

Aluminum Curtain Wall Market Report by Type (Stick-Built, Semi-Unitized, Unitized), Construction Type (Refurbishment, New Construction), Material (Fiberglass and Glass Wool, Mineral Wool, Plastic Foam), Applications (Commercial, Residential), and Region 2024-2032

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Abstracts

The global aluminum curtain wall market size reached US\$ 42.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 76.4 Billion by 2032, exhibiting a growth rate (CAGR) of 6.6% during 2024-2032. The growing construction and remodeling of residential and commercial buildings, increasing emphasis on energy-efficient buildings, and the rising demand for aesthetically appealing architectural solutions represent some of the key factors driving the market.

An aluminum curtain wall is an outer covering that protects structures from environmental factors. It is primarily designed to resist air and water infiltration, manage wind loads, and support weight. It is typically composed of lightweight materials like aluminum due to its strength-to-weight ratio and resistant properties. Its framework is in-filled with glass, stone, and metal panels, which aid energy efficiency, reduce construction time, and enhance the aesthetic appeal of buildings. It facilitates fast and easy installation. Besides this, as it offers unobstructed exterior views, introduces a high degree of natural light into the interior, and creates an inviting environment, the aluminum curtain wall is extensively used in high-rise buildings across the globe.

The expansion of the corporate sector is driving the demand for distinctive, modern architectural designs. This is catalyzing the demand for aluminum curtain walls as they help create striking building exteriors that enhance the brand image of an organization.

Apart from this, there is a growing recognition of the health and productivity benefits of natural lighting in building interiors, which is favoring the market growth. Aluminum curtain walls, typically in-filled with glass, offer a practical solution for maximizing natural light, thereby improving the working or living environment within the building. Furthermore, the high durability and low maintenance requirements of aluminum curtain walls are influencing their demand positively. Besides this, aluminum curtain walls enhance the safety and security of buildings. They are fire-resistant and aid in the prevention of fire spread in multi-story buildings. Also, they can be equipped with shatter-resistant glass, adding an additional layer of protection. The demand for safer, secure building infrastructure is promoting the adoption of aluminum curtain walls worldwide.

Aluminum Curtain Wall Market Trends/Drivers:

Rapid urbanization and infrastructure development

Rapid urbanization and increasing construction activities of residential buildings represent one of the key factors catalyzing the demand for aluminum curtain walls. Additionally, the rising purchasing power of individuals and the trend of renovating existing buildings are driving the demand for aluminum curtain walls. The expansion of hotels, restaurants, shopping malls, supermarkets, and hypermarkets is encouraging builders to opt for materials like aluminum curtain walls that offer a combination of durability, aesthetic appeal, and cost-effectiveness. Furthermore, aluminum curtain walls are easy and convenient to install and assist in reducing construction timelines. This contributes to its increasing adoption in the construction industry.

Environmental sustainability and energy efficiency

The rising global emphasis on environmental sustainability and energy conservation is a prominent factor driving the market. Aluminum curtain walls provide excellent insulation, thereby reducing energy consumption in buildings. Additionally, minimizing heat transfer is contributing significantly to the need for maintaining internal temperatures, reducing the load on HVAC systems and energy bills. These characteristics and the implementation of green building standards and regulations worldwide are catalyzing the demand for aluminum curtain walls.

Advancements in technology

The advent of new technologies and innovative solutions in the construction industry is propelling the market growth. Additionally, technological advancements in facade

systems are leading to the development of thermally improved and structurally glazed curtain walls, offering improved performance and aesthetic appeal. Furthermore, cutting-edge solutions like building-integrated photovoltaics (BIPVs), where solar panels are integrated into curtain walls, are driving the market growth. These advancements enhance energy efficiency and contribute to sustainable power generation, making aluminum curtain walls a smart choice in modern construction.

Aluminum Curtain Wall Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global aluminum curtain wall market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type, construction type, material and applications.

Breakup by Type:

Stick-Built

Semi-Unitized

Unitized

Unitized dominates the market

The report has provided a detailed breakup and analysis of the market based on the type. This includes stick-built, semi-unitized, and unitized. According to the report, unitized represented the largest segment.

Unitized aluminum curtain walls are currently dominating the market due to several distinctive advantages they are offering. These systems are prefabricated in factories and arrive at the construction site in panels ready for installation, optimizing construction schedules by enabling rapid assembly. Moreover, the factory-controlled assembly ensures high precision and quality control, resulting in better performance and longevity of the system. These unitized panels are being designed with interlocking mechanisms, allowing easy accommodation of structural deflections and thermal expansions without disturbing the integrity of the system.

Breakup by Construction Type:

Refurbishment

New Construction

A detailed breakup and analysis of the market based on the construction type has also been provided in the report. This includes refurbishment and new construction.

The ongoing demand to modernize the aesthetic appeal of aging buildings represents one of the key factors stimulating the market growth. Aluminum curtain walls offer a contemporary and visually appealing solution to revitalize these structures. The varied design possibilities and finishes that aluminum curtain walls offer to transform the exterior look of a building is increasing its market value.

Global population growth and urbanization are leading to an increase in the demand for new residential and commercial buildings. Additionally, modern architectural trends favor the use of materials that are not only functional but also aesthetically pleasing. Aluminum curtain walls, with their sleek and modern appeal, align perfectly with these trends. They allow architects and builders to create striking exteriors that differentiate their projects in a competitive market.

Breakup by Material:

Fiberglass and Glass Wool

Mineral Wool

Plastic Foam

The report has provided a detailed breakup and analysis of the market based on the material. This includes fiberglass and glass wool, mineral wool, and plastic foam.

The increasing use of fiberglass and glass wool in manufacturing aluminum curtain walls effectively reduces heat transfer between the interior and exterior of buildings and thus improving energy efficiency. Along with thermal insulation, these materials are also effective for sound insulation. They help in reducing external noise penetration into the building, thus contributing to a more comfortable and quieter interior environment.

Mineral wool is gaining traction as an infill material for aluminum curtain walls due to its inherent fire resistance. It can withstand high temperatures without contributing to the spread of fire, which enhances the safety profile of buildings.

There is an increase in the use of plastic foam in formulating aluminum curtain walls as they offer excellent resistance to moisture, which helps in preventing the potential for condensation and associated problems within the curtain wall system. This resistance improves the durability and longevity of the curtain wall.

Breakup by Applications:

Commercial

Residential

Commercial accounts for the majority of the market share

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes commercial and residential. According to the report, commercial represented the largest market segment.

The rising utilization of aluminum curtain walls in constructing commercial buildings offers modern and sleek aesthetics and improves the thermal insulation capacity of buildings. Additionally, the increasing emphasis on sustainability and the reduction of operational costs in the commercial sector is offering a favorable market outlook. Furthermore, with the stricter building regulations focusing on energy efficiency and environmental impact, aluminum curtain walls help commercial buildings comply with these codes. Apart from this, aluminum curtain walls offer extensive design flexibility - they offer customization and fit various shapes, sizes, and colors, making them suitable for a wide range of commercial building styles.

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest aluminum curtain wall market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific represented the largest market.

The Asia Pacific region, with numerous profitable manufacturing hubs, is offering prospective manufacturers an opportunity to expand their businesses. Moreover, governing agencies in different countries are encouraging the adoption of sustainable materials in the residential and commercial sectors. In line with this, the continuous focus on the infrastructure of schools, commercial complexes and smart cities is contributing to the growth of the market. Furthermore, the easy availability of aluminum in several countries across the region is also offering lucrative growth opportunities to key players.

Competitive Landscape:

Companies operating in the market are investing in research and development (R&D) to introduce innovative products. They are focusing on enhancing energy efficiency, integrating smart technologies, improving installation processes, and enhancing durability and aesthetic qualities. Additionally, firms are expanding their manufacturing capacities and geographical presence to meet the growing demand. This includes opening new manufacturing plants, distribution centers, and setting up local offices in different regions. Furthermore, they are forming strategic alliances and partnerships to access new technologies, share knowledge, and expand their customer bases. This includes partnerships with architects, builders, and other construction industry

stakeholders. Moreover, companies are enhancing their customer service and support to differentiate themselves in the competitive market.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Alumil S.A.
Arconic Corporation
Gutmann AG
Heroal (Johann Henkenjohann GmbH & Co. KG.)
HUECK System GmbH & Co. KG
Kalwall Corporation
National Enclosure Company LLC
Ponzio S.R.L.
PRL Glass Systems Inc.
Raico Bautechnik GmbH
Reynaers Aluminium NV
Tubelite Inc. (Apogee Enterprises Inc.)
YKK Group

Recent Developments:

In March 2021, Reynaers Aluminum NV, announced the opening of three new showrooms in Iasi, Cluj-Napoca and Timisoara. With the introduction of three new showrooms, the company aimed to achieve a new strategy in architectural development. The company has extended its product portfolio with the latest range of accessories along with its original curtain walls, doors, and windows.

In November 2022, Tubelite Inc. (Apogee Enterprises Inc.) introduced its new UniVent 1375AW Series Thermal=Block™ windows. These windows are designed to complement and seamlessly integrate within mid- to high-rise commercial buildings' storefront and curtainwall systems.

Key Questions Answered in This Report

1. What was the size of the global aluminum curtain wall market in 2023?
2. What is the expected growth rate of the global aluminum curtain wall market during 2024-2032?
3. What are the key factors driving the global aluminum curtain wall market?
4. What has been the impact of COVID-19 on the global aluminum curtain wall market?

5. What is the breakup of the global aluminum curtain wall market based on the type?
6. What is the breakup of the global aluminum curtain wall market based on the applications?
7. What are the key regions in the global aluminum curtain wall market?
8. Who are the key players/companies in the global aluminum curtain wall market?

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