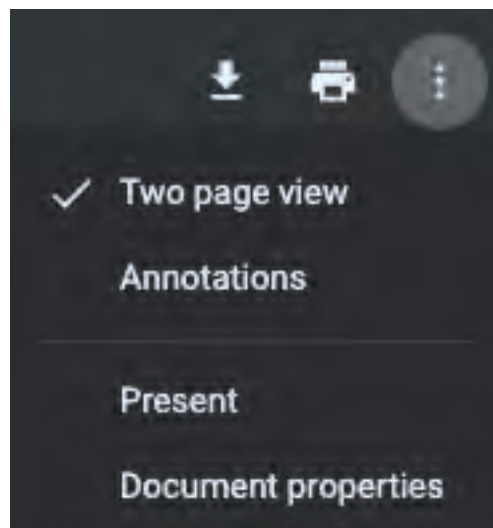


WINDOW+ DOOR

**Welcome to the digital edition of
Window + Door!**

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The Most Exciting Three Days in Glass

This year's GlassBuild America is sure to be full of conversation, innovation and energy **BY LAURIE COWIN**

As I type this, GlassBuild America is one month away. As you read this, you may be standing on the show floor at GlassBuild America, or perhaps back in your office after returning from the largest glass and fenestration trade show in North America.

There's no shortage of educational opportunities from presentations to hands-on demonstrations to booth visits and beyond. See our GlassBuild schedule on p. 27 for a taste of what you can expect at this year's trade show. And our extensive product showcase starting on p. 30 highlights just some of the hundreds of products on display throughout the 198,000+ square feet of floor space. Here's what I'm most looking forward to on this year's show floor:

1. Our brand new Keynote Theater: The inaugural Keynote Stage will feature Daymond John of ABC's Shark Tank and FUBU CEO/ founder, as the day 1 kickoff speaker, with Connor Lokar on day 2 and Women in Glass on day 3. The energy each dynamic speaker and event is sure to bring will be unparalleled and send everyone onto the trade show floor already buzzing.

2. The Main Stage: We have three days of themed content at the Main Stage. Swing by anytime to grow your knowledge and engage with these expert speakers.
3. Booth visits: I've always been a learn by doing and seeing type of person. Getting to visit exhibitor booths and experience first-hand the products, machinery and technologies that make this industry move is unmatched.
4. Networking: My schedule is jam-packed, and I bet yours is, too. As excited as I am for all of the aforementioned commitments, what I most look forward to are the impromptu conversations in the aisles, at after-show events and throughout the city, which seems suddenly much smaller and more hospitable when our industry gathers for three days of networking, learning, business and progress.

I hope to see you on the show floor at GlassBuild America. If you see me, please pull me aside, introduce yourself and let's have a conversation. ■



Laurie

LAURIE COWIN
EDITOR, WINDOW+DOOR

WINDOW+DOOR

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dormakaba Acquires Azure Access, Apollo Security

dormakaba has acquired the operating businesses of Azure Access Technology Inc., a supplier of adaptable electronic access control hardware, and ADME Inc., also known as Apollo Security, a developer and manufacturer of access control and integrated security systems. Founded in 2019 in Newport Beach, California, Azure Access develops next-generation, adaptable electronic access control hardware for the U.S. commercial market. Its open architecture controller platform is designed for original equipment manufacturers and software providers. Apollo Security develops and manufactures access control and integrated security systems. Together, Azure Access and Apollo Security employ around 30 people and serve access control companies worldwide.

Builders FirstSource Acquires Innovative Construction Group

Builders FirstSource has acquired Innovative Construction Group (ICG) from PulteGroup Inc. Founded in 2009 by Ryan Melin and Andy Melin, ICG is an offsite solutions provider focused on single and multi-family wood framed construction. With plants in Green Cove Springs, Florida, and Florence, South Carolina, ICG also installs every component it manufactures with highly trained crews.

Assa Abloy Acquires Classic Brass and Gunnebo Entrance Control

Assa Abloy has acquired Jamestown, New York-based Classic Brass Inc., a U.S. manufacturer of premium cabinet and door hardware. Classic Brass was founded in 1996 and has some 80 employees. Classic Brass will be part of the Residential Business Segment within the Americas Division.

Assa Abloy has also signed an agreement to acquire Gunnebo Entrance Control, an international provider of entrance control solutions, including speed gates, mass transit gates and security revolving doors. Formed in 1995, the company has around 670 employees. The company is headquartered in Maresfield, UK, with manufacturing sites across Europe, the U.S. and Asia. Gunnebo Entrance Control will be part of the Business Segment Pedestrian within the Entrance Systems Division.

Specialty Fenestration Group Partners with Advanced Architectural Products Inc.

Specialty Fenestration Group (SFG), parent company of Quikserv Inc. and U.S. Bullet Proofing (USBP), announced a new agency partnership with Advanced Architectural Products Inc. Advanced Architectural Products will represent the SFG brands throughout Kansas, Missouri and Arkansas, providing regional specification support, technical guidance, design assistance, and project coordination for transaction systems and security fenestration solutions designed to provide protection against ballistic threats, blast, storm impact and forced entry.

Clopay Relaunches Architect Resource

Clopay Corp. has reintroduced ArchitectDoorHelp.com, its online resource for architects and design professionals, with a new layout and navigation. The updated platform simplifies specifications of Clopay, Cornell and Cookson brand doors with a product selection tool, an on-demand custom AutoCad drawing generator for rolling doors, and supporting code and listing documentation. No account or login is necessary.

Velux Opens First Experience Center

Velux announced the opening of the Velux Experience Center in Mountain View, California, the company's first Experience Center in North America. Designed as an immersive destination for homeowners, architects, builders, remodelers, roofers, designers and the broader community, the new space allows visitors to experience firsthand how daylight and fresh air can improve everyday living. The Experience Center includes interactive exhibits, fully designed living environments, educational displays and personalized consultations.

Miter Foundation Awards \$100,000 in High School Scholarships

Miter Foundation, the charitable arm of Miter Brands, has awarded 100 graduating high school seniors with \$1,000 scholarships, totaling \$100,000. The Miter Foundation received scholarship applications from 49 of the 50 states, with 91% of applicants coming from outside Pennsylvania. This year's recipients plan to attend a range of post-

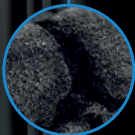
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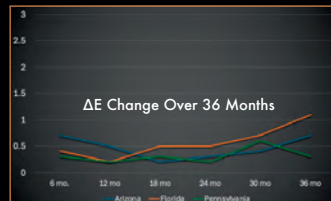
- All-black, extruded through, vinyl frame-sash
- Two options of durable, exterior laminates
- Unique, modern color and surface finishes
- High heat, fade-resistant color technology
- Additional fabrication requirements and geographic restrictions may apply

Obsidian's advanced, high-heat black formulation provides rich, consistent color throughout the profile while helping resist heat buildup, and the architectural grade laminate finish offers outstanding weatherability and lasting curb appeal. The result is a premium black window solution that combines contemporary style with durability, energy efficiency, and low maintenance performance.

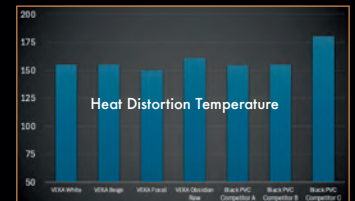
Bold. Black. Breakthrough

The Black PVC Performance Benchmark.

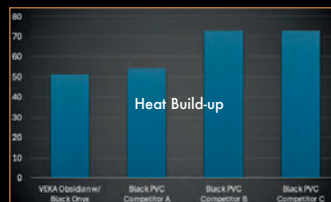
Striking a balance regarding performance is key to success for dark color extrusions. Tradeoffs can be significant if you choose one performance criteria over another. Increasing heat distortion creates a more brittle profile while the opposite leads to dimensional instability. Obsidian's balanced approach is engineered durability which provides the structural integrity needed to withstand the elements. Designed to resist fading, warping, and weather-related deterioration, across multiple markets, Obsidian offers a fabricator solution to lasting beauty, energy efficiency, and low maintenance performance for today's residential applications.



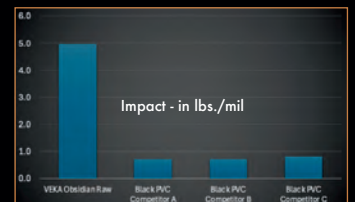
Acceptable Delta E (ΔE) change for exterior weathering is typically ≤ 3.0 to ≤ 5.0 . Values below 2.0 are nearly invisible to the human eye, while anything above 5.0 represents fading and chalking that is visibly noticeable.



VEKA Obsidian delivers improved heat distortion performance, outperforming major black PVC competitors. The data confirms that Obsidian provides a meaningful thermal performance upgrade over most competing black PVC samples tested.



VEKA Obsidian with Black Onyx showed the lowest heat build-up among the black PVC materials tested. This indicates superior heat-management performance and supports Obsidian™ Black as a more thermally controlled black PVC solution.



VEKA Obsidian with Black Onyx significantly outperformed competing black PVC materials. Data indicates a substantially tougher, more durable black PVC solution designed to withstand greater impact stress.



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News

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Scocos

Chris Scocos as the company's chief operating officer. Scocos will report directly to CEO David Campos and will oversee the company's operations, supply chain and engineering organizations. Scocos has spent the past 20 years of his career in the building products industry. Most recently, Scocos served as president of Arcadia Products.

Alpen High Performance Products



Heintz

promoted *Jeff Heintz* from its vice president of manufacturing to chief operating officer. As COO, Heintz will oversee Alpen's manufacturing, operations, supply chain, quality and continuous improvement initiatives as the company continues scaling production to meet increasing demand.

Kolbe Windows & Doors has



Bonikowske

promoted *Nathan Bonikowske* to serve as director of operations for its Manawa Division. The company is

headquartered in Wausau, Wisconsin, with divisions in Phoenix, Arizona, and Manawa, Wisconsin.

Reporting to Mark Harger, vice president for the Manawa Division, Bonikowske previously served as the division's technical director. In his new role, he oversees all operational functions at the division, including engineering, quality, continuous improvement, maintenance and manufacturing. He also directly supervises the plant manager and manufacturing staff. ■

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The screenshot displays the 'iQuote' software interface for 'A-W Cantor Software for Windows and Doors'. The top navigation bar includes tabs for 'Order', 'Quotation', 'Service', and 'Basic Data', with 'Service' currently selected. A user profile icon for 'MEI ABELLER' is visible on the right. The main content area features a table with two rows of product data. Each row includes a small image of a window or door, a description, a quantity input field, and a price column. The first row is labeled 'Complaint Item' and the second row is also labeled 'Complaint Item'. Below the table, there is a section for 'Order size Information'.

	Description	Quantity	Price
1	Complaint Item	1	
2	Complaint Item	1	

Order size Information
0 kg

- www.a-w.com**



Security Screens' Opportunity

Why security screens represent lucrative, resilient aftermarket potential for window and door manufacturers **BY JANICE YGLESIAS**

Ever since the release of a new FGIA document about security screens, it seems like the entire fenestration industry is newly invested in this product type. Because of this level of interest, FGIA's Jason Seals, certification services manager, fenestration, held a session about this growing market during the FGIA Virtual Summer Summit. He also shared the news of a new certification program for security screens, available soon. In his session, "Powering Market Place Opportunity with New Security Screen Certification," Seals talked about what went into the development of the new AAMA 1901 standard, Specification for Security Screen Products, and shared why there is market potential in the security screens space.

AAMA 1901 came out in June 2025. It was based on proven, high-performance benchmarks established by Standards Australia over the course of two decades and provides performance standards for installed security screen products. The standard offers several different types of tests for two differ-



Read more about the security screen standard and what it means for companies.

ent types of security screens. Type 1 screens have openings small enough to prevent an arm from passing through, while type 2 openings are small enough to prevent many flying insects from getting in.

"Security remains an emotional purchase that operates independently of typical budgetary constraints, offering wide potential," said Seals. He pointed out that, as standard housing turnover slows down, window and door manufacturers can leverage security screens as lucrative aftermarket additions. Plus, overall, the home security market is growing. In 2020, it represented \$54 billion in retail sales. This included products like self-monitored and professionally monitored home security systems, Ring doorbell cameras

or similar products, and smart locks for residential front doors.

The security market in general is expected to continue to grow. Plus, it appears to be a resilient market. The best time to enter it was yesterday, but the next-best time is now. The adoption potential of security screens is concentrated in areas with high value homes and warm climates, making the U.S. coasts ideal markets for these products.

As soon as AAMA 1901 was completed, its developing task group moved on to developing a certification program for security screens. The certification program procedural guide, AAMA 114, has been completed and approved for publication. The new program is anticipated to launch in July 2026, meaning it may even be available by the time you are reading this column. The program is based on the air-water-structural certification program for windows, doors and skylights, and will allow licensees to certify security screen products to the new AAMA 1901 specification.

So why should you certify? Seals is the right person to ask. Certification provides an independent, third-party check of your manufacturing processes. Licensees are audited twice a year on an unannounced basis. "Any deviations found during inspections are noted as non-conformities," said Seals. "But you should know, non-conformities are not necessarily a bad thing. It generally costs 10 times more to repair a product in the field than it would to address the issue in the factory. Finding a non-conformity means an issue was identified in the factory, and that the conditions for fixing the non-conformity can be controlled by the manufacturer."

Get your copy of AAMA 1901 today by visiting the FGIA Online Store at FGIAonline.org/store. ■

The adoption potential of security screens is concentrated in areas with high value homes and warm climates, making the U.S. coasts ideal markets for these products.



Janice Yglesias is the executive director of FGIA overseeing the full organization. She joined the association in 1999 and can be reached at jyglesias@FGIAonline.org.



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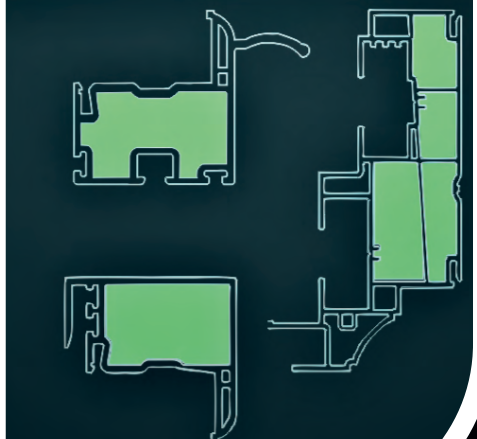


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The Politics of the Unrepresented Future

Why policy development should consider the people and communities the industry is building for in the future **BY JOHN CROSBY**

The Twenty-First Century Road to Housing Act became law in July. There was no celebration of its enactment since it became law without President Trump's signature. He simply allowed the 10-day waiting period to pass until it happened by default. One of the more persistent challenges in public policy is that the people affected by a decision are not always the people represented when that decision is made. Housing may be one of the clearest examples.

Across the country, communities are wrestling with affordability, housing supply, zoning, permitting and the pace of development. The discussion often becomes ideological very quickly, but there is a more basic question underneath it: how do we make decisions today that fairly account for the people who will need homes tomorrow? That is harder than it sounds.

Decision making

The people who live in a community today have an understandable interest in how that community grows. They care about schools, roads, infrastructure, traffic, taxes, safety and the character of the place they call home. Those are legitimate concerns, and local governments have an important responsibility to consider them.

But the people who may want to live there five or 10 years from now do not have the same voice. The young family looking for its first home is not at the zoning hearing. The worker who cannot afford to live near his or her employer is not necessarily represented

when a project is delayed. The future homeowner who would have purchased a house that is never built does not appear on anyone's list of stakeholders.

Yet those individuals ultimately experience the consequences. That imbalance is worth thinking about, particularly for our industry.

Windows and doors sit near the end of a long chain of decisions that determine whether housing gets built at all. Long before a manufacturer receives an order, land must be available, zoning must permit the project, infrastructure must support it, approvals must be secured, financing must work and the economics of construction must make sense. When any part of that process becomes unnecessarily uncertain, expensive or prolonged, the effect eventually reaches manufacturers, suppliers, distributors, builders and consumers.

No single zoning requirement or permitting decision creates a national housing shortage. In many cases, each individual requirement may have a reasonable purpose. The difficulty comes from accumulation.

One additional review does not seem consequential. Neither does one more design requirement, another hearing, a longer approval period or an added condition of development. But when those requirements multiply across thousands of communities and thousands of projects, their collective impact becomes significant. Housing becomes more expensive to produce. Some projects become smaller. Others are delayed. Some are never built. That

should lead us toward a more practical conversation about regulation.

The issue is not whether communities should have rules. Of course they should. Building safety matters. Fire protection matters. Energy performance matters. Infrastructure matters. Environmental conditions matter. Thoughtful planning matters. The question is whether our rules are clear, predictable and proportionate to the risks they are intended to address. That is an important distinction for the window and door industry as well.

Certainty and consistency

WDMA members operate in an environment shaped by building codes, energy codes, product standards, zoning decisions and increasingly complex state and local requirements. We understand the value of regulation when it is tied to measurable performance and a legitimate public objective.

We also understand what happens when requirements become fragmented, duplicative or disconnected from demonstrated outcomes. Housing policy may benefit from the same principle we frequently advocate elsewhere: focus on performance rather than prescription. Communities should be able to establish reasonable expectations for safety, infrastructure and development. But once those expectations are clearly defined and satisfied, there should also be a reasonable path toward approval.

Certainty has value. So does consistency. And so does recognizing that the

cumulative cost of regulation eventually shows up somewhere—often in the price paid by the person trying to buy or rent a home.

Policy's considerations

There is another dimension to this conversation that deserves attention. Housing policy naturally gives considerable weight to people who already live in a community. Perhaps the next generation of policy should also give greater consideration to those who are trying to enter it. That does not require choosing between existing residents and future residents. It requires recognizing both.

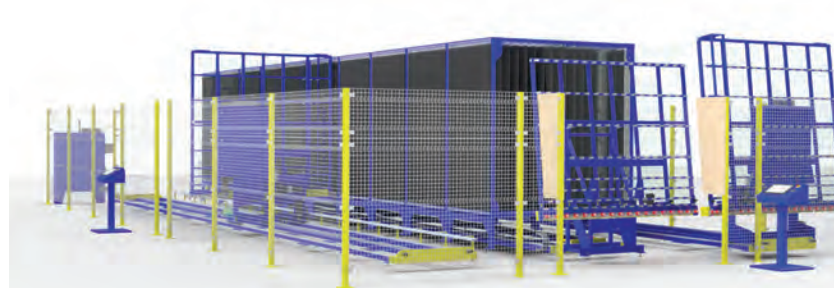
We will not solve the nation's housing affordability challenge through any single policy change, and certainly not through zoning reform alone. Land costs, labor availability, financing, material costs and broader economic conditions all matter. But our decision-making systems matter too.

The question worth asking is whether they are designed only around the interests and concerns we can see today, or whether they also leave room for the people and communities we are trying to build for tomorrow. For an industry whose products literally frame the places where people live, that seems like a conversation worth having. ■



John Crosby is the president and CEO of the Window and Door Manufacturers Association in Washington, D.C.

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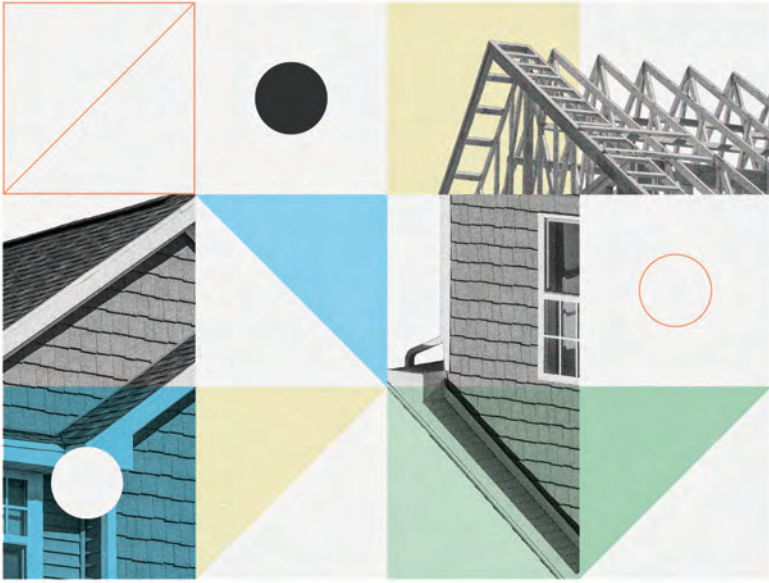


PHOTO-ILLUSTRATION BY CORY THACKER

A Selective Market

Amid cost pressure and volume constraints, the M&A markets remain open for premium assets **BY ANDREW K. PETRYK**

2026 has been a challenging year for many window and door manufacturers. Despite positive long-term fundamentals, the housing market still faces headwinds. Homeowners and builders continue to invest where there is a clear need, but higher financing costs and affordability pressures are making them more cautious about discretionary projects. Manufacturers are still working through a cost base that has not fully normalized, with materials, freight and labor availability continuing to put pressure on margins.

In this environment, management teams are focusing on areas where they can have the greatest impact: strengthening margins, preserving financial flexibility and using disciplined pricing to support performance. Companies continue to invest in growth by modernizing their manufacturing footprints and deploying automation to improve efficiency and product quality.

Supply chain resilience

Securing supply chain resilience is also

in focus amid a volatile input environment. Andersen Corp.'s acquisition of Bright Wood Corp., which ensures the company's access to a critical supply of components and lumber, illustrates this theme. Bright Wood has supplied window and patio door components and engineered dimensional lumber to the U.S. market for more than 60 years.

At the same time, the industry is also watching for help on the demand side. Recent Congressional actions to address the housing crisis signal that affordability and supply constraints are national priorities. The 21st Century Road to Housing Act became law in July after Congress reached a bipartisan, bicameral agreement in June, marking the largest housing package in decades. While industry experts do not anticipate a material short-term impact to reduce housing prices, any progress to boost new construction, lower financing costs, or ease housing bottlenecks would be a welcome tailwind for window and door manufacturers.

Durable value

Despite uneven near-term demand, longer-term fundamentals and policy-support trends help explain why investors still see durable value in the category. Premium assets continue to attract significant competition from investors, as ample capital fuels an active M&A market. That does not mean every business receives the same level of attention. Buyers are more discerning, underwriting based on today's performance and with a sharper focus on sustainability. Companies that have demonstrated the ability to grow over the past several years and have a clear value-creation plan for continued expansion are standing out.

The window and door industry offers compelling investment attributes. Private equity sponsors like the fragmentation because it presents opportunities to build value through add-on acquisitions, operational improvements and geographic expansion. Strategic buyers can leverage acquisitions to gain access to new customers, products or regions more quickly than through organic investment alone. As a result, the highest-quality assets continue to attract meaningful buyer interest.

The M&A market is open for high-quality businesses that can demonstrate resilience and a credible path to growth. Businesses with defensible moats are still well-positioned to command premium valuations, while less differentiated assets are likely to face greater scrutiny. For sellers that can show they have performed through the current cycle, the backdrop remains favorable for achieving strong outcomes. ■

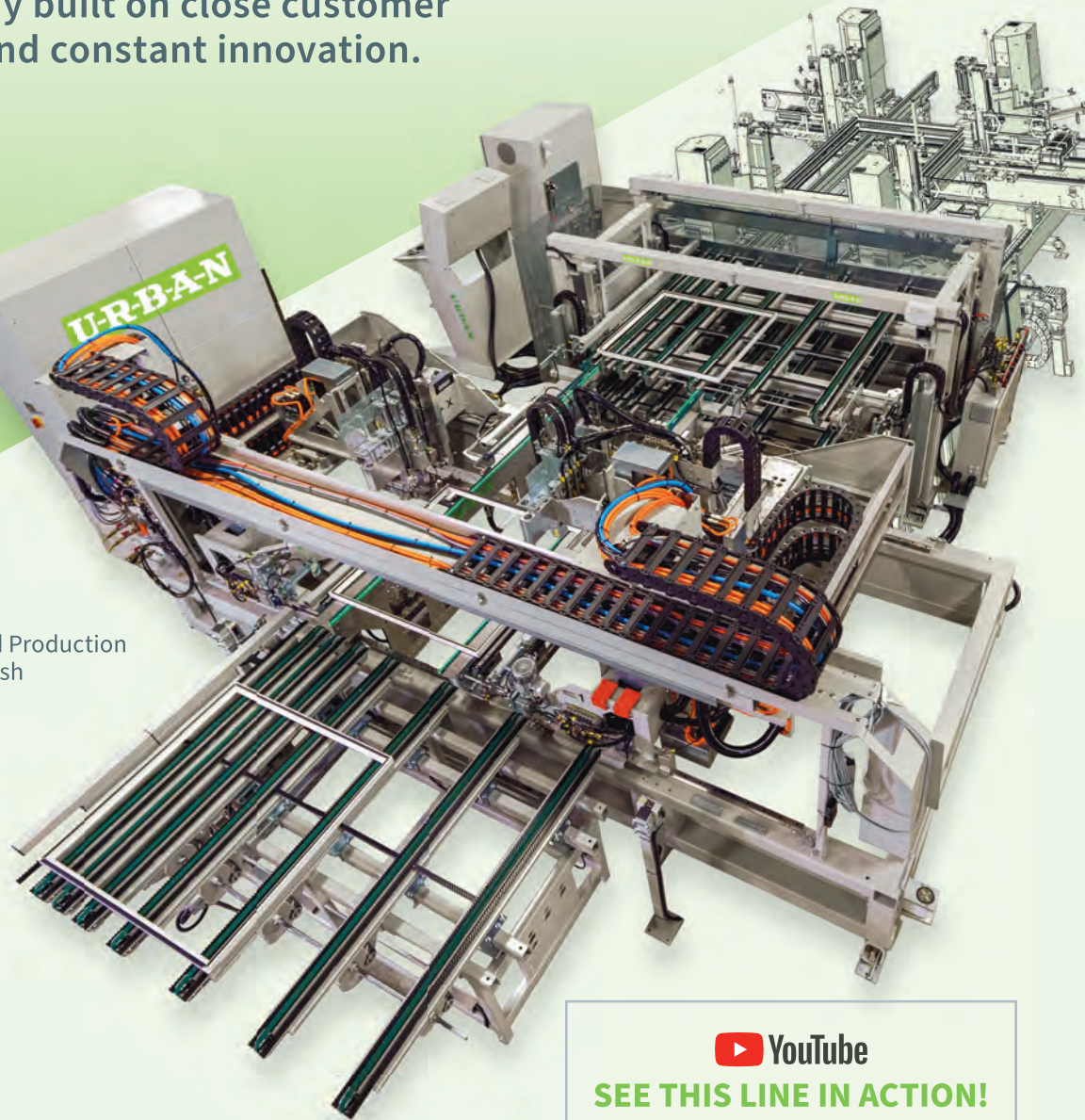


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Informed design

How Deceuninck's 205 Patio Door evolved from fabricator feedback into a product that addresses real manufacturing challenges **BY LAURIE COWIN**

Deceuninck North America's newest tower-style patio door system, the 205 Patio Door, was developed in response to common challenges facing residential window and door fabricators. Through ongoing customer conversations, Deceuninck identified a need for a system that could reduce component counts, simplify assembly and maintain the performance required for larger openings. The result is a platform with nearly 50% fewer components, a DP50 structural rating, and manufacturing flexibility built in from the ground up.

Window + Door sat down with Greg Koch, interim president and vice president of sales and marketing, Deceuninck North America, and Dylan Rivers, design engineer, to talk about how the 205 Patio Door came together and what it means for fabricators.

Window + Door: Let's start at the beginning. Where did the idea for the 205 Patio Door come from?

Greg Koch: It really came from listening to our customers. Through conversations with fabricators, we continued to hear about the need for a more efficient residential tower-style patio door system. Customers were looking for ways to reduce total parts, simplify assembly and improve manufacturing efficiency while maintaining the structural and thermal performance required for today's PVC door systems. We saw an opportunity to take that challenge seriously and rethink the platform from the ground up.

Dylan Rivers: Our efforts were informed by direct customer feedback. We listened and went straight to the drawing board. We needed to devise a patio door system with fewer parts, one that would simplify fabrication without sacrificing performance.

WD: What were the specific goals your teams set out to achieve?

DR: From an engineering standpoint, we centered the project on three main goals. First was reducing SKUs and inventory by minimizing the number of parts fabricators needed to order, stock and assemble. Fewer parts means less labor and less complexity, so fabricators can move product out the door faster. Second, we needed the platform to achieve a DP50 structural rating in an 8- by 8-foot door configuration, so it could support large-format residential and light commercial applications. And third, we wanted manufacturing flexibility so fabricators could produce either a welded frame or a mechanical knock-down configuration using the same core components.

WD: The 205 Patio Door marks a shift from a "pocket-style" design to a "tower-style" system. Can you explain that difference and why it mattered here?

DR: In a traditional pocket-style sliding door, the sash sits within the frame. For the 205, we engineered an all-new tower-style system where the sash straddles and overlaps the frame when it closes. That creates a more integrated structural system overall. We got there by first studying how competing tower-style doors were fabricated and looking closely at where extra components and manufacturing touchpoints added unnecessary complexity. Once we understood where that complexity was coming from, we could design it out.

WD: How significant was the reduction in parts, and what did that take?

DR: Existing tower-style systems can include more than 20 unique pieces, including PVC, steel and aluminum profiles, along with several ancillary parts. Through a close review of the system design and fabrication process, we reduced the total component count by almost 50%, creating a more streamlined platform that supports more efficient inventory management and assembly.

WD: Performance is non-negotiable in this category. How did the team make sure the 205 didn't trade performance for simplicity?

DR: That was the balance we had to strike throughout the whole project. On the structural side, we engineered the system to achieve a DP50 rating in an 8- by 8-foot configuration, which supports large-format residential and light commercial applications. On the thermal side, we set a target U-factor of .22 without requiring a triple insulating glass unit. That keeps the door energy efficient while still allowing for more cost-effective glazing options.

We also took a modular approach to water performance. The base frame is designed to meet DP35, which covers most of the U.S. market. Snap-on accessory components allow fabricators to upgrade the system to DP50 or DP60 when required for specific regional or

project conditions, including Miami-Dade County, coastal regions, pan-handle areas or other high-wind zones.

WD: The system also offers two sash height options. What's the thinking behind that?

DR: There's a 2.5- and 3-inch sash. The lower-profile option is more economical and offers greater glass area, while the taller sash accommodates larger reinforcement cavities and better performance for oversized panels up to 8 feet tall. We also added a snap-on sash adapter that gives the door a traditional wood French patio door look.

WD: Let's talk about manufacturing. How did Deceuninck make sure the 205 could be produced efficiently?

GK: Deceuninck's tooling team was involved early in the development process, reviewing engineering drawings to identify opportunities to improve manufacturability before dies were produced.

DR: Our tool room manager, Shawn Riddell, and his team reviewed engineering drawings from the start to flag manufacturability issues before any dies were produced. We evaluated wall thicknesses, internal geometry, dimensional tolerances and die flow characteristics together so we knew the lineals could be extruded efficiently once we got to the production floor. As Shawn put it during the project, once steel is cut, changes get a lot more expensive. By collaborating with engineering early, the team could recommend small design adjustments that improved manufacturability without changing the product's intended performance.

WD: What did the testing process look like once the profiles were designed?

DR: Every profile went through tooling adjustments, capability runs to confirm it could be extruded to spec, quality verification and production

validation runs before it was released for full-scale manufacturing. It's a thorough process and helps ensure the finished profiles consistently meet both our engineering specs and real-world production requirements.

WD: How did Deceuninck determine that the system addressed a broader market need?

GK: The fabrication challenges that helped initiate the project were not unique to one customer. They reflected needs we were hearing throughout the industry. Fabricators are looking for ways to reduce SKUs, simplify assembly, improve inventory management and maintain strong structural and thermal performance. The 205 patio door was designed to address these common challenges, so it made sense to offer the platform to the broader market. We've already had strong interest from fabricators looking for a more efficient, high-performance tower-style patio door solution.

WD: What does this project say about how Deceuninck approaches product development more broadly?

GK: It reflects our philosophy that the best products don't come from designing in isolation. Our engineering, tooling and product development teams listen closely to customers to understand their fabrication and performance needs. In this case, direct customer collaboration helped our teams identify practical opportunities to reduce complexity and create a platform with wide industry relevance. The result is a patio door system that supports more efficient fabrication while delivering the smooth operation, ease of use and high performance end users expect. The 205 Patio Door demonstrates how customer insight, technical expertise and cross functional collaboration can drive meaningful product innovation. ■



At Home with Decorative Glass

Creatively balancing daylight, privacy and visual appeal



Homeowners want it all. They crave large windows for their outdoor views and indoor daylight. They expect their windows to enhance their curb appeal and interior décor. Homeowners also aren't willing to compromise their privacy and personal comfort. Decorative glass and glazing can be the hero in their project success story to creatively balancing all these desires.

The aesthetic properties of decorative glass typically are the first considerations in exterior, interior and

specialty glass applications. Adding color, texture and patterns to glass personalize a home's design. Beyond these visual effects, different decorative glass surface treatments can provide privacy, reduce glare, and manage light transmittance and diffusion. Some treatments also extend the functionality of the glass, such as employing specific patterns for bird deterrence, finishing techniques for improved grip and slip resistance, or coverage to support shading and cooling strategies.

Opportunities for the whole home

Where privacy is preferred and access to daylight remains a priority, decorative glass can be integrated throughout a single-family home in windows, doors and much more.

- In bathroom windows and shower surrounds, frosted or patterned glass allows for both privacy and natural light to enter the space.
- Entry doors and side lites incorporate decorative glazing to present a welcoming exterior appearance and a sunlit interior, while obscuring direct views into the home for personal security.
- Windows on street-facing or neighbor-side elevations use translucent glass to reduce visibility from the outside without sacrificing daylight or adding shades, blinds or curtains.
- In great rooms, communal areas and shared bedrooms, interior partitions can incorporate decorative glass to maintain an open feel, yet separate spaces.
- Stairways and landings benefit from decorative glazing to introduce diffused natural light more deeply into the interior, or to visually distinguish or harmonize with décor across multi-level layouts.

Categories of decorative glass and their benefits

To understand the optimal uses and benefits of decorative glass products, it's helpful to categorize them by their defining treatments, techniques or materials. Each offers distinct visual and performance attributes.

Acid-etched glass

Acid-etched glass is produced by chemically treating the surface to create a translucent, frosted appearance. This treatment may be applied uniformly across an entire surface, or selective-

ly to cover certain areas. Suitable for use in both interior and exterior glass applications, it diffuses light, reduces glare and produces attractive designs. The translucency and coverage can be adjusted to match the level of privacy without affecting light flow.

In exterior glazing applications, it can be combined with a low-e coating for improved thermal performance and interior comfort. On stairs and flooring, it can be used for slip-resistant surfaces. Its wear-resistant surface retains its desired appearance over time. Acid-etched glass also may be chosen as a decorative treatment on mirrors for a soft, matte reflection.

Sandblasted and sand-carved glass

Sandblasting uses high-velocity abrasive particles to mechanically roughen the glass surface and create a frosted effect. Materials other than sand will produce different visual effects. A protective coating on the sandblasted surface may be applied to protect from dirt and fingerprints. There are no concerns regarding adhesion or material compatibility because this treatment modifies the glass surface itself.

This process allows for variation in texture, depth and patterning. Sandblasted glass can be designed to provide multiple levels of translucency, tailoring privacy levels to specific applications. Gradient or fade effects can transition between clear and obscured areas, as well as showcase decorative or three-dimensional patterns. Because the surface is mechanically altered and can be porous, sandblasted glass is best suited to interior applications, such as partitions and accent walls. Like acid-etched glass, this treatment may be applied to one or both surfaces of the glass. Exterior windows and doors can integrate sandblasted glass to the room-side interior of an insulating glazing unit.

Digital printing supports unique and highly customized designs with multicolor imagery, intricate graphics or subtle gradients that vary in opacity across the surface.

Silkscreened and screen-printed glass

Screen printing involves applying coatings or inks to the glass surface. The most common inks are ceramic frit, or organic coatings such as silicones or epoxies. The coatings can be fused to the glass through heat or chemically bonded. Coatings can be solid coverage or patterned, and are available in many colors, translucencies and even metallics.

Depending on the coating system used, screen-printed glass can be appropriate for interior applications as well as certain exterior conditions. This method offers consistent mid- to high-volume production of the same motif or pattern for a whole product line or a whole house. The customization potential of this decorative glass lends itself to interior glazing, shower enclosures and foyer features.

Digitally printed glass

Expanding the custom design possibilities for decorative glass, digital printing allows high-resolution images or patterns to be printed directly onto the glass surface using either organic or inorganic inks, including ceramic enamel and acrylics. Unlike screen printing, which is optimized for repeated patterns, digital printing supports unique and highly customized designs with multicolor imagery, intricate graphics or subtle gradients that vary in opacity across the surface.

The flexibility of digital printing invites imaginative designs and specific privacy and translucency goals within

a single lite of glass. It works in both interior and exterior applications, depending on the type of inks and glass, and processing methods employed. It is especially valuable in residential projects where homeowners seek truly individualized design elements, such as made-to-order entry doors with artistic glazing or original photography printed onto a glass-walled stairwell.

Fully opaque glass

When daylight is not the objective, fully opaque glass delivers a high-quality, modern appearance that creatively conceals anything behind the decorative panel. Typically, this method is achieved by applying full-coverage coatings to the inner surface of the glass lite. Opaque glass more commonly is seen on commercial buildings to cover structural or mechanical elements. It also has relevant applications in contemporary residential designs as bold design accents contrasting with transparent glazing.

Laminated glass and interlayers

The use of decorative interlayers within laminated glass constructions also serves as a viable option to monolithic lites when additional safety, security or acoustical performance is desired. Used to bond multiple lites of glass together, these interlayers can be clear, translucent or opaque, and they can incorporate colors, textures or custom graphics.

The multiple characteristics of laminated decorative glass make them particularly beneficial in homes' windows, skylights and doors. For

➔ Trends

those living in coastal climates and high wind zones, laminated glass adds protection against windborne debris. Keeping interiors safe and sound, the protective qualities of laminated glass and its interlayers offer additional security against breakage, reduce outside noise, and block UV rays from fading furnishings and artwork.

Specification considerations

Selecting the appropriate decorative glass solution requires careful evaluation of project-specific aesthetic and technical factors:

- The intended aesthetic presentation from highly customized original artwork to repeated geometric patterns to full surface coverage
- The translucency and opacity levels needed to achieve the appropriate balance between privacy and light transmission

- The application environment as products suitable for interior use may not perform the same way when exposed to exterior conditions
- The performance requirements for structural integrity, thermal comfort, noise reduction, safety, security and more
- The choice of glass substrate and its thickness, color and type will influence both performance and appearance
- The compatibility with the overall glazing system, including interactions with sealants, interlayers and adjacent materials
- The cleaning and maintenance expectations, particularly for surfaces that are mechanically altered and may require protective coatings

Decorative glass and glazing technologies provide homeowners with

attractive and functional options to enhance daylighting, improve comfort and support personal expression. Integrating these decorative glass options into residential product offerings demonstrates a customer-focused, responsive approach to satisfy their growing wish list.

This content is adapted from the NGA AIA presentation Designing with Glass - Privacy & Translucency. NGA is an approved American Institute of Architects (AIA) Provider of continuing education sessions. Thanks to the involvement of its volunteer members, offers approved presentations as part of its resource library. NGA members may use these presentations as a resource when reaching out to architects. Email technicalsvcs@glass.org for a speaker agreement and to access to the presentation. ■

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THE LARGEST FENESTRATION AND GLASS INDUSTRY TRADESHOW IN NORTH AMERICA WILL OFFER NEW SOLUTIONS, INSIGHTS AND OPPORTUNITIES FOR COMPANIES TO MEET THE MOMENT

BY NORAH DICK

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GlassBuild America returns to Las Vegas this year, to the newly renovated West Hall of the Las Vegas Convention Center. Along with the new site, GlassBuild's programming will focus on providing fresh opportunities for industry companies to find success in what has become an unpredictable market.

"This year's GlassBuild America is built for a moment when our industry needs clarity as much as connection," says Lakisha A. Woods, CAE, president and CEO of the National Glass Association. "That's why so much of the new programming at this year's show centers around helping industry members make informed decisions in an unpredictable economy."

As part of that commitment to supporting the industry, GlassBuild is debuting a Keynote Theater, offering high-level insights for attendees. "We're kicking things off with 'Shark Tank' star and Fubu founder Daymond John, who knows firsthand what it takes to build a resilient business from the ground up. His insights on strategy, to be shared in our brand-new Keynote Theater, will provide guidance on smart decision-making," says Woods. "Combined with returning economist Connor Lokar's data-driven forecasting, attendees will have the information they need to make more confident calls in the year to come."

Beyond updated programming, the National Glass Association remains committed to workforce development in the glass and fenestration industries. As part of its "See Yourself in Glass" student outreach campaign, NGA will host 500 students from local high schools at GlassBuild to learn about career opportunities, tour the show floor and participate in hands-on skill activities.

"These students are already engaged with their high school building and manufacturing trade programs, and we want to show them the variety of career paths the glass industry has to offer," says Jenni Chase, vice president of workforce development, NGA. "Every student who leaves that day considering a career in glass is a win for our industry."

NEW THIS YEAR

THE OPENING CELEBRATION

Join 1,500+ industry professionals for an exclusive evening at Allegiant Stadium, the iconic home of the Las Vegas Raiders. This premier event will set a new elevated precedent for attendees and provide unparalleled networking and connections that will last for years to come. The event will take place at Allegiant Stadium in Las Vegas following the end of the first day of the show, Sept. 23. What to know about this event:

- Shuttle transportation is provided from the Convention Center to Allegiant Stadium.
- Gourmet catering and premium specialty cocktails will be available throughout the venue.
- Live entertainment will create an unforgettable atmosphere.
- Attendees can enjoy unparalleled networking with industry leaders, executives and decision-makers.
- Get behind-the-scenes stadium access, including Raiders' locker rooms, VIP lounges and suites.
- See architectural glass products from NGA members and GlassBuild exhibitors.

3 DAYS OF OPENING KEYNOTES

GlassBuild's inaugural Keynote Theater will feature a dynamic opening keynote program each morning of the show, prior to the exhibit hall opening.

See GlassBuild.com for additional information and updates. All keynotes will take place at GlassBuild's Keynote Theater in Room W232 off the show floor. Separate registration is required.

- **Shark Tank's Daymond John | Wednesday, Sept. 23, 8:30 a.m.**

GlassBuild welcomes Daymond John, star of ABC's Shark Tank, entrepreneur, and Fubu CEO/founder, as the show's kickoff keynote. One of America's most recognized business minds will share his story of



building a brand from nothing and the strategies that drive growth, in the keynote "Daymond John's 5 Shark Points: Fundamentals for Success in Business and Life."

- **The Construction Forecast with Connor Lokar | Thursday, Sept. 24, 8:30 a.m.**

Senior Economist Connor Lokar of ITR Economics delivers his annual data-driven forecast on day two of the show, a presentation designed to help your business plan with confidence. Lokar specializes in applied economic analysis and forecasting for construction and industrial markets, making him uniquely positioned to speak to the glass and glazing industry. He has served as the economic speaker at the Glazing Executives Forum since 2017.

- **Women in Glass – Workforce Leadership Breakfast | Friday, Sept. 25, 8:30 a.m.**

Closing out the keynote program on day three is Women in Glass – Workforce Leadership Breakfast. NGA Board member Syndi Sim, director of sales and business development, Q-Railing, will emcee this event, with keynotes focused on workforce development, featuring Lakisha A. Woods, CAE, NGA president and CEO, and Barbara Bouza, FAIA, former president, Walt Disney Imagineering and executive director of market strategies and growth, CannonDesign.

- **Window + Door Awards Presentations**

The Keynote Theater program also includes the presentation of the Window + Door Awards and Glass Magazine Awards on days one and two, which spotlight the innovative products and people in glass and fenestration. Join Window + Door and Glass Magazine, the official show publications of GlassBuild America, as we celebrate this year's winners and their achievements. The awards will be presented as part of the keynote program on days one and two of GlassBuild.

THE INNOVATION LOUNGE

New in 2026, the Innovation Lounge, located on the GlassBuild America show floor, is your destination for what's next. Explore a curated showcase of recently launched or about to launch products from select GlassBuild exhibitors. The Innovation Lounge is open all hours of the show and features the most forward-looking products in the areas of artificial intelligence, technology, robotics, sustainability and architectural glass.

AI (Artificial Intelligence). The AI zone inside the Innovation Lounge showcases how artificial intelligence is reshaping the way glass and fenestration companies design, quote and manufacture. See how predictive systems are reducing waste, accelerating lead times, and putting smarter decisions in the hands of the people who need them most.

Technology. Step into the Technology zone to explore the connected ecosystem powering modern glass operations. Whether you're looking to digitize your workflow, upgrade your CNC capabilities or integrate your ERP with your production line, this zone puts the tools to transform your business right in front of you.

Robotics. The Robotics zone puts automation front and center. Watch live demonstrations of robotic arms handling large-format glass with precision and speed, collaborative robots working safely alongside human operators, and automated processing systems that are redefining throughput for fabricators of every size.

Sustainability. The glass industry has a critical role to play in a more sustainable built environment, and the Sustainability zone highlights the companies leading that charge. Explore products and processes designed to reduce energy consumption, minimize waste, and lower the carbon footprint of glass from production to installation.

Architectural Glass. The Architectural Glass zone celebrates glass as one of the most dynamic materials in the built environment. From high-performance insulating glass units to

SCHEDULE AT A GLANCE



Please see all updated times and programming at GlassBuildAmerica.com. The exhibit hall is open 10 a.m. – 5 p.m. Sept. 23-24, and 10 a.m. – 1 p.m. Sept. 25. Registration is open 8 a.m. – 5 p.m. Sept. 23-24, and 8:30 a.m. – 1 p.m. Sept. 25. The Skills Challenge is open 10 a.m. – 5 p.m. on Sept. 23-24. If you have questions about membership or benefits through the National Glass Association, you can speak with staff at Booth #4645 at the following times: Sept. 23-24, 10 a.m. – 5 p.m. and Sept. 25, 10 a.m. – 1 p.m. Unless otherwise noted, programming takes place at the Main Stage, Booth #4737 on the GlassBuild show floor.

façade-defining specialty laminates, this zone is essential viewing for architects, glazing contractors, and specifiers looking to stay at the leading edge of design and performance.

“The Innovation Lounge represents everything GlassBuild America stands for: giving our industry a firsthand look at what’s next,” says Sarah Swango, vice president of development and exhibit sales, NGA. “From AI-driven design and quoting to robotics reshaping the fabrication floor, this is where our members will see the innovations that will define the next decade of glass and glazing. We’re proud to give these forward-thinking exhibitors a dedicated space to showcase what’s possible.”

SKILLS AND IDEAS YOU CAN USE

GlassBuild doesn’t just help you find new products and connections; it offers new ideas and resources for your business. Here are some opportunities to explore on the GlassBuild show floor.

NGA MEMBERSHIP BOOTH

Have a question for the National Glass Association? Stop by Booth #4645 to ask NGA staff about membership, member resources and our work across the industry. Learn about our advocacy priorities and industry partnerships; our industry-specific education platform, MyGlassClass.com; our apprenticeship curriculum; our technical manuals and resources; and many other association and member resources. We want to hear from you, and it’s only with industry feedback that we can continue to grow and improve GlassBuild.

ASSOCIATION ROW

NGA’s association partners will have

booths in the foyer space outside the exhibit hall (near the podcast studio), including the Fenestration & Glazing Industry Alliance, Fenestration Canada, and the International Institute of Building Enclosure Consultants. NGA encourages attendees to stop by to visit with them and learn about the mission and programs available to those in the construction industry.

MAIN STAGE

Don’t miss the GlassBuild Main Stage for three days of industry insight, networking, and celebration, right on the show floor. Open to all attendees, this dynamic hub is presented by the National Glass Association and sponsored by MyGlassClass.com, Glass Magazine, and Window + Door. Programming spans the full spectrum of the glass and fenestration industry, with sessions for glaziers, fabricators, suppliers, architects and more.

Daily themed education includes:

- Glass Design Exchange: Where glazing expertise meets design innovation to shape the future of glass
- Business of Glass: Practical insights on profitability, innovation and the people driving the industry forward
- Legacy and Leadership: From milestone celebrations to succession strategies, a day built for owners and next-generation leaders

PODCAST STUDIO

The official podcast of GlassBuild, Glass Cast, will once again record live from the show floor. Window + Door and Glass Magazine’s editorial staff will welcome leading glass and fenestration leaders to discuss the latest trends and industry news, as well as share their thoughts on the larger economic and business landscapes ahead.

AI OFFICE HOURS

With Elton Boocock, AI strategist for glass and fenestration | Sept. 23, 11 a.m. – 12 p.m., Sept. 24, 3 p.m. – 4 p.m., Innovation Lounge

Got AI questions you haven’t had a chance to ask? Elton Boocock, AI strategist for the glass and fenestration industries, and head of Thinkivity AI, is holding office hours in the GlassBuild Innovation Lounge. Bring your concerns, your implementation headaches, or your “where do we even start” questions. No slides, no pitch, just straight answers from someone who’s been in the weeds with AI in plants and jobsites just like yours.

SKILLS CHALLENGE AND SHOWER DESIGN CHALLENGE

GlassBuild America will once again host the Skills Challenge and NGA Shower Design Challenge on the trade show floor during show hours Wednesday and Thursday. Specifically designed for glaziers, this unique space offers attendees the opportunity to participate in hands-on activities to test their skills while learning about new products and services. Located at Booth #4755, the event will feature two activities:

The GlassBuild Skills Challenge:

A space dedicated to commercial and residential glaziers to try their curtain wall, storefront and sealant installation skills while exploring new products and opportunities designed to further their skills.

The NGA Shower Design

Challenge: A space dedicated to all things shower enclosures. Glaziers can test their installation and measurement skills, learn about new products, and network with peers. ■

GLASSBUILD PRODUCT SHOWCASE



Leading fenestration manufacturers and stakeholders will come together in Las Vegas for the annual GlassBuild America: The Glass, Window & Door Expo. As the biggest fenestration event in North America, attendees will have the opportunity to explore, demo, see and learn about products hands-on and see how today's newest innovations will push the industry forward tomorrow. See a preview of the products, services and supplies on display at this year's show. For even more product information, visit the product showcase at GlassBuildAmerica.com.

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Window and Door
Systems + Design

P.80

Machinery + Equipment

P. 102

Hardware, Components
+ Sealants

P. 128

Software, Tools + Services

What matters to manufacturers:

81%

added production capacity in
2025

60%

plan to add automation in the
next year

43%

will invest in equipment and/or
software

Source: Window + Door 2026 Top
Manufacturers survey

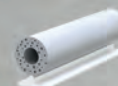
Booth numbers are current as of Aug. 5. For up-to-date
information, see GlassBuildAmerica.com.

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GlassBuild Booth 2532

Roto & Ultrafab

Smooth to operate. Tightly sealed against the elements. Roto X-DRIVE hardware and Ultrafab ULTRA CELL® weatherseals work together to enhance comfort, efficiency, and long-term performance of Casement and Awning windows.



NEW AT GLASSBUILD

Wizard Screen Solutions

VistaView Plus is a premium retractable screen system that brings fresh air and insect protection to large openings. Designed for patios, multi-panel doors, and outdoor living spaces, it features a clean square housing profile, all metal hardware, and an optional ½-inch low-profile bottom track. It can screen openings up to 43 feet wide. Booth #3507

604/299-4426, WIZARDSCREENS.COM

NEW AT GLASSBUILD

Kömmerling USA

Kömmerling 76 is a high-performance, tilt and turn window and door system that's now extruded in the USA. It is suitable for both residential and commercial applications. Booth #4825

800/330-2239, KOMMERLINGUSA.COM

Wuqiang Jindi Glass Fiber Co.

Fiberglass insect screen has standard 18-by-16-inch mesh. Crafted with cutting-edge weaving techniques, this standard soft fiberglass insect screen is made from plain-woven PVC-coated fiberglass yarn finished under high temperature. It features advantages such as being resistant to flames, rust, tearing, cold, heat, and mildew. The product also offers a stable structure, good ventilation, long service life, and high strength. Booth #3810

+(86) 3183-7666-88, GOLD-SCREEN.COM



Veka North America

Veka's Obsidian extruded black solution is distinguished by its aesthetics, strength and high-performance. The product offers a contemporary, uniform black finish, structural integrity, and resistance to fading and warping, while also supporting energy efficiency and low maintenance. Recently launched in North America, Obsidian sets a new standard for premium black extrusion solutions with enhanced surface quality and reliability backed by Veka's history and expertise. Booth #3433

724/452-1000, VEKAINC.COM



Deceuninck North America

Eclipse by Deceuninck North America is an all-new black solid color PVC extrusion for windows and doors designed to meet growing market demand for dark-colored profiles. ECLIPSE is engineered to offer enhanced fabrication processing for Deceuninck customers by eliminating the need to touch up fusion-welded frame and sash corners in comparison to laminated, capstock or painted PVC lineals. Its material science incorporates Deceuninck's SunShield technology to minimize fading and features engineered pigment technology that limits heat absorption. ECLIPSE designs feature vented profiles. Booth #1531

877/563-4251, DECEUNINCKNA.COM

NEW AT GLASSBUILD

Zhongli Glass Co. (not pictured)

Zhongli Glass mainly produces architectural glass, including low emissivity glass, tempered glass, laminated glass, insulating glass and bird-friendly glass. Booth #3809

+(86) 5725-8132-86, ZHONGLIGLASS.COM

NEW AT GLASSBUILD**Novatech**

Infinite Black doorglass is crafted for today's contemporary homes. The triple-insulating glass features a V-grooved design and reeded texture paired with a rich black finish. Its deep black tint reflects sunlight during the day and appears a softer gray at night to let additional light into the home. By filtering light, this door glass gently obscures the view into and outside of the home. This is designed for homeowners who want a modern, semi-private entryway. Booth #4001

276/403-4010, GROUPENOVATECH.COM

**NEW AT GLASSBUILD****Montleau Investment Inc.**

Montleau Investment Inc. will exhibit its solid red oak single active tilt and turn window with triple-glazed, laminated insulating glass unit. The system is double low-emissivity, with simulated divided lites and matching interior spacer bars. The exterior has an aluminum finish, with a white wood finish on the interior. Glass configuration includes triple-pane low-e insulating glass with an argon fill, tempered safety glass and a warm-edge spacer. Booth #4526

626/678-1658, MONTLEAUINC.COM

Diamond Door & Architectural Metal (not pictured)

The Patented Cam & Lock Door Rail System features enhanced grip strength, industry compliance, seamless hardware integration, cut-to-size flexibility and dual-purpose end caps. The system boasts over twice the grip strength of its Press-on Rail, which has served this industry for over 30 years. The system is designed, manufactured and assembled in the USA. Booth #2006.

972/289-0300, DIAMONDDOORUSA.COM

NEW AT GLASSBUILD

NanaWall Systems

The NW MultiSlide 630 is an aluminum-framed operable glass wall system featuring multidirectional panel movement, allowing the opening to be placed on either the left or right side. With slim 2 1/8-inch panel profiles, it maintains the consistent uniform horizontal glass lines that defines it as a member of the NanaWall Generation 4 aluminum product line. Booth #4229

800/873-5673, NANAWALL.COM



NEW AT GLASSBUILD

NF Windows and Doors System Co.

The company's 68 folding door suits homes and commercial areas. It has a bottom drainage groove and tight sealing strips. The fully foldable design saves space and ensures smooth sliding. Made of premium tempered glass, this door fits balconies, sunrooms, bathrooms, kitchens, studies and closets. It also works as partitions in shops, restaurants and exhibition halls. Booth #3604

+(86) 7578-6256-681, ALUWF.COM

ODL Inc.

ODL Blinds + Glass is an enclosed blinds solution designed to deliver privacy, light control and clean aesthetics for entry doors, patio doors and large windows in residential and light commercial applications. The product integrates directly into standard insulating glass prep and glazing processes with no specialized installation required. Blinds + Glass is available in a wide range of standard and custom sizes, including configurations for oversized glass panels and today's expansive folding and sliding door designs. Booth #2401

616/748-5479, ODL.COM



**NEW AT GLASSBUILD****Creative Millwork of Ohio Inc.**

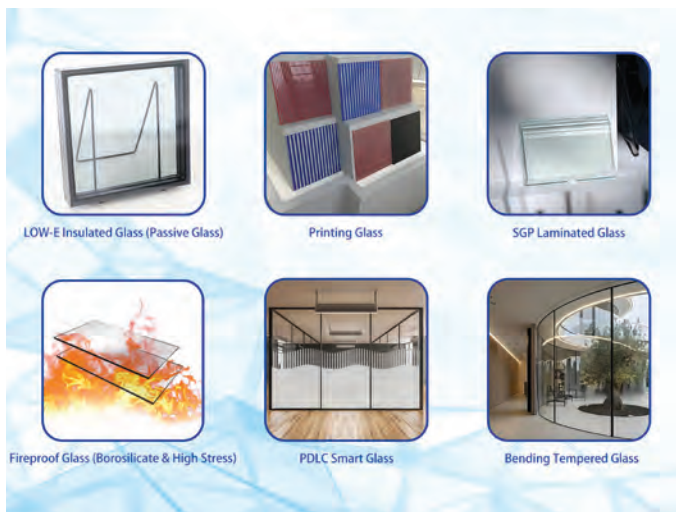
The V-Grid Grille System is a precision-engineered decorative grille system designed specifically for insulated glass unit applications. Manufactured from Creative Millwork's proprietary Performance Composite Material, V-Grid combines lightweight durability, dimensional stability, and long-term performance with virtually unlimited design flexibility. Available in Square, Contour 1 and Contour 2 profile families, V-Grid supports custom shapes, radius designs, colors and complex architectural patterns through its one-piece construction. Booth #3003

888/759-7121, CREATIVEMILLWORK.COM

NEW AT GLASSBUILD**FlexScreen / RiteScreen**

FlexScreen is a flexible window screen designed to simplify installation, improve durability and modernize the appearance of traditional window screens. FlexScreen uses a high-performance spring steel frame coated in flexible PVC that bends, flexes and returns to its original shape without damage. The product is designed for residential and commercial window applications and serves OEM window manufacturers, replacement window companies, dealers and homeowners seeking a more durable and user-friendly screening solution. Booth #3635

800/949-4174, FLEXSCREENRITESCREEN.COM

**NEW AT GLASSBUILD****Futeng Hebei Energy Conservation Technology Co.**

Futeng Hebei Energy Conservation Technology Co. supplies sophisticated architectural glass and mirrors for commercial and residential buildings. Its selection of architectural glass includes tempered, laminated and insulating, among others. Applications include curtain walls, windows and doors, shower rooms, railings, skylights and more. Booth #3905

+(86) 0312-2998-860, EN.FUTENGLASS.COM



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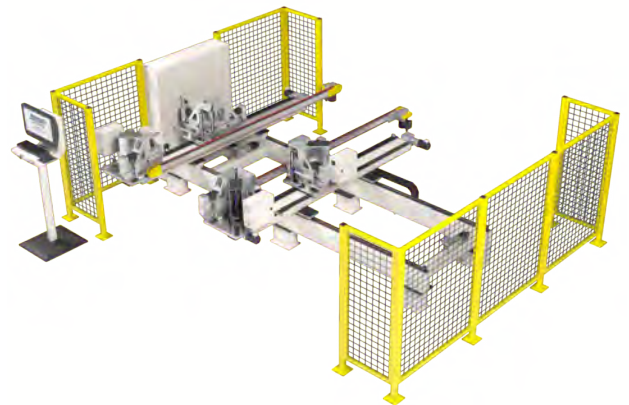
Joseph Machine's jSeam™ technology delivers seamless welding for typical North American window systems—without the complexity associated with traditional seamless solutions.

This patent-pending approach is fully contained within the fixtures, enabling fast changeovers between standard and seamless configurations across different window systems.

Proven on laminates and colored profiles, jSeam provides an immediate upgrade in finished appearance—without increasing cycle time or operational complexity.

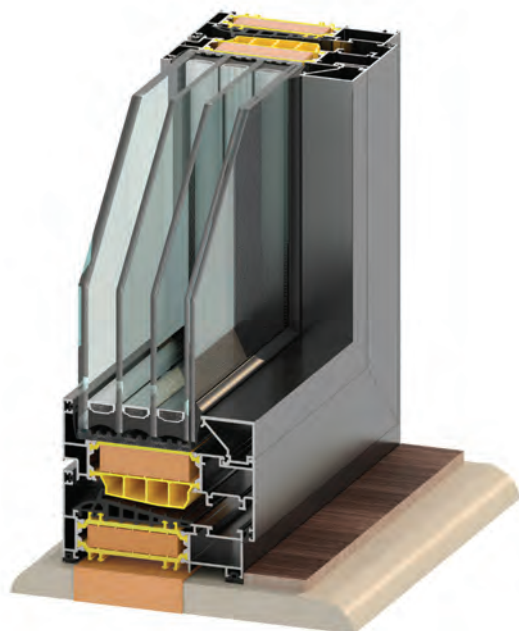
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josephmachine.com



**NEW AT GLASSBUILD****Action Bullet Resistant**

The Ultra Thermal System by Action Bullet Resistant is a next-generation thermally broken fenestration platform engineered to deliver exceptional thermal performance without compromising security. Available in entrance doors, fixed windows, casement windows, tilt-and-turn windows, storefronts and curtain walls, the system can be configured with bullet-resistant and blast-resistant protection for demanding applications. Booth #4453

631/422-0888, ACTIONBULLET.COM

**Diyou Material Scientific Technology
Development (Shanghai) Co.**

TICO GFRP windows and doors offer high performance at competitive prices, saving energy and reducing carbon. These products are used in polar stations and global projects. Booth #3805

+(86) 0215-9851-080, SHCLD.COM

**NEW AT GLASSBUILD****EnduroShield**

BirdWise launches at GlassBuild 2026 as a new approach to effective, scalable bird protection on architectural glass. This inorganic, UV-stable coating is applied directly to surface No. 1 of any glass type using an on-demand spray process, giving fabricators flexibility, speed and the ability to coat cut-to-size glass without inventory buildup or waste. Tunnel tested by the American Bird Conservancy, BirdWise achieved a Threat Factor of 16, meeting ABC's criteria for bird-friendly glass with a 2- by 2-inch pattern of 5 millimeter dots. Booth #3629.

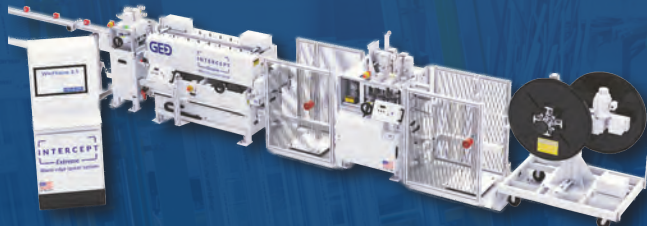
805/617-4609, ENDUROSHIELD.COM



Intelligent
Automation

INTERCEPT® EXTREME™ ON INTERCEPT 2.5

Developed through a collaboration between GED Integrated Solutions, Vitro Architectural Glass, and Technoform, this next-generation warm-edge spacer system is engineered to help manufacturers balance three critical priorities: superior spacer thermal performance, durability and IG production efficiency



CMM 2.0™ — THE REINVENTED COLONIAL MUNTIN MACHINE

The new generation of the tried-and-true Colonial Muntin Machine, the reinvented CMM 2.0™ adds cutting edge technologies in hardware and software to an already tested muntin processing system



INTERCEPT® EXTREME™ & REINVENTED CMM 2.0™

Enhance your IG production efficiency and energy performance with **Intercept® Extreme™** — a thermally broken U-shaped spacer with stainless-steel side walls and a polymer bridge. Fabricators can now match IG thermal performance and aesthetics to application requirements by choosing from three warm-edge material options that run on one proven platform. Streamline the muntin fabrication process with the reinvented **CMM 2.0™**, reducing labor, increasing output and quality. See the CMM 2.0™ in action at GlassBuild America in Vegas at **booth #2144** and meet the team behind Extreme™ at the **innovation lounge IA - 9**

Booth# 2144

Intercept® 2.5 Extreme™

CMM 2.0™

31100 Diamond Pkwy
Glenwillow, OH 44139

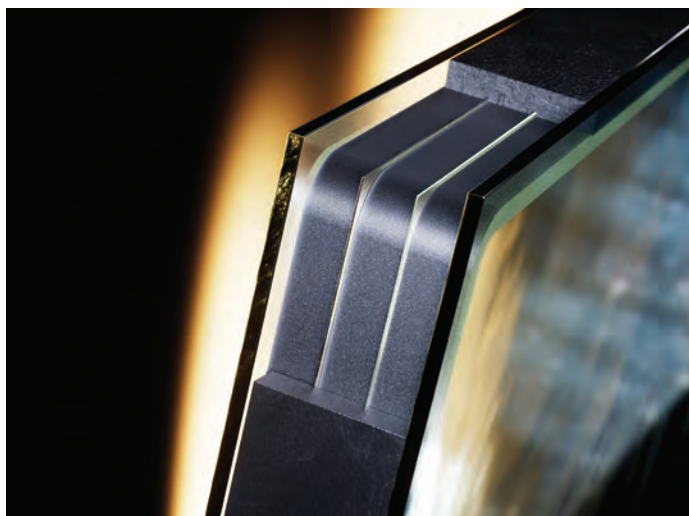


NEW AT GLASSBUILD

Glaston America Inc.

Glaston's Ultra TPS technology integrates ultra-thin intermediate glass panes as thin as 0.5 millimeters in thin quadruple insulating glass units, combining low mechanical stress, precise material application and excellent sealing performance. Ultra TPS remains flexible and is applied without mechanical assembly forces. This is critical when working with 0.5 mm ultra-thin glass panes, which are more sensitive to stress, bending or breakage. The process allows these delicate intermediate panes to be safely positioned and sealed without compromising structural integrity. Booth #1945

856/780-3001, GLASTON.NET

**Hebei Dongxing Glass Co.**

Ultra-white auspicious cloud glass is made from low-iron ultra-white glass with embossed three-dimensional auspicious cloud patterns. It is transparent with no green edge and high-grade texture. Permitting light while blocking direct visibility, it balances lighting and privacy, symbolizes good fortune, and is widely used for home decorations such as bathroom partitions, entrance screens and sliding doors. Booth #3700

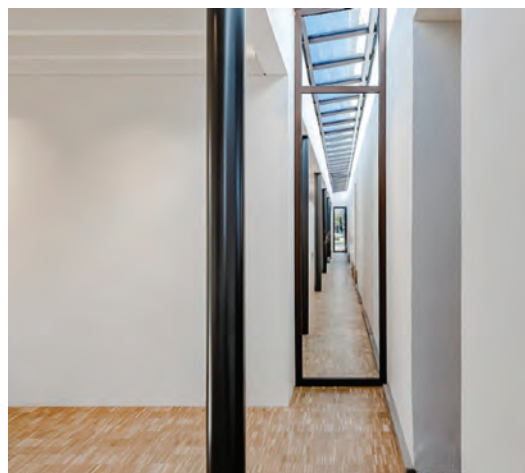
+(86) 0319-8845-968, DXGLASS.COM

NEW AT GLASSBUILD

Jansen America Inc.

Using profiles from the Jansen Janisol 60 door system and insulators from the Jansen Janisol Primo system, the new Jansen Janisol 70 system combines proven quality while enabling the use of triple insulating glazing. Jansen Janisol 70 can be used in high-traffic buildings such as public offices, schools, railway stations or group medical practices, thereby leveraging the high durability of steel. Steel minimizes maintenance requirements and stands for long-lasting performance. Booth #4535

646/974-5906, JANSEN.COM



NEW AT GLASSBUILD

Rehau Window Solutions

Nuvera is a next-generation uPVC window system designed for residential and light commercial applications. Available in single-hung, double-hung, single-slider and fixed configurations, it provides a versatile platform for fabricators, builders and architects seeking greater performance with less complexity. The system incorporates Rehau's glass-fiber reinforced Rau-Fipro technology in the meeting rail, reducing the dependence on metal reinforcement while supporting larger window sizes, slimmer sightlines and increased glass area. Booth #3207

703/777-5255, REHAU.COM



Rhinotrusion

The RT7550 system is built around a proprietary insulating core integrated within every sash and outer frame profile. Using a common 75-millimeter by 50-mm profile system, the RT7550 can produce bi-fold, sliding, French, stacking and corner doors, as well as casement, vertical sliding, picture and bar-top windows. The system is available in aluminum, wood, GlassIIEdge and hybrid combinations. Booth #4705

855/950-7550, RHINOTRUSION.COM

NEW AT GLASSBUILD

Sichuan Yazhixuan Doors and Windows Co.

Yazhixuan Thermostatic King Kong PRO casement window features 1.8-millimeter seven-cavity aluminum profiles. Additional features include German Anto hardware, automotive-grade glass and Haida strips, 39-mm heat-insulating strips, triple sealing and drain design, excellent airtightness, sound and heat insulation with patents. Booth #3908

+(86) 4006-9640-06, YAZHIXUANGLOBAL.COM

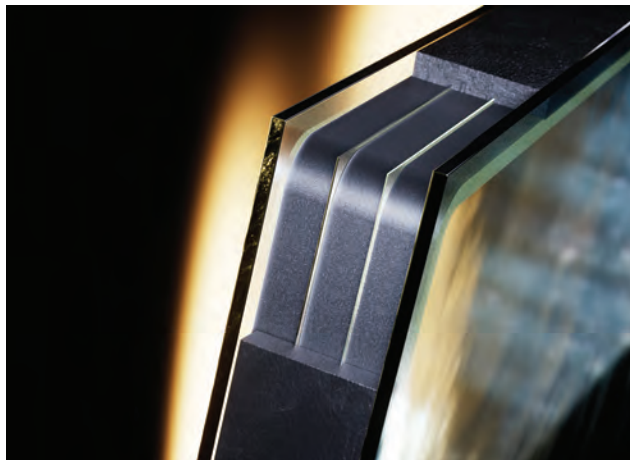


NEW AT GLASSBUILD

Sinhplex Pte Ltd

XLB-140 hurricane-rated sliding doors and windows suit global premium buildings. They deliver 5000PA wind resistance, 1000PA waterproof performance, and near-zero air permeability, alongside 38DB sound insulation. Featured with a 4-point locking and anti-derailment system and 38-millimeter slim low threshold, they ensure high safety and accessibility. Equipped with 2.0-mm profiles, Roto hardware, CSG glass and premium accessories, the series is fully certified by CE, AS2047, NFRC, CSA, NOA and FPA for reliable quality. Booth #3608

+(65) 8698-5065, SINHPLEX.COM

**Tecfire USA Inc.**

Tecfire fire-rated glazing systems combine advanced fire-resistive glass with integrated steel or true aluminum framing to provide certified protection against fire, smoke and heat. These systems are engineered to compartmentalize buildings, slowing the spread of flames, smoke and radiant heat for durations of 45 to 120 minutes, depending on the configuration. The proprietary fire-resistive glass, T-Flame, uses specialized interlayers that maintain integrity and limit temperature rise under extreme conditions, preserving visibility and blocking radiant heat transfer. Booth #4509

317/427-8184, TECFIRE.COM



NEW AT GLASSBUILD

The ThermalScreen Co.

ThermalScreen is an upgrade-ready insulating window screen and next-generation storm window that combines the appearance of a standard screen with the energy performance of the most advanced glass technologies. Designed for window manufacturers, building owners and weatherization programs, it uses simple, intuitive hardware. Ultra clear, concealed interior low-emissivity glass panels deliver 60-150% efficiency improvements. Booth #4431

802/747-6915, THERMALSCREEN.COM



On the left, a single glass window with standard screen and a U-value of 0.86 (R=1.16). On the right, a single glass window with ThermalScreen with a U-value of 0.34 and R=2.94.

Avoid Costly Design Iterations

Unleash the Power of Digital Simulation



Low Friction Coating



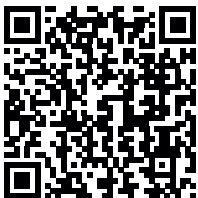
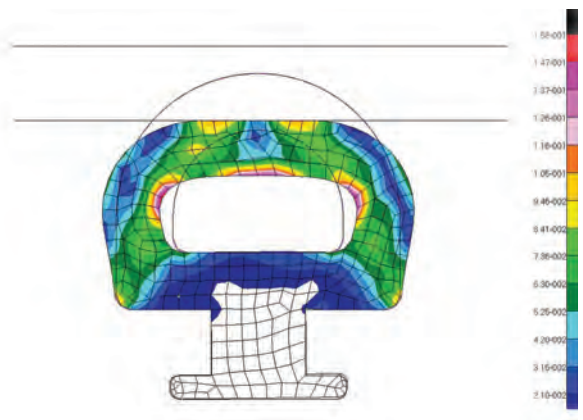
Vulcanized Corners



Dual- & Tri-Durometer

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Cooper Standard ISG excels in creating custom sealing solutions for both commercial and residential buildings. Using FEA technology and simulating compression deflection on various material types and complex geometries, our experts streamline development, save time and enhance product performance while reducing cost.



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Scan the QR code or visit

www.cooperstandard.com/industries/building-construction/window-door-seals

For a FREE sample kit email: ISG-NorthAmerica@cooperstandard.com

**NEW AT GLASSBUILD****Viet Nhat Safety Glass Joint Stock Co.**

Viet Nhat Safety Glass JSG provides high-quality laminated safety glass solutions for modern architectural and interior projects. The product is manufactured by bonding two or more glass panels with durable interlayers such as PVB or SGP. VSG laminated glass is available in a wide range of colors, thicknesses and customizable dimensions. Applications can include façades, curtain walls, skylights, railings, partitions, doors and decorative glazing applications in commercial, residential and public infrastructure projects. Booth #3800

+(84) 9361-2508-9, VSG.COM.VN

**Vitro Architectural Glass**

Solarban Champagne low-emissivity glass is Vitro's latest innovation, delivering crisp, warm champagne tones. Solarban Champagne gets its color from its unique coating rather than the glass itself, creating a distinctive warm-neutral aesthetic without impacting thermal performance. Available on clear glass, and low-iron substrates: Starphire Ultra-Clear glass and Acuity glass by Vitro, and select tinted options, including Optigray glass and Solarbronze glass. Booth #4032

855/887-6457, VITROGLAZINGS.COM

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By using **RENOLIT EXOFOL FX** you can reduce costs by eliminating in process production issues like marking, static build up and cleaning problems. Plus, no need for messy, costly single-use protective tape.

Please contact us at exteriorsolutions.america@renolit.com



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NEW AT GLASSBUILD

Visionar Window Systems Inc.

The Visionar casement window auto operator fits inside a standard operator channel measuring 30 millimeters by 20 mm. It is powered by solar or POE, includes a multipoint lock and can be controlled with any smart home app. Installation requires no milling of window profile. Booth #1357
604/866-6836, VISIONARWINDOWS.COM



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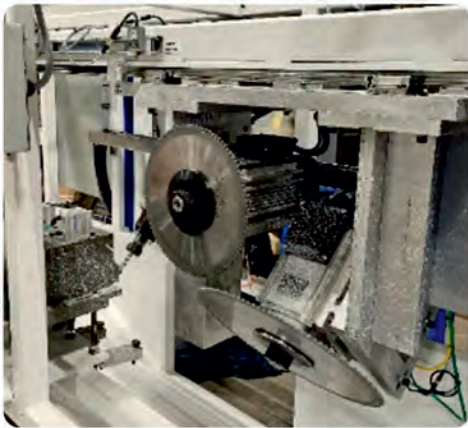




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PVC · Aluminum · Fiberglass · Wood

GED, Technoform, Vitro

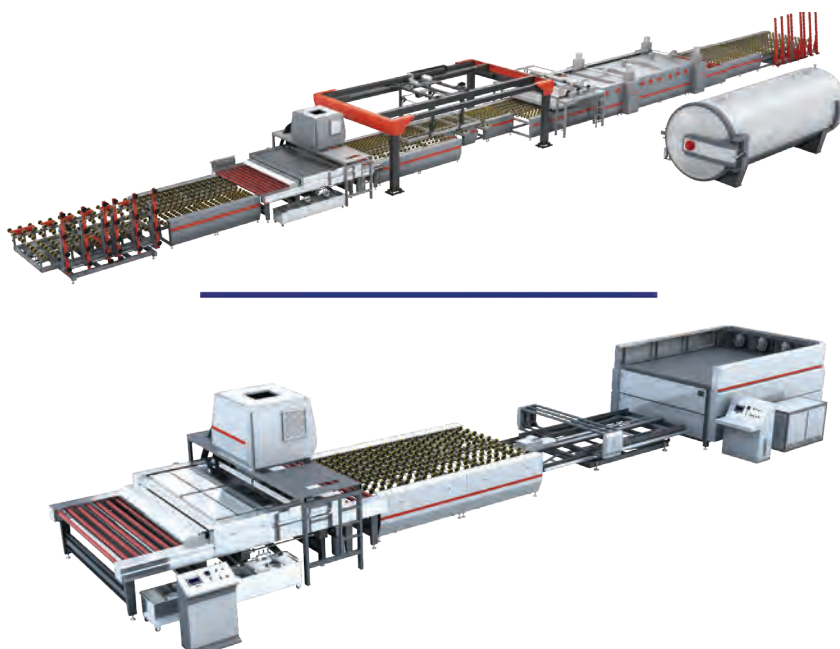
The Intercept Extreme warm-edge spacer system features an advanced, thermally broken, U channel spacer engineered to achieve the highest insulating performance, and significantly improve edge-of-glass U-factor and condensation resistance. Independent, third-party testing verifies its ability to achieve a U-factor of 0.22 in a dual-glazed, argon-filled IG unit that meets Energy Star 7.0 thermal performance criteria. GED Integrated Solutions Inc., Booth #2144; Technoform North America, Booth #2215; Vitro Architectural Glass, Booth #4032

440/600-8605, GEDUSA.COM

**Fangding Technology Co.**

Fangding manufactures EVA glass laminating machines, PVB laminating lines, autoclaves and EVA film. The EVA glass laminating machine can process architectural laminated glass, kinds of decorative laminated glass and bullet-resistant laminated glass, as well as LED/PDLC smart glass, photovoltaic glass, colored laminated glass and frosted glass, among others. Booth #3901

+(86) 6332-1900-56, FANGDINGCHINA.COM

**Vitrosep/IGE Glass Technologies (not pictured)**

Vitrosep/IGE Glass Technologies provides fully automatic closed-loop water filtration and glass separating systems, including standard and custom designed depending on the facility and production needs. Since 1992, Vitrosep has been a provider of closed-loop systems that recycle 100% of the water, eliminate discharge, operate without caustic chemicals, and support more sustainable industrial operations. Booth #2573

800/919-7181, VITROSEP.COM



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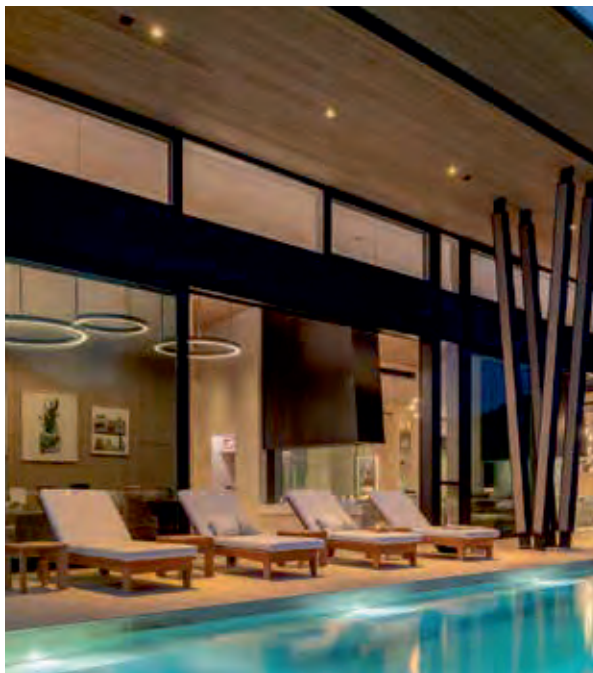
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Ashton Industrial Sales

The Ashton SeamMaXX Pro MKII is a fully automatic glass seaming/arrissing production line. It is designed for high-volume flat glass processing, specifically for insulating glass, window and architectural glass manufacturers. The SeamMaXX Pro MKII includes fully automatic operation, processes all four edges of glass, handles glass thicknesses from 3 millimeters to 12 millimeters, can process up to 6-7 random-sized glass lites per minute and automatically adjusts to different glass sizes. Booth #3151

825/440-5991, ASHTON-INDUSTRIAL.COM

TSS – Glass Machinery Sales Inc.

TSS – Glass Machinery Sales Inc. services all glass fabricators and window manufacturers for glass processing with glass machinery. TSS will display a wide array of equipment/products from its partners and will perform live demonstrations. Equipment this year includes the Automatic Horizontal Seamer; Horizontal Washer Series; cutting table with breaker bars; Ebbco, which is a pit-less glass filtration system for grinding machines; and more. TSS also supplies direct print, high-quality production labels, glass sample boxes, and customized marketing materials for the glass industry. Booths #1767; 1865

562/608-8777, TSS-SALES.COM



Smartlift US

The Smartlift SL 609 is a fully electric vacuum lifter designed for safe, efficient handling and installation of glass, marble, granite and steel. With a lifting capacity of up to 1,320 pounds, a lifting height of 14 feet, and an arm extension of 5 feet, the SL 609 gives contractors the reach, control and capacity needed for demanding installation work. The Smartlift SL 609 enables one operator to perform tasks that traditionally required an entire crew. Booth #3567

402/215-8080, SMARTLIFT.COM



Winpro Screen Express Semi-Automatic Screen Assembly Machine

Improve Your Productivity by Automating the Costly Screen Spline Insertion Process

Eliminate the costly, labor-intensive manual process of spline insertion on window and door screens and improve the quality and consistency of your finished screens with the newly redesigned Screen Express System.

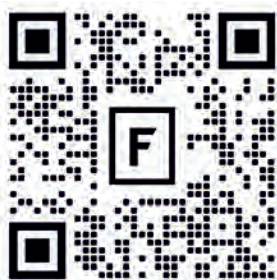
The Screen Express System requires minimal floor space and features automatic frame fixture positioning activated by 2D or 1D bar code scanning (or FTP download). With up to 1,000 individual style setups and up to 100 size/style file batching for extruded or roll formed screen frames, your productivity will skyrocket all while producing a higher quality finished screen giving



Schedule a No Obligation, 1-on-1 Consultation

Schedule a consultation today with a Winpro Technical Advisor to learn more about the Screen Express System and how it can help you achieve your operational objectives. Scan the code or visit:

FormtekGroup.com/ScreenExpress



EXHIBITOR

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Booth 2359

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NEW AT GLASSBUILD

Beijing MGM Glass Machinery Co.

The Fully Automatic KTPE Warm Edge Spacer Insulating Glass Production Line is MGM's core product offering. Requiring only one operator, it automatically applies spacer, bends corners and seals. It boosts thermal efficiency, lowers U-value, prevents condensation and empowers the user to produce high-performance energy-saving windows, meet green building standards, and gain a competitive edge in the market.

Booth #2772

+(86) 1381-0695-849, BJMGM.COM.CN

**Tenon (Beijing) Equipment Co.**

The Tenon TWM Automatic Horizontal Seamer is designed to pre-treat glass edges for tempering by grinding all four sides, with optional corner dubbing. The TWM-T series offers superior working speed through continuous processing, with a cycle time of 10-13 seconds per piece (based on a 1-square-meter lite). The HWM Horizontal Washer Series is designed for efficient, high-performance glass cleaning. Each unit includes an inlet roller conveyor, a washing and drying section with a pre-rinse station, three pairs of brushes, two pairs of air knives, and a heated water system. A sound-proofed air filtration system minimizes operational noise. Booth #1865

562/608-8777, TSS-SALES.COM

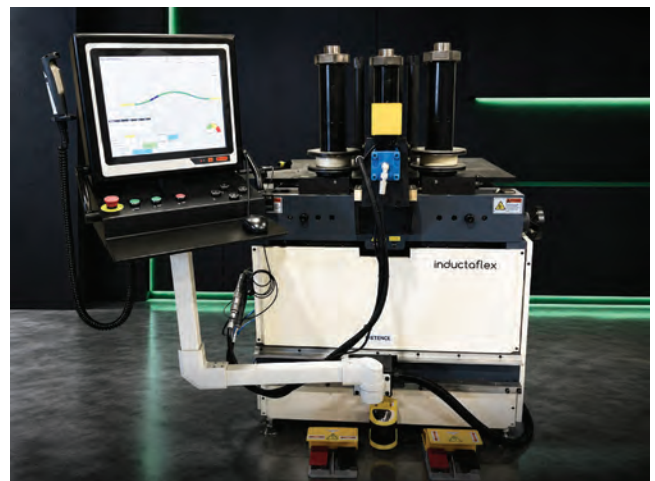


NEW AT GLASSBUILD

Alubend USA

The AL-20 Aluminum Roller Bender by Inductaflex is a CNC-controlled machine built for window manufacturers, glazing fabricators and facade contractors. It handles aluminum extrusions up to 12 inches by 1 inch on the easy axis and up to 6 inches by 2 inches on the strong axis, producing consistent curves across window frames, door frames, curved mullions, transoms and architectural extrusions. The AL-20 gives fabricators direct in-house control over geometry and surface quality across both custom and volume production runs. Booth #4077

815/475-1900, ALUBEND.COM



NEW AT GLASSBUILD

Anhui Yinrui Intelligent Technology Co.

The Anthony Series fully automatic cutting equipment includes control systems that can work continuously for 24 hours, as well as a high-strength steel frame, integrated rack guide technology, mechanical design of cutting head rotation shaft and aerospace aluminum-magnesium alloy. The Anthony Glass Cutting Line is suitable for various glass cutting operations on glass types such as architectural glass, automotive glass, photovoltaic glass, mirror glass and monolithic glass. Booths #1767 and #1865

562/608-8777, TSS-SALES.COM



NEW AT GLASSBUILD

JRS Glass/IGE Glass Technologies (not pictured)

The ONE is a family of CNC machines for horizontal glass processing. It can perform drilling, milling and countersinking operations on flat glass sheets with thicknesses ranging from 3 to 25 millimeters; thicker options available upon request, and, depending on the model, widths ranging from 1350 mm to 2000 mm. The machine is plug-and-play, and operators will be ready to operate it after a quick setup. The work cycle is fully automatic and requires no manual intervention. Booth #2573

800/919-7181, JRSGLOSS.IT/EN/

Mecal Machinery (not pictured)

Mecal's MC 316 Swing is a high-productivity multi-axis automatic line for the machining and bar-cutting of aluminum, light alloy and PVC extruded profiles. It is an advanced CNC system for full-length aluminum and light alloy profiles, capable of performing integrated milling, drilling, tapping, end-milling, cutting and end-machining (head/tail) cycles through interpolated axes and high-dynamic, high-productivity work units. It's equipped with three fundamental units: loading table, machining and cutting cabin, and unloading table. Booth #3755

574/520-1871, MECALUSA.COM

NEW AT GLASSBUILD

Beijing HanJiang Automatic Glass Machine Equipments Co. (not pictured)

HanJiang intelligent insulating glass line applied thermoplastic spacer robot is designed for mixing doors and windows, curtain wall and IGU orders with high-volume. The TPS spacer can be adjusted from 3 to 20 millimeters, enabling fully automatic production. It supports multi-size and multi-color spacer processing simultaneously, achieving seamless model switching with one code per type. Booth #4165.

+(86) 1089-4119-82, HJGLASS.COM.CN

Shandong Eworld Machine Co. (not pictured)

This machine is a new model that includes glass loading, glass cutting and glass breaking. With this machine, any glass shape can be achieved with automatic control with suitable optimization software. The three motor-driven, stretchable loading arms can load and unload glass and transfer it to the cutting table easily. Booth #3910

+(86) 5315-8550-609, EWORLD MACHINE.COM

NEW AT GLASSBUILD

Biesse

The Intermac Drill Up is a versatile drilling center designed for high-precision processing of flat glass. It is capable of performing drilling, countersinking and milling operations on both standard and irregular-shaped glass. An integrated clean-water cooling system protects tools and spindles, while automatic tool changing minimizes downtime and maximizes productivity. With intelligent glass handling and process optimization, the Drill Up maintains consistent performance across varying glass sizes, thicknesses and machining requirements. Booth #3245

704/357-3131, BIESSE.COM

**Billco Manufacturing**

The Billco Z-Series is a premium flat glass washing system—a high-performance glass cleaning solution engineered to sustain an optimum level of cleaning over years of continuous use. Designed with intelligent maintenance features and advanced process control, the Z-Series is focused squarely on protecting your bottom line through reliability, efficiency and simplified operation. It features stainless steel and corrosion-resistant polymer components throughout, as well as a helical gear conveyor drive system and interchangeable upper and lower rolls and brushes.

Booth #3125

724/452-7390, BILLCO-MFG.COM

**China Liaoning North Machine Co.**

YF45A is an autoclave with a diameter of about 14 1/2 feet and length of about 79 feet. It adopts automatic temperature and pressure control system and safety interlock device, suitable for flat and bent laminated glass production. It has passed ASME, CE, EAC and other certifications, widely used in architectural glass, automotive glass, photovoltaic, aerospace and other fields, with stable performance, high efficiency, energy saving and safety features, and has been applied in nearly 100 large-scale projects worldwide. Booth #3909

+(86) 2431-0812-70, BFGLOSS.COM





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NEW AT GLASSBUILD

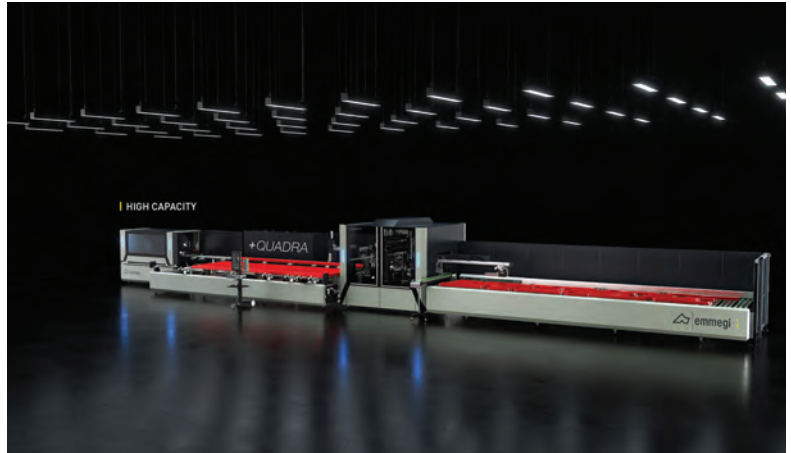
**China Warm Edge Technology (Nanjing) Co.**

Depending on different requirements, the company has three layouts for intelligent continuous warm edge vacuum glass production lines, with annual output of 300,000 square meters, 200,000 square meters and 100,000 square meters warm edge vacuum glass accordingly. Based on customer's special requirements, the company has another three layouts for semi-automatic continuous warm edge vacuum glass production line, with annual output of 300,000 square meters, 200,000 square meters and 100,000 square meters warm edge vacuum glass accordingly. Booth #3803
 +(86) 1390-5190-580, THEWARMEDGE.COM

Emmegi USA Inc.

The +Quadra is a machining centre with up to 20 CNC axes, designed to perform cutting, milling and drilling operations, including head and tail, on aluminum and light alloy profiles. +Quadra is a configurable line with modular solutions. The structure of the line includes an automatic feeding magazine from which the profile is picked up and transferred to the operating section. It contains the units for cutting and machining; then an extraction system deposits the finished pieces on an accumulation magazine. Booth #2245

201/935-0200, EMMEGI.COM

**Hegla Corp.**

Hegla's Galactic TG / thin glass cutting system offers a high degree of automation and adapted processes. The system's special cutting head achieves a homogeneous cut edge with high edge strength. After automatic loading and transfer to cutting, the scored lites are transferred to sorting, or a harp rack if needed, to feed multiple downstream processes, then to an insulating glass unit with TPS spacers. Booth #2723

404/763-9700, HEGLA.COM



Matt. Extreme. Mattex.

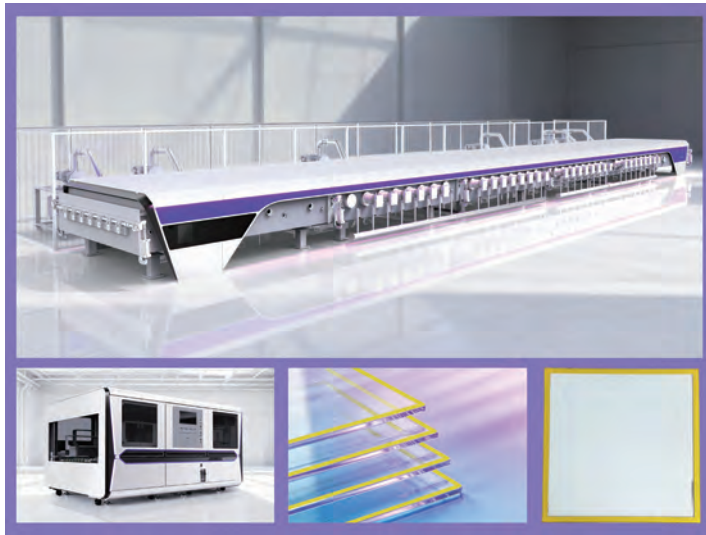
Lamination – state-of-the-art

Continental is once again setting an example with Conti® mattex. The attractive, matte-sandy surface adds noticeable value to construction elements. It looks and feels like powder-coated aluminum. The innovative product is also impressive from a technical point of view: Conti® mattex is resistant to scratching and chemicals and is easy to clean. Equipped with proven cool colors and cool colors PLUS technology and available in current trendy colors, it is the first choice for exterior films, even in extreme climates.



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Discover our
surfaces on
booth 3833 at
GlassBuild!

**NEW AT GLASSBUILD****HK Leadus Innovation Co.**

HK Leadus Innovation Co. will exhibit its intelligent production system for vacuum insulating glazing systems. The systems enable high-efficiency and precision processing. Booth #2772

+(86) 0392-7158-886, LEADUSTECH.COM

KERAjet/IGE Glass Technologies

KERAjet will showcase its DX Series digital glass printer at GlassBuild America. The same printer can be used for both ceramic frit and UV applications. As the innovator and pioneer of digital printing technology, KERAjet offers the most advanced solutions for stand-alone and full line printing. Booth #2573

800/919-7181, KERAJET.COM/EN

**NEW AT GLASSBUILD****Liaoning Alger Building Material Industrial Co.**

The company's vertical insulating glass production line combines high efficiency with precision engineering. This fully automated system can complete a cycle, from glass loading to unloading, in just 35 seconds. Other features include an advanced cleaning system with dual-motor washing, DuPont brushes and 22 kilowatts high-pressure air knives. Yaskawa servo systems with Delta/Inovance PLCs offer smart control and accurate operation. The system's flexible configuration means it can handle various spacer types and glass combinations. Booth #3607

+(86) 1852-4621-007, AIERJIE.COM



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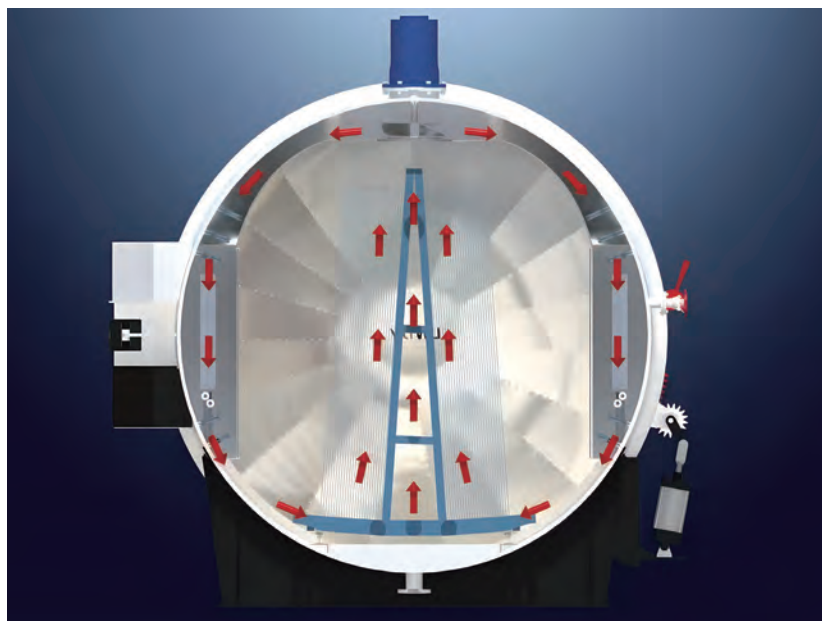
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Liaoning Lewei Science and Technology Development Co.

LWDY's autoclaves adopt infrared heating and top-fan convection, achieving +/- 5 degrees temperature uniformity in Celsius, 99% yield, and 20% energy savings per cycle. Booth #2772
 +(86) 0429-6331-869, LW-AUTOCLAVE.COM



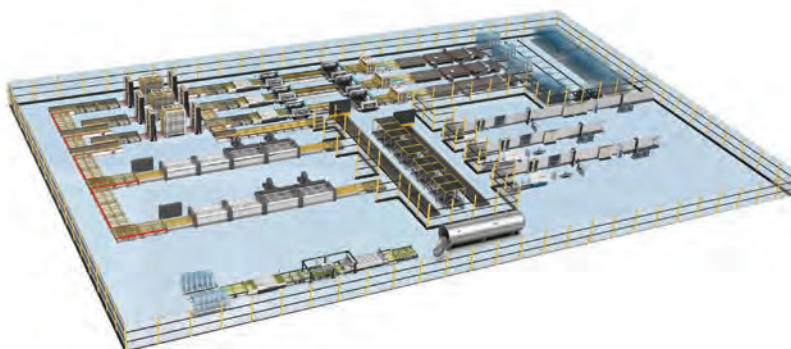
NEW AT GLASSBUILD

Lombarda Machine Srl

The automatic desiccant filler machine, the Desiccant Filler CSA2 Premium, performs the filling of spacer frames with desiccant. The machine is suitable for the filling of desiccant in aluminum spacers, stainless steel spacers and warm-edge spacers. The machine process is fully automatic, including drilling in the back of the spacer, using drill bits suitable also for steel; and the filling of desiccant, made by pressure. Booth #4353
 +(39) 0331-8779-11, LOMBARDAMACCHINE.COM

Mac Glastech & Automation Co.

Mac Glastech & Automation Co. will showcase full pre-processing solutions at GlassBuild America. Solutions will include a full pre-processing line including edging, drilling, processing center and washing; an automatic warehouse and sorting system; and Macsoft integrated for the whole line automatic connection and factory management. The system features superior production performance and safety. Booth #4165
 +(86) 1861-3810-867, MACGLASTECH.COM



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The company designs and manufactures advanced machinery for flat glass processing, including grinding, drilling, beveling machines, loaders and unloaders. Solutions are available both as standalone machines and as fully integrated or automated production lines, tailored to meet the needs of small, medium and large glass manufacturers. Engineered for precision, efficiency and reliability, these machines are used in a wide range of applications such as architectural façades, shower enclosures, balustrades, furniture, tables, solar panels and interior design elements. Booth #4345

+(39) 0362-2384-96, SCHIATTIANGELOSRL.COM

**NEW AT GLASSBUILD****Paviglass Technology Co.**

Paviglass Technology Co. will showcase its automatic shuttle storage system and automatic glass cutting line at GlassBuild America. Booth #3774

+(86) 1863-9278-323, PAVIGLASS.COM

**Sail Glass/IGE Glass Technologies**

At GlassBuild America, Sail Glass will showcase its glass tempering furnace for borosilicate and soda-lime glass. The furnace is engineered for flatter glass, better optical quality, more stable low-emissivity performance, and greater consistency across shifts. Booth #2573

800/919-7181, SAILGLASS.NET



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Shenzhen Handong Glass Equipment Manufacturing Co.

The company will showcase its fully automatic laminated glass production line with PLC control and remote monitoring. The full forced convection heating furnace works at 194-320 degrees Fahrenheit, and features energy-saving and low failure rate. The high-performance autoclave features fast circulation, automatic control and one-key operation for stable production. Booth #4173

+(86) 1501-2893-954, LAMINATEDGLASSLINE.COM

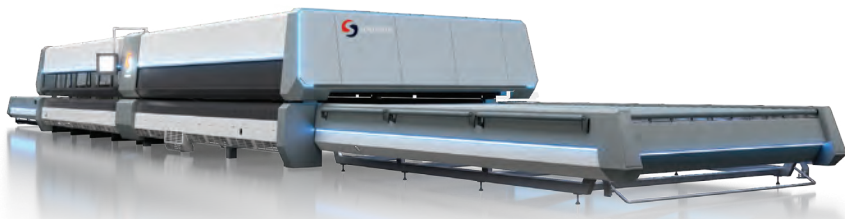


NEW AT GLASSBUILD

South Glass Technology Co.

South Glass Technology Co.'s Simba SC - duct-type blower convection production line combines exposed heating wire radiation and hot air convection. Both methods are integrated into the line, achieving dual breakthroughs in high efficiency and temperature uniformity. With 5-millimeter single silver low-emissivity glass, the wave deformation at the head and tail edges is only 0.12/300. In high-capacity mode, the production capacity for 5-mm white glass is 16-17 furnaces per hour. Booth #4173

+(86) 7572-7839-703, SOUTHTECH.CN

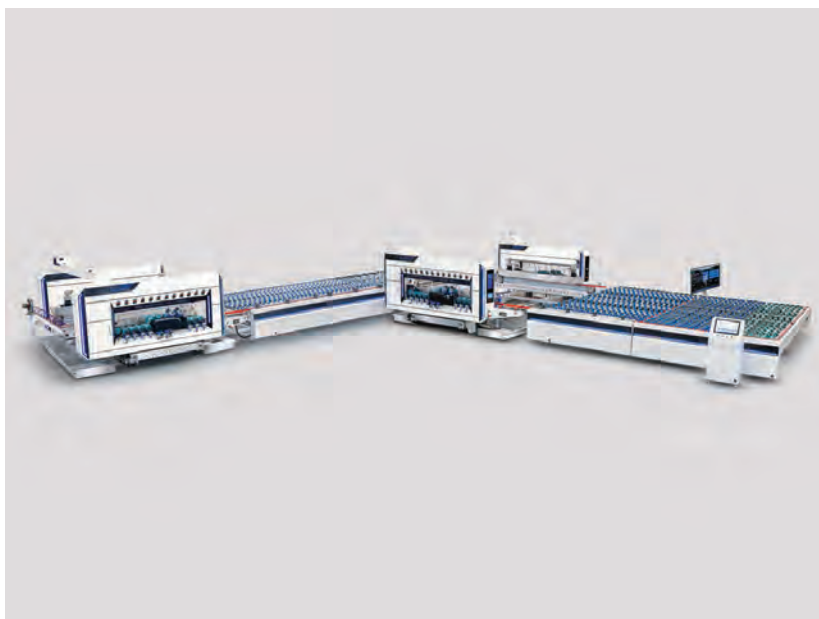


NEW AT GLASSBUILD

Sunkon Intelligent Technology Co.

Sunkon Intelligent Technology Co. will exhibit its high-speed glass straight-line double edging production line. This line can complete edge processing at one time in high efficiency, ideal for various glass. Booth #3778

+(86) 7572-8798-693, GLASSMACHINE-SUNKON.COM





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Trucent Separation Technologies LLC

Trucent Separation Technologies will showcase its Trucent CentraSep S Series at GlassBuild, an advanced filtration for glass grinding that reduces costs, defects and maximizes uptime while improving sustainability. Key benefits include lower operating costs, due to automation and reduced consumables, cleaner process fluid, reduced wear, extended wheel life and fewer stoppages. The system also requires less manual cleaning. Booth #3271

317/645-3232, CENTRASEP.COM/GLASS-FABRICATION

**Witte North America**

Witte North America will showcase its BHL 450 hot air vinyl bending oven at GlassBuild America, a symbiotic bending system. Engineered for industrial productivity, the system's setup features the efficient BHL 450 hot air bending oven, an adaptable multi-shape bending table, and the company's handmade quality bending forms. Designed to help scale production, the system is aimed at large and small manufacturers that need to produce specialty windows. Booth #3669

905/678-2397, WITTE-NA.COM

NEW AT GLASSBUILD**Woods Powr-Grip**

The Wood's Powr-Grip Powr-Lift 1600 is a self-propelled vacuum telehandler designed to help glazing contractors handle and position large architectural glass with greater precision, safety and efficiency. It combines vacuum lifting, powered boom movement, powered tilt, powered side-shift, remote-controlled operation and compact jobsite mobility into one integrated machine. Booth # 2917

406/628-8231, WPG.COM



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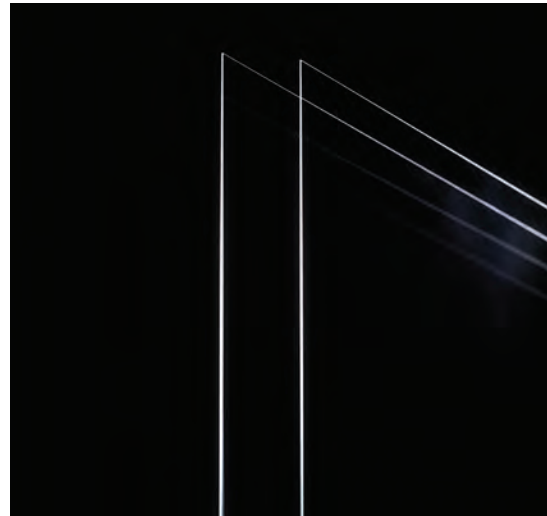
Xinglass America

The high-efficiency glass tempering furnace by Xinglass delivers thermal processing functionality, transforming standard float glass into premium, high-strength safety glass through advanced convection and radiation heating technology. Engineered specifically for architectural glass processors, industrial fabricators, and specialized glass manufacturers, this system handles glass thicknesses from 3 millimeters to 19 mm. Key features include an intelligent, energy-saving temperature control matrix that guarantees exceptional optical quality, minimal distortion and reduced scrap rates. Booth #1971
800/868-0307, XINGLASS.COM

**NEW AT GLASSBUILD****Erdman Automation**

Erdman has developed an automated triple- and quad-pane manufacturing line designed to handle ultra-thin Corning Enlighten Glass and automate the production of advanced triple- and quad-pane insulated glazing units. Corning Enlighten Glass paired with Erdman's automated system enables lightweight, high-performance IGUs that can fit into current framing systems and deliver unprecedented U-value performance. The machinery leverages a thermal plastic spacer primary spacer system that enables precise air-gap tuning. Booth # 2445

763/389-9475, ERDMANAUTOMATION.COM

**NEW AT GLASSBUILD****Dakota Automation**

TruCut high-performance platform is a configurable saw designed to bring custom-grade engineering to the vinyl window market. TruCut is highly configurable and available in single- or dual-lane setups for straight, miter, or variable angle cuts. With integrated fabrication options, it can eliminate secondary processes with in-cycle drilling, routing and punching. Optional lineal pre-loaders and custom outfeed/part-identification solutions allow TruCut to optimize flow and simplify material handling while improving operator ergonomics. Booth #3559

605/237-0219, DAKOTAAUTOMATION.COM





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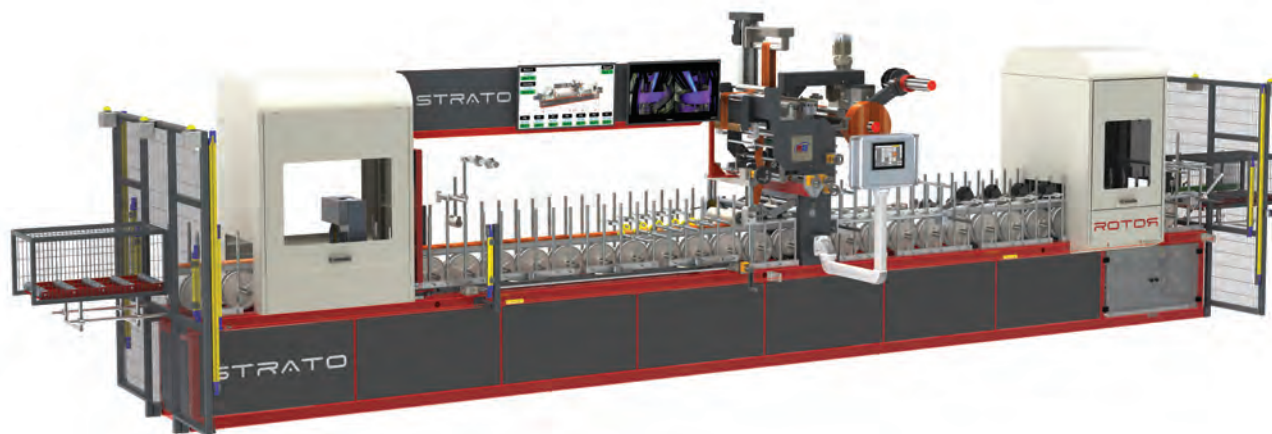
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Graf Industries Inc.

The Italian experience of Graf Synergy has given rise to a complete range of solutions for welding and processing PVC profiles. Welding machines equipped with patented V-Perfect technology, which allows PVC welding with no need for corner cleaning or manual touch-ups, on all types of PVC profiles, including Hybrid PVC+ALU. To complete the line, Graf Synergy offers high efficiency cutting and machining centers such as the Fab Ccut F1 center, 5-6 axis CNC cutting and machining center. Booth #1667

365/650-3131, US.GRAFSYNERGY.COM

**Taka-WPR USA Corp.**

Strato is a complete solution for profile wrapping. It is equipped with automatic process control as a standard feature. A sophisticated sensor system monitors all critical parameters, such as temperature and humidity, in real time. This simplifies operations by eliminating manual adjustments. Features include quick adjustment systems and optional kits, a primer dosing system, automatic foil cutting, and eco mode. Booth #3621

973/650-3232, TAKA-ADHESIVES.US

NEW AT GLASSBUILD

Urban Machinery

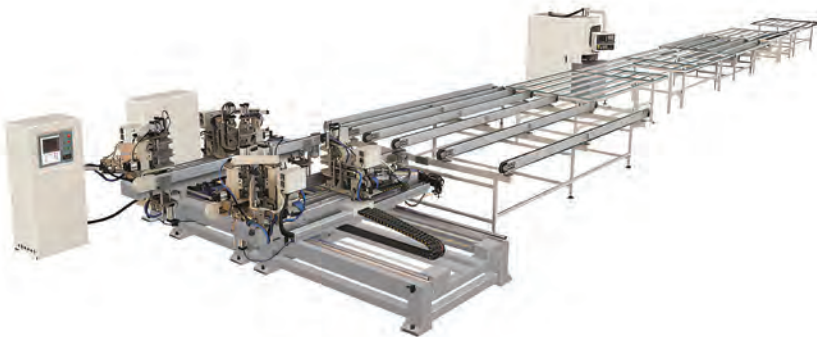
The PRZ M-PC/NA corner strength testing device is designed for jerk-free breaking of welded plastic corners. It has central data acquisition via PC with a fracture diagram and fracture image on both sides via built-in camera. Other features include easy archiving with preset profile master data and data connection to machines/devices; barcode label printer; and force generation via an electronically controlled three-phase motor. Booth #3845
519/624-0080, URBAN-MACHINERY.COM



NEW AT GLASSBUILD

ShanDong TrueTec Machinery Co.

The production line specializes in four-corner welding and seam cleaning of thousands of high-grade PVC profiles and can complete the four corners of a rectangular window frame at one time. It transfers the window to the corner cleaning unit through the transmission platform, and auto rotates it into a window to complete the rapid cleaning of the upper and lower planes, façades, and upper and lower rubber strip grooves. Booth #3910
+(86) 5315-8550-609, EWorldMachine.com



Winpro

Winpro Screen Express Systems automate spline insertion on window screens, which can help end repetitive motion injuries often experienced by workers in the window fabrication industry. With the Screen Express, the production of more high-quality screens per hour is possible without costly labor. This semi-automatic process is less labor-intensive than a traditional manual process. Booth #2359
216/360-7660, FORMTEKGROUP.COM/WINPRO



NEW AT GLASSBUILD

Quanex

XCore is a next-generation hinged patio door lock engineered for performance, designed for integration, and created for a more intuitive user experience. XCore delivers reliable 3-point locking with auto-fire latches that automatically engage when the door closes. Thumbturn activation then secures the system with positive locking action. XCore is also available with an optional 5-point auto-fire configuration. Features include wear-resistant latch strips, anti-slam protection, and robust hardware construction. Booth #2923

740/439-6429, QUANEX.COM



NEW AT GLASSBUILD

Ultrafab Inc.

Ultrafab's Ultra Bend flexible backed dust plug product line is engineered to deliver superior performance in demanding environments. Designed to conform to complex surfaces, Ultra Bend ensures reliable sealing and protection. Now featuring precision laser-cut geometries, this next evolution unlocks enhanced cut accuracy and design versatility. Ultra Bend is available with a high-performance hot melt adhesive and off-set release liner. Booth #2532

585/924-2186, ULTRAFAB.COM

NEW AT GLASSBUILD

Haining Lijialong Pile Weather Strip Co.

I3-Sealin is compatible with heavy sliding doors, building sliding windows and roller shutters. Special flexible soft non-woven fabric achieves extreme silence. Trifin type achieves three times the sealing function. Booth #3911

86 573-87024299, LIJIALONG.COM





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AAMA Verified
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Lexington Manufacturing

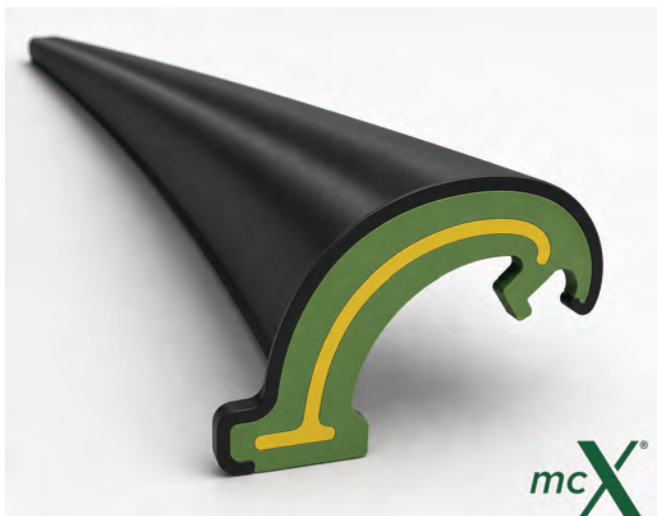
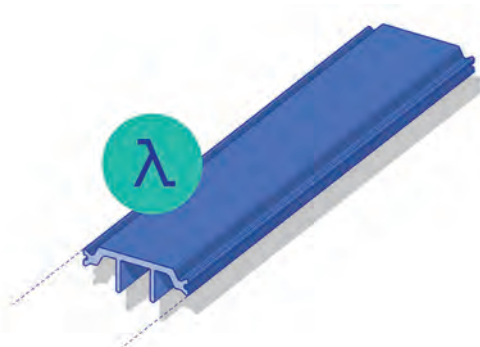
Designed for strength, stability and high performance assembly, the patio door stiles and rails are built to handle the demands of today's large format and high use patio systems. With WPC, PVC, LVL and multispecies substrate options, engineered solutions deliver dimensional stability and machining flexibility. This custom-engineered solution is available in a wide range of sizes and materials. Booth #2506

952/237-8390, LEXINGTONMFG.COM

Technoform

Technoform Low Lambda Polyamide thermal barriers improve performance in windows, doors, and façade systems. Achieving higher thermal performance with lower assembly U-factors and better condensation resistance, this advancement in PA technology helps fenestration product manufacturers meet U.S. and Canadian energy codes. Technoform's thermal barrier innovation reduces the conductivity of the PA material itself. Booth #2215

330/487-6600, TECHNOFORM.COM



NEW AT GLASSBUILD

Engineered Profiles LLC

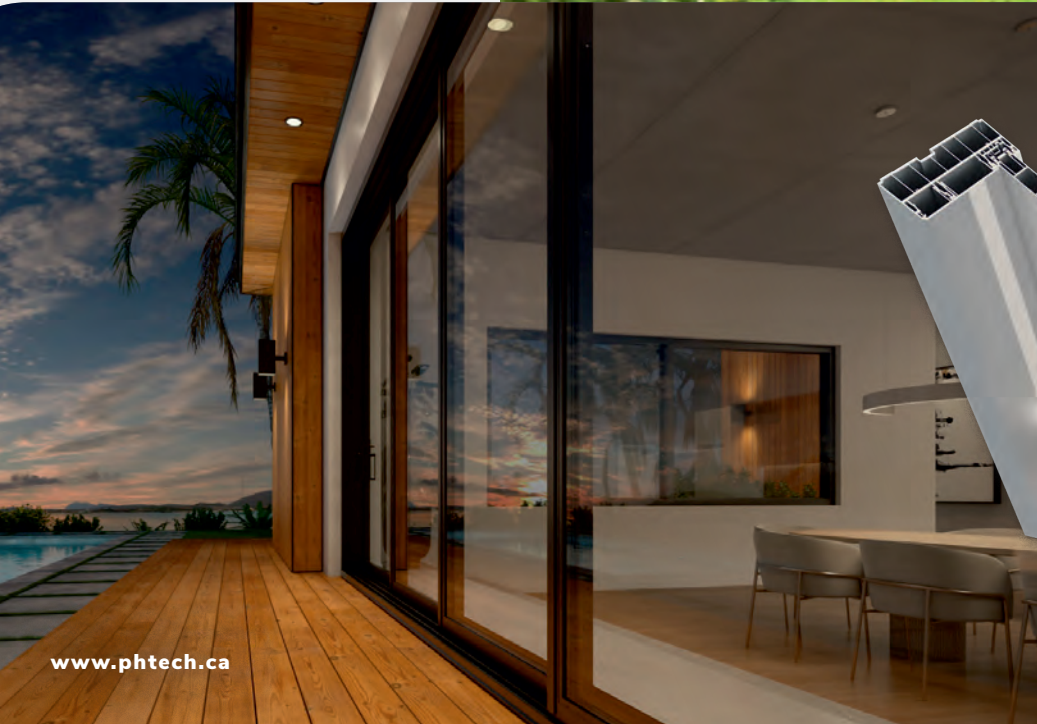
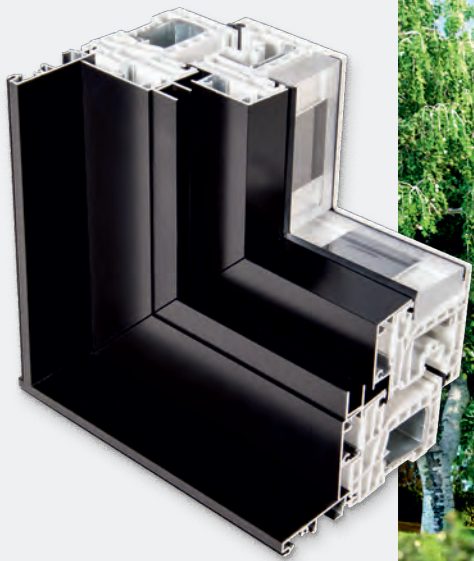
mcX leverages multi-core extrusion technology to deliver enhanced thermal stability while preserving the benefits of high-performance UV-resistant cap stock materials. By using existing cap stock formulations or laminates, manufacturers maintain weatherability, color retention, and durability without sacrificing thermal performance, even with dark colors. Booth #3401

614/754-3786, ENGINEEREDPROFILES.COM

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in patio door and
window systems.



Fentro

The Tedee Pro smart lock allows a wide variety of entry doors to be transformed into a smart door. Installed on the inside of the door, the Tedee Pro works by controlling the cylinder lock by rotating it like a key. The hardware stays intact, and the door can still be unlocked from the outside with a key like a traditional door if required. The lock, with a 1¾-inch diameter, can handle multi-point locking doors and can be retrofitted to most doors. It can be controlled via smartphone and integrates with smart homes. Booth #3919

204/822-1405, FENTRO.COM

**Simonswerk North America**

Engineered for demanding environments, the Biloba BL 8010 BT JC hydraulic hinge is designed for double-action residential, heavy-duty and shower glass door applications. Featuring adjustable closing speed and zero-point adjustability, it delivers smooth, controlled door movement while maintaining precise alignment over time. Built for use in damp, humid and high-temperature environments—including saunas and Turkish baths—the hinge incorporates a specially anodized inner body with deep oxidation (20 microns). Booth #1703

262/472-9500, SIMONSWERK.COM

**NEW AT GLASSBUILD****Vision Hardware**

Vision's new rear-braking constant force balances are available in ½- and ¾-inch sizes, in 3- to 13-pound singles, and up to 52-pound combinations. The rear-braking version and the existing side-braking systems offer multiple mounting clip and pivot bar options to suit any application. These and all Vision products are stocked to customer usage for next-day pick up or delivery from any of the company's nationwide warehouse locations. Booth #2701

908/822-2003, VISIONHARDWARE.COM





Your solution for color profiles

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Colored or dark windows and doors: this is the real answer with the best aesthetics and long-term performance on the welded corner. Perfect to join/weld color profiles, painted or laminated, cap stock or solid PVC, Aluminum clad hybrid profiles in one shot.

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- ▶ Ready for automation



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V-PERFECT TECHNOLOGY

**V-Perfect is the world's
first and only technology
that completely eliminates
the weld seam from
the corner, allowing to
get **AESTHETICALLY
PERFECT PVC
WINDOW.****



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West Hall - Booth 1667 - Machinery Area

GRAF Industries Inc.
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www.grafsynergy.com | www.v-perfect.it

Roto North America

The Roto Patio Inowa Max Sliding Patio Door hardware system is engineered for large, heavy sashes up to 882 pounds, accommodating sizes up to 3,000 millimeters wide and 3,600 mm high. Designed for smooth, low-effort operation, the system features an innovative closing action that draws the sash tightly into the frame, reducing resistance during sliding and ensuring a secure, compression seal. This tight seal enables outstanding air, water and noise sealing performance across residential and light commercial applications. Booth #2532
860/526-4996, ROTONORTHAMERICA.COM



NEW AT GLASSBUILD

Sullivan Hardware

The Sullivan Recess Handle System is designed for sliding glass and multi-slide door applications, offering a clean, low-profile appearance while maintaining functionality and durability. The complete system includes both interior and exterior recessed handles. Engineered for large-panel door systems, the recessed design minimizes projection while providing a comfortable grip and reliable operation. The system can be coordinated with a wide range of door styles and project requirements. Booth #2321
954/522-2358, SULLIVANHWDW.COM

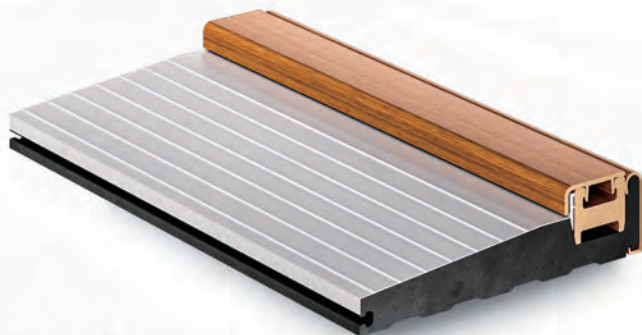
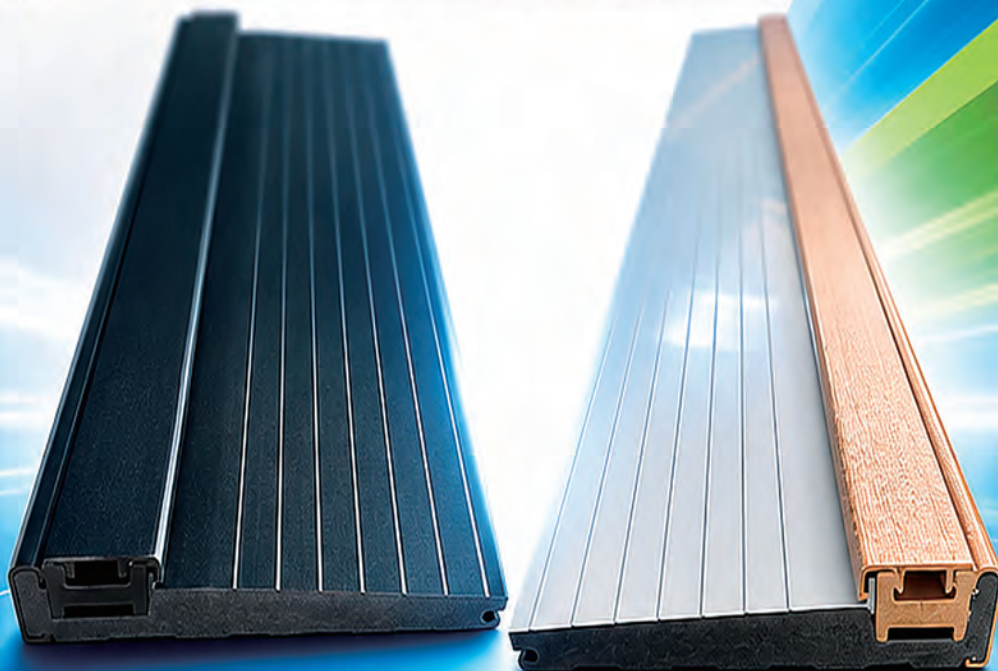
Assa Abloy

Caldwell's Magnum Egress Casement Hinges from Assa Abloy deliver reliable, commercial-grade performance in aluminum, euro-groove profile windows requiring 90-degree egress opening capability. The austenitic stainless-steel links and castings provide corrosion resistance and long-term reliability in demanding environments. Field adjustment of vertical alignment and compression through a convenient hex drive screw allows for precise installation and consistent performance over time. Booth #1932
888/347-7771, ASSAABLOYFENESTRATION.COM

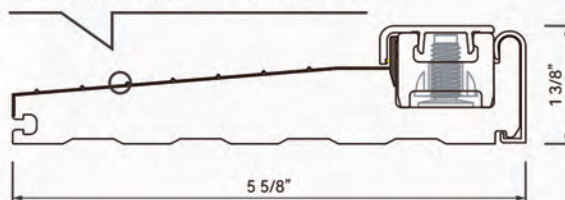


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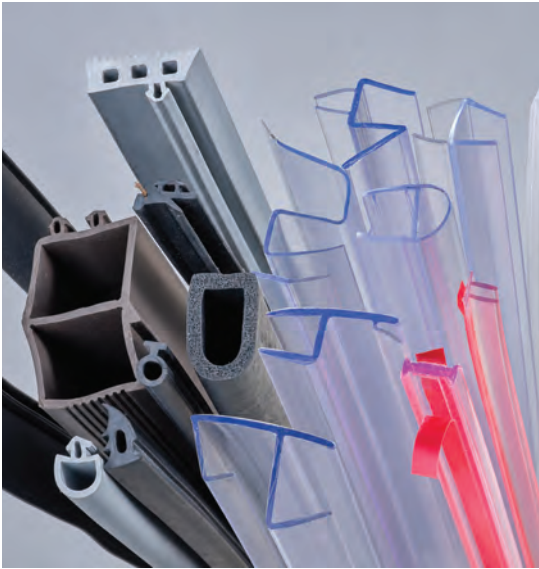
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Maxest Industrial Incorp

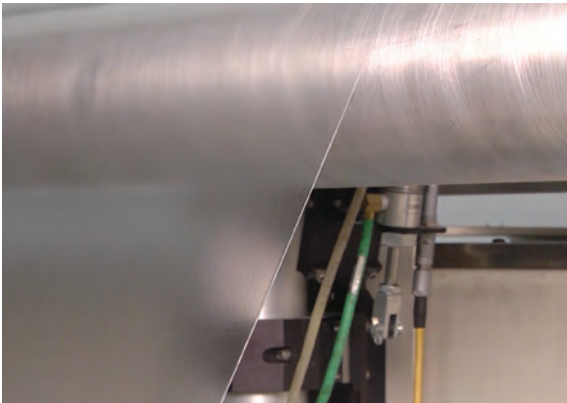
Maxest's curtain wall, window, door gaskets and shower door sealing solutions are engineered to enhance weather resistance, water tightness, air infiltration performance and long-term durability in commercial and residential glazing systems. Manufactured through advanced rubber and plastic extrusion technologies, these profiles are designed to fit a wide range of aluminum, uPVC and glass assemblies. The product range includes EPDM, Silicone, Santoprene, PVC, co-extruded and more sealing profiles. Booth #2214

+(886) 0222-1589-28, MAXEST.COM.TW

Anthony Innovations

Anthony Innovations' SideWynder Quad delivers strength within a slimline profile for modern sliding door systems. Engineered for durability, it supports panel configurations up to 880 pounds, combining pressed metal components and faged axles. The dual-layer bogie design ensures balanced load distribution and smooth operation, while precision bearings reduce operating force. Polymer wheels minimize noise and track wear. Face-adjustable for simplified installation and on-site servicing, the SideWynder Quad offers robust capability without compromising on form. Booth #2717

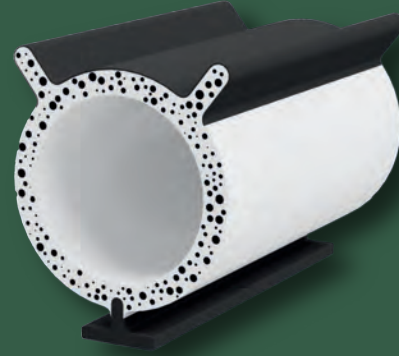
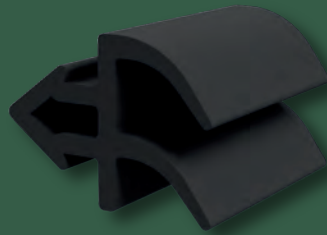
214/702-4397, ANTHONYINNOVATIONS.COM



Salem Fabrication Supplies

Salem Fabrication Supplies will showcase Vistasafe at GlassBuild, a family of high-performance EVA interlayer films developed for laminated safety glass applications where clarity, durability and reliability are essential. Engineered for architectural and specialty glazing, these interlayers support the production of advanced laminated glass systems designed to enhance safety and long-term performance. Formulated from premium EVA resins, Vistasafe delivers superior optical quality and clarity. Booth #3945

800/234-1982, SALEMFTG.COM



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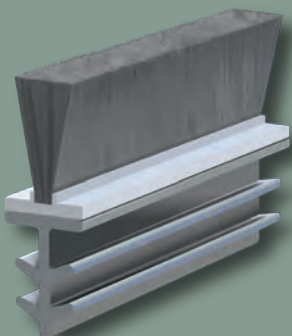
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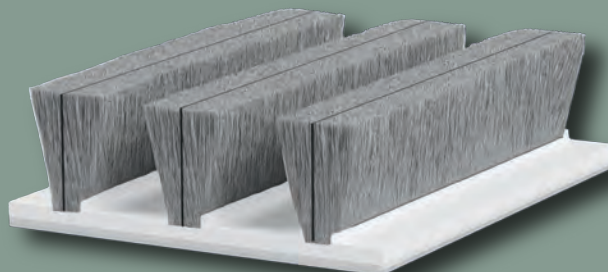
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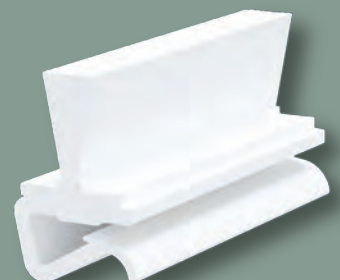
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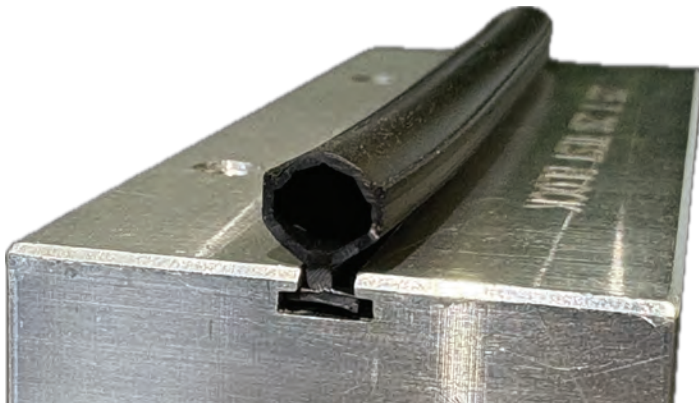


Clip Mounted Pile

NEW AT GLASSBUILD**SantopSeal Corp.**

Rubber edge trim is a flexible protective edging solution designed to fit securely over sharp or unfinished panel edges. Manufactured by Santopseal Corp., these custom U-channels are engineered to accommodate a wide range of panel thicknesses and profiles for both commercial and residential applications. They offer excellent resistance to wear, moisture, vibration and temperature fluctuations, making them suitable for doors, machinery guards, glass panels, automotive components and architectural installations. Booth #2504

412/444-1888, SANTOPSEAL.COM

**Schlegel Electronic Materials**

Schlegel's SEM Specialty Products bulb seals deliver high-performance sealing solutions for windows, doors, curtain walls and glazing systems across commercial, residential and industrial applications. Engineered for both T-slot and kerf-mounted compatibility, these seals provide reliable protection against air, water, dust, vibration and noise. SEM SP bulb seals offer excellent compression set resistance, long-term shape retention, and durability in harsh conditions, including UV exposure, moisture and extreme temperatures. Booth #1329

585/643-2009, SCHLEGELEMI.COM

NEW AT GLASSBUILD**Suisenano SA**

Surflux is a durable hydrophobic coating containing no PFAs with a lifetime warranty. It has proven market success with top shower enclosure brands in the USA and Europe. Surflux reduces cleaning frequency of shower doors while eliminating cleaning chemicals and protects against glass corrosion. Surflux creates a major environmental impact while greatly improving customer's shower door experience. Booth #1767

417/893-54565, SURFALUX.COM



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514/326-4003, INTERLAYERSOLUTIONS.COM

**NEW AT GLASSBUILD****American Renolit**

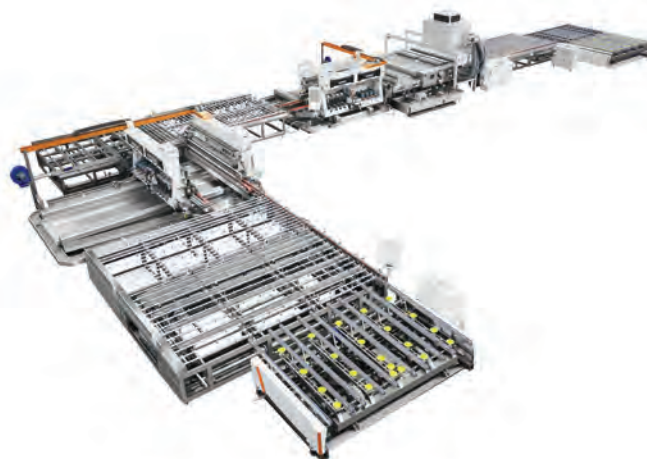
American Renolit's three new EXOFOL FX exterior film colors deliver earth tones with two grey shades and a warm terracotta-inspired offering. Like all EXOFOL FX films, the colors offer durability, longevity and performance to help products handle weather and other wear and tear. These new colors are ideal for homes or commercial projects that want to stand out with natural style and long-term performance. Booth #2432

616/581-2156, RENOLIT.COM/EXTERIORSOLUTIONS/US

Enkongs

Enkongs' fully automatic high-speed fine polishing double straight edge grinding production line realizes full-process automation including glass feeding, edge grinding, polishing and unloading. Equipped with multiple sets of precision grinding heads, it completes rough grinding, fine grinding and high-gloss polishing in one pass. Featuring high machining accuracy and fast operation speed, it is compatible with various specifications of flat glass, delivering excellent productivity and easy maintenance. Booth #4173

+ (86) 1372-4651-837, ENKONG.COM





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NEW AT GLASSBUILD

Fairfield Metal LLC

The company's Econnect-RS system is a lightweight concealed fastener system. Its design allows for simplified installation and faster fabrication. This panel can be used on commercial and residential projects that consist of 1 1/2-inch system depth and a joint width of 5/8 inches. Booth #4626

973/276-8440, FAIRFIELDMETAL.COM

NEW AT GLASSBUILD

Goldstar Co.

Goldstar Co. will showcase its glass door hydraulic hinge, which features a soft close function, automatic closing angle from 60 degrees on both sides, and silent opening and closing. The hinge also has an adjustable closing angle, and the same locking screw can achieve both locking and adjustment functions. Maximum load capacity is 110.2 pounds. Booth #3711

+(86) 0750-3936-865, GSTARHARDWARE.COM

**Fenzi S.p.A.**

Developed for the efficient production of high-performance insulating glass units, the Butylver TPS 2020 is the next reactive generation thermoplastic spacer based on polyisobutylene technology. Designed for seamless in-line automation, it ensures precise process control, extremely low gas permeability, and excellent moisture penetration resistance, contributing to stable mechanical performance and long-term durability. Its thermoplastic nature allows the creation of complex or irregular shapes, including quadruple cavity, while maintaining high production efficiency. Booth #1244

342/338-6409, FENZIGROUP.COM



Innovation and Collaboration Win Again

In today's insulating glass marketplace, fabricators are being asked to do more than ever before. Customers expect higher performance, greater flexibility, faster turnaround, and flawless quality — regardless of where the product is ultimately installed. Meeting those demands requires more than equipment. It requires partnership, collaboration, and innovation to solve real-world challenges.

That is exactly what Glass Insulators of Wisconsin found with PDS IG.

For Mandi and Stacy Marik, owners of Glass Insulators, growth has always been tied to evolving alongside customer needs. Originally founded in the 1990s and purchased by Stacy & Mandi in 2002, Glass Insulators has steadily expanded its capabilities over the years. That expansion included investing in a new PDS IG line equipped with advanced automation and a Vacuum Gas Press system designed to address one of the industry's biggest challenges: shipping insulating glass units across varying elevations.

"Looking at their line and the capabilities it had led us to continue to pursue it and then eventually purchase the line," said Stacy Marik. "What really set them apart was how willing they were to change things to meet our needs and help incorporate it into our business."

That collaborative approach is something Dave Rapp, CEO of PDS IG, says is foundational to how the company operates.

"It was a really good collective effort right from the start," Rapp explained. "We wanted to show them everything this could do, and the overall timing was perfect. We're excited because it opened a lot of new opportunities for Glass Insulators."

One of the most significant advantages of the new line is the integrated Vacuum Gas Press technology. Traditionally, insulating glass units being shipped from lower elevations to higher elevations — such as from Wisconsin to Colorado — required fabricators to punch holes in the spacer system and use breather or capillary tubes to compensate for pressure changes during transport and installation.

The PDS Vacuum Gas Press system combined with the T17 spacer eliminates that process entirely.

"Our machine takes the altitude information and seamlessly sends it to the line to meet the proper altitude for successful delivery," said Rapp. "There's no need for capillary tubes or breather tubes. The result is an insulating glass unit properly balanced for its final installation environment before it ever leaves the plant. It makes the process less complicated."

More importantly, it preserves the insulating glass unit's long-term performance.

"Having a vacuum press combined with our T17 spacer makes the structural integrity of the units solid," Rapp added. "No holes. It keeps the performance where it should be."

For Glass Insulators, that innovation translates directly into confidence.

Whether shipping locally or across the country, the Mariks know the units leaving their facility are engineered for performance and reliability, without additional field issues or workarounds. It provides peace of mind not only for Glass Insulators but also for their customers.

The relationship between the two companies has continued well beyond installation day. Because PDS is located only a few hours away, collaboration remains ongoing, with both companies regularly exchanging ideas and testing improvements together.

"They ask us, 'Hey, can we bring this up and install it on your line?'" Stacy said. "That has happened quite a few times. They've been great to work with."

Mandi Marik echoed the value of having a responsive partner committed to continuous improvement.

"We continue to make adjustments and it is very convenient," she said. "If there's something they want to tweak or something we want to tweak on our end, it's worked out very well."

That willingness to innovate alongside customers is what separates PDS IG from many traditional equipment suppliers. Instead of offering a one-size-fits-all solution, the company works directly with fabricators to develop systems that improve efficiency, quality, and long-term success.

"It's a competitive marketplace," Rapp said. "We have to work harder to keep customers happy, whether they're two hours away or across the country."

For Glass Insulators, that effort has created more than just a successful equipment installation. It has created a partnership focused on solving problems, advancing capabilities, and preparing for future growth.

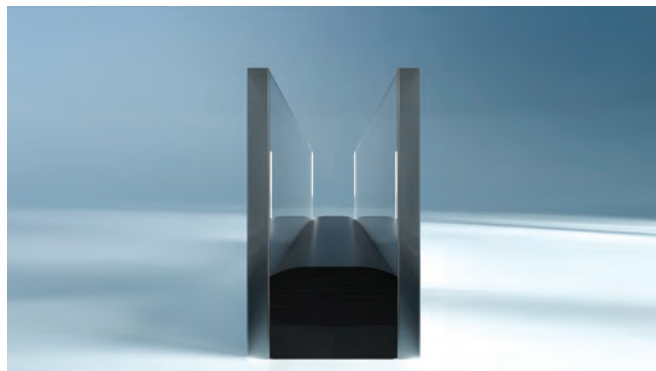
And in today's glass industry, that kind of collaboration may be the most valuable technology of all.

NEW AT GLASSBUILD

Good Brilliant Cork Co.

Good Brilliant Cork Co. offers a range of glass accessories, such as cork pads, EVA pads, PVC pads, corner protectors and warm-edge spacers. The company also supplies co-extruded warm-edge spacers, including 10A, 12A, 14A, 16A, 18A and 20A. The stomatal distribution is uniform, and the air pressure difference is >0.1 megapascals; other features include a smooth and clean surface, consistent color, no oil stains, no cracks and no scratches. Booth #3600

+(86) 1341-8991-198, GOODBRILLIANT.COM

**H.B. Fuller**

Built to perform for over 50 years, H.B. Fuller's Kofinity 4SG fusion bonded spacer system is a warm-edge solution for both commercial and residential insulating glass applications. Characterized by high energy efficiency, superior gas retention and automated processing, Kofinity 4SG's formulation goes beyond surface adhesion to chemically fuse with both the glass and the silicone secondary seal, forming a permanently sealed IG unit protected by a virtually unbreakable bond. Booth #1617

651/236-5900, HBFULLER.COM/GLASS

NEW AT GLASSBUILD

Interglass

Interglass' hybrid warm-edge spacer is a low conductivity component placed between the panes of insulating glass units to work as a thermal barrier, reducing heat transfer at the glazing edge. This helps to keep the inner glass surface warmer, lowering the risk of condensation and frost. It is designed for residential dual- or triple-pane insulating glass units. It is preassembled with a butyl sealant, 3A molecular sieve, undulating aluminum spacer bar, and a heat insulation strip. Booth #2209

800/576-6044, INTERGLASSUSA.COM



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**Q-railing USA**

The Easy Alu Bold system features square aluminum posts, delivering a clean and contemporary aesthetic ideal for both residential and commercial applications. Designed to accept 3/8- and 9/16-inch laminated glass, Easy Alu Bold allows glass panels to be dropped into place after the railing units are secured. The system is available in three premium finishes—mill, clear anodized and black powder coat. Booth #2135

714/259-1372, Q-RAILING.COM

**NEW AT GLASSBUILD****Radisson Industries**

Specifically designed for the North American market, the new Vault automatic multi-point door locking system comes from one of the UK's leading lock manufacturers. The system features multiple locking points positioned at key optimized locations along the door frame. Offering enhanced security and convenience, the system features two automatic latches, a reversible center latch and a 1-inch independent deadbolt throw, providing superior resistance against forced entry. Booth #4123

418/889-9032, RADISSONINDUSTRIES.COM

**NEW AT GLASSBUILD****Shanghai Zhihe Industrial Co.**

Shanghai Zhihe Industrial Co. will showcase its interlayer products at GlassBuild. The company offers premium PVB interlayer tailored for architectural, automotive and photovoltaic glass applications. Interlayers come in custom colors, sizes, and acoustic and thermal performance. Booth #3801

+(86) 0510-8339-0501, ZHIHEPVB.COM

Follmann Inc. (not pictured)

Folco React 10772 is a reactive polyurethane hot melt adhesive designed for demanding profile wrapping applications on MDF and PVC profiles as well as wood and PVC stair treads. The product is especially suitable for processing thick foils and can be applied on different machine types, including roller and slot nozzle systems. Its clean processing behavior helps reduce line and particle formation during production. After cross-linking, Folco React 10772 develops high cohesion. Booth #2172

229/947-1028, FOLLMANNUSA.COM



IGT Glass Hardware

The hydraulic patch fitting kit is intended for minimalist frameless glass door projects. Paired with a matching top patch, it gives you everything you need to get started right out of the box. The bottom hydraulic patch features a 90-degree hold-open mechanism. Tested to 500,000 cycles, the hydraulic patch fitting kit is designed for daily, high-traffic use and has excellent corrosion resistance. Booth #2010

786/316-5160, GLASSHARDWARE.COM

iNoex LLC

The promex Basic Fast measurement system brings speed, precision and traceability to profile inspection. Built on advanced vertical optical technology, it captures and reverse-engineers the entire cross-sectional shape of an extruded profile in 3 to 5 seconds. Whether on the factory floor or in the quality lab, Basic Fast gives teams the power to quickly identify out-of-tolerance profiles. Booth # 1522

260/701-3200, INOEX.COM



Synerglass-Soft (not pictured)

Synerglass Symbiose is a comprehensive ERP platform designed specifically for glass processors and insulating glass manufacturers looking to centralize, automate and optimize their entire operation within a single connected ecosystem. From quotation and order entry to production, logistics, stock management, delivery and invoicing, Symbiose orchestrates every stage of the glass manufacturing workflow while connecting directly with production machines and third-party systems. The platform is built for industrial glass companies of all sizes. Booth #4630

+(32) 0429-53110, SYNERGLASS-SOFT.COM

Italian Pavilion

Celebrating its 10th consecutive year at GlassBuild America, the Italian Pavilion showcases the excellence of Italy's glass technology industry. Organized by the Italian Trade Agency in collaboration with GIMAV, the Pavilion features leading Italian manufacturers presenting innovative machinery, components and solutions. Visit the Italian exhibitors around Booth 1259 to discover new technologies, explore business opportunities, and connect with Italy's glass industry leaders. Booth #1259.

281/888-4288, ICE.IT

NEW AT GLASSBUILD**Argon Filling Systems**

Argon Filling Systems has developed a low-cost, high-speed 2-line gas filling system. Each line has an independent vacuum and gas sensor, allowing for efficient operation and accurate gas fill percentage. Durable, simple gas sensor calibration provides repeatable and reliable gas fill percentage to ensure full confidence in the manufacturing process. Booth #1513

612/597-0014, ARGONFILLINGSYSTEMS.COM

**NEW AT GLASSBUILD****Beijing Nexacode Intelligent Technology Co.**

The QMARK black laser marks permanent QR codes on glass for traceability and digital automation. Its laser lasts five times longer than white-mark lasers with low faults. QR codes scan easily to open company websites and connect to automated lines for precise MES data. Booth #3807

+ (86) 1381-0806-921

**NEW AT GLASSBUILD****ShowerPro**

ShowerPro is a cloud-based shower design and quoting platform built for glass dealers and fabricators who want to design, price and sell custom shower enclosures. ShowerPro lets you add and choose from multiple hardware providers, so you can quote with the brands you carry and switch between them on a job-by-job basis. Build a configuration, pick your glass and hardware, and generate a clean, professional quote your customer can understand. Booth #4629

984/746-9371, SHOWERPRODESIGN.COM



NEW AT GLASSBUILD

Cyncly

FeneVision Tracking has long helped glass, window and door manufacturers manage production traceability and work-in-process visibility. Based on direct customer feedback, Cyncly partnered with manufacturers to redesign Mobile Tracking as a browser-based Progressive Web Application, eliminating the need for specialized handheld devices, terminal server sessions and dedicated PCs. Accessible from smartphones, tablets and desktops, the solution makes it easier to expand tracking coverage throughout the facility. Booth #4235
CYNCLY.COM



EDTM Inc.

The GC3200 measures the glass and air space thickness of a window and also identifies the surface location and type of low emissivity coating in the window. The Glass-Chek ELITE also can identify laminated glass and measure the inner-layer thickness of the laminated glass itself. The graphical display shows a drawing of the profile of the window, labeling each glass surface and is intended to make the window construction and low-e location easier to comprehend. Booth #1611
419/861-1030, EDTM.COM



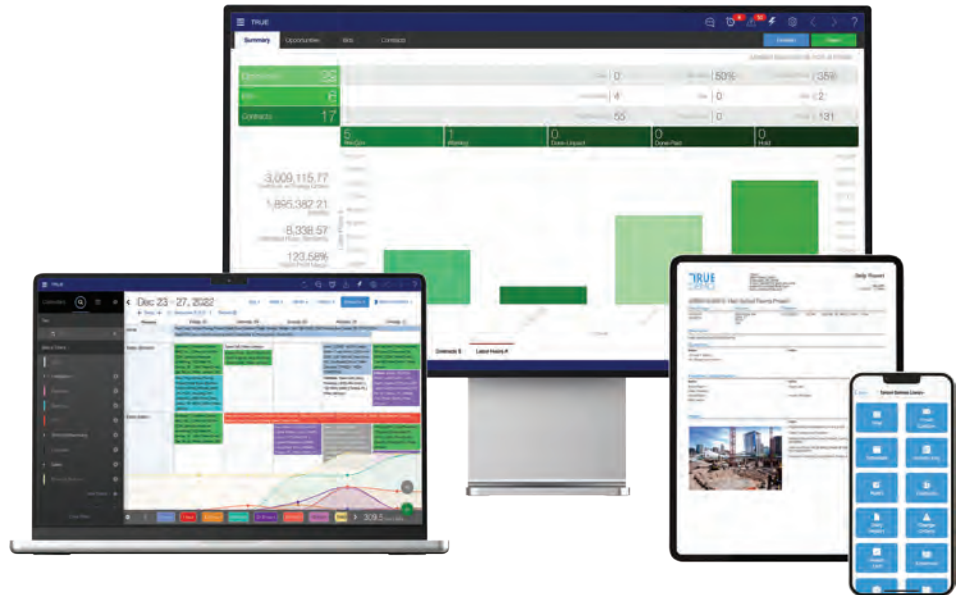
iSource-X

iSource-X introduces its professional-strength foaming glass cleaner. Featuring an ammonia-free, industrial-strength formula, this cleaner uses clinging foam to remove dirt, grime and fingerprints from glass, mirrors, chrome and more, without streaks or residue. iSource-X uses a patented nozzle so users can spray in any can position. Private-label orders are now available with only a 24-case minimum. Booth #4726
877/524-7788, ISOURCE-X.COM

True Contractor Software

True is a web-based, all-inclusive, customizable ERP software solution designed for the glazing industry. Whether you're a residential, commercial or service glazier, True has the tools to help you do everything from manage sales leads to generate proposals, manage bids, manage projects, schedule crews, issue work orders, track labor, procurement, job costing, inventory control, billing and accounting, all while being accessible on mobile devices. Booth #3118

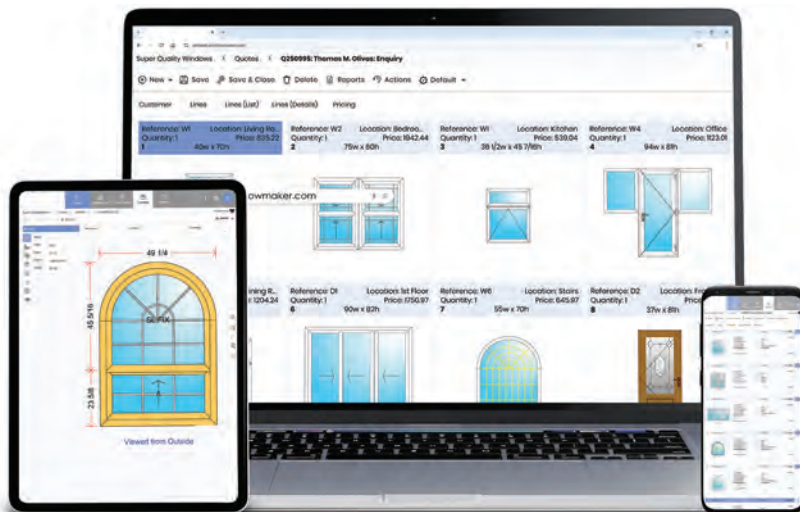
833/438-8783, CONSTRUCTTRUE.COM



Windowmaker Software Ltd.

Windowmaker Software is a fully cloud-based system for the whole fenestration industry, from installers and dealers to multi-site manufacturers. It connects sales, manufacturing and service teams in a single, responsive interface. The platform offers fast, professional quoting across all window and door types, including complex shapes and materials like vinyl, aluminum, wood, fiberglass, steel and composite. Seamless dealer ordering allows dealers to configure, price and place their own orders. Booth #1328

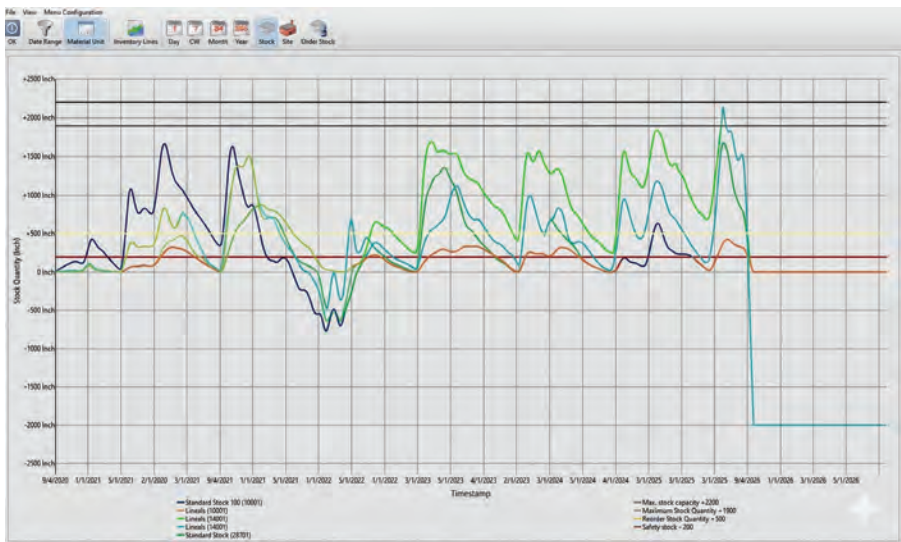
647/694 1903, WINDOWMAKER.COM



A+W Software

A+W Cantor 8.0 helps manufacturers improve margins by aligning real production data with financial results. With smarter inventory management, better supplier decisions and embedded workflows, Cantor 8.0 reduces costly variance, lowers material risk, and supports predictable, margin-focused growth as complexity increases. Booth #3335

847/682-4684, A-W.COM



CCL Design

Graphiccolor is unveiling Graphiccolor ExoPV, a next-generation coating solution engineered specifically for window and door profiles. Built on advanced PVDF technology and mixed metal oxide pigments, ExoPV offers the same long-standing durability customers expect. Features include custom color development, integrated heat-reducing properties help manage solar buildup, precision gravure coating technology and full web coating up to 1 meter wide. Booth #4530

219/510-4653, CCLDESIGN.COM



BUILT



FOR



WILDFIRES

Catastrophic conflagrations have damaged or destroyed thousands of homes over the past four decades. New developments often abut wildland with topography and vegetation that are vulnerable to rapidly developing fires. Climate change with extended periods of drought, extreme weather events and high winds exacerbate this. Attempts to mitigate damage by hardening structures in Wildland Urban Interface (WUI) zones have led to limited testing and development of building codes intent on increasing a structure's likelihood of surviving a fire storm. The challenge for windows is staying intact long enough to prevent flame penetration to the inside of the structure.

Photo-Illustration by Cory Thacker

Under section 505.8 of the International Wildland-Urban Interface Code (IWUIC) exterior windows, window walls and glazed doors, windows within exterior doors, and skylights shall be tempered glass, multilayered glazed panels, glass block or have a fire protection rating of not less than 20 minutes. In California's 2025 Wildland-Urban Interface Code section 504.8 Exterior Glazing, exterior windows, window walls and glazed doors, windows within exterior doors, and skylights shall be constructed of any of the following:



- Multilayered glazed panels with at least one pane of tempered glass complying with Section 2406 of the California Building Code
- Glass block
- Glazing with a fire-protection rating of not less than 20 minutes when tested according to NFPA 257 or UL 9, and shall be exempt from the hose stream test
- Glazing meeting the performance requirements of SFM Standard 12-7A-2

While current WUI codes allow conventional readily available windows and doors through meeting prescriptive requirements, IGUs that include tempered glazing, the performance path is much more daunting. Testing under NFPA 257 or UL 9 require an exposure duration of 20 minutes, while California's SFM Standard 12-7A-2 requires exposure for 8 minutes. Very few residential window manufacturers have certified products that meet either of these performance-based criteria.

As a key component in residential development, windows allow views, light, and fresh air in while keeping the elements at bay. In addition to these attributes, window design and construction have fostered many advancements in energy efficiency, security and impact resistance. Based on the scale of destruction due to fire in recent years, windows are a focus in hardening

of structures that border WUI areas. These efforts are expanding to include the built environment, or residences that are deeper into a neighborhood where structure to structure fire spread is being considered.

The challenges facing the window industry include understanding the duration and intensity a product's design and construction are expected to resist, while maintaining a cost structure and aesthetic that is acceptable to the market. Design and materials used must consider failures that allow any flame impingement from outside to inside, which could include breakage and evacuation of glazing, gaps in weatherstripping, gaps created by frame deformation, failures in hardware, etc.

GLASS CONSIDERATIONS

WUI codes for windows and doors tend to focus on glass. This makes sense, as glazing is the largest component based on surface area and breakage and evacuation results in open paths for fire to the inside of a structure. The assumption that insulating glass units will be used for thermal efficiency is a given. When choosing glass for potential use in windows in wildland urban interface zones the following should be considered as staying intact and retention are key to preventing fire intrusion. Resistance to thermal stress fractures, and break patterns contribute to the overall integrity of a fire exposed window.

Annealed glass is most commonly used in residential applications where safety glazing is not required. Annealed glass has a relatively low threshold for exposure to thermal stresses. Annealed glass typically breaks due to thermal stress when experiencing a temperature differential of roughly 30°C to 50°C (86°F to 122°F) across the pane, depending on edge quality. The break pattern typically emanates from the glass edge, not near a corner, and meanders toward the center, resulting in large shards of glass.

Heat-strengthened glass is commonly used in commercial applications where opaque spandrel panels are used between floors or where inconsistent shading creates shadowing across a portion of the lite. These conditions create high temperature gradients within the lite, which increase thermal stresses. Just as with fully tempered glass, heat strengthened glass is seamed, which involves sanding the edges and eliminating most edge damage.

Heat-strengthened glass can withstand a temperature differential of 100°C (212°F). Heat-strengthened glass breaks into large, sharp, angular shards similar to annealed glass. Unlike fully tempered glass, which shatters into small, diced particles, the larger fragments of heat-strengthened glass tend to remain in the window frame, providing better containment after breakage.

Fully tempered glass is commonly used when increased strength and safety are required. Fully tempered glass can withstand non-uniform temperature gradients of approximately 200°C to 250°C (392°F to 482°F). When tensile stress exceeds the limits of fully tempered glass, breakage is explosive and results in a break pattern consisting of many small pieces.

While not yet commercially available in large sizes typical in residential window construction, chemically strengthened glass is a high-performance, ion-exchanged material, typically six to eight times stronger than annealed glass. It features exceptional surface compression, high scratch resistance, and superior optical clarity without distortion or roller marks. Chemical

strengthening also significantly enhances the resistance to thermal stress fracture, and the break pattern is similar to annealed or heat-strengthened glass. As thin triple IGUs become more readily available, a chemically strengthened inner lite of thin glass could have implications for windows in wildland urban interface zones.

Early testing showed that the makeup of an IGU has an impact on the duration a window can remain intact enough to keep flames from breaching the envelope. As expected, annealed glass is most vulnerable to radiant heat and direct flame exposure. This testing illustrated annealed glass fractured due to thermal stress within a few seconds of exposure. Based on the break pattern and redundancy of multiple panes of glass in an IGU, windows with annealed glass failed within a few minutes of exposure.

Windows that included fully tempered IGU showed improvements in the time of fracture due to thermal stress, but the break pattern allowed the glass to evacuate the opening shortly after the initial stress fractures. As WUI building codes embraced lessons from early testing, hybrid units including at least one lite of fully tempered glass were specified.

More recent testing by UL Fire Safety Research Institute shows that the position of the tempered glass lite has an impact on the duration of exposure before failure. IGUs with an outboard lite of annealed glass and fully tempered lite inboard, outperformed units with the opposite configuration. This makes sense intuitively as the break pattern of annealed glass allows large pieces of glass to remain in the opening vs. tempered glass that falls out shortly after breaking.

In very recent testing, glass thickness appears to have a dramatic impact on pane integrity, a lite of glass that is fractured but maintains enough integrity to stay in place as a solid plain that acts as a barrier to flame impingement. While a very small sample size, inclusion of 3/16-inch glass points toward validation the impact thicker glass can have when exposed to extreme fire conditions. Two windows were tested that included IGUs consisting of 3/16-inch tempered/tem-

pered in the upper sash and 3/16-inch annealed/tempered in the lower sash. Both windows maintained “pane integrity”—thermal stress fractured glass that maintained continuity long enough to pass the 8-minute mark with no direct flames to the interior of the window. The use of heat strengthened glass in one or both lites of an IGU has yet to be tested but may offer an additional measure of protection, based on higher resistance to thermal stress fractures and the large shard break pattern.

The spacer and sealants used in assembly of the IGU is important when fire exposure is considered. The primary seal needs to be consistent with best practices for moisture barrier and gas retention. A non-combustible secondary seal is recommended to isolate the primary seal and add structural integrity to the IGU. The method of glazing needs to be considered as retention of the IGU is key to enhanced performance when exposed to fire. For IGUs set in the frame and sash relying on adhesion, non-combustible liquid sealants (wet glazing) should be considered, as foam glazing tapes can lose adhesion when exposed to heat. Mechanical means of securing the IGU should also be considered, as retention in the opening is key to blocking flame impingement. For dry set and gasket glazing, the materials used should be non-combustible. Recent UL Fire Research Institute testing observed ignition of boot gaskets.

WEATHERSTRIPPING, HARDWARE AND FRAMING

While glass and glazing are key to building a window in wildland urban interface zones, weatherstripping, hardware and framing play a significant role. Fire resistant or non-combustible weatherstrip is recommended as it is often the barrier to flame impingement at interlocks and around operable sash components. Locking and balancing hardware need to remain in place and functional throughout the exposure duration, as failure can result in sash movement that open gaps that could allow flame impingement.

Although all windows failed at some point during the recent UL testing,

some framing materials fared better than others. While steel framing has been utilized in fire-rated windows, it was not included in the recent UL research testing. Testing focused on aluminum clad wood, aluminum, vinyl, and fiberglass window framing. All windows tested were double hung configuration. Ultimately all frame types failed but the mode of failure varied.

Other than impingement due to IGU failure, sash sagging due to frame deformation or hardware failure occurred in all window types. Double-hung windows rely on locking and sash balances to keep the sashes in place. Care should be taken to include sash balance retention that is not susceptible to deformation or release when exposed to high heat. The same caution should be taken with locks and keepers. To enhance the performance of vinyl framed windows exposed to fire, additional attention should be paid to reinforcing hollows within the perimeter and sash to support the IGU, anchor hardware, and minimize frame deformation.

In summary, as building code development catches up with demand for more windows in wildland urban interface zones, using what we have learned through testing and forensic investigations can lead the fenestration industry to products better suited to survive a conflagration. Glass, glazing, weatherstrip, hardware and reinforcements can combine to build products that are more likely to survive high intensity, short duration fire exposures. This approach should have positive results as we look to participate in well-designed future testing. ■

Grant Muller began his fenestration career in 1980 and joined Vision Extrusion Group in 2020 as a key account manager. Muller co-founded and chaired AAMA's Glass Materials Council, served two terms as President of the AAMA Western Region and is currently Vice-Chair of FGIA's Wildland Urban Interface Task Group. He attained FGIA's Fenestration Masters certification early in the development of this program.

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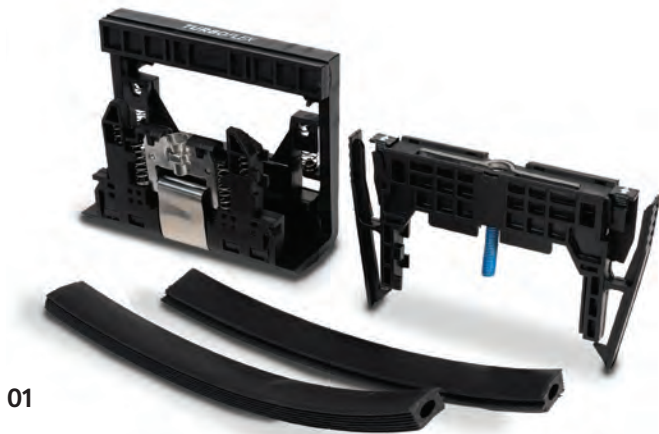
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02



03



01

01. Glass railing

Turboflex by CRL is a glass railing system designed with simplicity and flexibility, as well as broad glass compatibility. Turboflex provides adjustability and performance and has also passed Miami-Dade HVHZ testing. Turboflex is compatible with a variety of glass options, including Oldcastle BuildingEnvelope glass products for a one-stop-shop solution. OBE options include tinted glass, decorative glass, and OBE's award-winning Bird Guard glass.

800/421-6144 | CRLAURENCE.COM

02. Entrance system

Capetown by Kwikset is a new arched trim available with select Kwikset levers, knobs and deadbolts. The Capetown arch trim is available with the Sedona lever and Sora knob. A matching Capetown 258 deadbolt extends the design to exterior entrances. Capetown has an arched shape and larger trim size. The larger trim size is intended to cover paint marks and surface imperfections that may remain after previous door hardware is removed. Customers can choose from Satin Nickel, Satin Brass and Matte Black finishes.

KWIKSET.COM

03. Awning window

Kolbe Windows & Doors' gas strut awning window is the newest addition to its Ultra Series product line. With configurations available both with and without a sill, the design creates a clean, unobstructed opening that enhances the flow of food, drinks and conversation across residential environments. Available in sizes up to 96 inches wide or 54 inches tall, with a maximum of 29.25 square feet, the design accommodates a wide range of applications, from residential kitchens and patios to hospitality-driven environments.

715/842-5666 | KOLBEWINDOWS.COM

Product/Solution

Key features

- Cordless enclosed blinds for light and privacy control
- Cleaner, lower-maintenance than traditional blinds
- Custom sizes with Low-E glass options
- Large-format solution up to 28 square feet



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Challenge

As homeowners continue to embrace larger expanses of glass, manufacturers need solutions that deliver privacy and light control without the dust, cords or maintenance associated with traditional blinds.

Solution

First to market more than 20 years ago with blinds between glass for windows, ODL continues to lead the blinds-between-glass category with Blinds + Glass®, a cordless enclosed blind system sealed between two panes of insulating glass. Designed

as a cleaner, lower-maintenance alternative to traditional blinds, Blinds + Glass gives homeowners a modern way to control light and privacy while helping window and door manufacturers meet growing demand for integrated light-control solutions.

The Blinds + Glass portfolio includes solutions for windows, sliding patio doors and large-format applications. Configurations include 7/8-inch Blinds + Glass® Raise, Lower, Tilt (RLT)-Top for windows, 7/8-inch Blinds + Glass® for windows and sliding patio doors, 1-inch Blinds + Glass®, and 1-inch Blinds + Glass® XL—the only enclosed light and privacy control solution designed for today's popular large-format windows and glass doors.

Built to order in 1/16-inch size increments, the systems are available in five blind colors and can ship in as few as eight days. The EasyGlide operator raises, lowers and tilts the slats, while optional Low-E coatings, Solar Gray and Solar Bronze tints, and tempered or annealed glass provide design and performance flexibility. The sealed insulating glass unit integrates seamlessly into standard glazing processes and is compatible with awning, casement, fixed, sliding and bay windows.

Blinds + Glass XL extends enclosed blind technology to larger window and patio door applications, giving manufacturers a differentiated solution that complements today's residential designs. Every Blinds + Glass unit is cordless, backed

by a 10-year full replacement warranty and carries child-safety certifications from Best for Kids™ and Parents for Window Blind Safety™.

"Homeowners want privacy and light control that doesn't add one more surface to clean or one more cord to worry about," said Annie Agrotis, director of product management at ODL. "Blinds + Glass XL gives manufacturers a solution for today's larger window and patio door applications while delivering reliable performance, a clean appearance and the low-maintenance convenience homeowners expect." odl.com | 800/253-3900 ■



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Are You Ready for Automation?

By Chris Kammer, A+W
Software North America

The question smaller fabricators are asking right now is, "Should we automate?" That is a fair question. Instead, you should be asking the better question, "Are we actually ready to automate?"

In 2026, that distinction matters more than ever. Fabricators are navigating tariff pressure, unpredictable material costs, uncertain consumers, and a market outlook that is cautiously optimistic at best. With all of this uncertainty, a smaller fabricator that rushes into automation without the right foundation is not just wasting money. They are taking on real risk at exactly the wrong time. Automation builds on what already exists in your operation. Whether that foundation is solid or shaky determines whether automation accelerates your business or amplifies its problems. ■

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Maximizing Views and Natural Light

Project: The New American Home 2027

Products: Series 8000 Vantage Collection and the Series 300 Minimalist Multi-Slide Door

Description: Western Architectural Openings has been selected as the sole window and door provider for The New American Home 2027, the flagship exhibit for the International Builders' Show taking place on February 2-4, 2027. This is Western's fifth time contributing to The New American Home project. Located at 56 Clearview Summit Drive, the three-story, 10,400-square-foot home will

be in Southern Highlands, a community situated in the scenic foothills of Las Vegas. Las Vegas-based Blue Heron is the builder and architect for this year's home.

"This year's home is being constructed with a thoughtfully designed floor plan that focuses on maximizing natural light," says Brian Leizero-wicz, vice president of sales for Western Architectural Openings. "By incorporating Western products, the home will welcome natural light, frame panoramic desert and valley views, and create a seamless connection between indoors and out."

Western will provide a full-house window and door

package for the project, featuring products from its Series 8000 Vantage Collection and the Series 300 Minimalist Multi-Slide Door. Defined by ultra-thin frames and minimal sightlines, the Series 8000 Vantage Collection maximizes glass to welcome more natural light and keep the focus on the surrounding views. Featured products include the 8630 Fixed/Window Wall and 8670 Casement Window.

The Series 300 Minimalist Multi-Slide Door combines smooth operation with innovative narrow interlocks that minimize the boundaries between indoors and outdoors. With large panel sizes up to 12 feet tall, fine lines, and energy-efficient low-E, dual-paned glass, the Series 300 is a perfect complement to the home's modern aesthetic. ■

Hardware that elevates every opening

Engineered for every opening, our portfolio includes locking systems, hinges, balances, operators, and a variety of solutions designed to improve performance, security, and safety.

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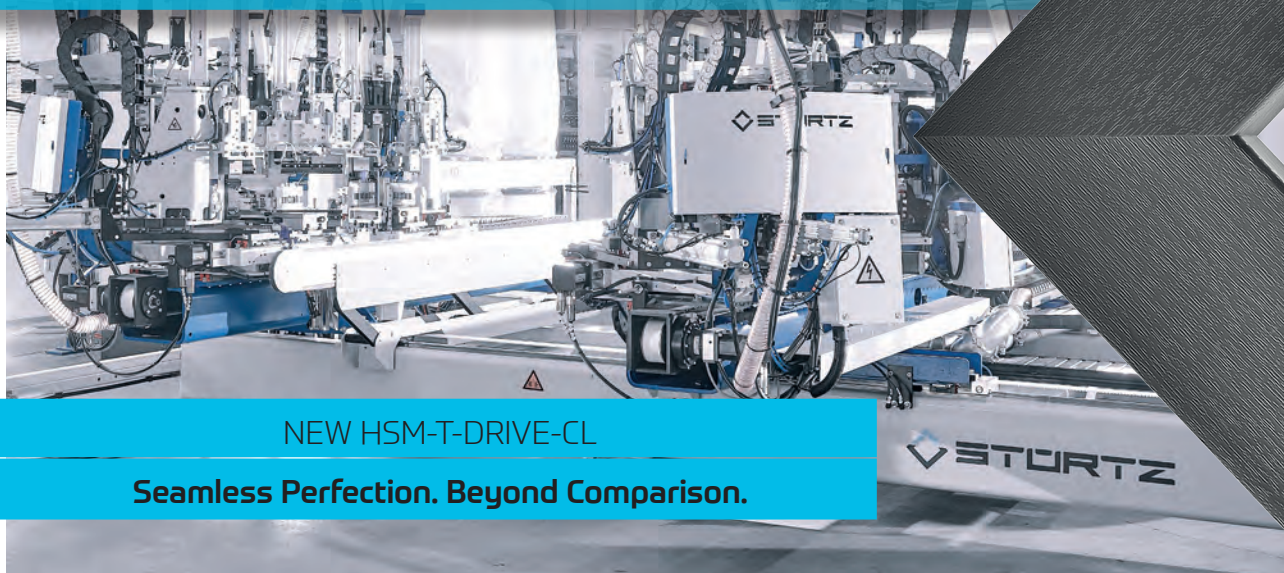
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