic surfaces, and long-term dimensional stability, making them important application markets. Rising building energy-efficiency standards and renovation of existing industrial buildings are also expected to support steady demand for roof and wall panels.

Future product development will focus on improving complete-system fire performance, reducing thermal conductivity, enhancing long-term dimensional stability, and lowering lifecycle carbon emissions. Manufacturers are expected to optimize the isocyanate index, catalyst systems, flame-retardant formulations, and cell structures to improve closed-cell content, facing adhesion, and long-term thermal stability, while increasing the use of lower-impact blowing agents, lower-carbon steel facings, and recycled materials. Premium product evaluation will gradually 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 aging conditions. Photovoltaic-ready roofing, digital detailing, and standardized joint systems will also become increasingly important.

The industry continues to face constraints from fluctuations in coated steel, polymeric isocyanate, polyol, and blowing-agent costs, together with stricter fire regulations and intense competition in standardized products. Although PIR foam sandwich panels

generally provide better heat resistance and charring behavior than conventional polyurethane panels, they remain organic foam products and may be replaced by mineral wool panels in high-rise buildings, densely occupied facilities, and sites with elevated fire risks. Lower-priced products with insufficient core density, uneven foaming, poor facing adhesion, or inaccurate joint dimensions may experience delamination, water penetration, thermal deterioration, and safety problems. Future market share is expected to become increasingly concentrated among suppliers with stable continuous production, comprehensive certification, localized supply networks, lower-carbon material solutions, and reliable project delivery capabilities.

This report studies the global PIR Foam Sandwich Panel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PIR Foam Sandwich Panel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PIR Foam Sandwich Panel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PIR Foam Sandwich Panel total production and demand, 2021-2032, (K Square Meters)

Global PIR Foam Sandwich Panel total production value, 2021-2032, (USD Million)

Global PIR Foam Sandwich Panel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Square Meters), (based on production site)

Global PIR Foam Sandwich Panel consumption by region & country, CAGR, 2021-2032 & (K Square Meters)

U.S. VS China: PIR Foam Sandwich Panel domestic production, consumption, key domestic manufacturers and share

Global PIR Foam Sandwich Panel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Square Meters)

Global PIR Foam Sandwich Panel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Square Meters)

Global PIR Foam Sandwich Panel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Square Meters)

This report profiles key players in the global PIR Foam Sandwich Panel market based on the following parameters - company overview, production, value, 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, Paneltech, TSSC Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PIR Foam Sandwich Panel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Square Meters) and average price (US\$/ Square Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PIR Foam Sandwich Panel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PIR Foam Sandwich Panel Market, Segmentation by Type:

Roof Panels

External Wall Panels

Internal Wall and Ceiling Panels

Floor Panels

Other

Global PIR Foam Sandwich Panel Market, Segmentation by Panel Thickness:

Up to 60 mm

61-100 mm

101-150 mm

Above 150 mm

Global PIR Foam Sandwich Panel Market, Segmentation by Facing Material:

Pre-painted Galvanized Steel

Pre-painted Al-Zn Coated Steel

Stainless Steel

Other

Global PIR Foam Sandwich Panel Market, Segmentation by Application:

Industrial Buildings

Cold Storage and Cold Chain

Warehousing and Logistics

Commercial and Public Buildings

Other

Companies Profiled:

Kingspan Group

Nucor Corporation

ArcelorMittal

Tata Steel

SSAB

Isopan

Metecno Group

Assan Panel

Paneltech

TSSC Group

KINDUS

PH Insulation

Wiskind

Wanhua Energysav Science & Technology Group

BRD New Materials

Key Questions Answered:

1. How big is the global PIR Foam Sandwich Panel market?
2. What is the demand of the global PIR Foam Sandwich Panel market?
3. What is the year over year growth of the global PIR Foam Sandwich Panel market?
4. What is the production and production value of the global PIR Foam Sandwich Panel market?
5. Who are the key producers in the global PIR Foam Sandwich Panel market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 PIR Foam Sandwich Panel Introduction
- 1.2 World PIR Foam Sandwich Panel Supply & Forecast
 - 1.2.1 World PIR Foam Sandwich Panel Production Value (2021 & 2025 & 2032)
 - 1.2.2 World PIR Foam Sandwich Panel Production (2021-2032)
 - 1.2.3 World PIR Foam Sandwich Panel Pricing Trends (2021-2032)
- 1.3 World PIR Foam Sandwich Panel Production by Region (Based on Production Site)
 - 1.3.1 World PIR Foam Sandwich Panel Production Value by Region (2021-2032)
 - 1.3.2 World PIR Foam Sandwich Panel Production by Region (2021-2032)
 - 1.3.3 World PIR Foam Sandwich Panel Average Price by Region (2021-2032)
 - 1.3.4 North America PIR Foam Sandwich Panel Production (2021-2032)
 - 1.3.5 Europe PIR Foam Sandwich Panel Production (2021-2032)
 - 1.3.6 China PIR Foam Sandwich Panel Production (2021-2032)
 - 1.3.7 Japan PIR Foam Sandwich Panel Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 PIR Foam Sandwich Panel Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 PIR Foam Sandwich Panel Major Market Trends

2 DEMAND SUMMARY

- 2.1 World PIR Foam Sandwich Panel Demand (2021-2032)
- 2.2 World PIR Foam Sandwich Panel Consumption by Region
 - 2.2.1 World PIR Foam Sandwich Panel Consumption by Region (2021-2026)
 - 2.2.2 World PIR Foam Sandwich Panel Consumption Forecast by Region (2027-2032)
- 2.3 United States PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.4 China PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.5 Europe PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.6 Japan PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.7 South Korea PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.8 ASEAN PIR Foam Sandwich Panel Consumption (2021-2032)
- 2.9 India PIR Foam Sandwich Panel Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World PIR Foam Sandwich Panel Production Value by Manufacturer (2021-2026)

- 3.2 World PIR Foam Sandwich Panel Production by Manufacturer (2021-2026)
- 3.3 World PIR Foam Sandwich Panel Average Price by Manufacturer (2021-2026)
- 3.4 PIR Foam Sandwich Panel Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global PIR Foam Sandwich Panel Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for PIR Foam Sandwich Panel in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for PIR Foam Sandwich Panel in 2025
- 3.6 PIR Foam Sandwich Panel Market: Overall Company Footprint Analysis
 - 3.6.1 PIR Foam Sandwich Panel Market: Region Footprint
 - 3.6.2 PIR Foam Sandwich Panel Market: Company Product Type Footprint
 - 3.6.3 PIR Foam Sandwich Panel Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: PIR Foam Sandwich Panel Production Value Comparison
 - 4.1.1 United States VS China: PIR Foam Sandwich Panel Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: PIR Foam Sandwich Panel Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: PIR Foam Sandwich Panel Production Comparison
 - 4.2.1 United States VS China: PIR Foam Sandwich Panel Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: PIR Foam Sandwich Panel Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: PIR Foam Sandwich Panel Consumption Comparison
 - 4.3.1 United States VS China: PIR Foam Sandwich Panel Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: PIR Foam Sandwich Panel Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based PIR Foam Sandwich Panel Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers PIR Foam Sandwich Panel Production Value (2021-2026)

4.4.3 United States Based Manufacturers PIR Foam Sandwich Panel Production (2021-2026)

4.5 China Based PIR Foam Sandwich Panel Manufacturers and Market Share

4.5.1 China Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers PIR Foam Sandwich Panel Production Value (2021-2026)

4.5.3 China Based Manufacturers PIR Foam Sandwich Panel Production (2021-2026)

4.6 Rest of World Based PIR Foam Sandwich Panel Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers PIR Foam Sandwich Panel Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers PIR Foam Sandwich Panel Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World PIR Foam Sandwich Panel Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Roof Panels

5.2.2 External Wall Panels

5.2.3 Internal Wall and Ceiling Panels

5.2.4 Floor Panels

5.2.5 Other

5.3 Market Segment by Type

5.3.1 World PIR Foam Sandwich Panel Production by Type (2021-2032)

5.3.2 World PIR Foam Sandwich Panel Production Value by Type (2021-2032)

5.3.3 World PIR Foam Sandwich Panel Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PANEL THICKNESS

6.1 World PIR Foam Sandwich Panel Market Size Overview by Panel Thickness: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Panel Thickness

6.2.1 Up to 60 mm

6.2.2 61-100 mm

6.2.3 101-150 mm

6.2.4 Above 150 mm

6.3 Market Segment by Panel Thickness

6.3.1 World PIR Foam Sandwich Panel Production by Panel Thickness (2021-2032)

6.3.2 World PIR Foam Sandwich Panel Production Value by Panel Thickness
(2021-2032)

6.3.3 World PIR Foam Sandwich Panel Average Price by Panel Thickness
(2021-2032)

7 MARKET ANALYSIS BY FACING MATERIAL

7.1 World PIR Foam Sandwich Panel Market Size Overview by Facing Material: 2021
VS 2025 VS 2032

7.2 Segment Introduction by Facing Material

7.2.1 Pre-painted Galvanized Steel

7.2.2 Pre-painted Al-Zn Coated Steel

7.2.3 Stainless Steel

7.2.4 Other

7.3 Market Segment by Facing Material

7.3.1 World PIR Foam Sandwich Panel Production by Facing Material (2021-2032)

7.3.2 World PIR Foam Sandwich Panel Production Value by Facing Material
(2021-2032)

7.3.3 World PIR Foam Sandwich Panel Average Price by Facing Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World PIR Foam Sandwich Panel Market Size Overview by Application: 2021 VS
2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Buildings

8.2.2 Cold Storage and Cold Chain

8.2.3 Warehousing and Logistics

8.2.4 Commercial and Public Buildings

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World PIR Foam Sandwich Panel Production by Application (2021-2032)

8.3.2 World PIR Foam Sandwich Panel Production Value by Application (2021-2032)

8.3.3 World PIR Foam Sandwich Panel Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Kingspan Group

9.1.1 Kingspan Group Details

9.1.2 Kingspan Group Major Business

9.1.3 Kingspan Group PIR Foam Sandwich Panel Product and Services

9.1.4 Kingspan Group PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Kingspan Group Recent Developments/Updates

9.1.6 Kingspan Group Competitive Strengths & Weaknesses

9.2 Nucor Corporation

9.2.1 Nucor Corporation Details

9.2.2 Nucor Corporation Major Business

9.2.3 Nucor Corporation PIR Foam Sandwich Panel Product and Services

9.2.4 Nucor Corporation PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Nucor Corporation Recent Developments/Updates

9.2.6 Nucor Corporation Competitive Strengths & Weaknesses

9.3 ArcelorMittal

9.3.1 ArcelorMittal Details

9.3.2 ArcelorMittal Major Business

9.3.3 ArcelorMittal PIR Foam Sandwich Panel Product and Services

9.3.4 ArcelorMittal PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 ArcelorMittal Recent Developments/Updates

9.3.6 ArcelorMittal Competitive Strengths & Weaknesses

9.4 Tata Steel

9.4.1 Tata Steel Details

9.4.2 Tata Steel Major Business

9.4.3 Tata Steel PIR Foam Sandwich Panel Product and Services

9.4.4 Tata Steel PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tata Steel Recent Developments/Updates

9.4.6 Tata Steel Competitive Strengths & Weaknesses

9.5 SSAB

9.5.1 SSAB Details

9.5.2 SSAB Major Business

- 9.5.3 SSAB PIR Foam Sandwich Panel Product and Services
- 9.5.4 SSAB PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 SSAB Recent Developments/Updates
- 9.5.6 SSAB Competitive Strengths & Weaknesses
- 9.6 Isopan
 - 9.6.1 Isopan Details
 - 9.6.2 Isopan Major Business
 - 9.6.3 Isopan PIR Foam Sandwich Panel Product and Services
 - 9.6.4 Isopan PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Isopan Recent Developments/Updates
 - 9.6.6 Isopan Competitive Strengths & Weaknesses
- 9.7 Metecno Group
 - 9.7.1 Metecno Group Details
 - 9.7.2 Metecno Group Major Business
 - 9.7.3 Metecno Group PIR Foam Sandwich Panel Product and Services
 - 9.7.4 Metecno Group PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Metecno Group Recent Developments/Updates
 - 9.7.6 Metecno Group Competitive Strengths & Weaknesses
- 9.8 Assan Panel
 - 9.8.1 Assan Panel Details
 - 9.8.2 Assan Panel Major Business
 - 9.8.3 Assan Panel PIR Foam Sandwich Panel Product and Services
 - 9.8.4 Assan Panel PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Assan Panel Recent Developments/Updates
 - 9.8.6 Assan Panel Competitive Strengths & Weaknesses
- 9.9 Paneltech
 - 9.9.1 Paneltech Details
 - 9.9.2 Paneltech Major Business
 - 9.9.3 Paneltech PIR Foam Sandwich Panel Product and Services
 - 9.9.4 Paneltech PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Paneltech Recent Developments/Updates
 - 9.9.6 Paneltech Competitive Strengths & Weaknesses
- 9.10 TSSC Group
 - 9.10.1 TSSC Group Details

- 9.10.2 TSSC Group Major Business
- 9.10.3 TSSC Group PIR Foam Sandwich Panel Product and Services
- 9.10.4 TSSC Group PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 TSSC Group Recent Developments/Updates
- 9.10.6 TSSC Group Competitive Strengths & Weaknesses
- 9.11 KINDUS
 - 9.11.1 KINDUS Details
 - 9.11.2 KINDUS Major Business
 - 9.11.3 KINDUS PIR Foam Sandwich Panel Product and Services
 - 9.11.4 KINDUS PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 KINDUS Recent Developments/Updates
 - 9.11.6 KINDUS Competitive Strengths & Weaknesses
- 9.12 PH Insulation
 - 9.12.1 PH Insulation Details
 - 9.12.2 PH Insulation Major Business
 - 9.12.3 PH Insulation PIR Foam Sandwich Panel Product and Services
 - 9.12.4 PH Insulation PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 PH Insulation Recent Developments/Updates
 - 9.12.6 PH Insulation Competitive Strengths & Weaknesses
- 9.13 Wiskind
 - 9.13.1 Wiskind Details
 - 9.13.2 Wiskind Major Business
 - 9.13.3 Wiskind PIR Foam Sandwich Panel Product and Services
 - 9.13.4 Wiskind PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Wiskind Recent Developments/Updates
 - 9.13.6 Wiskind Competitive Strengths & Weaknesses
- 9.14 Wanhua Energysav Science & Technology Group
 - 9.14.1 Wanhua Energysav Science & Technology Group Details
 - 9.14.2 Wanhua Energysav Science & Technology Group Major Business
 - 9.14.3 Wanhua Energysav Science & Technology Group PIR Foam Sandwich Panel Product and Services
 - 9.14.4 Wanhua Energysav Science & Technology Group PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Wanhua Energysav Science & Technology Group Recent Developments/Updates

9.14.6 Wanhua Energysav Science & Technology Group Competitive Strengths & Weaknesses

9.15 BRD New Materials

9.15.1 BRD New Materials Details

9.15.2 BRD New Materials Major Business

9.15.3 BRD New Materials PIR Foam Sandwich Panel Product and Services

9.15.4 BRD New Materials PIR Foam Sandwich Panel Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 BRD New Materials Recent Developments/Updates

9.15.6 BRD New Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 PIR Foam Sandwich Panel Industry Chain

10.2 PIR Foam Sandwich Panel Upstream Analysis

10.2.1 PIR Foam Sandwich Panel Core Raw Materials

10.2.2 Main Manufacturers of PIR Foam Sandwich Panel Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 PIR Foam Sandwich Panel Production Mode

10.6 PIR Foam Sandwich Panel Procurement Model

10.7 PIR Foam Sandwich Panel Industry Sales Model and Sales Channels

10.7.1 PIR Foam Sandwich Panel Sales Model

10.7.2 PIR Foam Sandwich Panel Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World PIR Foam Sandwich Panel Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World PIR Foam Sandwich Panel Production Value by Region (2021-2026) & (USD Million)

Table 3. World PIR Foam Sandwich Panel Production Value by Region (2027-2032) & (USD Million)

Table 4. World PIR Foam Sandwich Panel Production Value Market Share by Region (2021-2026)

Table 5. World PIR Foam Sandwich Panel Production Value Market Share by Region (2027-2032)

Table 6. World PIR Foam Sandwich Panel Production by Region (2021-2026) & (K Square Meters)

Table 7. World PIR Foam Sandwich Panel Production by Region (2027-2032) & (K Square Meters)

Table 8. World PIR Foam Sandwich Panel Production Market Share by Region (2021-2026)

Table 9. World PIR Foam Sandwich Panel Production Market Share by Region (2027-2032)

Table 10. World PIR Foam Sandwich Panel Average Price by Region (2021-2026) & (US\$/ Square Meter)

Table 11. World PIR Foam Sandwich Panel Average Price by Region (2027-2032) & (US\$/ Square Meter)

Table 12. PIR Foam Sandwich Panel Major Market Trends

Table 13. World PIR Foam Sandwich Panel Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Square Meters)

Table 14. World PIR Foam Sandwich Panel Consumption by Region (2021-2026) & (K Square Meters)

Table 15. World PIR Foam Sandwich Panel Consumption Forecast by Region (2027-2032) & (K Square Meters)

Table 16. World PIR Foam Sandwich Panel Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key PIR Foam Sandwich Panel Producers in 2025

Table 18. World PIR Foam Sandwich Panel Production by Manufacturer (2021-2026) & (K Square Meters)

Table 19. Production Market Share of Key PIR Foam Sandwich Panel Producers in 2025

Table 20. World PIR Foam Sandwich Panel Average Price by Manufacturer (2021-2026) & (US\$/ Square Meter)

Table 21. Global PIR Foam Sandwich Panel Company Evaluation Quadrant

Table 22. World PIR Foam Sandwich Panel Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and PIR Foam Sandwich Panel Production Site of Key Manufacturer

Table 24. PIR Foam Sandwich Panel Market: Company Product Type Footprint

Table 25. PIR Foam Sandwich Panel Market: Company Product Application Footprint

Table 26. PIR Foam Sandwich Panel Competitive Factors

Table 27. PIR Foam Sandwich Panel New Entrant and Capacity Expansion Plans

Table 28. PIR Foam Sandwich Panel Mergers & Acquisitions Activity

Table 29. United States VS China PIR Foam Sandwich Panel Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China PIR Foam Sandwich Panel Production Comparison, (2021 & 2025 & 2032) & (K Square Meters)

Table 31. United States VS China PIR Foam Sandwich Panel Consumption Comparison, (2021 & 2025 & 2032) & (K Square Meters)

Table 32. United States Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers PIR Foam Sandwich Panel Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers PIR Foam Sandwich Panel Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers PIR Foam Sandwich Panel Production (2021-2026) & (K Square Meters)

Table 36. United States Based Manufacturers PIR Foam Sandwich Panel Production Market Share (2021-2026)

Table 37. China Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers PIR Foam Sandwich Panel Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers PIR Foam Sandwich Panel Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers PIR Foam Sandwich Panel Production, (2021-2026) & (K Square Meters)

Table 41. China Based Manufacturers PIR Foam Sandwich Panel Production Market

Share (2021-2026)

Table 42. Rest of World Based PIR Foam Sandwich Panel Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers PIR Foam Sandwich Panel Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers PIR Foam Sandwich Panel Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers PIR Foam Sandwich Panel Production, (2021-2026) & (K Square Meters)

Table 46. Rest of World Based Manufacturers PIR Foam Sandwich Panel Production Market Share (2021-2026)

Table 47. World PIR Foam Sandwich Panel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World PIR Foam Sandwich Panel Production by Type (2021-2026) & (K Square Meters)

Table 49. World PIR Foam Sandwich Panel Production by Type (2027-2032) & (K Square Meters)

Table 50. World PIR Foam Sandwich Panel Production Value by Type (2021-2026) & (USD Million)

Table 51. World PIR Foam Sandwich Panel Production Value by Type (2027-2032) & (USD Million)

Table 52. World PIR Foam Sandwich Panel Average Price by Type (2021-2026) & (US\$/ Square Meter)

Table 53. World PIR Foam Sandwich Panel Average Price by Type (2027-2032) & (US\$/ Square Meter)

Table 54. World PIR Foam Sandwich Panel Production Value by Panel Thickness, (USD Million), 2021 & 2025 & 2032

Table 55. World PIR Foam Sandwich Panel Production by Panel Thickness (2021-2026) & (K Square Meters)

Table 56. World PIR Foam Sandwich Panel Production by Panel Thickness (2027-2032) & (K Square Meters)

Table 57. World PIR Foam Sandwich Panel Production Value by Panel Thickness (2021-2026) & (USD Million)

Table 58. World PIR Foam Sandwich Panel Production Value by Panel Thickness (2027-2032) & (USD Million)

Table 59. World PIR Foam Sandwich Panel Average Price by Panel Thickness (2021-2026) & (US\$/ Square Meter)

Table 60. World PIR Foam Sandwich Panel Average Price by Panel Thickness (2027-2032) & (US\$/ Square Meter)

Table 61. World PIR Foam Sandwich Panel Production Value by Facing Material, (USD Million), 2021 & 2025 & 2032

Table 62. World PIR Foam Sandwich Panel Production by Facing Material (2021-2026) & (K Square Meters)

Table 63. World PIR Foam Sandwich Panel Production by Facing Material (2027-2032) & (K Square Meters)

Table 64. World PIR Foam Sandwich Panel Production Value by Facing Material (2021-2026) & (USD Million)

Table 65. World PIR Foam Sandwich Panel Production Value by Facing Material (2027-2032) & (USD Million)

Table 66. World PIR Foam Sandwich Panel Average Price by Facing Material (2021-2026) & (US\$/ Square Meter)

Table 67. World PIR Foam Sandwich Panel Average Price by Facing Material (2027-2032) & (US\$/ Square Meter)

Table 68. World PIR Foam Sandwich Panel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World PIR Foam Sandwich Panel Production by Application (2021-2026) & (K Square Meters)

Table 70. World PIR Foam Sandwich Panel Production by Application (2027-2032) & (K Square Meters)

Table 71. World PIR Foam Sandwich Panel Production Value by Application (2021-2026) & (USD Million)

Table 72. World PIR Foam Sandwich Panel Production Value by Application (2027-2032) & (USD Million)

Table 73. World PIR Foam Sandwich Panel Average Price by Application (2021-2026) & (US\$/ Square Meter)

Table 74. World PIR Foam Sandwich Panel Average Price by Application (2027-2032) & (US\$/ Square Meter)

Table 75. Kingspan Group Basic Information, Manufacturing Base and Competitors

Table 76. Kingspan Group Major Business

Table 77. Kingspan Group PIR Foam Sandwich Panel Product and Services

Table 78. Kingspan Group PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Kingspan Group Recent Developments/Updates

Table 80. Kingspan Group Competitive Strengths & Weaknesses

Table 81. Nucor Corporation Basic Information, Manufacturing Base and Competitors

Table 82. Nucor Corporation Major Business

Table 83. Nucor Corporation PIR Foam Sandwich Panel Product and Services

Table 84. Nucor Corporation PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Nucor Corporation Recent Developments/Updates

Table 86. Nucor Corporation Competitive Strengths & Weaknesses

Table 87. ArcelorMittal Basic Information, Manufacturing Base and Competitors

Table 88. ArcelorMittal Major Business

Table 89. ArcelorMittal PIR Foam Sandwich Panel Product and Services

Table 90. ArcelorMittal PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ArcelorMittal Recent Developments/Updates

Table 92. ArcelorMittal Competitive Strengths & Weaknesses

Table 93. Tata Steel Basic Information, Manufacturing Base and Competitors

Table 94. Tata Steel Major Business

Table 95. Tata Steel PIR Foam Sandwich Panel Product and Services

Table 96. Tata Steel PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tata Steel Recent Developments/Updates

Table 98. Tata Steel Competitive Strengths & Weaknesses

Table 99. SSAB Basic Information, Manufacturing Base and Competitors

Table 100. SSAB Major Business

Table 101. SSAB PIR Foam Sandwich Panel Product and Services

Table 102. SSAB PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SSAB Recent Developments/Updates

Table 104. SSAB Competitive Strengths & Weaknesses

Table 105. Isopan Basic Information, Manufacturing Base and Competitors

Table 106. Isopan Major Business

Table 107. Isopan PIR Foam Sandwich Panel Product and Services

Table 108. Isopan PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Isopan Recent Developments/Updates

Table 110. Isopan Competitive Strengths & Weaknesses

Table 111. Metecno Group Basic Information, Manufacturing Base and Competitors

Table 112. Metecno Group Major Business

Table 113. Metecno Group PIR Foam Sandwich Panel Product and Services

Table 114. Metecno Group PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Metecno Group Recent Developments/Updates

Table 116. Metecno Group Competitive Strengths & Weaknesses

Table 117. Assan Panel Basic Information, Manufacturing Base and Competitors

Table 118. Assan Panel Major Business

Table 119. Assan Panel PIR Foam Sandwich Panel Product and Services

Table 120. Assan Panel PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Assan Panel Recent Developments/Updates

Table 122. Assan Panel Competitive Strengths & Weaknesses

Table 123. Paneltech Basic Information, Manufacturing Base and Competitors

Table 124. Paneltech Major Business

Table 125. Paneltech PIR Foam Sandwich Panel Product and Services

Table 126. Paneltech PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Paneltech Recent Developments/Updates

Table 128. Paneltech Competitive Strengths & Weaknesses

Table 129. TSSC Group Basic Information, Manufacturing Base and Competitors

Table 130. TSSC Group Major Business

Table 131. TSSC Group PIR Foam Sandwich Panel Product and Services

Table 132. TSSC Group PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TSSC Group Recent Developments/Updates

Table 134. TSSC Group Competitive Strengths & Weaknesses

Table 135. KINDUS Basic Information, Manufacturing Base and Competitors

Table 136. KINDUS Major Business

Table 137. KINDUS PIR Foam Sandwich Panel Product and Services

Table 138. KINDUS PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. KINDUS Recent Developments/Updates

Table 140. KINDUS Competitive Strengths & Weaknesses

Table 141. PH Insulation Basic Information, Manufacturing Base and Competitors

Table 142. PH Insulation Major Business

Table 143. PH Insulation PIR Foam Sandwich Panel Product and Services

Table 144. PH Insulation PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. PH Insulation Recent Developments/Updates

Table 146. PH Insulation Competitive Strengths & Weaknesses

Table 147. Wiskind Basic Information, Manufacturing Base and Competitors

Table 148. Wiskind Major Business

Table 149. Wiskind PIR Foam Sandwich Panel Product and Services

Table 150. Wiskind PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Wiskind Recent Developments/Updates

Table 152. Wiskind Competitive Strengths & Weaknesses

Table 153. Wanhua Energysav Science & Technology Group Basic Information, Manufacturing Base and Competitors

Table 154. Wanhua Energysav Science & Technology Group Major Business

Table 155. Wanhua Energysav Science & Technology Group PIR Foam Sandwich Panel Product and Services

Table 156. Wanhua Energysav Science & Technology Group PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Wanhua Energysav Science & Technology Group Recent Developments/Updates

Table 158. Wanhua Energysav Science & Technology Group Competitive Strengths & Weaknesses

Table 159. BRD New Materials Basic Information, Manufacturing Base and Competitors

Table 160. BRD New Materials Major Business

Table 161. BRD New Materials PIR Foam Sandwich Panel Product and Services

Table 162. BRD New Materials PIR Foam Sandwich Panel Production (K Square Meters), Price (US\$/ Square Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. BRD New Materials Recent Developments/Updates

Table 164. BRD New Materials Competitive Strengths & Weaknesses

Table 165. Global Key Players of PIR Foam Sandwich Panel Upstream (Raw Materials)

Table 166. Global PIR Foam Sandwich Panel Typical Customers

Table 167. PIR Foam Sandwich Panel Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. PIR Foam Sandwich Panel Picture

Figure 2. World PIR Foam Sandwich Panel Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World PIR Foam Sandwich Panel Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World PIR Foam Sandwich Panel Production (2021-2032) & (K Square Meters)

Figure 5. World PIR Foam Sandwich Panel Average Price (2021-2032) & (US\$/ Square Meter)

Figure 6. World PIR Foam Sandwich Panel Production Value Market Share by Region (2021-2032)

Figure 7. World PIR Foam Sandwich Panel Production Market Share by Region (2021-2032)

Figure 8. North America PIR Foam Sandwich Panel Production (2021-2032) & (K Square Meters)

Figure 9. Europe PIR Foam Sandwich Panel Production (2021-2032) & (K Square Meters)

Figure 10. China PIR Foam Sandwich Panel Production (2021-2032) & (K Square Meters)

Figure 11. Japan PIR Foam Sandwich Panel Production (2021-2032) & (K Square Meters)

Figure 12. PIR Foam Sandwich Panel Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 15. World PIR Foam Sandwich Panel Consumption Market Share by Region (2021-2032)

Figure 16. United States PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 17. China PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 18. Europe PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 19. Japan PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 20. South Korea PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 21. ASEAN PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 22. India PIR Foam Sandwich Panel Consumption (2021-2032) & (K Square Meters)

Figure 23. Producer Shipments of PIR Foam Sandwich Panel by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for PIR Foam Sandwich Panel Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for PIR Foam Sandwich Panel Markets in 2025

Figure 26. United States VS China: PIR Foam Sandwich Panel Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: PIR Foam Sandwich Panel Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: PIR Foam Sandwich Panel Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers PIR Foam Sandwich Panel Production Market Share 2025

Figure 30. China Based Manufacturers PIR Foam Sandwich Panel Production Market Share 2025

Figure 31. Rest of World Based Manufacturers PIR Foam Sandwich Panel Production Market Share 2025

Figure 32. World PIR Foam Sandwich Panel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World PIR Foam Sandwich Panel Production Value Market Share by Type in 2025

Figure 34. Roof Panels

Figure 35. External Wall Panels

Figure 36. Internal Wall and Ceiling Panels

Figure 37. Floor Panels

Figure 38. Other

Figure 39. World PIR Foam Sandwich Panel Production Market Share by Type (2021-2032)

Figure 40. World PIR Foam Sandwich Panel Production Value Market Share by Type (2021-2032)

Figure 41. World PIR Foam Sandwich Panel Average Price by Type (2021-2032) & (US\$/ Square Meter)

Figure 42. World PIR Foam Sandwich Panel Production Value by Panel Thickness, (USD Million), 2021 & 2025 & 2032

Figure 43. World PIR Foam Sandwich Panel Production Value Market Share by Panel Thickness in 2025

Figure 44. Up to 60 mm

Figure 45. 61-100 mm

Figure 46. 101-150 mm

Figure 47. Above 150 mm

Figure 48. World PIR Foam Sandwich Panel Production Market Share by Panel Thickness (2021-2032)

Figure 49. World PIR Foam Sandwich Panel Production Value Market Share by Panel Thickness (2021-2032)

Figure 50. World PIR Foam Sandwich Panel Average Price by Panel Thickness (2021-2032) & (US\$/ Square Meter)

Figure 51. World PIR Foam Sandwich Panel Production Value by Facing Material, (USD Million), 2021 & 2025 & 2032

Figure 52. World PIR Foam Sandwich Panel Production Value Market Share by Facing Material in 2025

Figure 53. Pre-painted Galvanized Steel

Figure 54. Pre-painted Al-Zn Coated Steel

Figure 55. Stainless Steel

Figure 56. Other

Figure 57. World PIR Foam Sandwich Panel Production Market Share by Facing Material (2021-2032)

Figure 58. World PIR Foam Sandwich Panel Production Value Market Share by Facing Material (2021-2032)

Figure 59. World PIR Foam Sandwich Panel Average Price by Facing Material (2021-2032) & (US\$/ Square Meter)

Figure 60. World PIR Foam Sandwich Panel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World PIR Foam Sandwich Panel Production Value Market Share by Application in 2025

Figure 62. Industrial Buildings

Figure 63. Cold Storage and Cold Chain

Figure 64. Warehousing and Logistics

Figure 65. Commercial and Public Buildings

Figure 66. Other

Figure 67. World PIR Foam Sandwich Panel Production Market Share by Application (2021-2032)

Figure 68. World PIR Foam Sandwich Panel Production Value Market Share by Application (2021-2032)

Figure 69. World PIR Foam Sandwich Panel Average Price by Application (2021-2032) & (US\$/ Square Meter)

Figure 70. PIR Foam Sandwich Panel Industry Chain

Figure 71. PIR Foam Sandwich Panel Procurement Model

Figure 72. PIR Foam Sandwich Panel Sales Model

Figure 73. PIR Foam Sandwich Panel Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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