

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

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Abstracts

The global Carbon-Capturing 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-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 studies the global Carbon-Capturing Building Materials production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Carbon-Capturing 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-Capturing 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-Capturing Building Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

CO₂-cured Cement

Carbonate Fillers

Biomineralized Materials

Others

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

Concrete

Bricks

Precast Building Materials

Other

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Carbon-Capturing Building Materials Demand (2021-2032)
- 2.2 World Carbon-Capturing Building Materials Consumption by Region
 - 2.2.1 World Carbon-Capturing Building Materials Consumption by Region (2021-2026)
 - 2.2.2 World Carbon-Capturing Building Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States Carbon-Capturing Building Materials Consumption (2021-2032)
- 2.4 China Carbon-Capturing Building Materials Consumption (2021-2032)
- 2.5 Europe Carbon-Capturing Building Materials Consumption (2021-2032)
- 2.6 Japan Carbon-Capturing Building Materials Consumption (2021-2032)
- 2.7 South Korea Carbon-Capturing Building Materials Consumption (2021-2032)
- 2.8 ASEAN Carbon-Capturing Building Materials Consumption (2021-2032)

2.9 India Carbon-Capturing Building Materials Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Carbon-Capturing Building Materials Production Value by Manufacturer (2021-2026)

3.2 World Carbon-Capturing Building Materials Production by Manufacturer (2021-2026)

3.3 World Carbon-Capturing Building Materials Average Price by Manufacturer (2021-2026)

3.4 Carbon-Capturing Building Materials Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Carbon-Capturing Building Materials Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Carbon-Capturing Building Materials in 2025

3.5.3 Global Concentration Ratios (CR8) for Carbon-Capturing Building Materials in 2025

3.6 Carbon-Capturing Building Materials Market: Overall Company Footprint Analysis

3.6.1 Carbon-Capturing Building Materials Market: Region Footprint

3.6.2 Carbon-Capturing Building Materials Market: Company Product Type Footprint

3.6.3 Carbon-Capturing Building Materials 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: Carbon-Capturing Building Materials Production Value Comparison

4.1.1 United States VS China: Carbon-Capturing Building Materials Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Carbon-Capturing Building Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Carbon-Capturing Building Materials Production Comparison

4.2.1 United States VS China: Carbon-Capturing Building Materials Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Carbon-Capturing Building Materials Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Carbon-Capturing Building Materials Consumption Comparison

4.3.1 United States VS China: Carbon-Capturing Building Materials Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Carbon-Capturing Building Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Carbon-Capturing Building Materials Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbon-Capturing Building Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbon-Capturing Building Materials Production (2021-2026)

4.5 China Based Carbon-Capturing Building Materials Manufacturers and Market Share

4.5.1 China Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbon-Capturing Building Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbon-Capturing Building Materials Production (2021-2026)

4.6 Rest of World Based Carbon-Capturing Building Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Carbon-Capturing Building Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbon-Capturing Building Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon-Capturing Building Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 CO₂-cured Cement

5.2.2 Carbonate Fillers

5.2.3 Biomineralized Materials

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Carbon-Capturing Building Materials Production by Type (2021-2032)

5.3.2 World Carbon-Capturing Building Materials Production Value by Type
(2021-2032)

5.3.3 World Carbon-Capturing Building Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION PRODUCTS

6.1 World Carbon-Capturing Building Materials Market Size Overview by Application
Products: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application Products

6.2.1 Concrete

6.2.2 Bricks

6.2.3 Precast Building Materials

6.2.4 Other

6.3 Market Segment by Application Products

6.3.1 World Carbon-Capturing Building Materials Production by Application Products
(2021-2032)

6.3.2 World Carbon-Capturing Building Materials Production Value by Application
Products (2021-2032)

6.3.3 World Carbon-Capturing Building Materials Average Price by Application
Products (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Carbon-Capturing Building Materials Market Size Overview by Application:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Commercial and Residential Buildings

7.2.2 Infrastructure Construction

7.2.3 Prefabricated and Modular Buildings

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Carbon-Capturing Building Materials Production by Application
(2021-2032)

7.3.2 World Carbon-Capturing Building Materials Production Value by Application (2021-2032)

7.3.3 World Carbon-Capturing Building Materials Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 CarbonCure

8.1.1 CarbonCure Details

8.1.2 CarbonCure Major Business

8.1.3 CarbonCure Carbon-Capturing Building Materials Product and Services

8.1.4 CarbonCure Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 CarbonCure Recent Developments/Updates

8.1.6 CarbonCure Competitive Strengths & Weaknesses

8.2 Carbonaide

8.2.1 Carbonaide Details

8.2.2 Carbonaide Major Business

8.2.3 Carbonaide Carbon-Capturing Building Materials Product and Services

8.2.4 Carbonaide Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Carbonaide Recent Developments/Updates

8.2.6 Carbonaide Competitive Strengths & Weaknesses

8.3 Calix

8.3.1 Calix Details

8.3.2 Calix Major Business

8.3.3 Calix Carbon-Capturing Building Materials Product and Services

8.3.4 Calix Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Calix Recent Developments/Updates

8.3.6 Calix Competitive Strengths & Weaknesses

8.4 Solidia Technologies

8.4.1 Solidia Technologies Details

8.4.2 Solidia Technologies Major Business

8.4.3 Solidia Technologies Carbon-Capturing Building Materials Product and Services

8.4.4 Solidia Technologies Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Solidia Technologies Recent Developments/Updates

8.4.6 Solidia Technologies Competitive Strengths & Weaknesses

8.5 Blue Planet

8.5.1 Blue Planet Details

8.5.2 Blue Planet Major Business

8.5.3 Blue Planet Carbon-Capturing Building Materials Product and Services

8.5.4 Blue Planet Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Blue Planet Recent Developments/Updates

8.5.6 Blue Planet Competitive Strengths & Weaknesses

8.6 CarbonBuilt

8.6.1 CarbonBuilt Details

8.6.2 CarbonBuilt Major Business

8.6.3 CarbonBuilt Carbon-Capturing Building Materials Product and Services

8.6.4 CarbonBuilt Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 CarbonBuilt Recent Developments/Updates

8.6.6 CarbonBuilt Competitive Strengths & Weaknesses

8.7 Ecocem

8.7.1 Ecocem Details

8.7.2 Ecocem Major Business

8.7.3 Ecocem Carbon-Capturing Building Materials Product and Services

8.7.4 Ecocem Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Ecocem Recent Developments/Updates

8.7.6 Ecocem Competitive Strengths & Weaknesses

8.8 Heidelberg Materials

8.8.1 Heidelberg Materials Details

8.8.2 Heidelberg Materials Major Business

8.8.3 Heidelberg Materials Carbon-Capturing Building Materials Product and Services

8.8.4 Heidelberg Materials Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Heidelberg Materials Recent Developments/Updates

8.8.6 Heidelberg Materials Competitive Strengths & Weaknesses

8.9 Holcim

8.9.1 Holcim Details

8.9.2 Holcim Major Business

8.9.3 Holcim Carbon-Capturing Building Materials Product and Services

8.9.4 Holcim Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Holcim Recent Developments/Updates

8.9.6 Holcim Competitive Strengths & Weaknesses

8.10 Biomason

8.10.1 Biomason Details

8.10.2 Biomason Major Business

8.10.3 Biomason Carbon-Capturing Building Materials Product and Services

8.10.4 Biomason Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Biomason Recent Developments/Updates

8.10.6 Biomason Competitive Strengths & Weaknesses

8.11 Solid Carbon Industries

8.11.1 Solid Carbon Industries Details

8.11.2 Solid Carbon Industries Major Business

8.11.3 Solid Carbon Industries Carbon-Capturing Building Materials Product and Services

8.11.4 Solid Carbon Industries Carbon-Capturing Building Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Solid Carbon Industries Recent Developments/Updates

8.11.6 Solid Carbon Industries Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Carbon-Capturing Building Materials Industry Chain

9.2 Carbon-Capturing Building Materials Upstream Analysis

9.2.1 Carbon-Capturing Building Materials Core Raw Materials

9.2.2 Main Manufacturers of Carbon-Capturing Building Materials Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Carbon-Capturing Building Materials Production Mode

9.6 Carbon-Capturing Building Materials Procurement Model

9.7 Carbon-Capturing Building Materials Industry Sales Model and Sales Channels

9.7.1 Carbon-Capturing Building Materials Sales Model

9.7.2 Carbon-Capturing Building Materials Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Carbon-Capturing Building Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Carbon-Capturing Building Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Carbon-Capturing Building Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Carbon-Capturing Building Materials Production Value Market Share by Region (2021-2026)

Table 5. World Carbon-Capturing Building Materials Production Value Market Share by Region (2027-2032)

Table 6. World Carbon-Capturing Building Materials Production by Region (2021-2026) & (Kilotons)

Table 7. World Carbon-Capturing Building Materials Production by Region (2027-2032) & (Kilotons)

Table 8. World Carbon-Capturing Building Materials Production Market Share by Region (2021-2026)

Table 9. World Carbon-Capturing Building Materials Production Market Share by Region (2027-2032)

Table 10. World Carbon-Capturing Building Materials Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Carbon-Capturing Building Materials Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Carbon-Capturing Building Materials Major Market Trends

Table 13. World Carbon-Capturing Building Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Carbon-Capturing Building Materials Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Carbon-Capturing Building Materials Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Carbon-Capturing Building Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Carbon-Capturing Building Materials Producers in 2025

Table 18. World Carbon-Capturing Building Materials Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Carbon-Capturing Building Materials Producers in 2025

Table 20. World Carbon-Capturing Building Materials Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Carbon-Capturing Building Materials Company Evaluation Quadrant

Table 22. World Carbon-Capturing Building Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Carbon-Capturing Building Materials Production Site of Key Manufacturer

Table 24. Carbon-Capturing Building Materials Market: Company Product Type Footprint

Table 25. Carbon-Capturing Building Materials Market: Company Product Application Footprint

Table 26. Carbon-Capturing Building Materials Competitive Factors

Table 27. Carbon-Capturing Building Materials New Entrant and Capacity Expansion Plans

Table 28. Carbon-Capturing Building Materials Mergers & Acquisitions Activity

Table 29. United States VS China Carbon-Capturing Building Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Carbon-Capturing Building Materials Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Carbon-Capturing Building Materials Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Carbon-Capturing Building Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Carbon-Capturing Building Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Carbon-Capturing Building Materials Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Carbon-Capturing Building Materials Production Market Share (2021-2026)

Table 37. China Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Carbon-Capturing Building Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Carbon-Capturing Building Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Carbon-Capturing Building Materials Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Carbon-Capturing Building Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Carbon-Capturing Building Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Carbon-Capturing Building Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Carbon-Capturing Building Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Carbon-Capturing Building Materials Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Carbon-Capturing Building Materials Production Market Share (2021-2026)

Table 47. World Carbon-Capturing Building Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Carbon-Capturing Building Materials Production by Type (2021-2026) & (Kilotons)

Table 49. World Carbon-Capturing Building Materials Production by Type (2027-2032) & (Kilotons)

Table 50. World Carbon-Capturing Building Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Carbon-Capturing Building Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Carbon-Capturing Building Materials Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Carbon-Capturing Building Materials Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Carbon-Capturing Building Materials Production Value by Application Products, (USD Million), 2021 & 2025 & 2032

Table 55. World Carbon-Capturing Building Materials Production by Application Products (2021-2026) & (Kilotons)

Table 56. World Carbon-Capturing Building Materials Production by Application Products (2027-2032) & (Kilotons)

Table 57. World Carbon-Capturing Building Materials Production Value by Application Products (2021-2026) & (USD Million)

Table 58. World Carbon-Capturing Building Materials Production Value by Application Products (2027-2032) & (USD Million)

Table 59. World Carbon-Capturing Building Materials Average Price by Application

Products (2021-2026) & (US\$/Ton)

Table 60. World Carbon-Capturing Building Materials Average Price by Application

Products (2027-2032) & (US\$/Ton)

Table 61. World Carbon-Capturing Building Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbon-Capturing Building Materials Production by Application (2021-2026) & (Kilotons)

Table 63. World Carbon-Capturing Building Materials Production by Application (2027-2032) & (Kilotons)

Table 64. World Carbon-Capturing Building Materials Production Value by Application (2021-2026) & (USD Million)

Table 65. World Carbon-Capturing Building Materials Production Value by Application (2027-2032) & (USD Million)

Table 66. World Carbon-Capturing Building Materials Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Carbon-Capturing Building Materials Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. CarbonCure Basic Information, Manufacturing Base and Competitors

Table 69. CarbonCure Major Business

Table 70. CarbonCure Carbon-Capturing Building Materials Product and Services

Table 71. CarbonCure Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. CarbonCure Recent Developments/Updates

Table 73. CarbonCure Competitive Strengths & Weaknesses

Table 74. Carbonaide Basic Information, Manufacturing Base and Competitors

Table 75. Carbonaide Major Business

Table 76. Carbonaide Carbon-Capturing Building Materials Product and Services

Table 77. Carbonaide Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Carbonaide Recent Developments/Updates

Table 79. Carbonaide Competitive Strengths & Weaknesses

Table 80. Calix Basic Information, Manufacturing Base and Competitors

Table 81. Calix Major Business

Table 82. Calix Carbon-Capturing Building Materials Product and Services

Table 83. Calix Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Calix Recent Developments/Updates

Table 85. Calix Competitive Strengths & Weaknesses

Table 86. Solidia Technologies Basic Information, Manufacturing Base and Competitors

Table 87. Solidia Technologies Major Business

Table 88. Solidia Technologies Carbon-Capturing Building Materials Product and Services

Table 89. Solidia Technologies Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Solidia Technologies Recent Developments/Updates

Table 91. Solidia Technologies Competitive Strengths & Weaknesses

Table 92. Blue Planet Basic Information, Manufacturing Base and Competitors

Table 93. Blue Planet Major Business

Table 94. Blue Planet Carbon-Capturing Building Materials Product and Services

Table 95. Blue Planet Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Blue Planet Recent Developments/Updates

Table 97. Blue Planet Competitive Strengths & Weaknesses

Table 98. CarbonBuilt Basic Information, Manufacturing Base and Competitors

Table 99. CarbonBuilt Major Business

Table 100. CarbonBuilt Carbon-Capturing Building Materials Product and Services

Table 101. CarbonBuilt Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. CarbonBuilt Recent Developments/Updates

Table 103. CarbonBuilt Competitive Strengths & Weaknesses

Table 104. Ecocem Basic Information, Manufacturing Base and Competitors

Table 105. Ecocem Major Business

Table 106. Ecocem Carbon-Capturing Building Materials Product and Services

Table 107. Ecocem Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Ecocem Recent Developments/Updates

Table 109. Ecocem Competitive Strengths & Weaknesses

Table 110. Heidelberg Materials Basic Information, Manufacturing Base and Competitors

Table 111. Heidelberg Materials Major Business

Table 112. Heidelberg Materials Carbon-Capturing Building Materials Product and

Services

Table 113. Heidelberg Materials Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Heidelberg Materials Recent Developments/Updates

Table 115. Heidelberg Materials Competitive Strengths & Weaknesses

Table 116. Holcim Basic Information, Manufacturing Base and Competitors

Table 117. Holcim Major Business

Table 118. Holcim Carbon-Capturing Building Materials Product and Services

Table 119. Holcim Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Holcim Recent Developments/Updates

Table 121. Holcim Competitive Strengths & Weaknesses

Table 122. Biomason Basic Information, Manufacturing Base and Competitors

Table 123. Biomason Major Business

Table 124. Biomason Carbon-Capturing Building Materials Product and Services

Table 125. Biomason Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Biomason Recent Developments/Updates

Table 127. Biomason Competitive Strengths & Weaknesses

Table 128. Solid Carbon Industries Basic Information, Manufacturing Base and Competitors

Table 129. Solid Carbon Industries Major Business

Table 130. Solid Carbon Industries Carbon-Capturing Building Materials Product and Services

Table 131. Solid Carbon Industries Carbon-Capturing Building Materials Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Solid Carbon Industries Recent Developments/Updates

Table 133. Solid Carbon Industries Competitive Strengths & Weaknesses

Table 134. Global Key Players of Carbon-Capturing Building Materials Upstream (Raw Materials)

Table 135. Global Carbon-Capturing Building Materials Typical Customers

Table 136. Carbon-Capturing Building Materials Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Carbon-Capturing Building Materials Picture
- Figure 2. World Carbon-Capturing Building Materials Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Carbon-Capturing Building Materials Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Carbon-Capturing Building Materials Production (2021-2032) & (Kilotons)
- Figure 5. World Carbon-Capturing Building Materials Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Carbon-Capturing Building Materials Production Value Market Share by Region (2021-2032)
- Figure 7. World Carbon-Capturing Building Materials Production Market Share by Region (2021-2032)
- Figure 8. North America Carbon-Capturing Building Materials Production (2021-2032) & (Kilotons)
- Figure 9. Europe Carbon-Capturing Building Materials Production (2021-2032) & (Kilotons)
- Figure 10. China Carbon-Capturing Building Materials Production (2021-2032) & (Kilotons)
- Figure 11. Japan Carbon-Capturing Building Materials Production (2021-2032) & (Kilotons)
- Figure 12. Carbon-Capturing Building Materials Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)
- Figure 15. World Carbon-Capturing Building Materials Consumption Market Share by Region (2021-2032)
- Figure 16. United States Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)
- Figure 17. China Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)
- Figure 18. Europe Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)
- Figure 19. Japan Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)

Figure 22. India Carbon-Capturing Building Materials Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Carbon-Capturing Building Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Carbon-Capturing Building Materials Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Carbon-Capturing Building Materials Markets in 2025

Figure 26. United States VS China: Carbon-Capturing Building Materials Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Carbon-Capturing Building Materials Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Carbon-Capturing Building Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Carbon-Capturing Building Materials Production Market Share 2025

Figure 30. China Based Manufacturers Carbon-Capturing Building Materials Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Carbon-Capturing Building Materials Production Market Share 2025

Figure 32. World Carbon-Capturing Building Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Carbon-Capturing Building Materials Production Value Market Share by Type in 2025

Figure 34. CO₂-cured Cement

Figure 35. Carbonate Fillers

Figure 36. Biomineralized Materials

Figure 37. Others

Figure 38. World Carbon-Capturing Building Materials Production Market Share by Type (2021-2032)

Figure 39. World Carbon-Capturing Building Materials Production Value Market Share by Type (2021-2032)

Figure 40. World Carbon-Capturing Building Materials Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Carbon-Capturing Building Materials Production Value by Application

Products, (USD Million), 2021 & 2025 & 2032

Figure 42. World Carbon-Capturing Building Materials Production Value Market Share by Application Products in 2025

Figure 43. Concrete

Figure 44. Bricks

Figure 45. Precast Building Materials

Figure 46. Other

Figure 47. World Carbon-Capturing Building Materials Production Market Share by Application Products (2021-2032)

Figure 48. World Carbon-Capturing Building Materials Production Value Market Share by Application Products (2021-2032)

Figure 49. World Carbon-Capturing Building Materials Average Price by Application Products (2021-2032) & (US\$/Ton)

Figure 50. World Carbon-Capturing Building Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Carbon-Capturing Building Materials Production Value Market Share by Application in 2025

Figure 52. Commercial and Residential Buildings

Figure 53. Infrastructure Construction

Figure 54. Prefabricated and Modular Buildings

Figure 55. Others

Figure 56. World Carbon-Capturing Building Materials Production Market Share by Application (2021-2032)

Figure 57. World Carbon-Capturing Building Materials Production Value Market Share by Application (2021-2032)

Figure 58. World Carbon-Capturing Building Materials Average Price by Application (2021-2032) & (US\$/Ton)

Figure 59. Carbon-Capturing Building Materials Industry Chain

Figure 60. Carbon-Capturing Building Materials Procurement Model

Figure 61. Carbon-Capturing Building Materials Sales Model

Figure 62. Carbon-Capturing Building Materials Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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