

Global Carbon-sequestering Building Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon-sequestering Building Materials market size is expected to reach \$ 4798 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Carbon-sequestering building materials refer to construction materials that absorb, capture, fix, or permanently store carbon dioxide during raw material preparation, manufacturing, construction, use, or curing. These materials typically include carbon-mineralized concrete, CO₂-cured concrete, low-carbon cement, recycled aggregate products, bio-based insulation materials, engineered timber, and composite materials containing biochar or other carbon-storing fillers. Compared with conventional construction materials, carbon-sequestering materials can reduce embodied carbon during production while also providing long-term carbon storage over the building lifecycle, making them an important solution for decarbonizing the construction sector and supporting circular resource utilization. In 2025, global Carbon-sequestering Building Materials production reached approximately 25710 k tons, with an average global market price of around 124 USD/ton. The production capacity for Carbon-sequestering Building Materials in 2025 was approximately 30000 k tons. The typical gross profit margin for Carbon-sequestering Building Materials between 20% and 40%.

The global carbon-sequestering building materials market is transitioning from pilot-scale deployment to broader commercial adoption, supported by construction-sector decarbonization targets, green building standards, government climate policies, and advances in low-carbon cement and concrete technologies. Carbon-mineralized concrete, CO₂-cured precast products, and low-clinker cement currently represent the most commercially mature segments, while engineered timber, bio-based construction materials, and biochar-containing composites are gaining traction in residential,

commercial, and infrastructure projects. As carbon accounting frameworks, green procurement policies, and environmental product declarations become more widely adopted, market competition is expected to increasingly focus on cost efficiency, structural performance, durability, scalable manufacturing, and verified lifecycle carbon benefits.

This report studies the global Carbon-sequestering Building Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon-sequestering Building Materials 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 Carbon-sequestering Building Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon-sequestering Building Materials total production and demand, 2021-2032, (Kilotons)

Global Carbon-sequestering Building Materials total production value, 2021-2032, (USD Million)

Global Carbon-sequestering Building Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon-sequestering Building Materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon-sequestering Building Materials domestic production, consumption, key domestic manufacturers and share

Global Carbon-sequestering Building Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon-sequestering Building Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon-sequestering Building Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon-sequestering Building Materials 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 CarbonCure, Carbonaide, Calix,

Solidia Technologies, Blue Planet, CarbonBuilt, Ecocem, Heidelberg Materials, Holcim, Biomason, 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 Carbon-sequestering Building Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Carbon-sequestering Building Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon-sequestering Building Materials Market, Segmentation by Type:

CO₂-cured Cement

Carbonate Fillers

Biomineralized Materials

Others

Global Carbon-sequestering Building Materials Market, Segmentation by Application
Products:

Concrete

Bricks

Precast Building Materials

Other

Global Carbon-sequestering Building Materials Market, Segmentation by Application:

Commercial and Residential Buildings

Infrastructure Construction

Prefabricated and Modular Buildings

Others

Companies Profiled:

CarbonCure

Carbonaide

Calix

Solidia Technologies

Blue Planet

CarbonBuilt

Ecocem

Heidelberg Materials

Holcim

Biomason

Solid Carbon Industries

Key Questions Answered:

1. How big is the global Carbon-sequestering Building Materials market?
2. What is the demand of the global Carbon-sequestering Building Materials market?
3. What is the year over year growth of the global Carbon-sequestering Building Materials market?
4. What is the production and production value of the global Carbon-sequestering Building Materials market?
5. Who are the key producers in the global Carbon-sequestering Building Materials market?
6. What are the growth factors driving the market demand?

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