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Global Vacuum Insulation Panels for Buildings Market Growth 2026-2032

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Abstracts

The global Vacuum Insulation Panels for Buildings market size is predicted to grow from US$ 748 million in 2025 to US$ 1445 million in 2032; it is expected to grow at a CAGR of 10.1% from 2026 to 2032.

In 2024, global Vacuum Insulation Panels for Buildings reached approximately 77.4k tons, with an average global market price of around US$ 9000 per ton.

Vacuum Insulation Panels (VIPs) for buildings are ultra-high-performance thermal insulation materials designed for energy-efficient construction. VIPs consist of a micro-porous core material?such as aerogel, fiberglass, fumed silica, or mineral fiber?sealed within a gas-tight envelope and evacuated to create a vacuum, drastically reducing thermal conductivity to 0.003?0.008 W/(m?K), roughly one-tenth that of conventional materials (EPS, XPS, PU). They are widely used in passive houses, nearly zero-energy buildings (nZEB), prefabricated construction, wall retrofitting, and cold-chain structures. VIPs offer high insulation efficiency, thin profile, space savings, and long-term stability, making them a critical technology for next-generation building energy-saving solutions.

The upstream of vacuum insulation panels for buildings includes microporous core materials (aerogel, fumed silica, glass fiber, calcium silicate), high-barrier films (aluminum foil composite film, metallized PET/PE), desiccants, encapsulation materials, aluminum corner protectors, and testing equipment. Major suppliers include Cabot, Evonik, Wacker, LG Chem, 3M, PPG, DuPont, Shandong Fiberglass, Asahi Glass, and Dongyue Chemical. The midstream consists of VIP manufacturers, including Panasonic, Va-Q-Tec, Knauf, and LG Hausys, responsible for vacuuming, encapsulation, cutting, and stability testing. Downstream applications include passive buildings, ultra-low energy consumption housing, energy-saving renovations of public buildings,

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prefabricated walls, cold storage walls, rail transit stations, shopping mall curtain walls, and hospital clean rooms. End users include Vanke, Evergrande, Country Garden, China State Construction Engineering Corporation, China Resources, China Railway Construction Corporation, and Glodon prefabricated building platform companies.

The annual production capacity of a single-line Vacuum Insulation Panels for Buildings is approximately 860 tons, with a gross profit margin of approximately 25%-35%.

Vacuum insulation panels for buildings, originating from space technology, are environmentally friendly, highly efficient, and energy-saving, representing the world's most advanced high-efficiency insulation material. They are panel-shaped building insulation materials manufactured through processes such as molding, encapsulation, and vacuuming, using core materials and getters as fillers and composite gas-barrier membranes as encapsulating materials. These products effectively prevent air convection, radiation, and heat conduction, significantly reducing the thermal conductivity to below 0.002 W/m?K; they contain no ODS (ozone-depleting substances).

The market for vacuum insulation panels for buildings is currently in a stable growth phase, primarily driven by factors such as ultra-low energy consumption building policies, rising demand for passive buildings, rapid development of prefabricated buildings, and the expansion of cold chain infrastructure. Their ultra-thin, high-efficiency, and space-saving characteristics have led to rapid penetration in high-end residential buildings, commercial buildings, cold northern regions, and renovation projects. With the localization of fumed silica core materials, improvements in barrier membrane technology, and gradual cost reductions, the price of VIP (vacuum-insulated) panels is entering an acceptable range.

LP Information, Inc. (LPI) ' newest research report, the ?Vacuum Insulation Panels for Buildings Industry Forecast? looks at past sales and reviews total world Vacuum Insulation Panels for Buildings sales in 2025, providing a comprehensive analysis by region and market sector of projected Vacuum Insulation Panels for Buildings sales for 2026 through 2032. With Vacuum Insulation Panels for Buildings sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Vacuum Insulation Panels for Buildings industry.

This Insight Report provides a comprehensive analysis of the global Vacuum Insulation Panels for Buildings landscape and highlights key trends related to product

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segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vacuum Insulation Panels for Buildings portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Vacuum Insulation Panels for Buildings market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vacuum Insulation Panels for Buildings and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vacuum Insulation Panels for Buildings.

This report presents a comprehensive overview, market shares, and growth opportunities of Vacuum Insulation Panels for Buildings market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Glass Fiber

Precipitated Silica

Fumed Silica

Others

Segmentation by Morphology:

Particles

Foam

Fibers

Others

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Segmentation by Thickness:

- 5mm-10mm
- 10mm-15mm
- 15mm-20mm
- Others

Segmentation by Application:

- External Wall Insulation
- Floor Insulation
- Roof Insulation
- Pipe Insulation
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

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from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Panasonic

Va-Q-tec

LX Hausys

Kingspan

Exceed Technologies

Porextherm

Sealed Air

Turna

Knauf Insulation

OCI Company

Turvac Vacuum Insulation

Tapered Plus

Super Tech Advanced Material

Micolon

Zaisheng Technology

Sanyou Dior

Peak-Tech New Material

Key Questions Addressed in this Report

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What is the 10-year outlook for the global Vacuum Insulation Panels for Buildings market?

What factors are driving Vacuum Insulation Panels for Buildings market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vacuum Insulation Panels for Buildings market opportunities vary by end market size?

How does Vacuum Insulation Panels for Buildings break out by Type, by Application?

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