

Matrix Curtain Wall Market Forecasts to 2032 – Global Analysis By Product (Unitized Curtain Walls, Stick-built Curtain Walls, Semi-unitized Curtain Walls and Other Products), Material, Sustainability Features, Design Complexity, Application and By Geography

<https://marketpublishers.com/r/M19357354D71EN.html>

Date: April 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: M19357354D71EN

Abstracts

According to Statistics MRC, the Global Matrix Curtain Wall Market is accounted for \$2.50 billion in 2025 and is expected to reach \$6.49 billion by 2032 growing at a CAGR of 14.57% during the forecast period. A matrix curtain wall is a type of non-load-bearing facade system that consists of panels of glass, metal, or other lightweight materials supported by a grid-like framework, usually built of steel or aluminium. It lets natural light into buildings while providing protection from the weather. It was designed for both aesthetic appeal and environmental efficiency. Installed on the building's structural frame, matrix curtain walls are commonly used in modern high-rises and commercial buildings, offering flexibility in design, thermal insulation, and enhanced energy performance for sustainable architecture.

Market Dynamics:

Driver:

Growing urbanization & skyscraper construction

The demand for curtain wall systems rises as skyscraper building soars as cities grow vertically due to space restrictions. These walls support the objectives of urban sustainability by providing excellent soundproofing and thermal insulation. Because of their lightweight design and simplicity of installation on tall buildings, developers favour matrix curtain walls. Furthermore, creative facade designs—of which curtain walls are a

key component—are frequently incorporated into cutting-edge urban infrastructure projects. They are a common option in urban development because of their practicality and aesthetic appeal.

Restraint:

Material limitations & design complexity

High-performance materials that are costly or hard to get are needed for many curtain wall systems. Innovative architectural concepts may be limited by the scarcity of lightweight and durable materials. Advanced engineering is frequently required for complex designs, which lengthens installation times and raises labour expenses. These difficulties may discourage developers from implementing curtain wall systems in projects with tight budgets. Furthermore, it may be more difficult to execute complex designs without sacrificing structural integrity due to stringent construction requirements and performance criteria.

Opportunity:

Growing demand in emerging economies

As cities expand, there is a rising need for modern, energy-efficient building solutions, including advanced curtain wall systems. Governments in countries like India, China, and Brazil are investing heavily in commercial real estate and high-rise construction. This creates a favorable environment for curtain wall adoption in both residential and commercial sectors. Additionally, rising disposable incomes and improved living standards drive demand for aesthetically appealing and sustainable architectural designs. These factors collectively contribute to the robust growth of the Matrix Curtain Wall Market in emerging regions.

Threat:

Regulatory compliance risks

The necessity for extra testing and certification resulting from these disparate laws might raise costs and delay project approvals. Increased R&D costs result from manufacturers' ongoing need to adjust to changing environmental and energy efficiency regulations. Non-compliance discourages market expansion by putting one at risk for fines, harm to one's reputation, and project halts. Complex compliance requirements

are frequently difficult for smaller players to meet, which restricts competition and innovation. In general, the adoption of curtain wall technology is slowed down and uncertainty is created by regulatory restrictions.

Covid-19 Impact

The COVID-19 pandemic significantly disrupted the matrix curtain wall market, causing supply chain interruptions and construction project delays. Lockdowns and restrictions led to temporary closures of construction sites, impacting the installation of curtain wall systems. Additionally, economic uncertainties resulted in reduced investments in new buildings, further affecting market growth. However, as restrictions eased and construction activities resumed, the market began to recover, driven by renewed demand for energy-efficient and aesthetically pleasing building facades.

The composite materials segment is expected to be the largest during the forecast period

The composite materials segment is expected to account for the largest market share during the forecast period, due to its superior strength-to-weight ratio, enabling lighter yet durable structures. These materials enhance thermal insulation and weather resistance, making buildings more energy-efficient and sustainable. Their flexibility in design supports innovative architectural aesthetics, attracting modern construction projects. Additionally, composite materials reduce installation time and maintenance costs, driving their demand across commercial and residential sectors. As green building practices gain momentum, the use of eco-friendly composites further accelerates market growth.

The commercial segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the commercial segment is predicted to witness the highest growth rate, due to high demand for modern, energy-efficient building exteriors. High-rise office buildings, shopping malls, and hotels increasingly adopt curtain walls for their sleek aesthetics and enhanced thermal performance. Urbanization and the growth of smart cities further boost commercial construction activities worldwide. Developers prioritize curtain wall systems for their durability, design flexibility, and ability to support large glass facades. As commercial infrastructure expands, it creates consistent growth opportunities for curtain wall manufacturers and installers.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid urbanization, infrastructure development, and increasing demand for energy-efficient building solutions. Countries like China, India, and Japan are leading adopters, supported by booming construction sectors and smart city initiatives. Innovations in glass and aluminum technologies, along with rising awareness of sustainable architecture, are fueling market expansion. The region's evolving skyline and commercial projects continue to boost the adoption of matrix curtain wall systems.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to increased demand for modern, energy-efficient building solutions. Urbanization, coupled with a rise in commercial and residential high-rise projects, boosts adoption. Technological advancements in materials and design enhance aesthetic appeal and structural performance. Key players focus on sustainable and innovative curtain wall systems, meeting stringent energy standards. The U.S. leads in market share due to its robust construction sector and evolving architectural trends.

Key players in the market

Some of the key players profiled in the Matrix Curtain Wall Market include AGC Inc., Central Glass Co. Ltd., Guardian Industries Corp., Nippon Sheet Glass Co., Ltd., Saint-Gobain Group, Elicc Group, EFCO Corporation, EFP International B.V., Reynaers Group, Schott AG, Vitro S.A.B. de C.V., Xinyi Glass Holdings Limited, Yuanda China Holdings Limited, Hainan Development Holdings Nanhai Co., Ltd., Technal, PortaFab Corporation, G. James Group and LIXIL Group Corporation.

Key Developments:

In December 2024, AGC Inc. joined Glass Futures, a not-for-profit research and technology organization focused on sustainable glass production. This membership allows AGC to collaborate with a network dedicated to decarbonizing the glass industry and achieving CO₂-neutral glass production.

In February 2023, AGC Inc. announced a partnership with Saint-Gobain to design a pilot flat glass production line aimed at significantly reducing direct CO₂ emissions. The project involves refurbishing AGC's patterned glass production line in Brevka, Czech

Republic, targeting a 50% electrification and 50% use of a combination of oxygen and gas.

Products Covered:

Unitized Curtain Walls

Stick-built Curtain Walls

Semi-unitized Curtain Walls

Other Products

Materials Covered:

Glass

Metal

Composite Materials

Steel

Other Materials

Sustainability Features Covered:

Acoustic Insulation

Daylighting Solutions

Energy Efficiency

Use of Recycled Materials

Other Sustainability Features

Design Complexities Covered:

Complex Designs

Standard Designs

Applications Covered:

Residential

Commercial

Institutional

Industrial

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 Application Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL MATRIX CURTAIN WALL MARKET, BY PRODUCT

- 5.1 Introduction
- 5.2 Unitized Curtain Walls
- 5.3 Stick-built Curtain Walls
- 5.4 Semi-unitized Curtain Walls
- 5.5 Other Products

6 GLOBAL MATRIX CURTAIN WALL MARKET, BY MATERIAL

- 6.1 Introduction
- 6.2 Glass
- 6.3 Metal
- 6.4 Composite Materials
- 6.5 Steel
- 6.6 Other Materials

7 GLOBAL MATRIX CURTAIN WALL MARKET, BY SUSTAINABILITY FEATURES

- 7.1 Introduction
- 7.2 Acoustic Insulation
- 7.3 Daylighting Solutions
- 7.4 Energy Efficiency
- 7.5 Use of Recycled Materials
- 7.6 Other Sustainability Features

8 GLOBAL MATRIX CURTAIN WALL MARKET, BY DESIGN COMPLEXITY

- 8.1 Introduction
- 8.2 Complex Designs
- 8.3 Standard Designs

9 GLOBAL MATRIX CURTAIN WALL MARKET, BY APPLICATION

- 9.1 Introduction
- 9.2 Residential
- 9.3 Commercial
- 9.4 Institutional
- 9.5 Industrial

9.6 Other Applications

10 GLOBAL MATRIX CURTAIN WALL MARKET, BY GEOGRAPHY

10.1 Introduction

10.2 North America

10.2.1 US

10.2.2 Canada

10.2.3 Mexico

10.3 Europe

10.3.1 Germany

10.3.2 UK

10.3.3 Italy

10.3.4 France

10.3.5 Spain

10.3.6 Rest of Europe

10.4 Asia Pacific

10.4.1 Japan

10.4.2 China

10.4.3 India

10.4.4 Australia

10.4.5 New Zealand

10.4.6 South Korea

10.4.7 Rest of Asia Pacific

10.5 South America

10.5.1 Argentina

10.5.2 Brazil

10.5.3 Chile

10.5.4 Rest of South America

10.6 Middle East & Africa

10.6.1 Saudi Arabia

10.6.2 UAE

10.6.3 Qatar

10.6.4 South Africa

10.6.5 Rest of Middle East & Africa

11 KEY DEVELOPMENTS

11.1 Agreements, Partnerships, Collaborations and Joint Ventures

- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

12 COMPANY PROFILING

- 12.1 AGC Inc.
- 12.2 Central Glass Co. Ltd.
- 12.3 Guardian Industries Corp.
- 12.4 Nippon Sheet Glass Co., Ltd.
- 12.5 Saint-Gobain Group
- 12.6 Elicc Group
- 12.7 EFCO Corporation
- 12.8 EFP International B.V.
- 12.9 Reynaers Group
- 12.10 Schott AG
- 12.11 Vitro S.A.B. de C.V.
- 12.12 Xinyi Glass Holdings Limited
- 12.13 Yuanda China Holdings Limited
- 12.14 Hainan Development Holdings Nanhai Co., Ltd.
- 12.15 Technal
- 12.16 PortaFab Corporation
- 12.17 G. James Group
- 12.18 LIXIL Group Corporation

List Of Tables

LIST OF TABLES

- 1 Global Matrix Curtain Wall Market Outlook, By Region (2024-2032) (\$MN)
- 2 Global Matrix Curtain Wall Market Outlook, By Product (2024-2032) (\$MN)
- 3 Global Matrix Curtain Wall Market Outlook, By Unitized Curtain Walls (2024-2032) (\$MN)
- 4 Global Matrix Curtain Wall Market Outlook, By Stick-built Curtain Walls (2024-2032) (\$MN)
- 5 Global Matrix Curtain Wall Market Outlook, By Semi-unitized Curtain Walls (2024-2032) (\$MN)
- 6 Global Matrix Curtain Wall Market Outlook, By Other Products (2024-2032) (\$MN)
- 7 Global Matrix Curtain Wall Market Outlook, By Material (2024-2032) (\$MN)
- 8 Global Matrix Curtain Wall Market Outlook, By Glass (2024-2032) (\$MN)
- 9 Global Matrix Curtain Wall Market Outlook, By Metal (2024-2032) (\$MN)
- 10 Global Matrix Curtain Wall Market Outlook, By Composite Materials (2024-2032) (\$MN)
- 11 Global Matrix Curtain Wall Market Outlook, By Steel (2024-2032) (\$MN)
- 12 Global Matrix Curtain Wall Market Outlook, By Other Materials (2024-2032) (\$MN)
- 13 Global Matrix Curtain Wall Market Outlook, By Sustainability Features (2024-2032) (\$MN)
- 14 Global Matrix Curtain Wall Market Outlook, By Acoustic Insulation (2024-2032) (\$MN)
- 15 Global Matrix Curtain Wall Market Outlook, By Daylighting Solutions (2024-2032) (\$MN)
- 16 Global Matrix Curtain Wall Market Outlook, By Energy Efficiency (2024-2032) (\$MN)
- 17 Global Matrix Curtain Wall Market Outlook, By Use of Recycled Materials (2024-2032) (\$MN)
- 18 Global Matrix Curtain Wall Market Outlook, By Other Sustainability Features (2024-2032) (\$MN)
- 19 Global Matrix Curtain Wall Market Outlook, By Design Complexity (2024-2032) (\$MN)
- 20 Global Matrix Curtain Wall Market Outlook, By Complex Designs (2024-2032) (\$MN)
- 21 Global Matrix Curtain Wall Market Outlook, By Standard Designs (2024-2032) (\$MN)
- 22 Global Matrix Curtain Wall Market Outlook, By Application (2024-2032) (\$MN)
- 23 Global Matrix Curtain Wall Market Outlook, By Residential (2024-2032) (\$MN)
- 24 Global Matrix Curtain Wall Market Outlook, By Commercial (2024-2032) (\$MN)
- 25 Global Matrix Curtain Wall Market Outlook, By Institutional (2024-2032) (\$MN)

26 Global Matrix Curtain Wall Market Outlook, By Industrial (2024-2032) (\$MN)

27 Global Matrix Curtain Wall Market Outlook, By Other Applications (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

I would like to order

Product name: Matrix Curtain Wall Market Forecasts to 2032 – Global Analysis By Product (Unitized Curtain Walls, Stick-built Curtain Walls, Semi-unitized Curtain Walls and Other Products), Material, Sustainability Features, Design Complexity, Application and By Geography

Product link: <https://marketpublishers.com/r/M19357354D71EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M19357354D71EN.html>