

Global Volumetric Construction Market Size Study, By Product (Relocatable, Permanent), By End-use (Residential, Commercial, Student Housing), and Regional Forecasts 2022-2032

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Abstracts

The global volumetric construction market was valued at approximately USD 30.88 billion in 2023 and is projected to expand at a CAGR of 8.2% over the forecast period 2024-2032. This growth is primarily driven by the increasing need for faster, cost-effective, and sustainable building solutions. Traditional on-site construction methods face significant challenges, including labor shortages, material waste, and extended project timelines, which have led to a shift towards modular and prefabricated construction techniques. Volumetric construction, a highly efficient off-site building method, offers significant advantages by reducing construction time and labor dependency while improving quality and precision. Governments and private investors worldwide are encouraging the adoption of modular construction techniques to address the growing demand for residential and commercial infrastructure, particularly in rapidly urbanizing regions.

The demand for volumetric construction in commercial infrastructure, including hospitality, healthcare, education, and office buildings, is witnessing robust growth. Developers are increasingly turning to off-site construction methods to expedite project completion while ensuring high structural integrity and sustainability compliance. The COVID-19 pandemic further accelerated the adoption of modular construction for healthcare facilities and emergency medical structures, underscoring its effectiveness in addressing urgent infrastructure needs. In particular, student housing and hotel chains are embracing volumetric construction to create cost-efficient, energy-efficient, and rapidly deployable accommodation solutions.

Another major factor fueling the market is the rising focus on sustainability and environmental responsibility. Volumetric construction significantly minimizes material waste, enhances energy efficiency, and reduces carbon footprints compared to traditional construction methods. The adoption of green materials such as insulated panels, sustainable composites, and recyclable components is driving the market towards net-zero energy buildings. Additionally, the ability to relocate and repurpose prefabricated modules aligns with circular economy initiatives, further encouraging its adoption across residential, commercial, and industrial sectors.

Regionally, North America leads the global volumetric construction market, owing to strong adoption of modular construction techniques, rising real estate costs, and a growing labor shortage in the construction industry. The U.S. dominates the regional market, with significant investments in prefabricated housing, office spaces, and healthcare infrastructure. Meanwhile, Europe is experiencing rapid growth, supported by stringent sustainability regulations, net-zero energy building initiatives, and increasing investments in affordable housing. The Asia Pacific market is poised for the fastest growth, fueled by rapid urbanization, government-backed housing initiatives, and the need for scalable construction solutions in densely populated countries such as China and India.

Major Market Players Included in this Report Are:

Guerdon, LLC

Synergy, Inc.

The Boldt Company

DMD Modular p.s.a

VOLUMETRIC MODULAR LTD.

Vision Volumetric

H.A. Marks Construction Limited

MPH Building Systems Ltd

Enevate Homes Limited

InstaBuilt

Modulaire Group

Algeco Scotsman

Laing O'Rourke

Skanska AB

Red Sea International

The Detailed Segments and Sub-segments of the Market Are Explained Below:

By Product:

Relocatable

Permanent

By End-use:

Residential

Commercial

Student Housing

Others

By Region:

North America:

U.S.

Canada

Mexico

Europe:

UK

Germany

France

Italy

Spain

Asia Pacific:

China

Japan

India

South Korea

Australia

Latin America:

Brazil

Argentina

Middle East & Africa:

Saudi Arabia

South Africa

Years Considered for the Study Are as Follows:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscape with country-level insights.

Competitive landscape with profiles of major players in the market.

Evaluation of business strategies and recommendations for future growth.

Comprehensive supply chain and demand-side analysis of the market.

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