

# **Advanced Building Materials Market Forecasts to 2032 – Global Analysis By Material (Advanced Cement and Concrete, Cross-Laminated Timber (CLT), Structural Insulated Panels (SIPs), Smart Glass and Coatings, Phase Change Materials (PCMs) and Other Materials), Functionality, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Advanced Building Materials Market is accounted for \$325.2 billion in 2025 and is expected to reach \$483.9 billion by 2032 growing at a CAGR of 5.84% during the forecast period. Advanced building materials refer to innovative construction substances engineered to improve performance, sustainability, and efficiency compared to traditional materials. These include composites, smart materials, nanomaterials, high-performance concrete, self-healing substances, and energy-efficient insulation. Designed to address modern architectural challenges, they enhance durability, strength, thermal regulation, and resistance to environmental stresses. Many advanced materials integrate eco-friendly features, promoting reduced carbon emissions and sustainable construction practices. Their adaptability supports smart buildings, energy conservation, and resilient infrastructure. By merging technology with functionality, advanced building materials enable cost-effectiveness, long life cycles, and enhanced safety, meeting the evolving needs of urbanization and green construction trends.

Market Dynamics:

Driver:

## Growing demand for sustainable construction

Builders and developers are increasingly prioritizing eco-friendly and energy-efficient materials. This trend encourages innovation in materials with low carbon footprints and high durability. Governments and regulatory bodies are promoting green building certifications, further boosting demand. Sustainable materials help reduce operational costs and environmental impact, attracting more investment. Overall, the shift toward greener construction practices propels market growth and adoption of advanced building solutions.

### Restraint:

#### Complex manufacturing processes

Manufacturing complex advanced building materials demands specialized equipment and skilled labour, which reduces the number of capable producers. Lengthy production schedules can postpone project timelines and decrease market agility. Significant energy usage and material waste during fabrication contribute to environmental challenges. Smaller firms often face difficulties competing because of technical and financial constraints. The intricate nature of production limits overall market expansion and slows the adoption of innovative materials.

### Opportunity:

#### Rising consumer awareness

Growing consumer knowledge of sustainability and energy efficiency boosts demand for durable, eco-friendly building materials. Recognition of long-term cost benefits encourages investment in high-performance construction solutions. Online platforms and social media spread awareness of innovative materials and modern building techniques. Greater understanding of environmental impact shifts preferences toward low-carbon-footprint products. Manufacturers respond by developing advanced, consumer-oriented materials. Overall, heightened awareness drives market growth and fosters innovation in the building sector.

### Threat:

#### Low awareness in developing regions

Builders and consumers often stick to traditional materials due to familiarity and perceived lower costs. Lack of knowledge about energy efficiency, durability, and sustainability reduces demand for innovative solutions. Educational gaps prevent proper adoption of modern construction technologies. This slows market penetration and discourages manufacturers from expanding in these regions. Consequently, overall growth of the advanced building materials market remains hindered.

### Covid-19 Impact

The Covid-19 pandemic significantly disrupted the Advanced Building Materials Market by causing supply chain interruptions, raw material shortages, and delays in construction activities. Restrictions on manufacturing and transportation slowed production, impacting timely delivery of projects. Reduced demand in commercial and residential construction further restrained growth during the crisis. However, the pandemic also accelerated interest in sustainable and innovative materials as industries sought cost-effective and resilient solutions. Post-pandemic recovery initiatives and infrastructure investments are expected to strengthen demand for advanced building materials globally.

The advanced cement and concrete segment is expected to be the largest during the forecast period

The advanced cement and concrete segment is expected to account for the largest market share during the forecast period by offering higher strength and durability for modern construction. Innovative formulations improve resistance to environmental stresses, reducing maintenance costs. Rapid urbanization and infrastructure development increase demand for high-performance materials. Sustainable and eco-friendly variants attract environmentally conscious builders. Overall, these innovations enhance construction efficiency, quality, and long-term value, propelling market growth.

The thermal insulation segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the thermal insulation segment is predicted to witness the highest growth rate, due to improved energy efficiency in buildings, reducing heating and cooling costs. High-performance insulation materials enhance indoor comfort and sustainability, attracting environmentally conscious consumers. Increasing government regulations and green building certifications boost demand for effective thermal solutions. Innovations in lightweight and durable insulation materials expand application

across residential and commercial projects. Growing awareness of energy conservation and rising construction activities further propel the segment's market growth.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share due to demand for energy-efficient constructions. Innovations in lightweight composites, insulation, and fire-resistant materials are prominent. Growing investment in renovation and retrofit projects supports market expansion, along with a shift toward smart homes and resilient infrastructure. Environmental consciousness and focus on reducing carbon footprints drive consumer preference for sustainable materials. The United States and Canada lead adoption, emphasizing high-performance, long-lasting products that align with safety standards, environmental compliance, and advanced construction technologies.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to infrastructure expansion, and government initiatives promoting sustainable construction. Adoption of eco-friendly, energy-efficient materials is rising, fuelled by technological innovations and smart building trends. Key players are investing in research and development to introduce high-performance products suitable for diverse climatic conditions. Emerging construction techniques, growing industrialization, and increasing awareness of environmental impact further propel demand. Countries like China, India, and Japan are leading in adoption, focusing on durability, cost-efficiency, and green building certifications.

Key players in the market

Some of the key players profiled in the Advanced Building Materials Market include Saint-Gobain, BASF SE, 3M Company, DuPont de Nemours, Inc., Owens Corning, , Sika AG, Huntsman Corporation, Covestro AG, USG Corporation, Kingspan Group plc, CRH plc, Nippon Electric Glass Co., Ltd., PPG Industries, Inc., Akzo Nobel N.V., CEMEX S.A.B. de C.V., Georgia-Pacific LLC and Ferro Corporation.

Key Developments:

In May 2025, BASF signed an agreement with Domo to acquire the remaining 49% stake in their French joint venture Alsachimie, located in Chalampe. This move

strengthens BASF's position in the polyamide 6.6 value chain, which is critical for high-performance construction materials like insulation and structural components.

In April 2024, BASF acquired a 49% stake in Vattenfall's Nordlicht 1 and 2 wind farm projects. While not directly a building material investment, this supports BASF's sustainability goals and energy sourcing for its advanced materials production.

In March 2024, Saint-Gobain entered two strategic partnerships to accelerate low-carbon cement technologies. Through its venture arm NOVA, it invested in Fortera, a U.S. startup developing CO<sub>2</sub>-recycling cement, and partnered with Ecocem, a European leader in low-carbon cement.

#### Materials Covered:

Advanced Cement and Concrete

Cross-Laminated Timber (CLT)

Structural Insulated Panels (SIPs)

Smart Glass and Coatings

Phase Change Materials (PCMs)

Other Materials

#### Functionalities Covered:

Structural

Thermal Insulation

Waterproofing

Fire Resistance

Other Functionalities

**Applications Covered:**

Roofing

Flooring

Walls

Doors and Windows

Other Applications

**End Users Covered:**

Residential

Commercial

Industrial

Infrastructure

Hospitality &amp; Entertainment

Other End Users

**Regions Covered:**

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

## Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

### What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as

per the client's interest (Note: Depends on feasibility check)

### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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