

Global Carbon-Capturing Building Materials 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 Carbon-Capturing Building Materials market size was valued at US\$ 3280 million in 2025 and is forecast to a readjusted size of US\$ 4798 million by 2032 with a CAGR of 5.5% during review period.

Carbon-capturing building materials refer to construction materials that can actively absorb, bind, or permanently store carbon dioxide during raw material production, manufacturing, construction, or service life. These materials include carbon-cured concrete, CO₂-treated cement products, mineralized aggregates, bio-based construction materials, carbon-negative composites, and building products produced through the carbon mineralization of industrial waste. Through mechanisms such as mineral carbonation, biological carbon sequestration, and chemical adsorption, captured CO₂ is converted into stable carbonates or solid carbon forms, helping reduce the life-cycle carbon footprint of buildings while potentially improving material strength, durability, and resource efficiency. In 2025, global Carbon-Capturing Building Materials production reached approximately 25710 k tons, with an average global market price of around 124 USD/ton. The production capacity for Carbon-Capturing Building Materials in 2025 was approximately 30000 k tons. The typical gross profit margin for Carbon-Capturing Building Materials between 20% and 40%.

The global carbon-capturing building materials market is transitioning from technology demonstration and pilot projects toward broader commercial deployment. Market growth is being driven by the decarbonization of the construction sector, stricter green building standards, increasing emission-reduction pressure on the cement and concrete industries, and the gradual expansion of carbon pricing and low-carbon procurement

policies. Current demand is concentrated in low-carbon concrete, CO₂-cured precast products, carbon-mineralized aggregates, and bio-based insulation and structural materials. Major building-material producers, developers, and carbon-capture technology companies are forming partnerships to permanently store captured CO₂ in concrete, aggregates, and industrial waste-derived materials. As material standards, carbon accounting methods, certification systems, and production equipment continue to mature, carbon-capturing building materials are expected to expand from demonstration projects into infrastructure, commercial construction, and residential applications.

This report is a detailed and comprehensive analysis for global Carbon-Capturing Building Materials 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 Carbon-Capturing Building Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-Capturing Building Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-Capturing Building Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-Capturing Building Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Carbon-Capturing Building Materials

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 Carbon-Capturing Building Materials 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 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.

Market Segmentation

Carbon-Capturing Building Materials 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

CO₂-cured Cement

Carbonate Fillers

Biomineralized Materials

Others

Market segment by Application Products

Concrete

Bricks

Precast Building Materials

Other

Market segment by Application

Commercial and Residential Buildings

Infrastructure Construction

Prefabricated and Modular Buildings

Others

Major players covered

CarbonCure

Carbonaide

Calix

Solidia Technologies

Blue Planet

CarbonBuilt

Ecocem

Heidelberg Materials

Holcim

Biomason

Solid Carbon Industries

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 Carbon-Capturing Building Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-Capturing Building Materials, with price, sales quantity, revenue, and global market share of Carbon-Capturing Building Materials from 2021 to 2026.

Chapter 3, the Carbon-Capturing Building Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon-Capturing Building Materials 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 Carbon-Capturing Building Materials 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 Carbon-Capturing Building Materials.

Chapter 14 and 15, to describe Carbon-Capturing Building Materials sales channel, distributors, customers, research findings and conclusion.

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