

# **North America Glass Curtain Wall Market By Type (Unitized Curtain Walls, Stick-Built Curtain Walls, Structural Glazing Systems, Point-Supported Glass Systems), By Glazing Type (Single Glazing, Double Glazing, Triple Glazing), By End-Use Industry (Commercial, Residential, Industrial), By Material (Aluminum-Framed Curtain Walls, Steel-Framed Curtain Walls, Glass Fiber Reinforced Plastic (GFRP) Curtain Walls), By Country, By Competition, Forecast and Opportunities 2020-2030F**

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## **Abstracts**

### Market Overview

The North American Glass Curtain Wall Market was valued at USD 23.18 billion in 2024 and is projected to reach USD 35.24 billion by 2030, growing at a CAGR of 7.23% over the forecast period. Glass curtain walls are non-load-bearing exterior walls primarily made of glass, commonly used in commercial, institutional, and high-rise residential buildings. These systems allow for maximum daylight penetration while ensuring resistance to air and water infiltration and supporting their structural integrity. The market's growth is being propelled by increasing demand for energy-efficient building envelopes, advancements in facade technologies, and rising urban infrastructure investment across the U.S., Canada, and Mexico. Emphasis on sustainable design practices and updated energy regulations is pushing the adoption of double-glazed and low-emissivity glass. Additionally, the integration of modern materials and smart glazing technologies is enhancing both performance and aesthetics. Commercial buildings

remain the primary application area, but demand is also expanding into high-rise residential projects. Innovations in unitized and lightweight systems are helping reduce costs and improve installation timelines, further boosting adoption.

## Key Market Drivers

### Increased Demand for Energy-Efficient Building Envelopes in Urban Commercial Construction

The growing emphasis on energy-efficient building designs is a key factor propelling the North American glass curtain wall market, especially within commercial construction. Urban areas in the U.S. and Canada are adopting stricter energy codes, prompting developers to implement high-performance facades that meet thermal efficiency standards while maximizing natural light. Double-glazed units, thermally broken frames, and low-emissivity coatings are reducing energy consumption in buildings and aligning with LEED certification and sustainability mandates. As more cities prioritize zero-emission infrastructure, the demand for advanced curtain wall systems continues to rise. In addition, smart glazing technologies—like photochromic and electrochromic glass—are being used to enhance comfort and adapt to external conditions, reinforcing the importance of curtain walls in modern, sustainable architecture.

## Key Market Challenges

### High Capital Investment Requirements Limit Access for Small and Mid-Scale Developers

The high initial investment required for curtain wall systems remains a significant barrier, particularly for smaller developers. Advanced curtain wall solutions often include features like insulating glass units, structural silicone glazing, and high-performance framing materials, all of which raise design, engineering, and installation costs. These systems also require skilled labor and strict compliance with engineering specifications. The addition of smart and energy-efficient technologies—such as multi-layer glazing or integrated shading—further elevates project budgets. For cost-sensitive or low-rise developments, these financial demands limit broader adoption, especially in projects where returns may not immediately offset high upfront costs.

## Key Market Trends

### Growing Emphasis on Sustainable and High-Performance Façade Solutions

The push toward sustainable building design is driving the adoption of high-performance curtain wall systems across North America. Developers and architects are increasingly using facades that incorporate thermal breaks, solar control coatings, and multi-pane glass to improve energy efficiency and reduce HVAC loads. Photovoltaic glass, which combines energy generation with transparency, is gaining momentum in net-zero energy projects. In cities like New York, Toronto, and Chicago, evolving building codes and environmental policies are pushing developers to use simulation tools to assess performance before construction. Lifecycle cost analysis is influencing material selection and design, with long-term operational savings and sustainability outcomes becoming central to development strategies. This shift positions glass curtain walls as essential components of future-ready buildings rather than luxury upgrades.

### Key Market Players

Apogee Enterprises, Inc.

YKK Corporation

Arconic Corporation

Enclos Corp.

W&W Glass, LLC

Oldcastle BuildingEnvelope, Inc.

Curtain Wall Design and Consulting, Inc.

Reflection Window + Wall, LLC

### Report Scope:

In this report, the North America Glass Curtain Wall Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### North America Glass Curtain Wall Market, By Type:

*North America Glass Curtain Wall Market By Type (Unitized Curtain Walls, Stick-Built Curtain Walls, Structural...*

Unitized Curtain Walls

Stick-Built Curtain Walls

Structural Glazing Systems

Point-Supported Glass Systems

North America Glass Curtain Wall Market, By Glazing Type:

Single Glazing

Double Glazing

Triple Glazing

North America Glass Curtain Wall Market, By End-Use Industry:

Commercial

Residential

Industrial

North America Glass Curtain Wall Market, By Material:

Aluminum-Framed Curtain Walls

Steel-Framed Curtain Walls

Glass Fiber Reinforced Plastic (GFRP) Curtain Walls

North America Glass Curtain Wall Market, By Country:

United States

Canada

## Mexico

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Glass Curtain Wall Market.

### Available Customizations:

North America Glass Curtain Wall Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

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