



Facaplex Announces: Why the Polycarbonate Curtain Wall Is the Future of Modern Facades?

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Polycarbonate curtain wall | future of modern facades - Wednesday, July 9, 2025.

Submitted by [Facaplex](#)

As the architectural and construction industries continue to evolve towards more sustainable, lightweight, and aesthetically bold materials, Facaplex—an industry leader in façade innovation—proudly champions the Polycarbonate Curtain Wall as the future of modern building facades. Speaking at a recent industry summit, Facaplex spokesperson Jenny, a specialist in architectural systems and building envelopes, shed light on why [polycarbonate curtain walls](#) are revolutionizing façade design across the globe.

However, the integration of Polycarbonate Curtain Wall solutions into commercial and residential architecture is transforming how developers and architects approach the envelope of a building.

What Is a Polycarbonate Curtain Wall?

A Polycarbonate Curtain Wall is a non-load-bearing façade system comprised of polycarbonate panels, typically mounted on aluminum or galvanized steel subframes. These systems can span entire floors and are designed to resist air and water infiltration. What sets them apart is their composition: polycarbonate is a thermoplastic polymer known for its exceptional impact strength, translucency, and low thermal conductivity.

KEY BENEFITS OF THE POLYCARBONATE CURTAIN WALL:

As Jenny emphasized during her keynote, there are several compelling reasons to view the **Polycarbonate Curtain Wall** as the go-to solution for forward-thinking building design.

1. Lightweight Yet Strong

Polycarbonate weighs significantly less than glass—around 1/6th the weight, making it easier to handle, transport, and install. However, its impact resistance surpasses that of most traditional materials.

2. Superior Energy Efficiency

Energy performance is critical in contemporary architecture. Thanks to its multiwall design and low thermal conductivity, the Polycarbonate Curtain Wall contributes to improved insulation values.

3. Daylighting and Glare Control

Another defining advantage is the light-diffusing nature of polycarbonate. Facaplex's polycarbonate curtain wall systems are engineered to deliver high levels of natural light transmission while eliminating undesirable glare.

4. Design Flexibility

Whether it's a commercial high-rise, sports complex, transport hub, or a modern residential unit, the design versatility of the **Polycarbonate Curtain Wall** cannot be overstated.

5. Weather and UV Resistance

Unlike traditional plastics that degrade under UV exposure, the polycarbonate used in Facaplex systems comes with dual-sided UV protection. This feature extends the material's lifespan and protects against yellowing, embrittlement, and loss of light transmission.

SUSTAINABILITY AND ENVIRONMENTAL IMPACT

The architectural industry faces increasing pressure to reduce carbon footprints and adopt sustainable materials. The [Polycarbonate Curtain Wall](#) fits this requirement without compromise.

Not only does polycarbonate require less energy to produce compared to glass or aluminum, but its lightweight nature also reduces transportation-related emissions. Additionally, Facaplex provides recycling programs for old panels, and many of its curtain wall configurations use up to 50% recycled material.

Polycarbonate panel systems, owing to their long life span of 25–40 years and low maintenance requirements, also minimize replacement and upkeep waste.

The Future Ahead

With increasingly stringent building codes, the shift away from heavy materials, and the ongoing climate crisis, the material landscape of architecture is inevitably changing. Industry analysts project a global compound annual growth rate (CAGR) of 7.5% for polycarbonate-based facade systems by 2030.

Facaplex aims to capitalize on this growth by expanding its portfolio, offering integrated systems that combine BIPV (Building-Integrated Photovoltaics), ventilation control, dynamic shading, and even AI-connected smart façade technologies—all integrated into its **Polycarbonate Curtain Wall** framework.

ABOUT FACAPLEX

Facaplex is an industry-leading manufacturer and innovator in dynamic façade systems. Offering both off-the-shelf and bespoke solutions for curtain walls, rainscreens, and sustainable cladding materials, Facaplex serves commercial, industrial, and institutional clients across five continents.

About Polycarbonate curtain wall | future of modern facades

Discover the durability and modern aesthetics of **Polycarbonate Curtain Wall** solutions by **Facaplex**. Engineered for strength, thermal insulation, and UV resistance, our polycarbonate curtain walls are perfect for both commercial and residential applications. They offer lightweight performance without compromising structural integrity. Enhance your building's appearance while ensuring long-lasting protection and energy efficiency. Trust Facaplex for innovative, high-quality **Polycarbonate Curtain Wall** systems that blend functionality with contemporary design. Ideal for facades, partitions, and architectural features.

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