

Cellular Concrete Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

<https://marketpublishers.com/r/C92BBE131F80EN.html>

Date: November 2024

Pages: 220

Price: US\$ 4,850.00 (Single User License)

ID: C92BBE131F80EN

Abstracts

The Global Cellular Concrete Market reached USD 25.4 billion in 2023 and is projected to grow at a CAGR of 4.8% from 2024 to 2032. The growing emphasis on sustainability and energy efficiency in construction is driving demand for cellular concrete across residential and commercial sectors. With green building certifications such as LEED gaining prominence, cellular concrete is increasingly recognized as a sustainable material due to its lightweight, insulating, and energy-saving properties. Additionally, advancements in manufacturing technologies are expanding its applications and boosting its appeal in the construction industry.

The aerated concrete segment, a significant contributor to the market, was valued at USD 16.6 billion in 2023 and is expected to grow at a CAGR of 4.9% during 2024-2032. Known for its lightweight characteristics, aerated concrete offers a distinct advantage in projects requiring reduced structural weight. Its adoption is particularly prominent in high-rise buildings and other multi-story structures, where reducing foundation stress is critical. These properties also make it a preferred choice in seismically active regions where structural resilience is essential.

In terms of end-use, the construction and building sector dominated the market with a 53% share in 2023 and is anticipated to grow at a CAGR of 5.1% through 2032. Cellular concrete is highly valued in construction due to its lightweight nature, which reduces transportation costs, simplifies foundation requirements, and lowers labor expenses. Its thermal insulation capabilities help maintain consistent indoor temperatures, reducing reliance on HVAC systems and aligning with the increasing focus on energy-efficient and sustainable building solutions. As developers strive to meet stringent environmental benchmarks, cellular concrete emerges as a material of choice for modern construction projects.

U.S. cellular concrete market accounted for 84% share in 2023. The region's growing construction activity, driven by demand for affordable housing and infrastructure development, is fueling the adoption of cellular concrete. Its lightweight and energy-efficient properties, combined with cost-effectiveness, make it ideal for applications in diverse construction projects. From residential and commercial buildings to critical infrastructure such as bridges and public facilities, cellular concrete is becoming a cornerstone material in the U.S. construction landscape. The market growth is further supported by its ability to meet the dual demands of economic efficiency and environmental sustainability.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations.
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain.
 - 3.1.2 Profit margin analysis.
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis.
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Increasing demand for lightweight materials
 - 3.6.1.2 Rising construction of energy-efficiency
 - 3.6.2 Industry pitfalls & challenges
 - 3.6.2.1 Limited awareness and acceptance
- 3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PRODUCTION METHOD, 2021-2032 (USD MILLION) (MILLION/SQUARE FEET)

5.1 Key trends

5.2 Foam concrete

5.3 Aerated concrete

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY DENSITY, 2021-2032 (USD MILLION) (MILLION/SQUARE FEET)

6.1 Key trends

6.2 Low density (600 kg/m³ and below)

6.3 Medium density (Between 601 kg/m³ to 1,199 kg/m³)

6.4 High density (Above 1,200 kg/m³)

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2032 (USD MILLION) (MILLION/SQUARE FEET)

7.1 Key trends

7.2 Void filling

7.3 Floor decks

7.4 Roof decks

7.5 Interior walls

7.6 Thermal backfill and sub-slab fill

7.7 Sidewalks

7.8 Patios

7.9 Others (Fence Panels, Soil Remediation, Etc)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2032 (USD

MILLION) (MILLION/SQUARE FEET)

- 8.1 Key trends
- 8.2 Construction & building
- 8.3 Infrastructure
- 8.4 Industrial
- 8.5 Others (Marine & Offshore, Greenhouses, Etc)

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD MILLION) (MILLION/SQUARE FEET)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Italy
 - 9.3.5 Spain
 - 9.3.6 Russia
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 Australia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
- 9.6 MEA
 - 9.6.1 UAE
 - 9.6.2 Saudi Arabia
 - 9.6.3 South Africa

CHAPTER 10 COMPANY PROFILES

- 10.1 Aerix Industries

- 10.2 AeroConcrete Inc.
- 10.3 Cellular Concrete Solutions
- 10.4 Cellular Concrete Technologies (CCT)
- 10.5 CEMATRIX
- 10.6 Cemex
- 10.7 Gulf Precast Concrete Company
- 10.8 Knauf Insulation
- 10.9 LafargeHolcim
- 10.10 LBT Power South Africa (Pty) Ltd.
- 10.11 Sika AG
- 10.12 The Aircrete Group
- 10.13 The Conco Companies
- 10.14 U.S. Concrete, Inc.
- 10.15 Xella Group

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