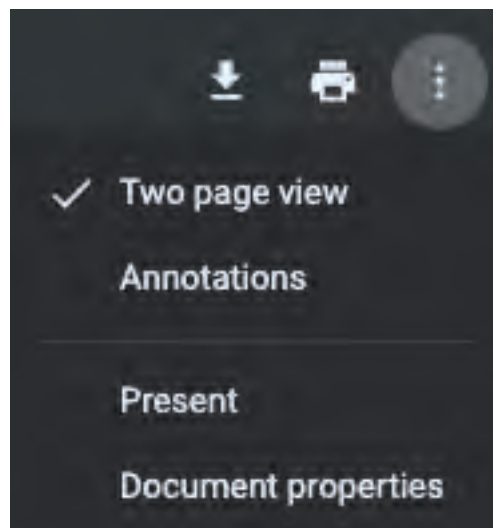


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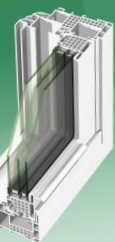
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Education P.34
Products P.40
Exhibitors P.78

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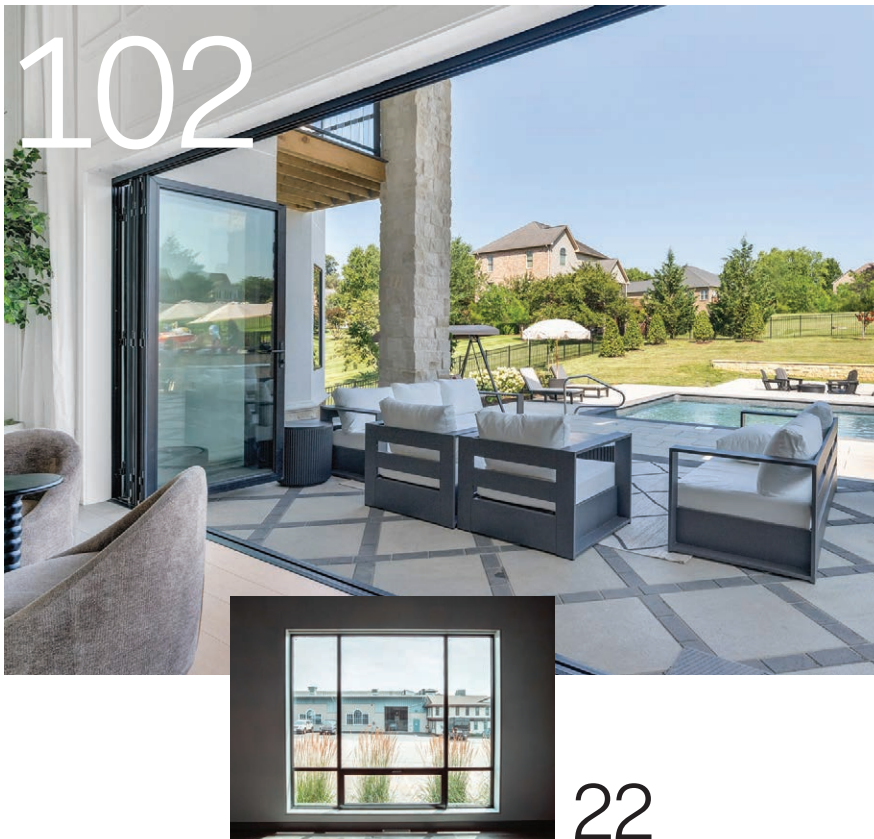
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Residential fenestration coverage, from source to sale // windowanddoor.com // Vol. 33, No. 5 // September/October 2025



Insights

06. Editor's Notes

Continuing Education

By Laurie Cowin

08. Meet the CEO

A New Reflection

By Tara Lukasik

14. Decoded

Edgy Ideas about IGUs

18. Eye on Fenestration

Window of Opportunity for M&A

By Andrew Petryk

22. Performance

VIG in Action

By Laurie Cowin

26. Trendhunter

Garage Door Revolution

By Tara Lukasik

Features

34. Show Preview

The inside scoop on GlassBuild America, the largest gathering in North America for all segments of the glass and fenestration industries.

By Laurie Cowin and Norah Dick

40. Discover Solutions: Product Preview

From window systems and hardware to automated IG and vinyl processing equipment, and all the pieces in between, this exclusive product section shows just a fraction of the products, services and supplies that will be on display in Orlando.

78. The Exhibitor List

This year's event will host over 571 exhibiting companies, with more than 110 new suppliers added to the 2025 event.

Intel

10. News

In the Know

98. Products

Fenestration Finds

102. FrameWork

Blending the Indoors and Outdoors

Sponsored

32. Q&A with W+D

Rotonorth America

99. Product Solution

A+W Software

100. Ad Index

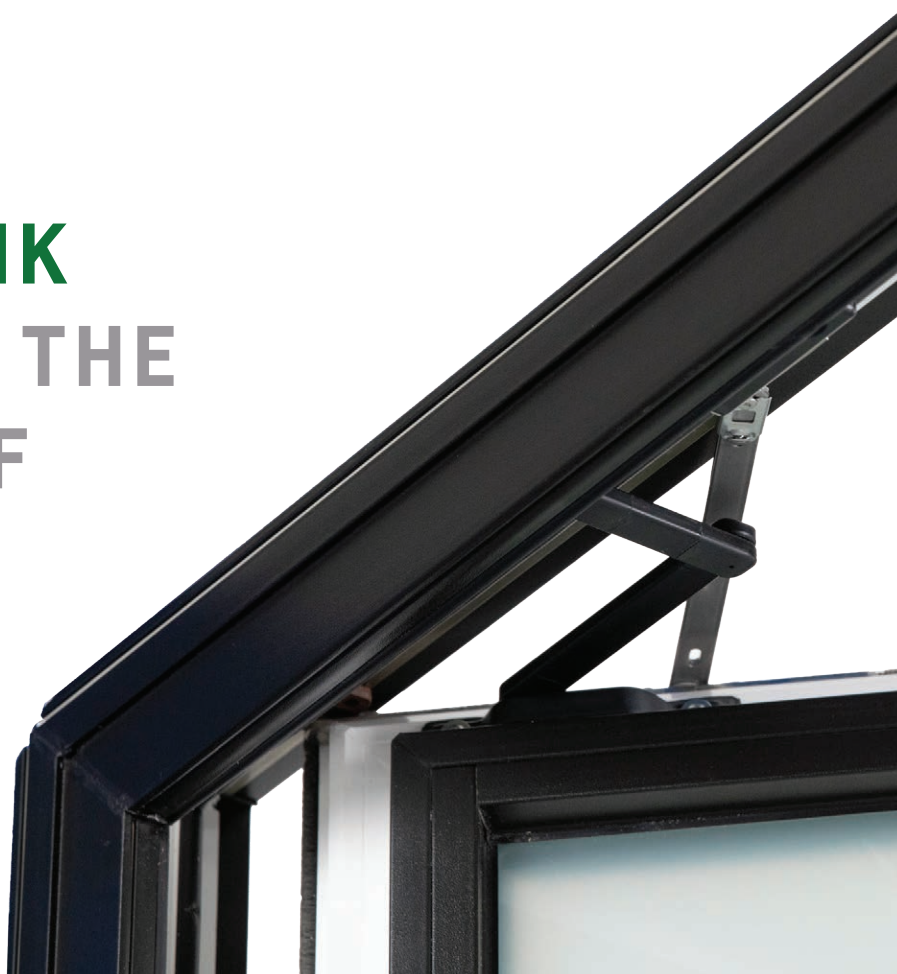
ON THE COVER: GlassBuild America will welcome more than 570 exhibitors to its new host city of Orlando, Florida, Nov. 4-6.



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Continuing Education

GlassBuild America offers a plethora of education opportunities

BY LAURIE COWIN

I'm writing this as my oldest child is in his first month of first grade. He's still of the misconception that his education has a finite number of years. That there will be a finish line, a moment where he knows it all.

As adults, we know better. Education is a lifelong pursuit. Now that most of us are settled into our careers—after all, we all know once we're in this industry, we're in it to stay—we have the privilege of continuing our education and even shaping the education of the industry for each other and future generations.

I think, and hope, education is a huge reason why most of you are packing for Orlando this November to attend the can't-miss glass and fenestration event of the year. GlassBuild America is one of the top events each year where window and door professionals gather to do just that: Educate and be educated.

Here are just a few of the educational opportunities I'm looking forward to:

1. **Main Stage.** This year's Main Stage programming is filled with can't-miss sessions addressing everything from supply chain, codes and standards, workforce development, economic forecasts, networking events, and more. Join me in the audience on day two for Chris Beard of John Burns Research and Consulting's report, featuring the latest data from the Window & Door Market Survey. Stefanie Couch from Grit Blueprint is also back to host the Women in Glass & Fenestration networking event and panel discussion on the last day of the show.
2. **LIVE! At GlassBuild: Podcast Stage.** Be sure to swing by the podcast stage to see what conversations are happening and listen in. Window Cast and Glass Cast will host many guests, including the trendsetters, influencers and subject-matter experts in the glass and fenestration space.
3. **Booth visits.** Booth visits aren't in the formal educational lineup, but this is where a lot of the magic happens for me. This is where I see machinery in action, get software demonstrations, examine profiles and components in person, and hear from the experts about how they're made and why they matter.

I hope to see you in Orlando in November. Send me an email to lcowin@glass.org; I'd love to schedule time to learn from you. ■



Laurie

LAURIE COWIN
EDITOR, WINDOW+DOOR

WINDOW+DOOR

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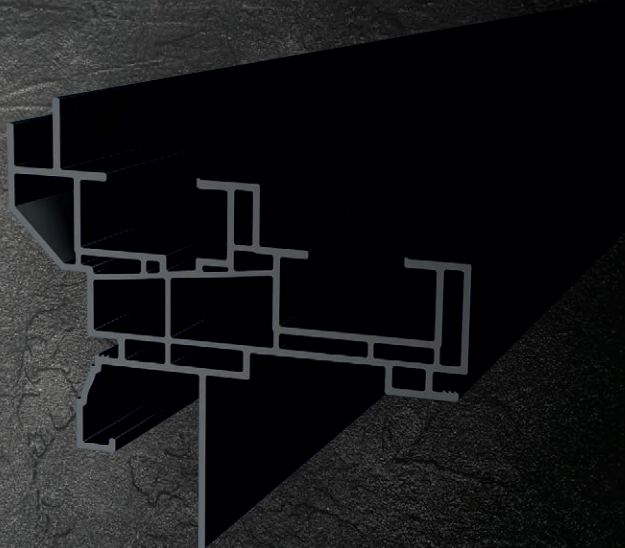
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NGA staff visiting the Los Angeles manufacturing and office location for member company CRL in August. Pictured from left to right: Erin Lindsay, director, CRL architectural business development; Carla Ohlmaier, CRL vice president, engineering; Lakisha A. Woods, NGA president and CEO; Katy Devlin, NGA vice president of content and programming; Michele Nosko, NGA COO; and Crista Tekstra, CRL vice president, marketing.

Katy Devlin: At the time of this interview, you've been in the glass world officially for three weeks. What strikes you so far about this industry?

Lakisha A. Woods: I'm energized by the unity of the people that I've spoken with. Even though they represent the whole supply chain, and oftentimes compete, they lead with a passion that everybody shares for this industry. From my conversations with our board and other leaders, once you join the glass industry, you never leave. That speaks volumes about the strength of this community. I'm excited to encourage others to find their places here as well.

KD: You come to NGA with a deep background in the building industry. How does that background inform your approach to leading NGA?

LW: My entire career has been rooted in the built environment, working with architects, sub-contractors, general contractors and homebuilders, so I'm not new to the construction space. I have an appreciation for what they do, and I love knowing that the members I represent design and/or build all the spaces where we live, work, learn and play. It's a joy to look up and be able to say, "My members do that."

A New Reflection

An interview with NGA's new CEO Lakisha A. Woods on leadership, industry and the future of glass **BY TARA LUKASIK**

As Lakisha A. Woods, CAE, takes the helm as president and CEO of the National Glass Association, Window + Door's Katy Devlin, NGA vice president of content and programming, sat down with Woods to discuss this moment of transition and the opportunities to embrace evolving challenges and new possibilities in the architectural glass and glazing industry—as seen through the lens of her past experiences and future aspirations.

Woods stepped into the pivotal role in July, with a wealth of experience

in associations representing the built environment. She is the former executive vice president and CEO of the American Institute of Architects, previously served as president and CEO of the National Institute of Building Sciences, and prior to that, was the senior vice president and chief marketing officer at the National Association of Home Builders. She brings fresh energy and an insightful perspective to serving NGA's members and shares her early impressions and vision for NGA.

Each association I've led or members I've worked with have taught me something new and revealed connections back to my past work. I'm excited to hear how important homebuilders, architects and specifiers are to this industry and the members of this association. ... Bridging these relationships and building more collaborative networks is a priority for me.

KD: How do you see your fluency with other parts of the building industry helping you as NGA's CEO, especially when dealing with diverse groups like subcontractors, manufacturers or building code leaders?

LW: It really helps that I speak a common language across the building industry. Whether it's manufacturers or code officials, I understand the different perspectives and challenges. Everyone is ultimately focused on creating spaces that are safe, healthy and meet human and environmental needs. That shared goal makes collaboration a lot easier.

I have a strong network of fellow CEOs across the built environment who come together to make sure we're all doing what we can to help our various stakeholders. This allows me to think strategically about being a better leader for my organization and a better advocate for the industry.

KD: You emphasized the importance of listening to NGA members and stakeholders. How do you plan to gather input, and what do you want members to know about your leadership style?

LW: Listening is foundational. It's really important for me to hear from them and I'm committed to spending time talking one-on-one, in groups and at conferences. I hope we can get out a member survey, and I want our members to know that when I say I want to hear from them, I truly mean it. In my previous role, when I invited feedback from thousands of members, many said they couldn't believe a

CEO really wanted to listen, but those conversations on their challenges and needs helped us make better decisions. It's so important for any leader to listen to their team, listen to their volunteer leaders and listen to the membership as a whole.

You can't please everyone all the time, but my goal is to reach that majority of members, so they see that the organization is doing what is necessary for them to continue to grow and succeed. That means balancing a wide spectrum of needs but prioritizing the critical ones that help the industry grow.

KD: What's a favorite question you like to ask members to help focus on priorities?

LW: I like to ask people to imagine they are the CEO of NGA, and ask: "One year from now, you have to look back and say that you accomplished one critical goal... What is it?" It's a clarifying exercise because it reminds people that it's hard to focus on one thing. You're one person. What is the most immediate and impactful goal? I'm fascinated by the responses, which differ depending on who you ask. Our industry is broad with many segments, but that variety helps us find areas of balance and common ground.

KD: Speaking of those shared priorities, what themes keep coming up in your conversations with NGA members?

LW: Public awareness of the importance of glass and how NGA can spread the word about joining this industry. People want to see NGA promote awareness of the great careers in glass and fenestration and promote the industry's importance to a wider audience. They're asking, "How can we reach people where they are?" Social media can only go so far, but partnerships and broader messaging campaigns can bring that to the forefront.

KD: NGA's prior CEO Nicole Harris served 35 years, 11 of those years

as CEO, and provided thoughtful leadership through many changes. You worked alongside her during the transition. What reflections do you have on Nicole's leadership and how will that influence your own approach?

LW: Getting a chance to meet Nicole as a part of the process was part of why I was so excited to receive this role. She's an amazing person, and while spending my first few days with her and the senior staff I kept thinking, "Don't leave, can't we work together?" I can't fill her shoes—I have to wear my own—but one comforting thing is her style in how she led the association. She set a tone that balances transparency with the business realities of running an association that needs to be profitable to fund its mission.

So much of her philosophy and vision for the future are shared and I feel comfortable stepping into a role where there doesn't need to be significant change because people are already familiar with that style. My hope is for a smooth transition with as little disruption to NGA's culture as possible. Nicole's generosity and encouragement already show that I'm stepping into a great situation, and I'm grateful for that foundation.

KD: Before we wrap up, is there anything you'd like to share with NGA members or the readers of Window + Door?

LW: NGA has done a fantastic job, and it's about what else we can offer or do to show what NGA stands for. What do our members need? What does our industry need? How can I help add to the success that NGA already has accomplished? I'm here to help build on that success, to be a voice and a hand to help move the association and the industry forward.

Stay tuned for more from Lakisha Woods during GlassBuild 2025, including a live podcast session during the show. ■

News

Pella Acquires Weather Shield

—

Pella Corp. announced the acquisition of Weather Shield. By joining the Pella family of brands, both companies are positioned for accelerated growth, aiming to offer expanded capabilities and more value to customers in the future, say company officials.

Assa Abloy Acquires SiteOwl

—

Assa Abloy acquired SiteOwl, a cloud-based platform that modernizes physical security lifecycle management. “I am very pleased to welcome SiteOwl to Assa Abloy, an exciting technological addition that will reinforce our current offering within physical security lifecycle management, and provide complementary growth opportunities,” says Nico Delvaux, president and CEO of Assa Abloy.

Veka North America Parent Company Acquires UK-Based Manufacturer

—

Veka North America’s parent company, Laumann Group SE, reached an agreement in principle to acquire Epwin Group PLC, a UK-based manufacturer of building products. The proposed transaction is expected to close in late 2025 or early 2026. Founded in 1976, Epwin serves residential, commercial and infrastructure markets across the UK and Europe. In 2024, the company reported full-year revenues of about \$440 million and currently employs more than 2,200 team members.

YKK AP Acquires German Manufacturer

—

YKK AP America Inc. announced that its parent company, YKK AP Inc., acquired the German manufacturer Seufert-Niklaus GmbH. This move follows the establishment of YKK AP Europe GmbH, which was launched in April 2025 and is based in Dusseldorf, Germany. Seufert-Niklaus, a manufacturer of timber and aluminum-based architectural solutions, is known for its façades, windows and doors. Founded in 1891, the company is headquartered in Bastheim, Germany.

Burton Hill Capital Acquires Skyline Sky-Lites

—

Burton Hill Capital has acquired Skyline Sky-Lites of Colorado Springs, Colorado. Founded in 1973, Skyline Sky-Lites produces a complete line of skylight systems—ranging from simple domes to self-supporting structures. Robert Ryan, founder of Burton Hill Capital, also purchased Birdview Skylights in 2018 and Maxim Skylights in 2022. “The decision to buy Skyline Sky-Lites was the natural progression of our strategy to acquire and grow daylighting companies with strong industry roots, up-to-date technology and employees dedicated to excellence,” says Ryan.

Miter Brands Sells NewSouth Window Solutions, Announces Manufacturing Transition in South Florida

—

Miter Brands announced the sale of its NewSouth Window Solutions brand to Window Nation. Company officials say the sale marks a step in realigning

Miter Brands with its core business model, reinforces its commitment to its valued dealer base and enables Miter Brands to further invest in its nationwide portfolio of brands.

Miter Brands also announced a strategic realignment to its Florida operations, including relocating production lines from its Medley and Hialeah facilities in Florida to other Miter Brands facilities in Florida; the closure of its Medley and Hialeah manufacturing facilities, with operations expected to conclude in the fourth quarter of 2025 and first quarter of 2026, respectively; and the opening of a new, advanced glass manufacturing plant in South Florida, Pembroke Pines. As part of this transition, Miter Brands will relocate production of its high-demand product lines to its other Florida facilities and sunset two product lines. With the closure of the Medley and Hialeah facilities, Miter Brands aims to retain as many team members as possible through open positions at its other facilities.

United Window & Door Expands Production Facilities

—

United Window & Door, a regional manufacturer of vinyl windows and doors, has announced a major expansion of its New Jersey production facilities, supported by a \$6.5 million investment slated for completion by the end of 2025. The expansion will add more than 40,000 square feet of production space equipped with manufacturing technology, including new lines for super spacer and triple pane glass. A second fully automated “super line” will also be added, which officials estimate will increase United’s production capacity by more than



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250,000 windows per year and result in the creation of over 75 new jobs.

Windsor Door Invests in New Manufacturing Line, Windsor America Launches Expansion

Windsor Door made a \$12 million investment in its New Legacy Production Manufacturing Line, set to be fully operational by the first quarter of 2026. Windsor Door aims to increase output, lower production costs and improve quality standards.

Windsor America, parent company of Windsor Door, is joining forces with Voyles Overhead Door to drive the next phase of strategic growth. Windsor America now provides a nationwide full-cycle solution in the garage door industry, including manufacturing, installation, service, extended warranty and replacement. As part of this expansion, Brent Voyles, founder and owner of Voyles Overhead Door, joins Windsor America's ownership group and executive team. In this new capacity, he serves as president of the East region of Windsor America.

Aluminum Extrusion Companies Unite for Expanded Capabilities

Extruded Aluminum Company, Profile Custom Extrusions and Metra Canada are uniting as Metra North America to provide expanded aluminum extrusion capabilities. The new Metra-NA.com website has also debuted. The three companies comprising Metra North America provide over a century of collective extrusion, fabricating and finishing experience serving customers in multiple building and industrial markets.

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Vytex Receives Investment from Graycliff Partners

Vytex announced a new investment from Graycliff Partners LP, an investment firm specializing in lower middle-market businesses. With Graycliff's support, Vytex plans to expand both organically and through strategic opportunities, including new

product development and geographic growth.

"This marks an exciting milestone for Vytex," says Adam Weinrub, president of Vytex. "Graycliff shares our commitment to maintaining the family-oriented culture and values that have guided us since our founding. Together, we will continue delivering the highest quality products at a competitive

price while pursuing opportunities for growth and innovation."

People



Schneider

Simpson Door Co. appointed *Steve Schneider* as its new president. Schneider succeeds *Phil Steklenski*, who retires after more than a decade

of service. With more than two decades of experience at Simpson, Schneider has held key roles in operations and sales, most recently serving as the vice president of manufacturing.



Jennings

Steves & Sons Inc. appointed *Jason Jennings* as its chief financial officer. Jennings brings more than two decades of financial

leadership experience with oil and gas company BP, where he held senior accounting positions in the U.S., Brazil and Uruguay. This leadership change follows the retirement of Stephen Tonra at the end of July, after nearly 30 years as its chief financial officer.



Gonzalez

Crystal Window & Door Systems welcomed *Daniel Gonzalez* as its chief information officer. In this leadership role, Gonzalez will oversee all

IT functions across the organization and guide the company's long-range strategy for technology-driven manufacturing.

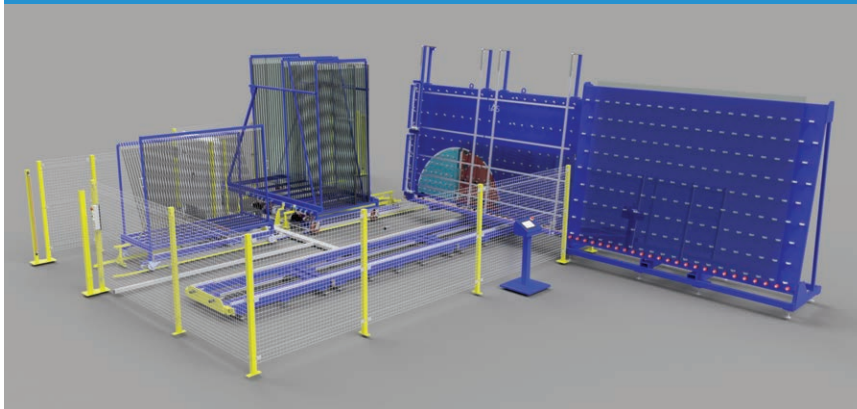


Rice

Marvin promoted *Renee Rice* to vice president of human resources and culture. In her new role, Rice will lead efforts to support

company-wide transformation, strengthen internal communications and guide an innovative employee experience at Marvin. Most recently, she served as Marvin's senior director of communications and culture. ■

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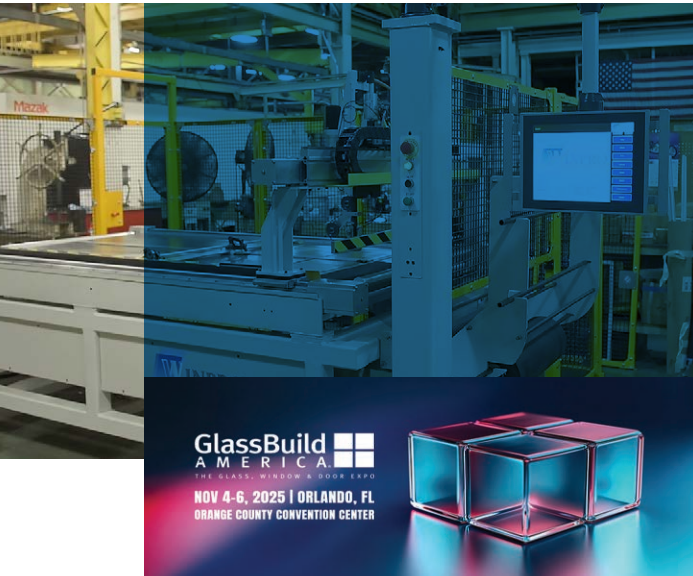
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Edgy Ideas about IGUs

Acceptable appearance of insulating glass units' edges

The National Glass Association thanks its task group volunteers for developing this resource: Aaron Thompson, Task Group Chair, Viracon; Jon Griggs, Guardian Glass; Michael Speicher, H.B. Fuller; Melissa Sztokowski, Linel; Jason Fisher, Oldcastle BuildingEnvelope; Rick Wright, Richard E. Wright Associates; John Mayfield, Tremco Sealants; Robert Carlson, Tristar Glass; DJ Weil, Trulite Glass & Aluminum Solutions; David Cooper, Vacuum Glass LLC; and Steve Marino, Vitro Architectural Glass.

People who work with windows and doors often look at them instead of through them. Those who look closely may notice that the edge of an insulating glass unit appears differently depending on its materials and how it was made. For freshly fabricated vision and spandrel IGU edges, what visual variations are considered acceptable? How can the appearance be affected by the spacer, sealant and other factors? What industry resources and specifications are available? The following offers answers and additional considerations.

Sightlines and spacers

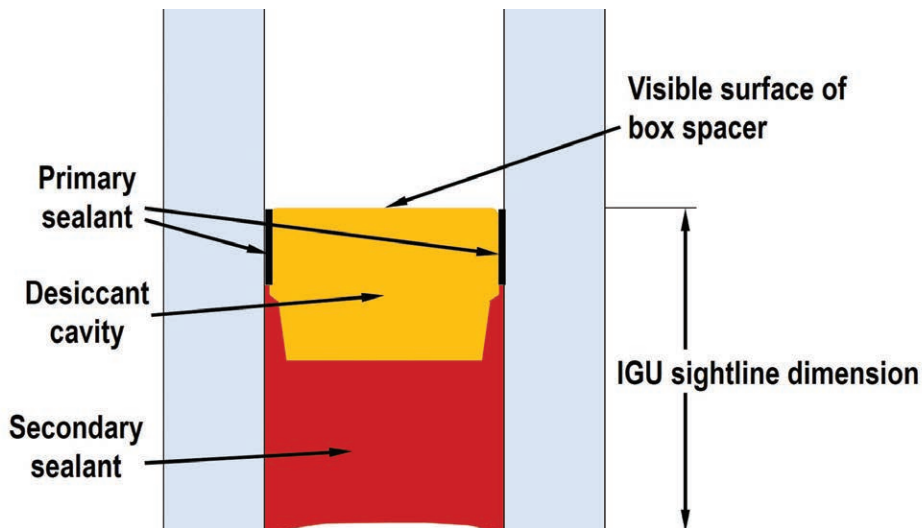
An IGU edge is the perimeter of an IGU. It includes the primary sealant, the secondary sealant and the box spacer. The vision area is bounded on all sides

by the IGU sightline. This sightline is the distance from the glass edge to the visible surface of the spacer. IGU sightline dimensions may vary by up to $\frac{1}{8}$ inch (3.2 millimeters) along any edge, and larger variations are common at the corners.

The top of the spacer and part of its side may be visible in some viewing conditions. Spacers come in different materials, finishes, textures, widths and colors. They may have IGU supplier information, certification labels, holes for gas filling, connection joints, and perforation holes or seams to allow for desiccant activity.

Variations in spacer color can affect appearance. Different spacer corner constructions also may be used on the same project. These differences are acceptable under industry standards. In

Figure 1: Typical box spacer IGU edge cross section.



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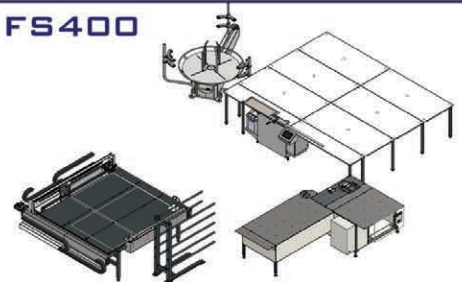
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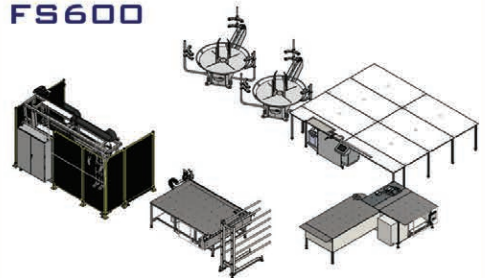
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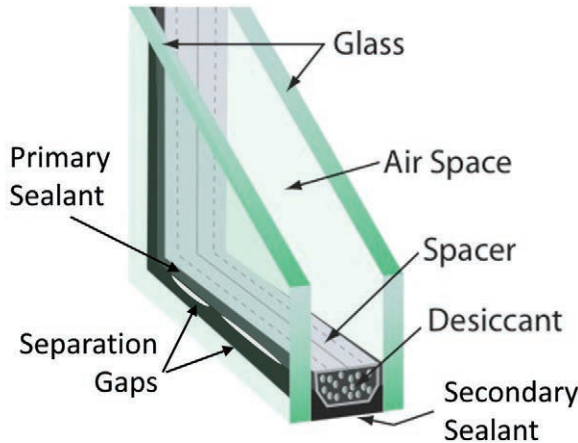
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Figure 2: Separation gaps, overview (left) and detail of separation gaps (right).
Note: drawing is not to scale.



Excerpted from NGA Glass Technical Paper FB27-25 Considerations for the Appearance of Insulating Glass Unit Edge at the Time of Fabrication. For full details, download the complete document for free at glass.org/store.



structural silicone glazing applications, where IGU edges will be exposed to viewing, using a dark colored spacer may help conceal the spacer if the edge sealants do not fully cover it.

Sealants and separation gaps

The primary IGU sealant is usually applied mechanically on each side of the spacer and may extend beyond the IGU sightline into the vision area. The edges of primary sealants may be level with, above or below the top visible spacer surface. These are acceptable variations. Primary sealant infringement within the as-fabricated IGU should not extend more than $\frac{1}{8}$ inch (3.2 mm) past the sightline anywhere along the perimeter. Within 1 inch (25.4 mm) of the corner, the primary sealant infringement may exceed $\frac{1}{8}$ inch (3.2 mm).

Both the primary and secondary sealants should be continuous and without voids. They are often different colors, which helps with quality checks. Selecting a spacer of similar color to the

IGU sealants may minimize objections related to dissimilar colors. Be aware that gray sealant color may not be uniform, which is acceptable under industry standards.

A separation gap is the visible gap between the primary and secondary sealants where the spacer can be seen when viewed straight on. The gap width should not exceed $\frac{1}{16}$ inch (1.6 mm), except within 1 inch (25.4 mm) of the corner. The total gap area should not exceed $\frac{1}{4}$ square inches (40.3 mm²). Any two gaps along an IGU edge should be at least 18 inches (457 mm) apart.

Because the silicone secondary sealant provides structural support in SSG applications, more sealant may be used than in captured units of the same size. This can result in varying sightlines on the same project. IGUs made with the lites intentionally offset may have secondary sealant that covers part or all of the offset edge. A mock-up or small sample is recommended as a visual reference. Discuss this with the IGU fabricator before production.

Edge deletion and other visual effects

Edge deletion is when the coating on glass is removed around the perimeter. Coatings are made of several layers, and removing them can cause changes in color, width and uniformity. It can also affect IGUs with offset edges. The primary sealant color in the deleted area may look different from the coated area. The amount of color difference depends on the coating and the removal method. Even if this difference is visible, it should not be cause for rejection. Viewing mock-ups is strongly recommended.

Edge deletion usually stops within the primary sealant area. It may extend up to $\frac{1}{8}$ inch (3.2 mm) past the sightline, which could make it visible in the vision area. Different manufacturers may require different amounts of edge deletion. Contact the fabricator for details about the spacer system placement and tolerances.

Other variables affecting the apparent color of the IGU edge include glass substrate color, sealant color, glass thickness, applied coatings, silkscreened patterns, use of patterned or etched glass, viewing angle, and lighting conditions. For project-specific applications and concerns, contact the IGU fabricator. ■

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Window of Opportunity for M&A

A measurable increase in activity is anticipated especially for those companies with growth initiatives **BY ANDREW PETRYK**

While the evolving tariff environment has slowed deal flow as investors evaluate the potential implications, the long-term thesis in the housing industry continues to build. The affordable housing crisis in the U.S. must be solved, and for suppliers in the residential building products market, it will serve as a multi-year tailwind as new housing supply and repair and remodel of existing home stock catches up with pent-up demand.

- Initiatives are being implemented to address the existing supply and demand imbalance of new construction, such as mortgage rate buydowns, smaller home sizes, zoning reform and deregulation.
- U.S. housing stock is aging. The typical U.S. home purchased in 2024 reached a record age of 36 years—the oldest median age since 2012, according to Redfin—with nearly 1.7 million more homes expected to reach the prime remodeling ages of 20 to 39 years old by 2027 per data from the S&P Capital IQ. R&R spending levels, albeit projected

to moderate into early next year, are still above historical averages at more than \$500 billion, according to the Harvard Joint Center for Housing Studies, and home equity levels just hit a new high.

- As many watch economic, unemployment and inflation indicators, interest rates are a bit of a wild card as pressure mounts on the Federal Reserve to initiate rate cuts, thereby relieving pressure on mortgage rates and stimulating new construction and R&R activity. In a July 2025 economic forecast, the National Association of Home Builders projected mortgage rates will decline from 6.7% to 5.99% by 2027.

Although tariffs have brought uncertainty in the mergers and acquisitions market, the appetite for high-quality businesses remains strong. A deeper dive into year-to-date building products transaction activity reveals the announcement of several marquee strategic deals in the residential building products market—notably Azek (JamesHardie), Beacon (QXO) and Artisan Design Group (Lowe's)—multibillion dollar deals executed at attractive valuation multiples, underscoring investor optimism in the long-term industry outlook.

To be sure, quality is king in the current environment as fierce competition is driving scarcity premiums for companies that can

demonstrate revenue and margin growth and forward visibility, a healthy mix of new construction and R&R exposure, leading market position, and diverse customer base, among the key value drivers. Pella's acquisition of Weather Shield in July 2025, a company with a history of growth through innovation that deepens its penetration in the premium window and door market, illustrates this theme and demonstrates that quality companies can and are coming to market and commanding significant attention from buyers and lenders.

U.S. private equity dry powder is accumulating faster than it can be deployed as firms navigate a more selective deal environment. Equity capital now tops a record \$1 trillion, which equates to buying power of more than \$2 trillion inclusive of leverage as sponsors tap a robust direct lending market to finance acquisitions. Private equity has a long history of investing in building products companies and a proven track record in the window and door sector with more than 40 businesses currently held in portfolios that have average hold periods reaching or nearing six years—above the typical five-year industry average. The need to return capital to limited partners will lead sponsors to more aggressively pursue exit opportunities. Taken together, private equity is poised to play an increasing role as buyers and sellers in the market, according to PitchBook.

While today there may be more discerning conditions for M&A, with additional clarity on the market, we expect activity to increase measurably, driving down the scarcity premium that quality businesses are garnering today. However, for innovative companies with actionable growth opportunities, there is still good value in the future. ■



Andrew Petryk is a managing director and leads the industrials practice at Brown Gibbons Lang & Company, an independent investment bank serving the middle market.

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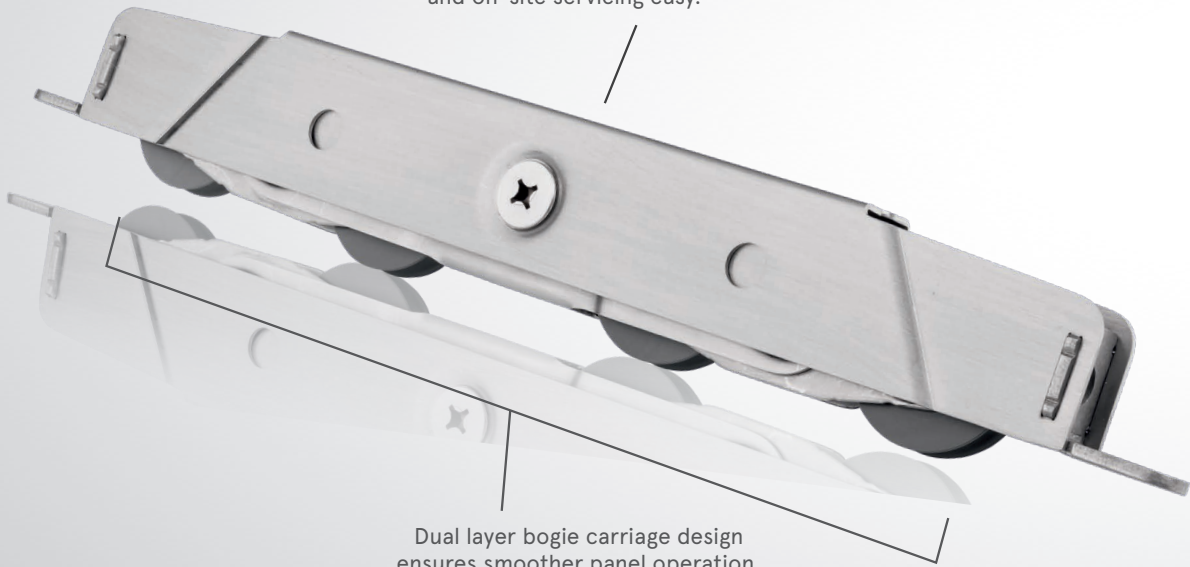
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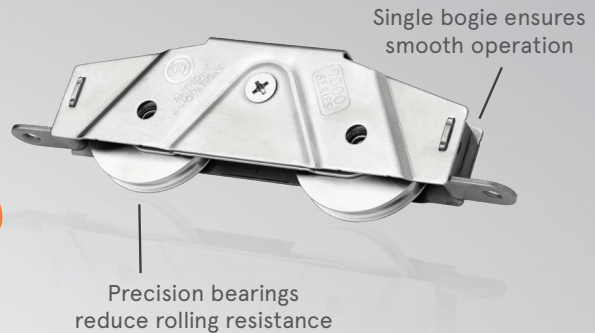
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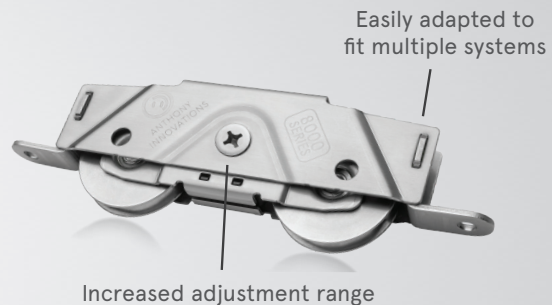
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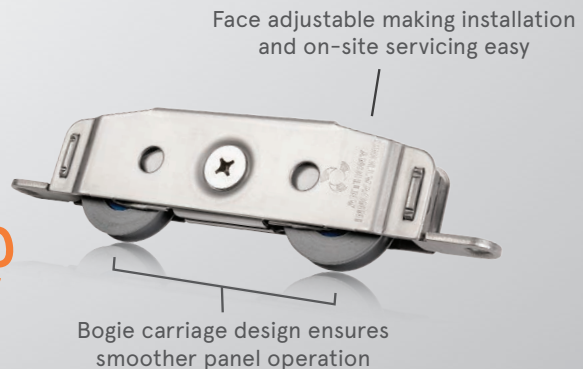
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VIG in Action

Vacuum insulating glass gains traction in the residential market

BY LAURIE COWIN

As companies explore more options for energy-efficient products, some are looking at their glass packages, including vacuum insulating glass, or VIG.

Kolbe Windows & Doors and LuxWall in 2024 announced a partnership in which LuxWall would offer vacuum insulating glass as an option in certain Kolbe products. In September of this year, Kolbe launched the technology into select window and door products.

LuxWall offers two types of VIG: Enthermal, a two-pane tempered glass system with a vacuum space and one low-emissivity coating, and Enthermal Plus, a three-pane tempered system with a vacuum space, two low-e coatings and additional customization options.

The LuxWall plant, located in Ypsilanti, Michigan, encompasses about 215,000 square feet and heavily leans on automation with conveyors, robots and more. Scott Thomsen, co-founder, chairman and CEO of LuxWall, says the automation was an intentional move to help drive VIG costs down as low as possible.

VIG isn't a new technology—its first patents date back to the 1960s—but its

introduction to the residential space is. Thomsen and Kolbe Windows & Doors president Jeff DeLonay cite high energy demands and the consumer looking for efficient options as primary drivers for now being the right time to bring this technology to market.

Practical considerations

Thomsen references commercial retrofits, where glazier partners remove existing glass, install VIG and, even in cases where the frame isn't of high quality, Thomsen says owners report return on investment within three to 10 years. "That's why we started on commercial, but we're seeing a pull earlier than we expected in residential,"



Enthermal and Enthermal Plus vacuum insulating glass offerings by LuxWall Inc. integrated into select Ultra Series and VistaLuxe WD Line window and door products by Kolbe Windows & Doors. Photos courtesy of Kolbe Windows & Doors.

he says. VIG meets considerations of northern and southern climates in that it can keep occupants comfortable through extreme cold temperatures but also meet demands of protecting a home and lowering cooling costs in the southern markets.

The change to VIG was fairly smooth on the assembly side, says John Budzynski, product certification manager, Kolbe Windows & Doors, with most products requiring minimal changes. “Certain products do perform better by their design and in our R&D work, we’re looking at other things to go even further with that ability to design with the IG to make even more performance-enhancing changes.”

The pillars inside a VIG unit are of more concern to homeowners than they are in commercial or institutional settings. The Kolbe team of distributors ensures consumers are aware of the pillars so there are no surprises. Like much of the rest of the technology, however, pillars have advanced. “We’ve had architects spend a good part of the day talking about the glass, handling

NGA’s Glass Technical Paper: Introduction to Vacuum Insulating Glazing

The following is excerpted from NGA’s Glass Technical Paper FB66-20. Download the full paper in the NGA Store.

Vacuum insulating glass provides similar or superior thermal performance to conventional double glazing in the thickness of a single glass lite. The gas in the space between two lites of glass is extracted to create a vacuum, rather than filled with air or argon. The thin profile can be installed in new construction, restoration projects and refrigeration applications.

VIG comprises two glass lites, typically 0.12 inch to 0.23 inch (3 to 6 mm) thick that are hermetically sealed around the edges. The air between the two lites is extracted, either through a small pump-out tube (also known as an evacuation port) or by using a vacuum chamber. The glass lites remain separated by pillars (also called microspacers) approximately 0.005 inch to 0.012 inch (0.15 mm to 0.30 mm) thick. The pillars are made of high strength material such as metal or ceramic and may be arranged in various patterns across the surface of the glass. Examples of patterns are a uniform grid or in a pattern spaced wider in the center of the array and closer together toward the edges. The pillars may be glued in place or held in place by the glass. Once a vacuum is made, the edges (and the pump-out tube if applicable) are sealed to create a permanent vacuum. For units that have a visible pump-out tube, there may be a safety cap placed over the tube for additional durability. Some VIG units may include a getter; a component in the VIG that continually removes residual outgas molecules to help maintain vacuum over time. A getter may be a separate, visible component

or incorporated in another component of the VIG, such as the edge seal.

The pressure of the evacuated cavity is typically on the order of 0.1 pascal to eliminate the conductive and convective heat exchange between the two lites of glass. To reduce radiative heat exchange, a low-emissivity coating can be used on one of the internal surfaces of the VIG, typically surface 2.

Matching flatness on both lites of glass is critical to successful VIG fabrication to keep the array of pillars in place. Keeping the pillars in place prevents the lites from touching to avoid creating a thermal conduction pathway that could reduce the performance of the VIG.

Current VIG market application

New construction. VIG can be installed as a monolithic lite or as part of an insulating glass unit. Hybrid VIG can be used to further reduce U-factor and solar heat gain coefficient. In a hybrid VIG unit, one of the lites of a standard double glazed IGU with air or gas-filled space is replaced with a VIG. Laminated VIG can be used to improve sound control, add protection against impact from wind-borne debris or forced entry, and comply with the requirements of safety glazing. In a laminated VIG unit, one of the lites of a standard double-glazed laminate is replaced with a VIG. In these constructions, the lite added to the VIG may be heat-treated, have a low-e coating, or have other properties that improve the thermal or acoustic performance. Double or triple insulated units using VIG to replace individual glass lites is also possible for future development.

Continued on p. 24

Continued from p. 23

New construction design with VIG offers two distinct benefits compared to traditional glazing:

- **Frame/sash design or weight design:** VIG offers higher energy performance in a significantly thinner profile than typical IGU construction. This benefit allows window and sash designs that are much thinner or lighter weight than typical construction methods using IGUs. The key benefits of a thinner profile product include wall thickness, window thickness, matching existing window extrusion design or to reduce overall glazing component weight.
- **Higher performance for given profile:** By utilizing the VIG either as a standalone product or in a hybrid VIG, manufacturers can exceed the performance values of typical IGU design required by model building codes. VIG can enable compliance with more stringent energy standards such as Passive House, Local Law 97, etc.

Energy Performance. Key drivers for energy performance include pillar array, vacuum level and the addition of low-e or other solar coatings.

- **Pillar array:** The pillar array affects convection and conduction components of heat transfer. The distance between pillars can be increased if thicker glass or heat-treated glass is used. A wider pillar array allows for less heat transfer, so a lower (better) U-factor can be

achieved. However, a wider array must not allow the two lites to touch, which may cause unacceptable glass distortion and be aesthetically unappealing.

- **Glass coating:** The emissivity of the glass coating, along with the placement and number of coatings used drives the energy performance as well. A higher performing low-e can reduce both the SHGC and the U-factor, as they would in a standard IGU.
- **Vacuum level:** Lower pressure reduces heat flow.

Acoustic Performance. Sound waves do not travel through a vacuum, so the VIG design may offer improvements in acoustic performance and a reduction in sound transmission. In general, VIG offers improved sound reduction performance when compared to a single lite with the same thickness as the VIG unit. VIG can be combined with lamination, acoustic PVB and hybrid IGU design to further improve sound attenuation. Refer to VIG fabricator for product-specific acoustic performance.

Shipping. Because VIGs are hermetically sealed with a low vacuum pressure, the shipping and installation altitudes compared to manufacturing location are negligible. As such, VIG can be air freight shipped or installed in high altitude locations without issue. Hybrid VIG/IGU units must be treated the same as standard IGU glazing.

the glass, looking at it and not seeing the pillars; we have to bring it to their attention,” says Budzynski.

To further test the pillar visibility, Kolbe took a window and door to the International Builders’ Show earlier this year and asked people to look at the glass, rather than through it, to see if they could detect the pillars. Even as close as a foot away, most people couldn’t see them. LuxWall’s pillars, for example, are 0.5 millimeter in diameter and quite difficult to see.

Many standard casement windows are 1 ¾ inches thick or 1 ⅝ inches thick, which can limit the thickness of glass. Triple panes, for example, could require a sash about 2 ¼ inches thick. VIG can easily fit into the standard size, which reduces the necessary amount of sash material. “It will work especially well in a double-hung product,” says DeLonay.

Market conditions

Despite some tax incentives for high-performance windows and doors sunsetting, the Kolbe team still believes this is a very sellable product. Kolbe anticipates selling VIG more so than triple pane, in part because it weighs less and carries a higher performance value. It can also go in high-altitude areas without the need to breathe or tube it.

Education is another large part of bringing VIG to market in a larger way. “Even today, when we have our business development people calling on architects, a lot of our architects aren’t aware of what it is,” says DeLonay. “there’s an education process, but once that is overcome, I think you’re going to see a waterfall effect.”

Thomsen sees awareness as one of the top challenges. His conversations have run the gamut of those who are aware of VIG and those that have no idea about it. He says as more projects are completed and more case studies come to light, the better it will be for awareness. “It’s building awareness, proving it really works and it’s easy to install. That’s key right now,” he says. ■



LEARN MORE about VIG and Kolbe and LuxWall’s partnership in a special on-site edition of Window Cast where Katy Devlin, NGA’s vice president of content and programming, talks with Jeff DeLonay, president, Kolbe Windows & Doors; John Budzynski, product certification manager, Kolbe Windows & Doors; and Scott Thomsen, CEO, LuxWall.

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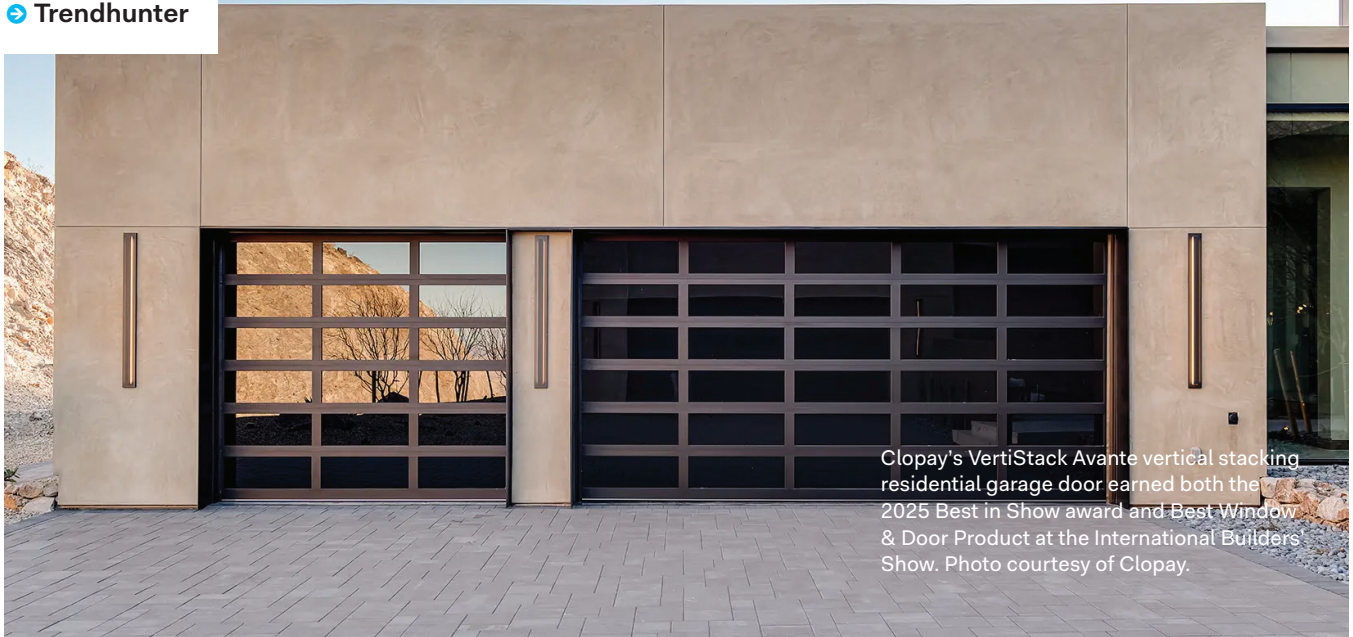
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Garage Door Revolution

Stylish, smart, secure... design and technology merge to elevate the garage door **BY TARA LUKASIK**

Beyond serving as storage for vehicles, holiday decorations, recreational gear and lawn and gardening equipment, a house's garage traditionally served as a "catch-all" space for everything that didn't have a place inside the home. As suburban homes and consumerism grew, so did the role of the garage as something more than a dedicated storage unit. Garages became ideal spaces for hobbies, artistic pursuits, home gyms, game and playrooms, guest suites, "man caves" and "she sheds," as well as a launchpad for innovation—Hewlett-Packard, Apple and Walt Disney's first film studio all famously started their entrepreneurial endeavors in a garage.

With the rise of remote work, many people converted their garages into a dedicated home office away from the distractions of a busy household. The COVID-19 pandemic accelerated garage use from niche ideas into mainstream living solutions.

Garage doors take center stage

Based on their versatility, it's no wonder residential garages have evolved beyond a functional necessity to being a key element of a home's environment and a reflection of a homeowner's style. At this year's International Builders' Show in Las Vegas, garage doors emerged as a prime feature of a home's overall design, harmonizing with the overall aesthetics through a combination of advanced materials, seamless design and thoughtful color and hardware choices.

Entry door manufacturer Novatech and garage door manufacturer Garaga joined efforts on coordinating the style of a home's largest door, the garage door. "It's well past time that there's a way to order both a front door and a garage door that feature a coordinated design that complements the style of the home," says Tony East, vice president of sales and operations, Garaga.

"We anticipate builders and architects serving a sophisticated clientele will

quickly adopt our new approach to door harmonization," adds Robert Latour, vice president of sales at Novatech.

Featured in The New American Home 2025, Clopay's VertiStack Avante vertical stacking residential garage door snagged both the 2025 Best in Show Winner and Best Window & Door Product at IBS, the first full garage door to win the top prize. The judges noted that the VertiStack Avante was a true innovation in a category that has seen limited change over the years. An aluminum and glass garage door that stacks panel sections on the wall above the opening, it features smart film technology that controls natural light and privacy in the garage by switching between clear and opaque glass.

Sleek simplicity

The most notable shift in garage door design is a move toward clean, simple lines. Gone are the overly ornate panels; in their place are sleek, flush or flat panels with uninterrupted lines that create a streamlined appearance that complements modern homes. Large window inserts or full glass panels introduce natural light to the garage interior and modernize the door's appearance.

The logo for athmer, featuring the brand name in white lowercase letters on a red trapezoidal background.A large photograph showing a cross-section of the Schall-Ex GSH-13 drop seal installed in a glass door. The seal is a dark, wedge-shaped component. To the left, white concentric arcs represent sound waves being blocked by the seal. The background shows a modern interior with a wooden floor and a glass door frame.

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Decorative hardware—also embracing the trend toward simplicity—is helping garage doors harmonize with the overall look of the home. Long, sleek strap hinges that give off the appearance of a classic swing-out carriage house door, pull handles, ring pulls and faux latches, corner brackets, decorative plates and window grilles all give the garage door new life befitting its status as the largest opening in a home's structure. Wrought iron hardware that looks hand-forged is especially popular right now, as well as powder-coated steel in matte black, oil-rubbed bronze, antique brass and brushed steel finishes.

Playing with color

While neutral colors like white, beige and gray remain popular, homeowners are embracing bold colors and unique finishes. Dark, moody shades like charcoal gray, matte black, espresso brown and even deep navy offer a

modern aesthetic that stands out against neutral exteriors without overwhelming. And natural faux wood-look finishes, such as warm cedar, dark walnut, natural oak, carbon oak, driftwood and modern woodgrains, on steel doors are especially popular.

Materials matter

When it comes to modern garage door offerings, durability has met energy efficiency. Insulated garage doors are increasingly sought after for the energy efficiency benefits they provide such as temperature control and noise reduction.

Homeowners are also choosing materials to balance durability, maintenance and aesthetics. Steel is the perennial favorite thanks to its strength, low upkeep and versatility in both finishes and insulation options. Faux wood and composite materials are a close second in terms of popularity for

getting the rich look of wood without the warping, rot or staining. And finally, the mixed duo of aluminum and glass is gaining traction for contemporary garage doors as they bring in natural light with an updated, modern vibe.

Getting smart

Smart home technology continues to revolutionize everyday living. Some systems now feature biometric access such as fingerprint scanners, palm vein smart locks and AI-powered security cameras that monitor activity and alert you to anything unusual. And while most smart garage door technology is designed to be discreetly installed on the interior of the garage, there's a growing trend of these smart features appearing on the external side of the garage door, integrated with the exterior hardware, including sensors built into hardware and integrated cameras and LED lighting. ■



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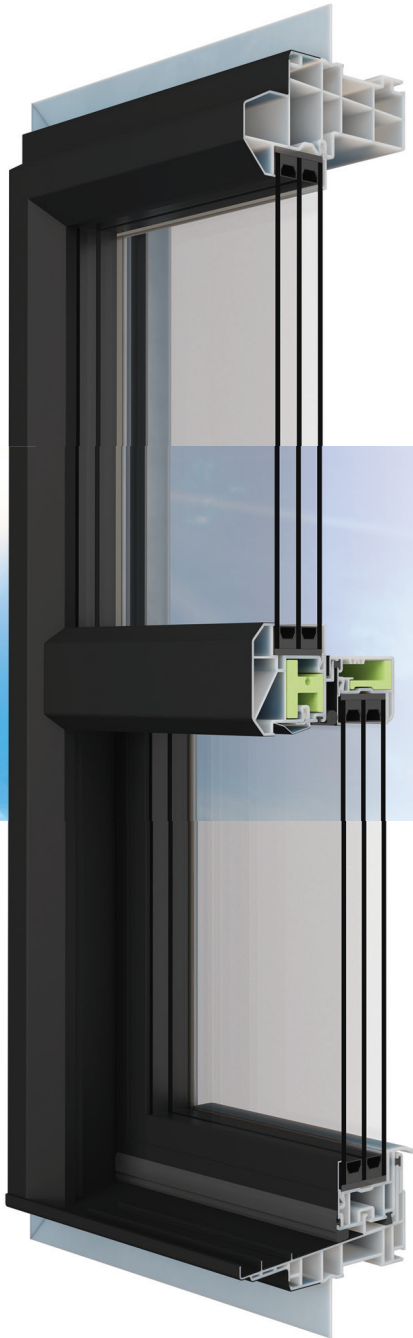
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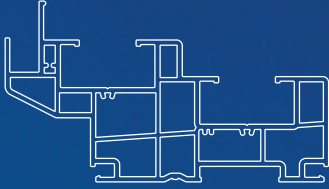
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Innovative Solutions Shaping the Future

How energy efficiency, smart technology and evolving design demands are transforming North America's window and door industry **BY TARA LUKASIK**

Homeowners' increasing demands for energy efficiency, modern aesthetics and smart home integration are driving transformative shifts in the residential window and door market. Manufacturers like Roto North America are responding to the rising popularity of larger, brighter openings with expansive windows and doors, contemporary color schemes emphasizing sleek finishes like black, and sophisticated home automation features that enhance security and accessibility by innovating hardware that balances durability, performance and affordability—incorporating advanced sealing technologies, multi-point locking systems and automated functions.

Window + Door sat down with Dan Gray, director of sales, Roto Frank North America, to discuss how they are meeting these trends head-on and how a strong North American manufacturing presence, strategic use of digital tools and commitment to sustainability

through AI-driven processes have positioned the company to lead through industry consolidation and evolving market needs.

MONITORING MACROTRENDS

Window + Door: What are the most significant residential market trends you are seeing right now?

Dan Gray: Energy efficiency continues to be a significant residential trend in the market, as homeowners prioritize sustainability and cost savings. Broader sight lines are also in demand, with open layouts and expansive windows creating brighter, more spacious living environments. Contemporary color schemes, especially black, are also gaining traction for their sleek, modern appeal. Additionally, integrated home automation is a highly sought-after

Roto North America showcased a new line of black hardware, weatherseals and casement line at GlassBuild 2024 in Dallas, Texas.

feature, offering enhanced accessibility and security.

WD: How are these trends shaping expectations for windows and doors?

DG: The growing emphasis on trends such as energy efficiency is driving demand for windows and doors with enhanced sealing, insulation and locking mechanisms that contribute to overall thermal performance. As preferences shift toward larger windows and doors, there's also an increasing need for robust hardware solutions that can support the added weight and dimensions without compromising functionality or aesthetics. The rise of smart home integration has also elevated expectations for connected features, such as automated locking systems, sensors and remote operation capabilities.

WD: Are you seeing notable differences in market trends or customer demands between different regions in North America?

DG: There are some notable differences in marketing trends across the region, such as the southern regions. In the Southeast, there's a strong emphasis on impact-rated products, while the Southwest is seeing a growing interest in pivot doors, reflecting a preference for bold architectural statements and modern design. While energy efficiency is a nationwide priority, it's especially critical in northern states, where insulation and thermal performance play a larger role.

RESPONDING TO INNOVATION

WD: How does Roto use market feedback and data to inform the

development of new hardware solutions?

DG: Our sales team actively monitors evolving customer needs and industry shifts, then collaborates with our research and development department to translate those insights into targeted product innovations. A recent example is the DuoTilt sash lock for hung windows, which combines the lock and latch into a single, compact mechanism. This design responds to growing demand for streamlined aesthetics and enhanced durability, delivering a solution that aligns with both functional and visual expectations in the market.

WD: With a growing focus on sustainability, how do Roto's hardware solutions contribute to the energy efficiency of a window or door system?

DG: Roto's hardware solutions contribute to the energy efficiency of window and door systems by optimizing sealing performance and material selection. Through continuous testing and engineering refinement, we ensure our components deliver airtight closure without compromising ease of operation. We also incorporate recycled materials that are rigorously strength and durability tested to match the performance of raw materials. One example is the use of ball bearings in locking cams, which reduce friction and improve mechanical efficiency, helping maintain consistent sealing pressure and energy performance over time.

WD: How are Roto's hardware systems designed to meet increasing demands for home security?

DG: Roto's hardware systems are engineered to meet growing demands for home security through multi-level protection and advanced locking technologies. Our European hardware features three integrated levels of security, rigorously tested to ensure compliance with evolving standards.

These systems include high-strength components such as hooks, bolts and multi-point locking configurations designed to resist forced entry and enhance overall safety.

In response to rising interest in North America, we've expanded our security offerings to include features like casement corner drives and mushroom head cams on lock bars for enhanced resistance and reliability in residential applications. Across both regions, we continue to see increased demand for multi-point locking systems.

WD: How is Roto incorporating smart technology and automation into its product portfolio?

DG: Roto has advanced our smart technology and automation through in-house innovation and strategic partnerships. Internally, our engineering team developed automatic multipoint locking systems that enable easy, secure access via Bluetooth, PIN, fingerprint and touch activation. We also introduced a motorized tilt function for our inward-tilting window hardware, allowing it to tilt 4 inches into the dwelling with full automation of unlocking, opening, closing and locking. Through our partnership with Autoslide, we've integrated automated opening and closing for sliding and swing doors—optimizing performance for heavy-duty applications, accessibility and pet access.

WD: How does your local manufacturing strategy in the U.S. and Canada give you an advantage in addressing the specific needs of this market?

DG: Having a significant presence in North America allows us to respond faster to customers' needs. As batch sizes continue to shrink and demand patterns become increasingly volatile, supply through offshore channels presents significant challenges. By contrast, our localized, shorter supply chains leave us less vulnerable to global

disruptions, ensuring more consistent and reliable delivery.

LOOKING FORWARD

WD: What do you see as the next major trend in the residential window and door market, and how is Roto preparing to address it?

DG: The next major trend in the residential window and door market isn't product-specific—it's structural. We're seeing continued consolidation across the fenestration industry, with fewer players dominating a growing share of the market. Roto is well-positioned to navigate and capitalize on this shift, thanks to our strong relationships with existing customers and our ability to support evolving business models. As the industry landscape becomes more concentrated, our focus remains on delivering scalable solutions and strategic partnerships that align with our customers' long-term growth.

WD: How is Roto using digital tools to support architects, fabricators and other partners in the industry?

DG: Roto is actively investing in digital solutions to enhance collaboration and streamline workflows across the industry. In European markets, we've launched a new customer portal designed to provide more flexible, efficient interactions between customers and suppliers outside of standard business hours. We're excited to bring a similar platform to North America within the next six months for more efficient customer support applications and ordering capabilities. ■

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SQUARE FOOTAGE

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INTERNATIONAL EXHIBITORS

163

FIRST-TIME EXHIBITORS

114

BY NORAH DICK AND LAURIE COWIN

GlassBuild America: The Glass, Window & Door Expo, the biggest glass industry trade show in North America, will welcome 571 exhibitors Nov. 4-6 in Orlando, Florida, this year. Housed in the South-North Exhibit halls of the Orange County Convention Center, visitors will be able to peruse hundreds of products in over 230,000 square feet of space.



A NEW LOCATION FOR GLASSBUILD, AND A NEW PRESIDENT AND CEO FOR THE NATIONAL GLASS ASSOCIATION

As exhibitors and attendees gear up for the new location in Orlando, Lakisha A. Woods, CAE, the new president and CEO of the National Glass Association, is also looking forward to seeing her first GlassBuild. “I’m really eager to get my feet on the ground, walk the aisles and meet our customers and attendees and hear what they think,” says Woods in an interview with Katy Devlin, vice president of content and programming for the NGA.

Other industry leaders are looking to leverage the new location to find a new market or to connect with existing customers more easily.

“The Florida market is massive, and I’m looking forward to meeting local companies that haven’t made the traditional pilgrimage to Atlanta or Vegas,” says Andrew Haring, chief marketing officer, Frameless Hardware Co.

“Hosting GlassBuild in Orlando this year is a great opportunity to gain new perspectives from East Coast customers,” says Crista Tekstra, vice president of marketing, CRL. “GlassBuild is all about the people. We love to make new connections and meet old friends. We also learn a lot, always finding new ways to better service our customers.”

“We are really looking forward to another fresh atmosphere for the show,” says David Harris, product manager, American Renolit.

“It’s energizing to be part of an event where the full value chain—from material suppliers to finished product manufacturers—come together to exchange ideas and drive the industry forward,” says Derek Fielding, vice president of strategic marketing and business development, ODL Inc.

Tariffs create uncertain economic environment

Ahead of the show, leading fenestration companies named uncertainty in the economic landscape as a major challenge for the larger industry.

“One of the biggest challenges in the overall market remains the uncertainty everyone is experiencing. Lots of things are pulling on consumer confidence and that leads to more uncertainty,” says American Renolit’s Harris.

Mike Biffel, vice president of sales and marketing for Sturtz Machinery Inc., says that uncertainty around costs, direct and indirect, has caused challenges across many industries, at least partly due to the tariffs implemented this year, which “has an impact on window fabricators’ ability to plan accurately for costs of raw materials, equipment and general facilities requirements. This has slowed investments and stalled projects while companies waited for some level of certainty for at least the next year.”

“The last couple of years have been a challenge with interest rates,



MONDAY, NOV. 3

9:00 A.M. - 5:00 P.M.
Registration Desk Open

TUESDAY, NOV. 4

7:00 A.M. - 5:00 P.M.
Registration Desk Open

8:00 A.M. - 9:00 A.M.
NGA Installing Committee Meeting

9:30 A.M. - 5:00 P.M.
Glazing Executives Forum (separate registration required)

10:00 A.M. - 5:00 P.M.
Exhibit Hall Open

10:00 A.M. - 5:00 P.M.
Main Stage & Podcast Stage

10:00 A.M. - 11:15 A.M.
Blueprint for Collaboration Breakfast: Celebrate the 2025 Glass Magazine Awards

11:30 A.M. - 12:30 P.M.

Kickoff Panel: Protect with Glass

1:30 P.M. - 2:00 P.M.
The Code Changes Shaping the Built Environment

2:15 P.M. - 3:15 P.M.
High-Performance Façade Panel

3:20 P.M. - 3:50 P.M.
Keynote: Construction Forecast

4:00 P.M. - 4:45 P.M.
Profit First for Contractors: Cash Management System

4:15 P.M. - 5:00 P.M.
Members Only Happy Hour

WEDNESDAY, NOV. 5

9:00 A.M. - 5:00 P.M.
Registration Desk Open

10:00 A.M. - 5:00 P.M.
Exhibit Hall Open

10:00 A.M. - 5:00 P.M.
Main Stage & Podcast Stage

10:00 A.M. - 10:30 A.M.
Family Business Breakfast

10:30 A.M. - 11:00 A.M.
Exit Planning and Succession at Family Businesses

11:30 A.M. - 12:30 P.M.
Innovative Strategies to Mitigate Impacts from Supply Chain Disruptions

1:30 P.M. - 2:00 P.M.
What's Trending in Glass Fabrication

3:00 P.M. - 3:45 P.M.
Best in Show Awards

3:30 P.M. - 4:10 P.M.

Window & Door Industry Update

4:15 P.M. - 4:45 P.M.
Field Testing for Water Penetration in Fenestration Systems

THURSDAY, NOV. 6

8:30 A.M. - 1:30 P.M.
Registration Desk Open

9:00 A.M. - 1:00 P.M.
Exhibit Hall Open

9:00 A.M. - 1:00 P.M.
Main Stage & Podcast Stage

9:00 A.M. - 12:00 P.M.
Women in Glass & Fenestration

1:00 P.M. - 2:30 P.M.
GlassBuild-in-the-Fast-Lane After-Party

rising costs and a general feeling of uncertainty leading to a flat housing market,” says Steve Lang, executive vice president and CFO, GED Integrated Solutions. However, he does see improvement on the horizon. “With tariffs beginning to be resolved, prospects of future interest rate reductions, along with the recently passed One Big Beautiful Bill Act, we see some rising optimism in the industry. The opportunity to immediately deduct your CapEx purchase for tax purposes should help motivate the industry to continue to invest in their production capabilities.”

Manufacturers continue to automate

Many industry leaders say they see a continued trend toward automation in fenestration manufacturing, for a variety of reasons.

Marco Patermann of Continental says that an uptick in retrofit is partly driving

demand for automated solutions. “A lot of the windows installed in the 1970s and 1980s are now up for replacement and thus there is a need again for more architectural shapes, especially in the replacement market,” he says. “We’ve noticed a trend in automatization for the manufacturing of architectural shaped windows, as the demand for fully automatic profile bending equipment is increasing.”

Lack of labor also continues to increase adoption of automation, says Sturtz’s Biffl. “An unstable workforce in many parts of the country has led to more window manufacturers seeking ways to maintain or grow production without increasing head count,” he says. “Moving away from old, manual equipment to the latest technology and automation is how many companies are dealing with the current labor market.”

Speaking to fenestration solutions, ODL’s Fielding says that they’ve seen increased demand for

multifunctionality. “One of the biggest shifts we’re seeing is a growing expectation that products must perform well on multiple fronts,” he says. “It’s not enough to deliver in just one category. Whether it’s energy efficiency, privacy, code compliance, aesthetics or ease of use, buyers are looking for solutions that do more without compromise.”

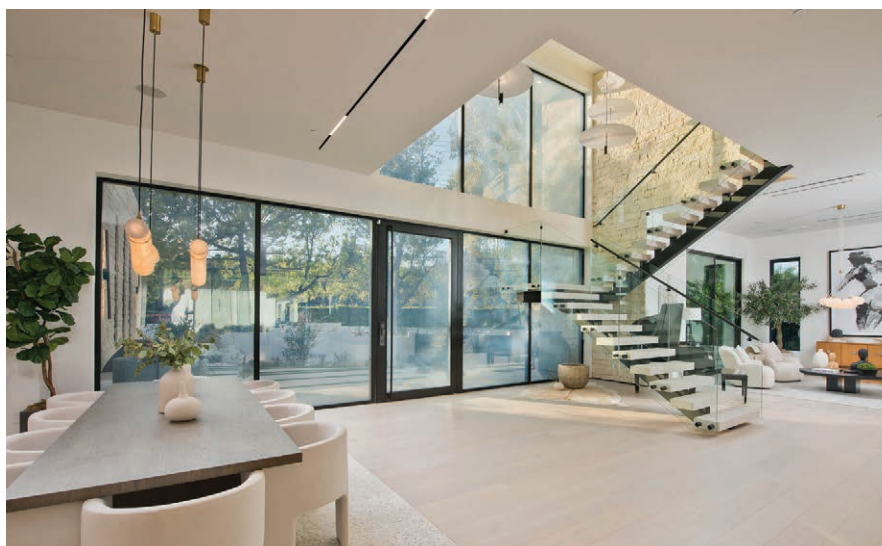
Carrie Scheetz of Quanex also says that energy efficiency continues to shape fenestration trends. “Energy efficiency is still on top of the list with building codes pushing for more sustainable construction. Triple-pane insulating glass and thin-glass triples are still at the forefront.”

INNOVATION FROM EVERY ANGLE

Beyond finding solutions on the show floor, attendees and exhibitors can once again enjoy insights for every segment of the industry at GlassBuild. From Main Stage programming and



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– CARRIE E. SCHEETZ, MARKETING MANAGER, QUANEX

podcast interviews to a hands-on skills challenge, GlassBuild 2025 is the place to find new ideas for your business.

Get educated at the Main Stage

The GlassBuild America Main Stage will host three days of industry insights, networking and industry celebration, conveniently located on the show floor at Booth #27108. 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 window and door manufacturers, fabricators, suppliers, architects, and more.

Preview some standout sessions below and check out the full schedule on glassbuildamerica.com for up-to-date programming.

Blueprint for Collaboration Breakfast: Celebrate the 2025 Glass Magazine Awards | Nov. 4

All are welcome to celebrate the 2025 Glass Magazine Award winners during a breakfast and award presentation at the GlassBuild Main Stage. As part of the Blueprint for Collaboration program for architects, the presentation will offer insights on the projects and products that push the envelope of what glass and glazing can do.

Industry Forecast | Nov. 4

Get expert insights on market trends and economic outlooks from Connor Lokar of ITR Economics.

People + Profits | Nov. 4–5

Learn how to build safer, more profitable businesses with actionable strategies tailored to today’s challenges.

Family Business Breakfast | Nov. 5

Family businesses come together for

a networking breakfast followed by a special Main Stage session about exit planning and succession in family-run companies from experts at Beacon Exit Planning.

Window & Door Industry Update | Nov. 5

Join Chris Beard of John Burns Research and Consulting for a deep dive into the current conditions and temperature of the window and door market. Featuring data from the Window & Door Market Survey, an exclusive partnership with JBREC and Window + Door and the NGA, Beard will share current market conditions, analyze year-over-year data and trends, and share where the residential fenestration industry has been and where it’s likely to go.

Women in Glass + Fenestration | Nov. 6

A powerful morning of mentorship, networking and inspiration hosted by Stefanie Couch of Grit Blueprint, featuring breakfast, speakers and facilitated networking focused on mentorship and building connections. The event is open to all.

Test your skills on the show floor

Attendees will have the opportunity to participate in the IG Fabrication Challenge, hosted by the Fenestration and Glazing Industry Alliance. Modeled after the IG Fabricators Workshop, which addresses best practices for fabricating and testing insulating glass units, the challenge will focus on ensuring proper sealant mix and identifying flaws in insulating glass units. Attendees will be eligible to win a Free Fundamentals of Insulating Glass online education package.

Window Cast and Glass Cast host sessions on the LIVE! At GlassBuild: Podcast Stage

The official podcasts of GlassBuild, Window Cast and Glass Cast will again record live from the show floor on the LIVE! At GlassBuild: Podcast Stage. 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.

Discover solutions at the Industry Pavilion

GlassBuild association sponsors, the National Glass Association and the Fenestration and Glazing Industry Alliance, will offer solutions members need at the Industry Pavilion, Booth #27096.

Visitors can ask NGA staff about its advocacy efforts and technical knowledge and resources. Booth visitors can also find insights on NGA’s industry-specific education opportunities for the current and future workforce through MyGlassClass.com—a collection of three different training paths for glass installers, fabricator personnel and glazier apprentices.

FGIA returns as association sponsor of this year’s GlassBuild, joining NGA in the Industry Pavilion. This year, FGIA will also participate in the new GlassBuild Skills Challenge. Their technical experts will test participants’ knowledge to help them offer better installations and insulating glass products.

FINISH IN THE FAST LANE AT THE GLASSBUILD AFTER-PARTY

After walking the show floor, finding leads, scoping out solutions and attending learning sessions, GlassBuild welcomes exhibitors and attendees alike to finish the race at the “GlassBuild-in-the-Fast-Lane” After-Party as the show accelerates toward a return to Las Vegas in 2026. Food, drinks and fun will be on hand for this gathering at the end of the third day of the show. Registration is required, and ticket proceeds go to the NGA Foundation. ■



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- 42. WINDOW AND DOOR SYSTEMS + DESIGN
- 48. MACHINERY + EQUIPMENT
- 62. HARDWARE, COMPONENTS + SEALANTS
- 72. SOFTWARE, TOOLS + SERVICES

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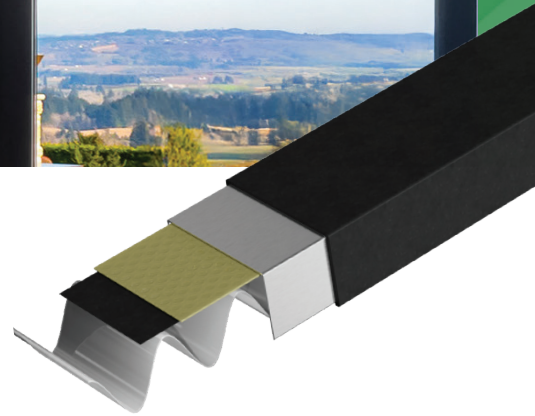
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01



NEW



NEW



03

01. Cortizo

The Cor 80 hidden sash is concealed behind the frame, maximizing the glazed surface and daylight. It features 1 ¾-inch thermal break and a glazing capacity of up to 2 inches that allows the installation of triple glazing. Maximum sash dimensions are 4 feet, 3 inches long and 7 feet, 10 inches high, with a maximum sash weight of 353 pounds. Side-hung, tilt & turn, parallel sliding and bottom-hung options are available. Booth #27032
 +(34) 6827-5402-6, CORTIZO.COM

02. Cypress Windows and Doors

The Moralt Ferro range of external door blanks for exterior timber doors have a 10-year guarantee against bowing and are CE marked (EN14351-1) with acoustic, security and fire resistance and all corresponding certifications. Ferro is also Passivhaus certified, with 98-millimeter-thick cores. The Moralt Laminasse interior door blanks have comprehensive certification in a wide range of criteria for high-quality internal doors in commercial and residential projects. They feature fire and smoke resistance, high acoustic insulation, burglary resistance, and more. Booth #4041
 917/280-5610, CYPRESSWD.COM

03. Deceuninck North America

Eclipse by Deceuninck North America is an all-new black solid color PVC extrusion for windows and doors. It offers 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. Vented profiles are designed to further moderate temperature. Booth #24047
 877/563-4251, DECEUNINCKNA.COM



04. ES

The ES-SGD2020 is an impact-rated sliding glass door crafted for expansive views with minimal aluminum. Its sleek profile, multiple track options and clean sightlines deliver a refined aesthetic without compromising strength. With hurricane resistance and 90-degree corner configurations, it's designed for both beauty and resilience, making it the ultimate choice for high-end projects that demand design-forward luxury. Booth #4006

754/900-2300, ESWINDOWS.COM

05. Guardian Glass

This year at GlassBuild, Guardian Glass is unveiling the newest addition to its SunGuard triple-silver product family: SunGuard SNX 60+. SNX 60+ delivers a high light-to-solar gain ratio of 2.4, offering a neutral color that holds true at every angle. Color consistency is often overlooked, but it can make a significant visual impact across the façade. This next-generation coating also brings a strong solar heat gain of 0.25 with balanced 60% visible light transmission. Booth #19051

248/340-1800, GUARDIANGLASS.COM



06. Klein USA

Extendo is a high-end telescopic sliding glass door system designed to deliver the most elegant, fluid and space-optimizing opening experience. Its synchronized mechanism enables the simultaneous movement of two to four frameless glass panels. Crafted from anodized aluminum, Extendo is available in refined black or silver finishes. The system is engineered for ceiling-mounted applications and has no visible floor track. Booth #4028

+(34) 9357-0108, KLEIN.PRO/EN-US

03



01



02



01. Linea Rossa

The GLR51 pivot door from the Grande Linea Rossa Series is designed for modern architecture, accommodating large openings while maintaining design integrity. Featuring a concealed pivot hinge, it ensures smooth, stable operation and structural strength even with oversized panels. The series offers extensive customization with various materials and finishes, allowing seamless integration into high-end designs. At Linea Rossa, durability meets refined aesthetics, combining advanced engineering with elegant design for superior performance. Booth #24013

305/815-8797, LINEAROSSADESIGN.COM

02. ODL Inc.

Blinds + Glass XL by ODL is an enclosed blinds solution designed specifically for oversized sliding and folding patio doors and large windows. With coverage up to 28 square feet, it's ideal for residential or light commercial applications where safety, light control and privacy must work together. Available in sizes from 9 to 63 inches wide by 46 to 90 inches high, the system's advanced EasyGlide operator uses a constant spring force mechanism to deliver effortless raise/lower/tilt control, regardless of size. Booth #18021

800/253-3900, ODL.COM

03. Panda Windows & Doors

The Voyage Collection is a fully custom line of luxury pivot doors that blend bold design with cutting-edge performance. Each door is handcrafted to order and manufactured up to 24 feet tall. Optional features include integrated LED lighting, biometric smart locks and automated drop seals. HVHZ-approved for Florida, these doors offer exceptional durability, energy efficiency and hurricane-rated protection. Booth #6015

702/643-5700, PANDA-WINDOWS.COM

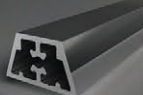


ASSEMBLY SYSTEM

PATENT 11795757

PROFILES

GR1



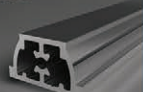
.875" WIDE X .500 TALL

GR2



.875" WIDE X .500 TALL

GR3



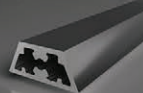
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GR4



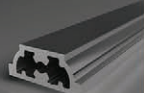
.875" WIDE X .500 TALL

GR5



.875" WIDE X .375 TALL

GR6



.875" WIDE X .375 TALL

GR7



.875" WIDE X .375 TALL

GR8



.875" WIDE X .375 TALL

FRAMES

FS-025

.625" WIDE X .531 TALL

FS-026

.781" WIDE X .531 TALL

FS-027

1.250" WIDE X .531 TALL

FS-028

.781" WIDE X 1.250 TALL

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01



02



03



04

01. PH Tech Inc.

Celesta is a premium multi-track patio door designed for high-end residential and commercial use across North America. Its sleek, modern design supports three to six sashes on a flexible three-track system, spanning up to 23 feet wide with openings up to 14 feet. Featuring smooth, effortless operation with double roller tracks and patented nylon tandem wheels, it ensures a seamless transition and minimal floor space usage. The robust profile offers superior thermal performance, durability and water drainage. Optional stainless steel housing suits coastal environments. Booth #24041 418/376-6355, PHTECH.CA

02. UNI-K

UNI-K specializes in aluminum and glass systems for windows and doors, offering a wide range of colors and fully customizable designs. Our products are energy-efficient, non-impact and hurricane-impact resistant, meeting American design and quality standards. As pioneers in innovation, we deliver durable, high-performance solutions suitable for all architectural styles and climates. Trusted by architects and builders, Uni-K provides comprehensive door and window systems that combine quality, value and advanced technology for any project. Booth #25037 305/420-6910, UNIK-WINDOWS.COM

03. Veka

Veka North America expands on its Ecolutions platform as the first window and door system available with its Obsidian black vinyl formulation. Designed to meet rising demand for modern, all-black systems, Ecolutions delivers a black-on-black finish with durability, thermal efficiency and streamlined fabrication. Featuring a 1 1/8-inch glazing pocket for triple-pane insulating glass units, it's ideal for new construction, replacement and light commercial applications. Booth #17049 724/452-1000, VEKAINC.COM

04. YY Windows Pty Ltd.

This fixed and casement window solution hybrid design combines the expansive, panoramic clarity of a fixed picture window with the ventilation and easy operation of a side-hinged casement. Features include multi-point locking systems integrated into the casement frame, multi-chambered profiles and drainage systems within the frame. Efficient attributes include advanced thermal break technology in the frame and the option of dual or triple glazing with low-emissivity coatings and argon gas fill. Booth #28174 +(86) 1891-6167-099, YYWINDOW.COM

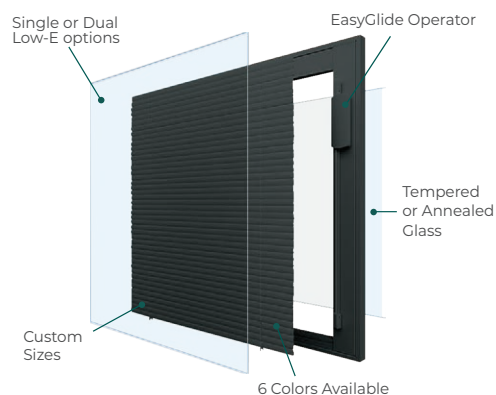


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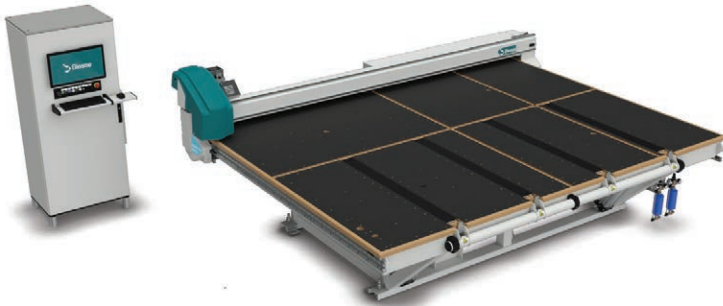
COLOR OPTIONS



See us at GlassBuild America, booth 18021.

NEW

01



NEW

02

**01. Biesse**

The InterMac Cut Go M O RS is a high-performance glass cutting center with intelligent automation and mechanical precision designed for float, laminated and patterned glass up to 661 pounds and over 98 inches high, for architectural and industrial use. It features pneumatically driven tilting arms for easy loading, cuts at 200 meters per minute with 1G acceleration, and includes a 360-degree rotating C-axis for complex shapes. The precision table with air cushion, electronic pressure adjustment and optical reader ensure accurate, clean cuts. Booth #16061

704/357-3131, BIESSE.COM

02. CRL

The DRX Modular Door Rail System kit includes all components for on-site installation of one glass door rail under 48 inches for $\frac{3}{8}$ -inch to $\frac{3}{4}$ -inch glass. The DRX kits contain two 10 $\frac{1}{2}$ -inch rail bodies, adjustable slide block, two end caps, two 48-inch side covers (cut to length), and an 8-foot gasket. The system is available in satin anodized, duranodic bronze, matte black and brushed stainless steel finishes. New modular headers for single and double doors, compatible with DRX kits, are also available and can be cut to the desired length and installed on-site. Booth #11049

800/421-6144, CRLAURENCE.COM

03. Diamon-Fusion International

The FuseCube Edge is Diamon-Fusion International's latest iteration of its glass protectant coating machine, engineered to apply high-quality DiamonFusion protective coatings to glass surfaces. It is engineered to be efficient and convenient, integrating the speed and multi-cycle cartridge system of the popular FuseCube Express. Featuring a bold, new configuration, glass fabricators can apply Diamon-Fusion protective coating onto both sides of oversized lies on the long edge. This new design approach ensures easy handling, fast loading and streamlined production flows. Booth #12084

949/529-3027, DFISOLUTIONS.COM



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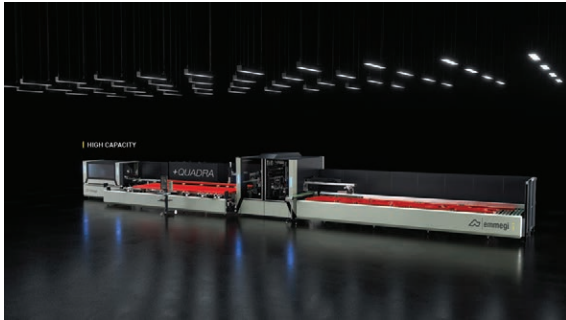
RoboFlow™ Pass Through



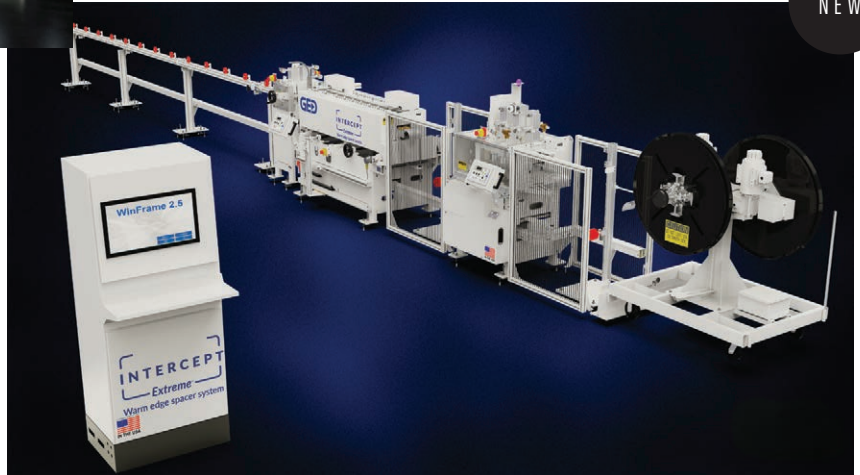
CleanCut™ Series



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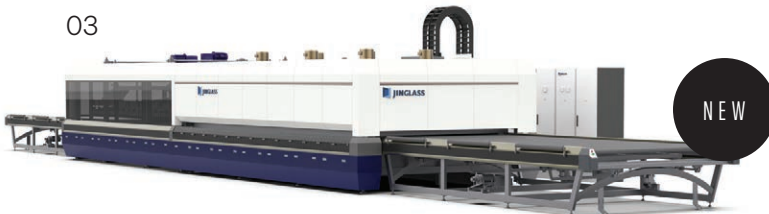


01



NEW

02



03

NEW

01. Emmegi USA Inc.

+Quadra is a machining center with up to 20 CNC axes designed to perform cutting, milling and drilling operations, including head and tail, on aluminum and light alloy profiles. The line includes an automatic feeding magazine. It contains the units for cutting and machining, then an extraction system deposits the finished pieces on an accumulation magazine. The 4-axis NC milling module includes from four to eight electrospindles on a rotary base to machine all the faces of the profile, regardless of its orientation. Booth #24112

201/935-0200, EMMEGI.COM

02. GED Integrated Solutions Inc.

Building on the Intercept Spacer platform, Intercept Extreme elevates insulating glass technology with next-generation thermal break technology and precision engineering. It offers resistance to temperature fluctuations, enhanced structural integrity and durable warm-edge performance for lower U-values and better insulation. Ideal for residential and semi-commercial use, Intercept Extreme maximizes energy efficiency, delivers energy savings and performance, ensures reliable performance, and streamlines insulating glass unit production, without compromising on reliability or ease of fabrication. Booth #24061

440/600-8605, GEDUSA.COM

03. Hangzhou Jinggong Machinery Co.

The Jingglass UD Series Mid-Infrared Matrix Box-Type Convection Furnace was first introduced to the global glass tempering market in 2013, revolutionizing high-performance low-emissivity glass tempering with its cutting-edge technology. Combining mid-infrared heating with advanced convection systems, the UD Series quickly established itself as one of the most efficient and reliable solutions for producing high-quality, tempered, low-emissivity glass, meeting the stringent demands of modern architectural and automotive applications. Booth #29175

+(86) 5718-8777-108, JINGGLASS.COM

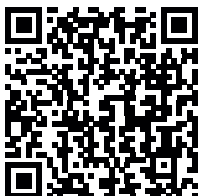
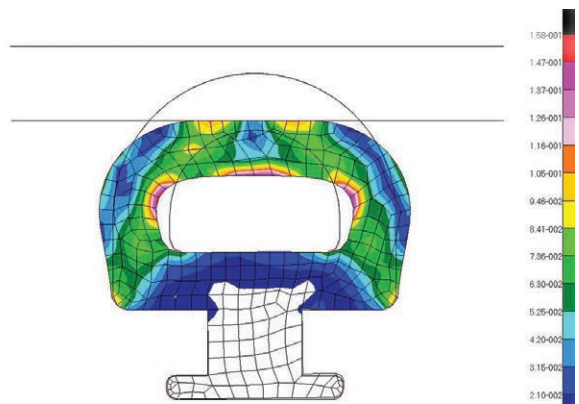
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01



02



03



01. HHH Equipment Resources

The E-D 101 vertical machining center from Skill Glass is an eight-axis CNC machine for precise drilling, milling, grinding and polishing of glass. Featuring a twin-head system, it processes glass simultaneously for efficient one-step finishing. With vibration-free operation, heavy-duty high-speed electro spindles, and an automatic double tool changer holding 20 tools, it handles large glass sheets with ease. The E-D 101 offers advanced technology, minimal maintenance, long service life and U.S.-based technical support, ideal for residential, architectural and commercial glass applications. Booth #22061

800/234-1982, SALEMFTG.COM

02. Lattuada North America

Lattuada will exhibit its fully automatic model TLR 11 AV C PC H85 11-wheel mitring machine, equipped with several features. One feature is a fully automatic A-WR wheel adjustment system that ensures optimal positioning of diamond and resin wheels with 0.01 millimeter precision without the need for test glass. The machine also comes equipped with an i-AL package, an intelligent automation suite that automatically sets all processing parameters based on the selected glass thickness. Booth #24075

567/249-4486, LATTUADA-NA.COM

03. Liaoning Alger Building Material Industrial Co.

The vertical insulating glass production line is a fully automated, high-efficiency system for insulating glass unit manufacturing. It completes the processing cycle in 35 seconds, featuring dual-motor washing, 22-kilo-watt high-pressure air knives and greater than 95% argon gas filling. It supports various glass sizes (300 by 450 millimeters to 2,000 by 3,000 mm) and thicknesses (15 to 60 mm, customizable to 75 mm). With speeds up to 45 meters per minute, it's ideal for energy-efficient windows, curtain walls, specialty insulating, and acoustic and security glass. Booth #29163

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01



02



03

**01. Mecal USA**

The MC316 Swing automated cutting and machining line and fab center is an advanced multi-axis machining center designed for high-precision processing of complex profiles, ideal for the window and door industry. It features a loading table, a six-spindle milling unit, vertical and horizontal cutting blades, and an unloading section, enabling complete production on a single machine. With modern automation and versatile design, it ensures efficient, continuous operation. Integrated 3D software supports programming through cutting/machining lists and 3D file imports. Booth #5091

574/520-1871, MECALUSA.COM

02. OZ Machine

Gemini-VR is a three-axis, servo-controlled, double-head cutting machine with 22-inch saw blades, ideal for cutting aluminum and PVC profiles at angles from -22.5 to 45 degrees. It offers rapid head positioning, minimum cutting lengths of 19 inches (90 degrees) and 28 inches (45 degrees), and maximum lengths up to 199 inches (5,050 millimeters). Features include 3-kilowatt saw motors, pneumatic clamps, cooling lubrication, automatic profile supports and roller conveyors on both heads. Controls include a smart touchscreen with remote access and data transfer. Booth #16077
833/390-0060, OZMACHINEUSA.COM

03. Panjin Xinghua Machine Manufacturing Co.

The MBS fully automatic, high-speed, vertical insulating glass line is designed to produce double/triple insulating and step glasses with grid mounting. Controlled by a Siemens PLC system, it features automatic glass size measurement, glass washing and dual-position storage for fast transfer. The spacer applicator consistently applies flexible form or butyl spacers precisely, reducing labor costs. Equipping with an optional double press system enables fast insulating glass unit production at 32 seconds per piece, 1,000 by 1,000 millimeters, without gas filling and double glazing. Booth #29179
+(86) 4275-5161-11, PJXHJX.COM



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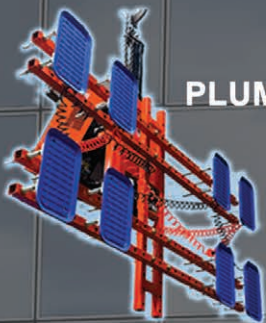
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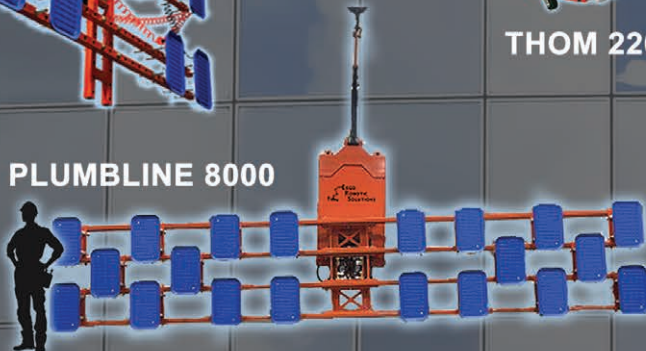
THOM 2200/4400



GM 5000-12



PLUMBLINE 8000



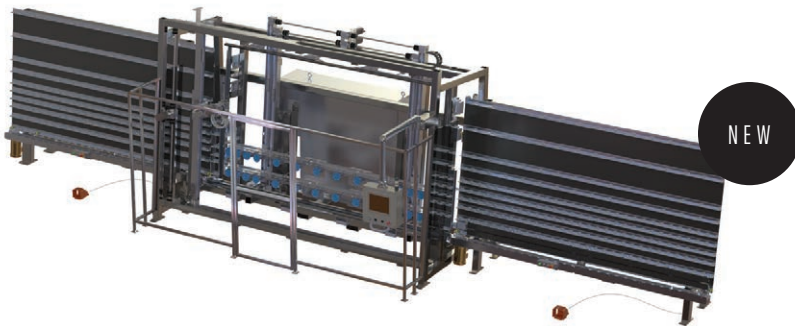
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01



02



03

**01. PDS IG**

The Heated Vertical Interlayer Trimmer is the latest in automated interlayer trimming for post autoclave laminated glass producers. PDS IG offers a fully automated trimming system that has the ability to remove both PVB and SGP excess material from the edge of laminated lites of glass. This new addition brings together the proven trimming technology of the previous PDS IG vertical trimmer with the robust infrared heating system found in the PDS IG horizontal trimmer. Booth #27070

303/948-4793, PDSIG.COM

02. RazorGage

The RazorGage APS auto pusher saw system automates cutting, allowing one person to feed and offload parts. It delivers high accuracy, +/-0.005-inch fine cuts on wood, fiberglass, aluminum and nonferrous metals, handling bundles up to 200 pounds at 40 inches per second. Its Intelligent Clamping System securely holds material, reducing scrap and safety risks. Optional Autolist software minimizes waste and improves inventory. Aluminum cutting includes a spray mist lubrication system for blade longevity. Additional options include grippers, various tables and tilt kits. Booth #21119

515/232-3188, RAZORGAGE.COM

03. Shandong Eworld Machine Co.

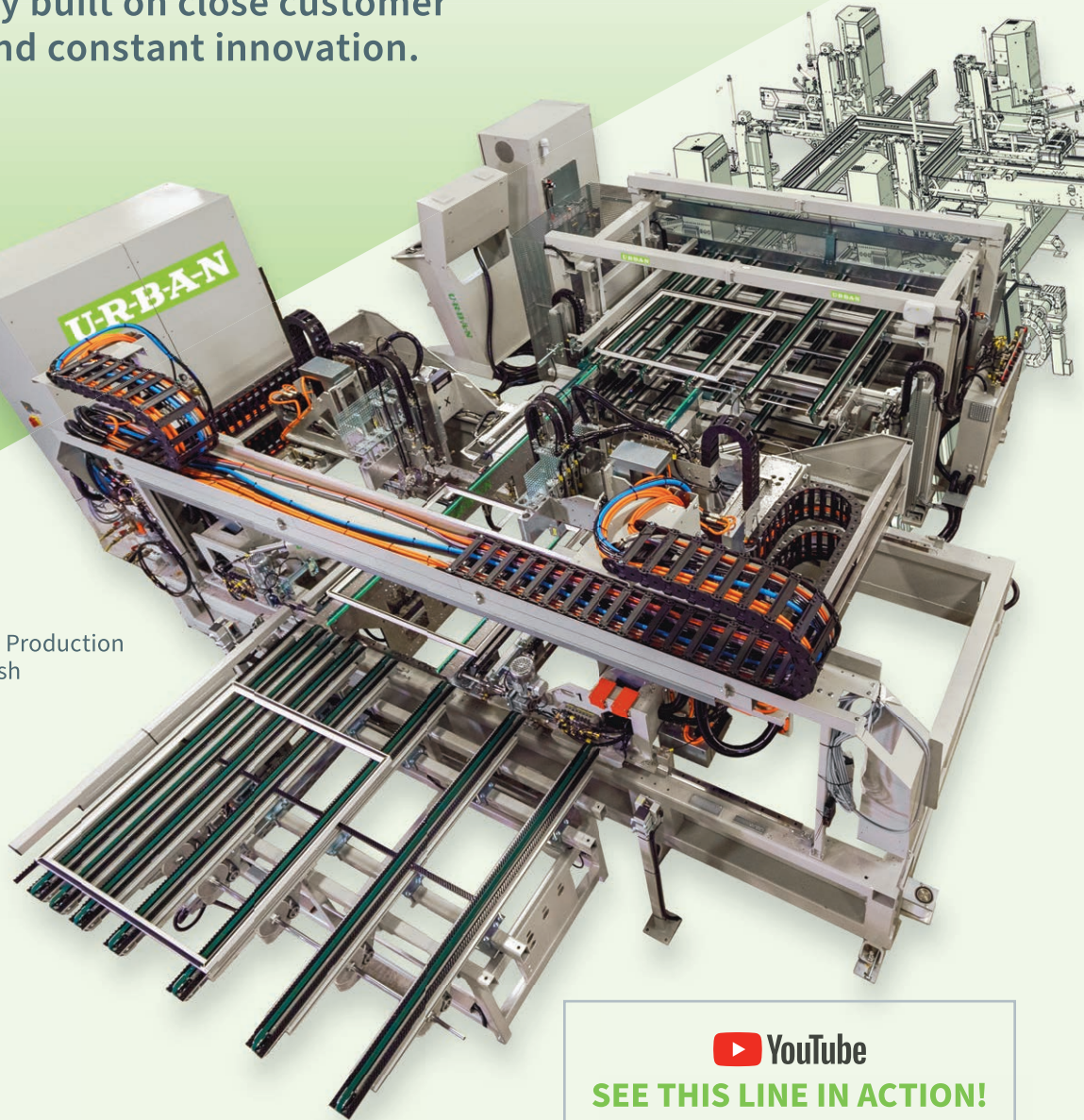
This new CNC glass cutting machine features automatic glass loading, cutting and breaking. It supports any glass shape with optimized software and has three motor-driven loading arms for easy glass transfer. Safety features include emergency stop and power-off self-locking to reduce breakage risk. Photoelectric positioning auto-detects glass location, eliminating manual adjustments. The machine ensures flatness, adjusts cutting pressure by glass thickness and offers a 360-degree rotating cutter head with buffer protection. Booth #30165

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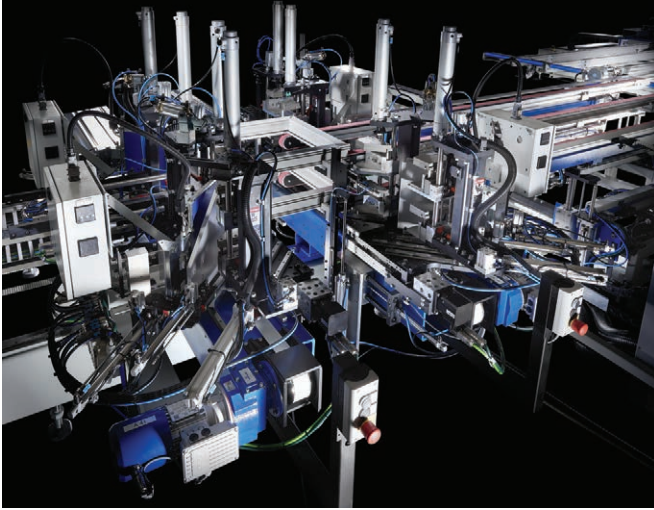
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01



02



NEW

03

01. Stürtz Machinery

Stürtz's SMI-HSM-30/25-Turbo high-performance horizontal welder is part of a series of welders that feature servo-controlled head motion to provide optimum pressure and consistent sizing for high-quality welded corners. Higher temperatures also reduce welding time by approximately 30% compared to older technology. The welder will be paired with a SMI-8AC-2H-30 high-speed, 8-axis, twin head corner cleaner for an efficient frame welding and cleaning work cell. Booth #3061

330/405-0444, STURTZ.COM

02. Taka-WPR USA Corp.

Strato revolutionizes profile wrapping for PVC and aluminum with technology developed from years of experience. It features automatic process control with real-time monitoring of temperature and humidity, ensuring consistent, RAL 716-compliant quality without manual adjustments. Strato reduces setup times, saves materials with precise primer dosing and cuts foil automatically to minimize waste. Its Eco Mode preserves materials during pauses, cutting energy consumption by 30%. Booth #16085

973/650-3232, TAKA-ADHESIVES.US

03. Urban Machinery

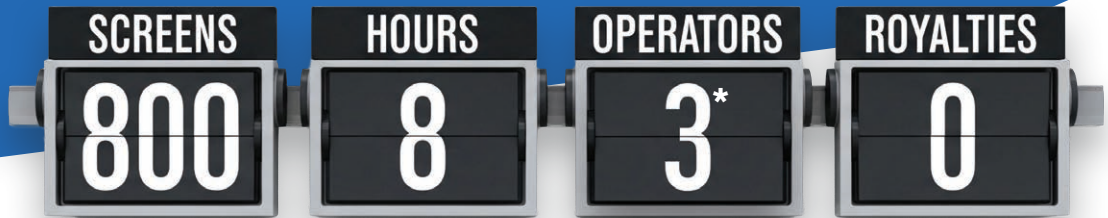
The UCS200 fabrication center offers several features, including easy operation with a 15-inch touch screen industrial PC with a Windows operating system. Other features include two USB and ethernet connections for cut-file import, a standard 18-foot-long infeed pusher and servo-controlled feeder, among many others. Optional fabrication tooling includes pneumatic, electric and routing tools, as well as basic punching. Booth #5081

519/624-0080, URBAN-MACHINERY.COM

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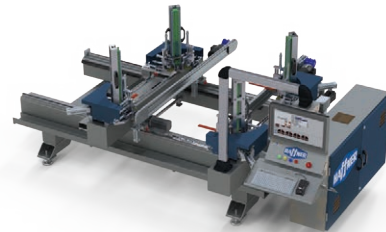
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STEP 2

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Winpro Screen Express systems automate the manual, inefficient process of spline insertion on window screens, boosting productivity and efficiency, and reducing labor costs. This semi-automatic system minimizes repetitive motion injuries common in window fabrication and enables higher-quality screen production per hour, without the costly labor required. By streamlining this semi-automatic process, it offers significant cost savings compared to the traditional manual process, improving overall efficiency and profitability in fenestration manufacturing. Booth #10078

216/360-7660, FORMTEKGROUP.COM/WINPRO

Yilmaz Machine

The AIM 3410 aluminum profile machining center is a CNC-controlled, four-axis machine designed for machining aluminum and PVC profiles. Its fourth axis enables machining operations on three profile surfaces. It features an eight-tool movable, in-line magazine unit on the movable machining head for quick tool changes. Ideal for façade applications, it includes a 180-millimeter diameter saw, automatic clamp recognition and positioning, and a movable cabin with a transparent polycarbonate window for safe monitoring of workpiece processing. Booth #3075

+(90) 4444-178, YILMAZMACHINE.COM.TR



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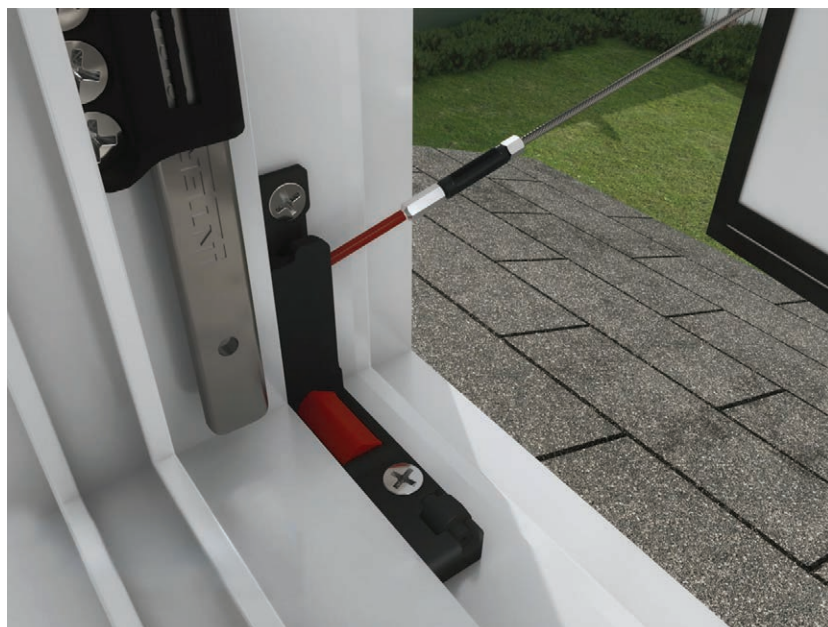


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01



NEW



NEW



03

01. American Renolit Corp.

American Renolit is unveiling an all-new laminate solution tailored for the real-world demands facing today's window builder. This new offering has been strategically designed to address an existing void in the market. It's a smarter path forward for window applications, offering the performance you expect with an attractive aesthetic. Booth #27040
616/581-2156, RENOLIT.COM/EXTERIORSOLUTIONS/US

02. Assa Abloy

Interlock's window opening control device is an innovative solution for casement windows, compliant with ASTM F2090 fall prevention standards. It limits window opening but can be easily disengaged to fully open the window. The device automatically re-engages when the window closes. Featuring a flexible sash connector and built-in lifter, it allows faster disengagement, prevents bending during cleaning and requires no adjustments. Its compact design fits various casement and awning windows, with adjustable restriction distances for different window thicknesses. Booth #15013
888/347-7771, ASSAABLOYFENESTRATION.COM

03. China Warm Edge Technology (Nanjing) Co.

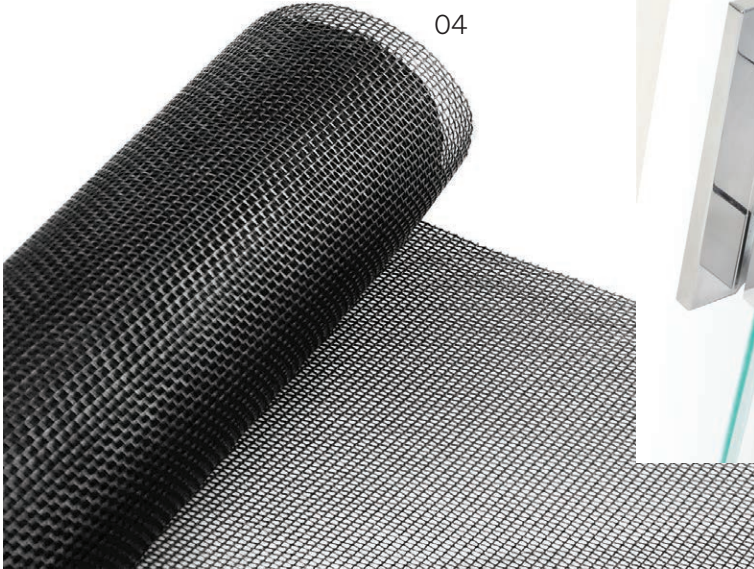
China Warm Edge Technology (Nanjing) Co. is a manufacturer of high-end insulating glass rigid warm-edge spacer and warm frames in China. The company has introduced advanced technology manufactured in Europe, four fully automatic rigid composite warm-edge spacer production lines and four fully automatic rigid nonmetallic warm-edge spacer production lines. Booth #30176
+(86) 1390-5190-580, WARMEDGE.COM.CN

05



NEW

04



NEW

06

04. CNBM International Corp.

CNBM pool and patio screen mesh is produced by high-strength fiberglass yarn with coating, weaving, heat setting and testing procedures. It has high tensile strength and a long service life. The company says it can pass REACH, ROHS, CA65 and SGS third-party testing. Booth #29173
 +(86) 1068-7965-06, ICNBM.COM

05. Exlabesa

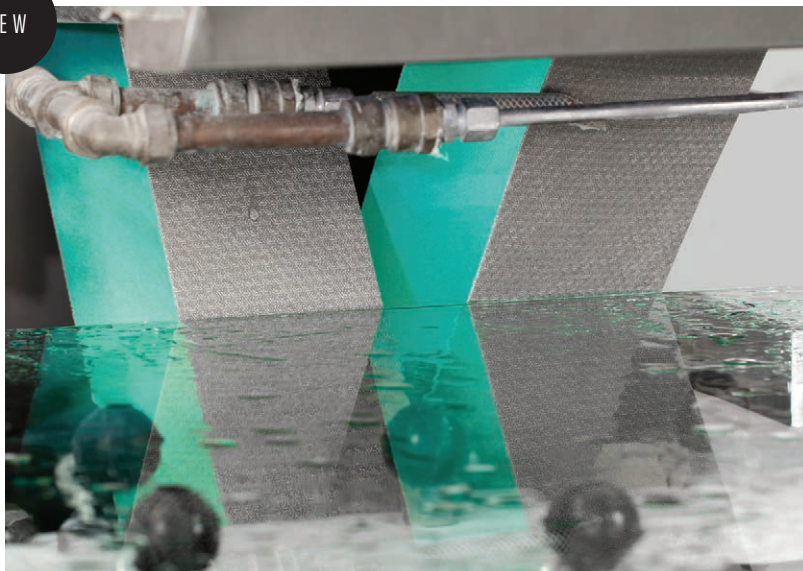
The CRS-140 minimalist sliding system offers an architectural solution that prioritizes natural light and visual continuity. It features a concealed frame and ultra-slim 25-millimeter interlock, enabling large, glazed surfaces and supporting sashes up to 4,000 mm by 4,000 mm with 42-mm glazing and 1,102-pound (500-kilogram) load capacity. Its single perimeter frame fits two- or three-track configurations and offers 90-degree open corner solutions without mullions and concealed floor solutions for seamless indoor-outdoor transitions. The patented DUO bearing ensures uniform aesthetics. Booth #25026
 +(34) 6034-4380-3, EXLABESA.COM

06. Gang Gwo Industrial Co.

Gang Gwo Industrial Co. is a leading manufacturer specialized in commercial and residential door and window hardware and also in OEM/ODM for industrial parts of die-casting, forging, machining and much more. The company supplies a variety of product lines and multiple surface finishes. The company plans to launch a new lift hinge with a patented mechanism of interchangeable function. Features of the new hinge include double action, adjustable +/-10-degree angle, interchangeability for left and right, and a concealed screw. Booth #22033
 +(88) 6875-5665-1, GANGWO.COM

02

NEW



01



03

NEW



01. Hangzhou Zoinen Sealing Technology Ltd.

Zoinen foam seals return to the original shape after compression and provide stability thanks to a rigid insert. The seals are designed to be unaffected by temperature variance, standard paints and stains, rot, fungi, and UV. White, black, brown and grey colors are available. Booth #28162

+(86) 5718-7077-898, ZOINEN.COM

02. KGS Diamond Inc.

KGS flexible diamond belts are designed for automatic and manual, wet or dry seaming machines, providing fast, smooth and consistent glass edge seaming without stress, damage or furnace failures. Featuring electroplated or resin-bonded special diamond patterns on a strong, size-stable, flexible, heat- and water-resistant backer, they adapt to various glass shapes and geometric panes. Durable construction avoids scratches, extends belt life, reduces downtime and minimizes furnace breakage, ensuring high-quality seams and efficient glass processing. Booth #3046

865/604-2198, KGS.SWISS

03. Lamatek Inc.

Expanding foam sealant tape is a compressible tape that combines the sealing properties of closed-cell foam with the flexibility and conformability of an open-cell tape. LAMA-Seal foam sealant replaces caulk, spray foam, putty and other liquid sealants to provide an airtight and watertight seal. This unique tape is made from a resilient, open-cell, expanding urethane foam that is impregnated with a proprietary saturant, providing excellent sealing qualities without the compression set or restrictions of most closed-cell foams. Booth #3014

800/526-2835, LAMATEK.COM

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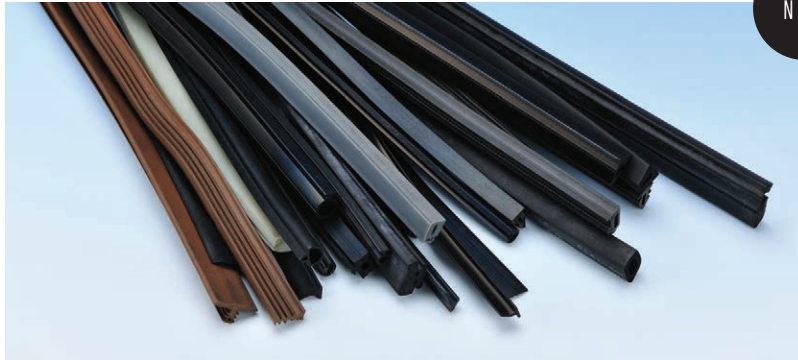
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01



NEW



02

01. Maxest Industrial Inc. / McThermo LLC

Poly-O low-friction gaskets are advanced composite seals designed for high-end, airtight, horizontal sliding doors and windows. Featuring a super slippery surface, low noise, high flexibility and excellent wear resistance (the dynamic friction coefficient is 0.12) and wear resistance of 85 cubic millimeters of volume per kilogram, they ensure smooth sliding and durability. Poly-O seals prevent sticking, stains, surface damage, poor sound insulation and water leakage, outperforming traditional lubricated and brush strips for long-lasting airtightness and ease of cleaning. Booth #22020
 +(88) 6222-1589-28, MAXEST.COM.TW

02. Osaka Rubber

Osaka's durable ethylene propylene diene monomer rubber profiles are ideal for various industries due to their resistance to heat, ozone, chemicals and extreme weather. EPDM offers flexibility across temperature extremes, ultraviolet and aging resistance, and strong chemical resilience. These profiles are widely used as sealing components in aluminum doors, windows and façades, ensuring long-lasting performance and perfect sealing in diverse environments, making them essential for modern building applications. Booth #2015
 959/404-0601, OSAKARUBBER.COM

03. Poly Extrusions

Enhance windows and doors with our custom profile solutions, including glass glazing materials, screen spline, bug seal profiles and custom plastic extrusions. High-quality glazing ensures secure, weather-tight glass installation to prevent leaks and drafts. Durable screen spline provides a snug fit to keep screens in place and allow airflow. Bug seal profiles create a barrier against insects, maintaining a clean indoor environment. Custom plastic extrusions offer tailored designs using premium materials, delivering durable, functional and stylish components for window and doors. Booth #29041
 909/350-3111, POLYEXTRUSIONSUSA.COM

03





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Coatings for the Window & Door Industry
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01



02



03



01. Quanex

PowerLink from AmesburyTruth is a concealed hinged wiring conduit that enables power transfer to operable windows like casements and awnings, opening new applications for smart glass technologies like electrochromic tinting, switchable privacy and integrated solar. It works with standard window hardware for seamless integration, protects wiring from damage and environmental exposure, supports factory-installed configurations, and delivers hard-wired power. PowerLink expands the smart glass market to residential and commercial openings requiring egress or ventilation. Booth #14040

740/439-6429, QUANEX.COM

02. Roto North America

The Roto Fasco Secura 9900T sliding patio door handle with a secure two-point mortise lock features a contemporary design with secure performance. It fits standard three-hole milling with extended screw ports for proper alignment and includes a stylish thumb turn with a premium lock/unlock mechanism. The bolt-style two-point mortise lock has opposing throw bolt-style locking points, an anti-lift pin and a mishandling device, suitable for three- and four-hole applications. Available in CRS and 304 SST, with keepers available to suit most applications. Booth #12020

860/526-4996, ROTONORTHAMERICA.COM

03. Salem Fabrication Supplies

Salem's TruCut cutting wheels offer premium glass cutting solutions, crafted with micro-infused tungsten carbide using CNC robotics for exceptional durability and precision. With tighter angle tolerances from 125 to 165 degrees, these wheels deliver consistent, clean breakouts with minimal pressure, reducing scrap. Micro-toothed versions handle thick glass and film, producing silky smooth edges. Paired with STM cutting fluids, they ensure excellent lubrication, cooling, clean cuts and extended tool life for all glass thicknesses and cutting speeds. Booth #22061

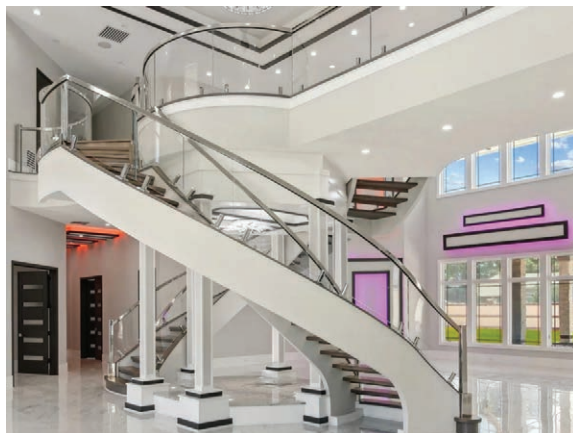
800/234-1982, SALEMFTG.COM

04



04. SEM Specialty Products

Schlegel Electronic Materials offers a line of high-performance bulb seals designed for windows, doors, curtain walls and glazing systems. Compatible with T-slot and kerf-mount installations, these seals protect against air, water, dust and vibration while improving energy efficiency and comfort. Made from durable elastomers, they resist compression set and harsh conditions like ultraviolet, moisture and temperature extremes. Available in various profiles, materials and durometers for static or dynamic applications. Booth #4018
585/643-2000, SCHLEGELEMI.COM



05



06

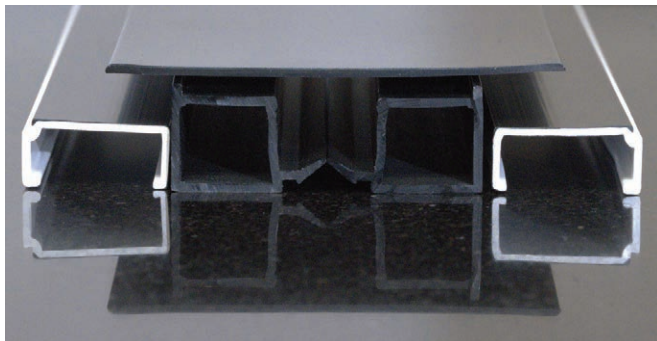
05. Southern Stretch Forming

Elevate interior design with custom curved stair rail systems, expertly crafted for high-end residential and commercial spaces. This stunning staircase showcases the company's precision-formed aluminum handrails and glass panel integration, offering both safety and sophistication. Every curve is engineered for seamless flow and structural strength, bringing modern elegance to grand entryways, lobbies and showpieces. The company's stretch forming process ensures consistency, quality and fast project turnaround, making complex architectural visions a reality. Booth #21033
888/308-0900, SOUTHERNSTRETCH.COM

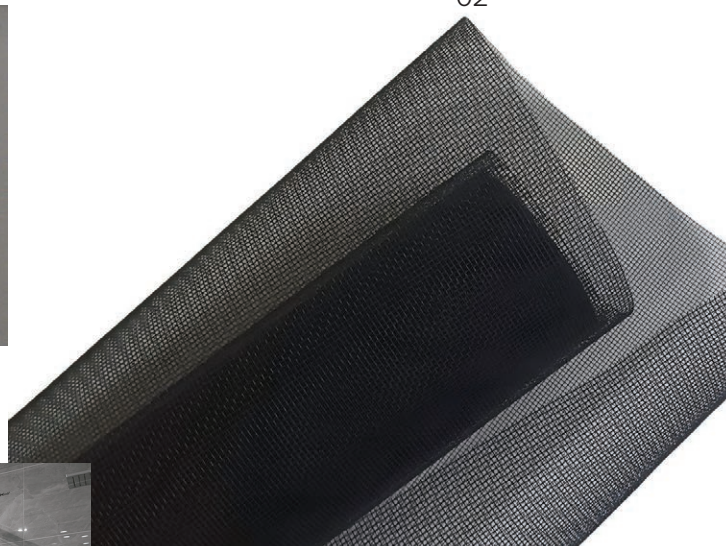
06. TBP Converting

Zialoc Boot is a high-performance silicone transition and splicing strip designed for reliable sealing and gap coverage in architectural and building envelope systems. Engineered to transition and splice curtain walls, storefronts and windows to sub walls, it provides a flexible barrier against moisture, air and environmental exposure. Made from durable silicone rubber, it ensures long-lasting joints with a clean finish and easy installation. Available in thicknesses of 0.045 and 0.062 inch, widths from 1 to 36 inches, lengths of 100 feet, and colors, including black, translucent and grey. Booth #10027
800/850-3338, TBP CONVERTING.COM

01



02



NEW



03

01. Vytron LLC

Dark colors such as bronze, terracotta and black are becoming more popular in the fenestration space. Tested and proven to withstand temperatures above 200 degrees, Vytron is proud to have added CPVC to its offerings. Vytron offers mono extrusions or co-extrusions with flexible PVC in standard black. The company can also extrude with cap stocks that are matched to the desired colors in materials that pass the highest levels of QUV testing. Booth #15093

865/458-4624, VYTRON.COM

02. Wuqiang Jindi Glass Fiber Co.

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 is also designed to be flame-, rust-, tear-, cold-, heat-, mildew- and bore-resistant. Booth #30163

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

03. Zhaoqing Keqiu Import & Export Co.

Premium solid brass construction ensures durability and a luxurious finish. Innovative design requires no glass drilling for easy installation and a sleek look. Fully adjustable with smooth lift function for effortless height alignment. Features reliable 25-degree self-closing and hidden panel screws for a cleaner appearance. Rigorous testing exceeds industry standards with 100,000-plus cycles and 120-hour salt spray resistance. Perfect for high-end residential and commercial use, combining elegance, functionality and lasting performance.

+ (86) 7588-5786-01, KECOHARDWARE.COM



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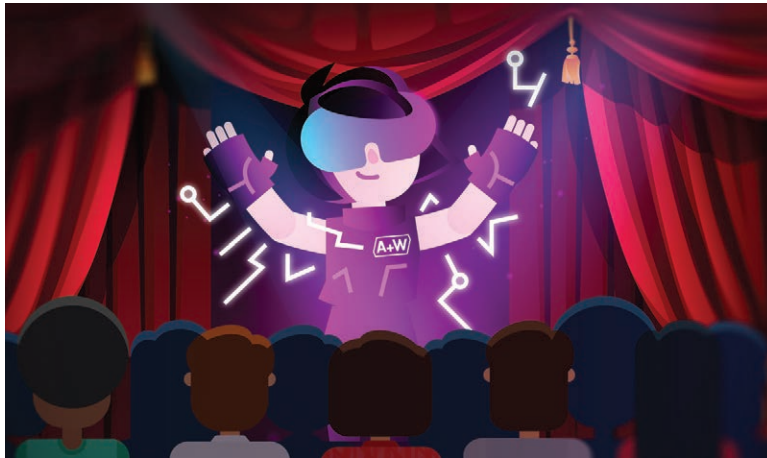


Visit us at **BOOTH 9006** to find out more at **GlassBuild America** in **Orlando, Florida!**

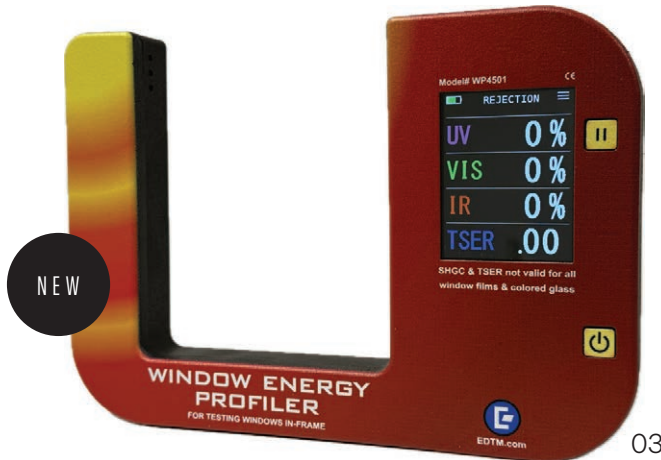
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01



02



03

01. A+W Software

Meet Mira (Multifunctional Intelligent Response Assistant), a new artificial intelligence designed to streamline order entry. Mira reads and interprets customer emails and attachments like PDFs, understands purchase orders, and transfers clean data directly into an ERP system. She learns from the team's corrections, improving accuracy for future orders over time. Seamlessly integrated into your existing workflow, Mira reduces errors, ensures consistent communication and dependable performance, and boosts efficiency—freeing employees to focus on critical tasks. Booth #12041

847/948-9425, A-W.COM

02. Argon Filling Systems Inc.

The Argon Check Analyzer is a low-cost, handheld, rapid feedback gas fill analyzer providing accurate initial fill percentage readings. Its sample probes enable quick point-of-fill measurements for manufacturing accuracy. Featuring a simple one-touch user interface, real-time readings and small sample size, it delivers reliable results without needing multiple fill cycles. Ideal for quality control spot checks, validating gas fill machine calibration, verifying fill gas percentages, detecting gas loss, training operators on insulating glass sealing timing, and educating staff on gas loss causes. Booth #19027

612/597-0014, ARGONFILLINGSYSTEMS.COM

03. EDTM Inc.

The new WP4501 Window Energy Profiler adds a full color touch-screen display to show multiple window performance values. The instrument measures the UV transmission, light transmission and infrared transmission values of the window, as well as estimating the solar heat gain coefficient of a window. The user can also switch the values to rejection values. The tool can also identify the type of low-emissivity coating used in a window. Booth #27084

419/861-1030, EDTM.COM

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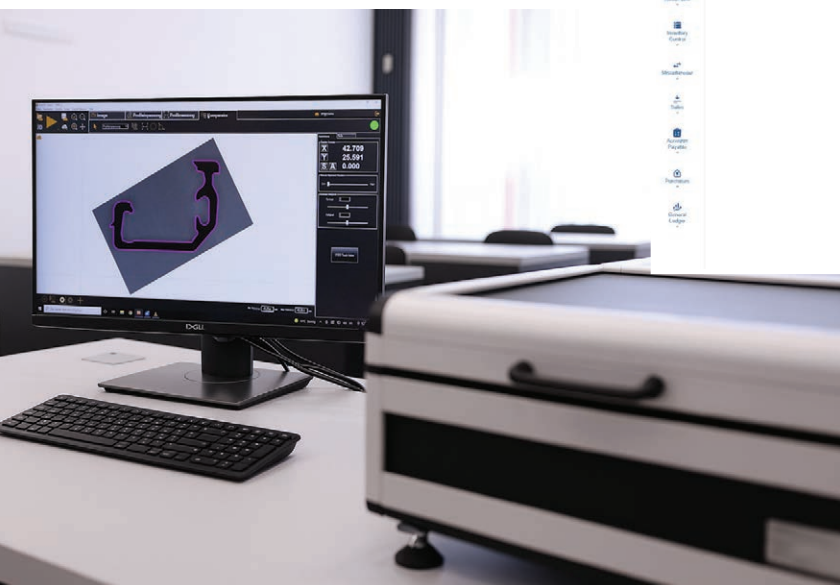
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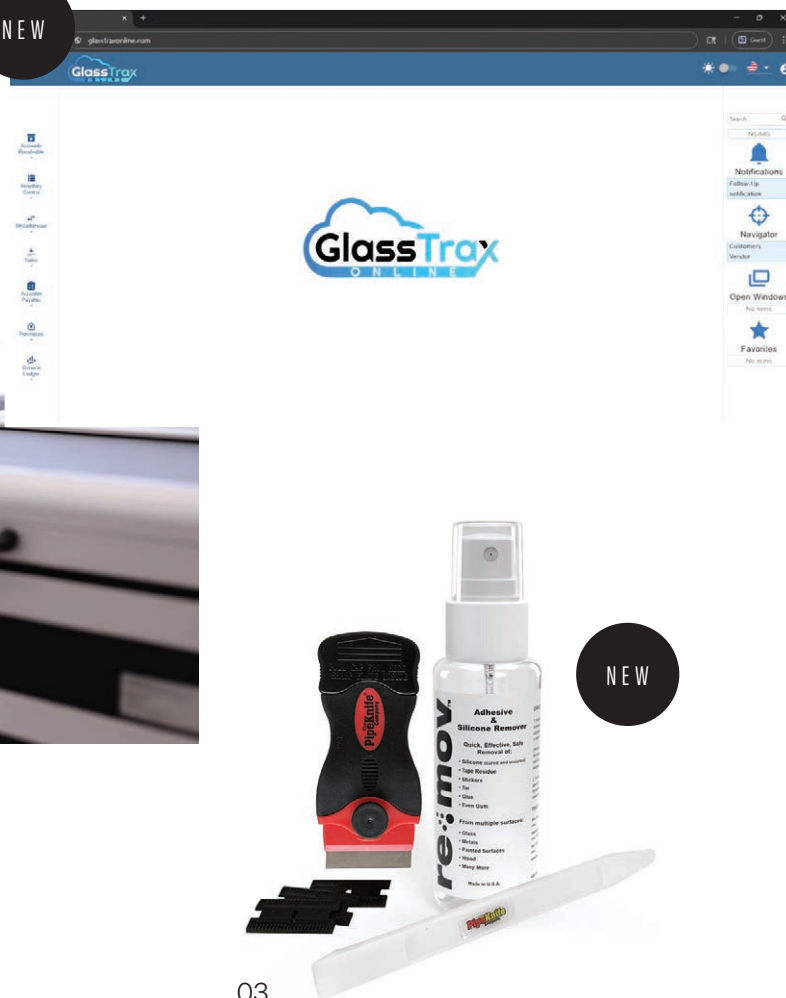
01



01. EngView Systems

The Scan Fit and Measure is an automated 2D system for inspecting extruded profiles made from aluminum, PVC, rubber and foam. It compares scanned images to CAD files to verify if profiles meet customer specs, providing instant pass/fail results. The software supports full GD&T and stores data in a measurement data center for traceability. Managers can generate individual or batch reports. Maximum measuring area is 8 by 10 inches, with an average speed of approximately 5 seconds per part. The operating temperature is from 50 to 95 degrees Fahrenheit. Booth #2038
469/902-9754, SFMEASURE.COM

NEW



03

02. GlassTrax & Glaziers Online

GlassTrax Online is powerful, flexible, industry-leading software accessible from anywhere with an internet connection. Features include quote and order entry, real-time production tracking, optimization integration, invoicing, custom reports, and more. Work smarter and faster without relying on local servers. Eliminate costly hardware and outside IT services—GlassTrax Online reduces overhead and simplifies your tech stack. Enjoy expert remote support, automatic updates and backup installs all handled for you. Experience seamless efficiency anytime, anywhere. Booth #29032
435/900-6777, GLASSFABRICATIONSOFTWARE.COM

03. Re-Mov

The Re-Mov kit from Pipeknife Co. includes everything needed to remove silicone, urethane, sticky tape residue, labels, polyurethane caulks, gum, surface glues, expanding foam and other sealants without damaging most surfaces. Specially formulated to break silicone/adhesive bonds without corrosive chemicals, it offers a safe, easy alternative to potentially harmful digestants. The kit contains a 4-ounce bottle of Re-Mov remover, three black plastic razor scrapers, and a PipeKnife tooling stick and mini-scraper. Booth #3023

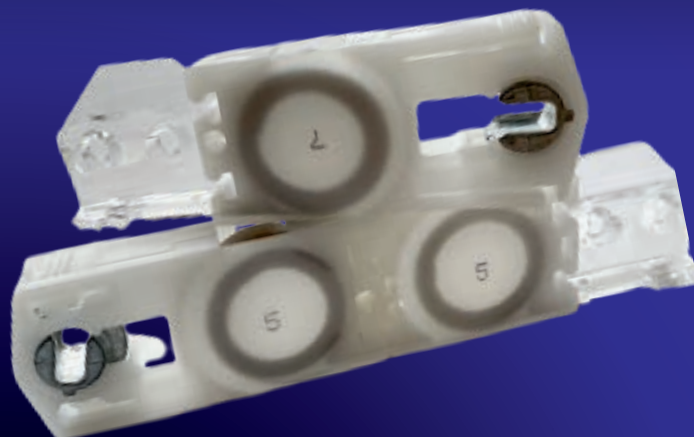
720/560-3707, PIPEKNIFECOMPANY.COM

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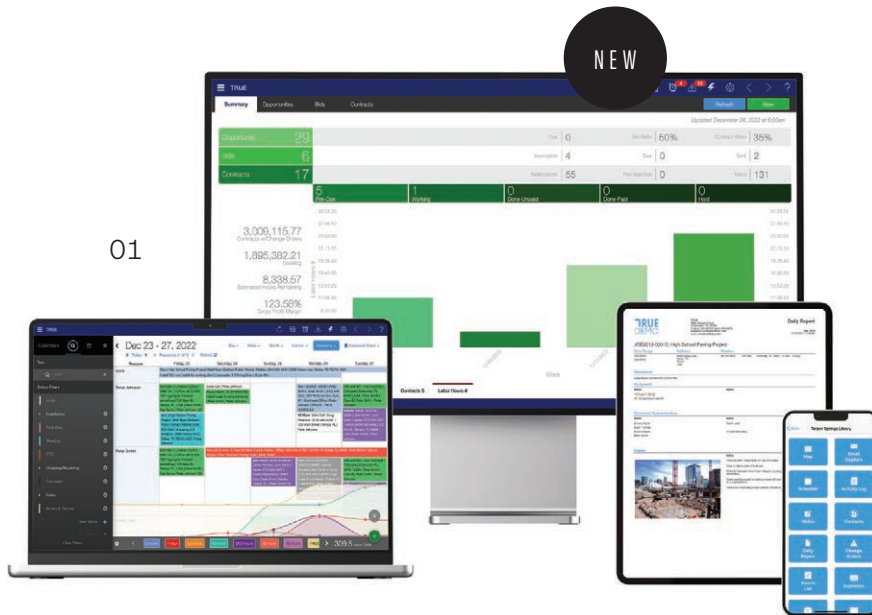


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02



01



03

01. True Contractor Software

True is a web-based, all-inclusive ERP software tailored for the glass industry, serving residential and commercial subcontractors. It features CRM, project and bid management, scheduling, procurement, job costing, timekeeping, inventory control, file storage, RFIs, submittals, change orders, AIA pay requests, accounting, and more. True functions as an all-in-one solution and integrates with leading industry software. Mobile apps are available to seamlessly connect field and office operations. Booth #4014

833/438-8783, CONSTRUCTTRUE.COM

02. Vision Hardware

Vision Hardware specializes in just-in-time delivery to ensure orders are produced, warehoused and delivered exactly when needed. With its supply agreement program, Vision keeps 90 days of inventory at its five regional warehouses, allowing for immediate pickup or delivery of parts. A signed supply agreement guarantees product availability and lock-in pricing for two years. Booth #27060

908/822-2003, VISIONHARDWARE.COM

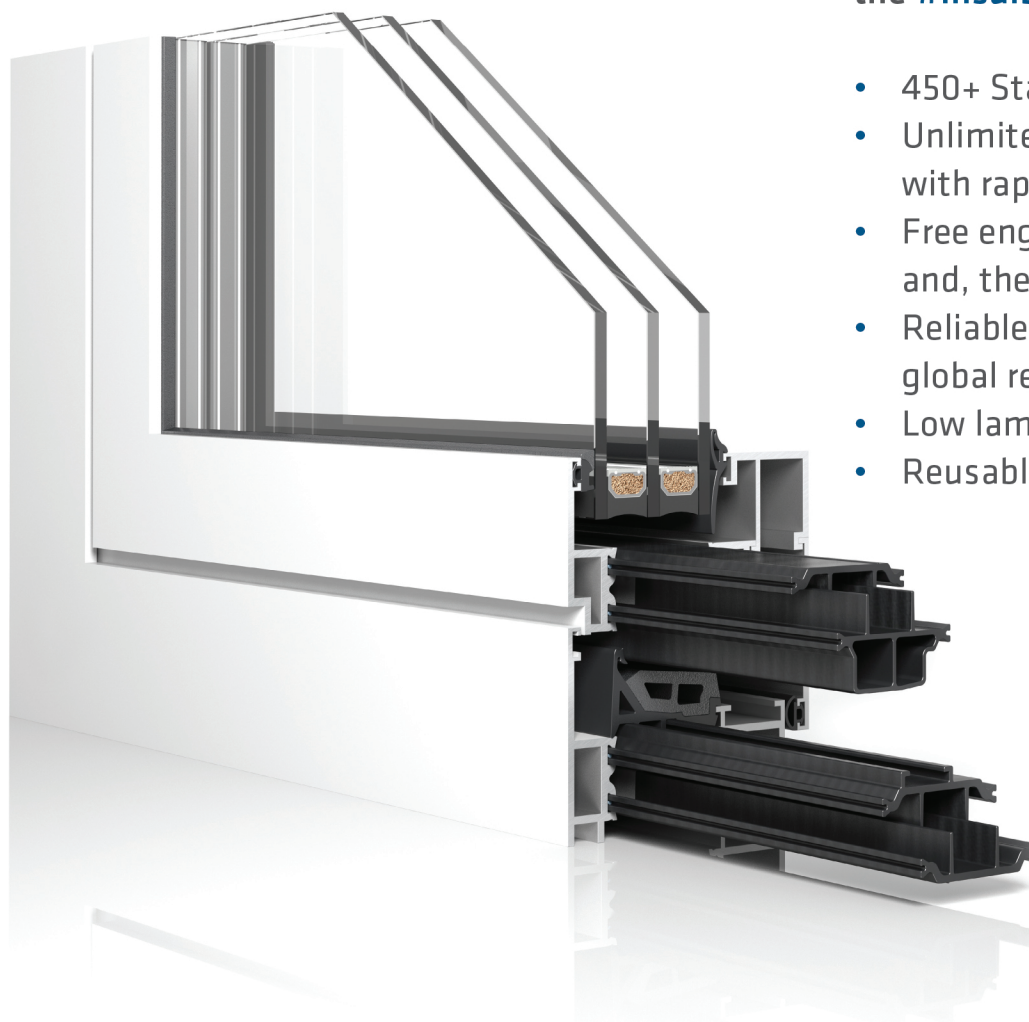
03. Windowmaker Software

Windowmaker Web is a fully online, browser-based application for configuring, pricing, quoting and manufacturing windows and doors. It supports multiple products, profiles and materials and uses built-in rules to ensure only valid configurations are possible. The software can turn quotes directly into orders. Other features include assigning and tracking tasks and integration with a wider ecosystem through APIs and webhooks. Booth #27012

647/694-1903, WINDOWMAKER.COM

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EXHIBITOR LIST

This list is current as of Sept. 25. For an up-to-date list, please visit glassbuildamerica.com.

Highlighted companies are sponsors of GlassBuild America.

BOOTH	COMPANY NAME	BOOTH	COMPANY NAME	BOOTH	COMPANY NAME
12041	A+W Software	3045	AFAD	3040	Aquinas Engineering
29029	ABC Hardware	2, 201, 827, 200	AGMT Certification	5011	Archie Hardware North America
29068	Abrisa Technologies	4020	Aim Transportation Solutions	17015	The Architect's Newspaper
20081	Accurate Perforating	29134	Air Performance LLC	28085	Arcon Glass North America Inc.
6099	ACM Machinery Ltd.	16096	Akarmak	19027	Argon Filling Systems Inc.
5007	Adfast	30047	Alcam Glass	17014	Argotec
23018	Adhesives Research Inc.	2016	Aldora Aluminum & Glass Products Inc.	5051	Aria Vetri Glazing Hardware Supply Casma
6045	ADI SrL / IGP Inc.	19017	Alloy Fasteners Inc.	8006	Arizona Shower Door Inc.
24167	AdValue Photonics	15022	AllYourHardware.com	4086	ASC Process Systems
3020	Advanced Construction Testing LLC	18027	Alumax Bath Enclosures / Hydro Extrusion USA LLC	28147	Ascentium Capital
15095	Advanced Dimensions	9006	aluplast	18075	Ashton Industrial
9034	Advanced Impact Technologies Group	6051	Aluvetro	15013	Assa Abloy
20015	Advanced Screen Systems Inc.	27040	American Renolit Corp.	16013	Assa Abloy Entrance Systems
22012	Advantage Drafting	28073	American Window Film	17039	Assa Abloy (Schweiz) AG with the brand Planet
5030	A-fabco Inc.	16033	Anthony Innovations LLC	15007	Assa Abloy Opening Solutions

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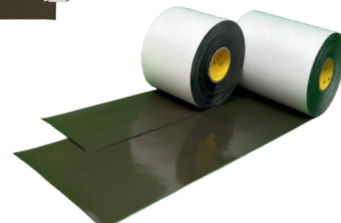
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3022	ATAS International Inc.	3032	BizDog Payments	28084	Casso-Solar Technologies LLC
25175	Atech Makine San Ve Tic Ltd.	3030	Blackwater Technical Services Inc.	29080	Castle Enterprises LLC
15021	Athmer	30040	Blutec Glass Fabrication	29066	Centria – represented by Wade Architectural Systems
4046	AutoMAK Assembly Inc.	3081	Boehme-Kunststofftechnik GmbH & Co.	2019	Champion Glass / Champion PTAC
9086	Automated Systems Engineering Group Inc.	29072	Bond It	9006	Chelsea Building Products Inc.
2031	Avantes Inc.	3010	Boton Aluminum Co. (Qingdao)	30176	China Warm Edge Technology (Nanjing) Co.
23174	XYZ Routers and WardJet Waterjets	6050	Bottero SpA	29176	Chongqing Minxin Environmental Protection Technology Co.
29045	Azon USA Inc.	12060	Bovone North America	5006	Citadel Architectural Products
9026	Baka Glass Software	29051	BrandSafway	2021	Clear-armor LLC
16011	Banner Solutions	5021	Brick Glass	29033	Cline Aluminum Doors Inc.
3091	Barberán SA	12091	Bromer Inc.	23135	CMS North America Inc.
	Beijing Guanhua Dongfang GlassTechnology Co.	4035	Bron Tapes	29173	CNBM International Corp.
25107	Beijing Hanjiang Automatic Glass Machine Equipments Co.	2035	Builder Prime	22032	CNT Conta
28165	Beijing Lead-Top International Fair Co.	11084	Burkle North America Inc.	23016	Coda Products Inc.
22075	Beijing MGM Glass Machinery Co.	10015	BVB Architectural Products	29040	Coim USA Inc.
27134	Benteler Maschinenbau GmbH	18090	BVC Group Inc. (Better Vacuum Cups Inc.)	27018	Colour Alliance Inc.
30019	Best Print Solution	11049	CRL	24169	Combilift
16061	Biesse	22085	C.R. Onsrud Inc.	4037	CompanyCam
22045	Billco Manufacturing	22013	C2A Longterm Inc.	22051	Continental
28078	BioSeal Silicone	22012	CAD-Plan North America Inc.	14006	contractERP
20027	Bisam Facade	3034	Cardinal Paint & Powder Inc.	29136	Control Glass SL

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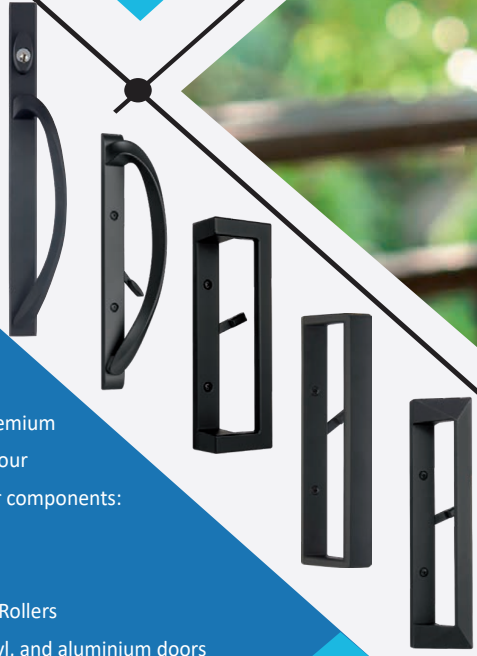
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23020	CoolTemper USA	18007	Door Controls USA	3083	EuGenie International
18015	Cooper Standard ISG	25019	dormakaba USA Inc.	4040	Eurocraft Industries
3026	Coroplast Tape	14032	Dow	29028	Eurolook / Maxivision
27032	Cortizo	23159	DRM LLC	18014	Everlam
18041	Creative Millwork of Ohio Inc.	4082	Duespohl Maschinenbau GmbH	4016	Excel Engineering
16025	Cugher Glass SrL	29073	Dxmax	25026	Exlabesa
11013	Cuhadaroglu Metal San Ve Paz AS	11034	Edgeworks	2047	Extralum USA
14006	Cyncly	27084	EDTM Inc.	8020	F. Barkow Inc.
4041	Cypress Windows & Doors LLC	15097	Elevall USA LLC	30066	Falcon Railings
28150	D&N Bending	18061	Elumatec North America Inc.	20021	Fapim SpA
9088	Daubert Chemical Co.	24112	Emmegi USA Inc.	5044	Faraone
24047	Deceuninck North America	4050	EnduroShield	5041	Faulkner Fabricating Inc.
30024	Deerco LLC	23012	Engineered Custom Coatings	29042	Fehr Warehouse Solutions / Matter Corp.
22125	DeGorter Inc.	2038	EngView Systems	27096	Fenestration and Glazing Industry Alliance
10060	DeMichele Group	24032	Ennova	30093	Fenestration Canada
9089	Denver USA Inc.	16017	Ensinger Inc. – insulbar	14006	FeneVision
28066	Deslauriers	14064	Erdman Automation Corp.	4081	Fenstek
3087	Diamanfer	10084	Ergo Robotic Solutions	16042	Fentro Hardware Systems
30039	Diamond Door & Architectural Metals	25183	Ergolifting Technologies	24096	Fenzi North America
12084	Diamon-Fusion International	12070	Ervin Inc.	10090	FGE Solutions, Enkong, South Tech Glass, BLM
22167	Doco Engineering	4006	ES	14022	FHC The Glazing Supply Company
30090	Door & Window Market Magazine	5036	Ettlin Smart Textiles GmbH	20033	FieldPulse

BOOTH	COMPANY NAME	BOOTH	COMPANY NAME	BOOTH	COMPANY NAME
17091	Filtertech / US Centrifuge Systems	29162	Foshan Bopai Metal Product Ltd.	3016	Gaab Locks
9090	Filtraglass	3028	Frank Lowe	22033	Gang Gwo Industrial Co.
23007	Flexijet North America	5050	Fratelli Pezza SrL	19007	Gardner Glass Products
30084	Folding Sliding Doors Canada Ltd.	30173	Freedom Ceramics Co. – Suzhou	11091	GCV Glass Machinery
9091	Follmann Inc.	2028	Fried Brothers Inc.	21016	GDS Estimating
23085	Fom USA	12041	Friedman Corp.	27026	Gealan Window Systems Inc.
18085	Forel North America	20044	FrontLine Bldg. Products Inc.	24061	GED Integrated Solutions Inc.
28013	Fornax Door and Window Accessories	24165	Future Financial LLC	10007	GGI
19032	Forster	9020	Future Glass	10014	Glass Coatings and Concepts LLC



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6053	Glass Co.	21013	Gonzato Group USA, a TS Distributors Company	28162	Hangzhou Zoinen Sealing Technology Ltd.
29069	Glass Lab	18038	Grabo	8040	Hans Light Power Technology (Guangdong) Co.
21125	Glass Machine Sales	2061	GRAF Industries Inc.	8014	Hardware and Glass Group Ltd.
27096	Glass Magazine	3015	Great Lakes Fasteners	30172	Hardwood Door Control Tech (Ningbo) Co.
19027	Glass Pro Inc.	21076	Great Lakes Lifting	30165	Hebei Dongxing Glass Co.
2026	Glass Railing of Norway / Comensa	28072	Greco Architectural Metals	16048	Hegla Corp.
21135	GlassBuild Skills Challenge	19045	Groves Incorporated	30179	Henan NCY I&E Co.
20077	Glassline Corp.	22027	GU Ferco North America	30175	Hi-tech Hardware Industrial Co.
29079	Glassmat DOO	30174	Guangdong Aurican Hardware Technology Co.	10021	HMI Glass
19013	Glassopolis	29172	Guangdong Golive Machinery Technology Co.	4015	Hollander Glass
9087	glasstec 2026 / Messe Dusseldorf	27177	Guangdong Kinlong Hardware Products Co.	28014	Homewell Glass Products Inc.
28079	Glass-Technology International	27175	Guangzhou Anhua Glass Tools Co.	21081	Hot Melt Technologies Inc.
29032	GlassTrax & Glaziers Online	19051	Guardian Glass	17027	HP3 Software Inc.
30033	Glasswerks	5020	Gulf Rubber Industries LLC	16007	Hughes Supply Co.
10097	Glaston America Inc.	28143	Guthrie AI	21153	Hurricane Demo by Intertek
18012	GlasWeld Systems Inc.	21051	H.B. Fuller	29034	Hydro Extrusion North America
30078	Glazelock Inc.	25159	Haeco	5022	Hygrade Components
18016	Glazier Software	21097	Haffner Machinery	28028	IDC Aluminum Glass Systems
9085	Glaziers Consulting	28164	Haining Lijialong Pile Weather Strip Co.	21113	IGE Glass Technologies Inc.
29175	Glory Glass Group Co.	27171	Hangzhou Jinggong Machinery Co.	2006	IGK North America Inc.
29170	Goldstar Co.	28172	Hangzhou Zhijiang Silicone Chemicals Co.	24033	Impact Metal Resources Sdn Bhd



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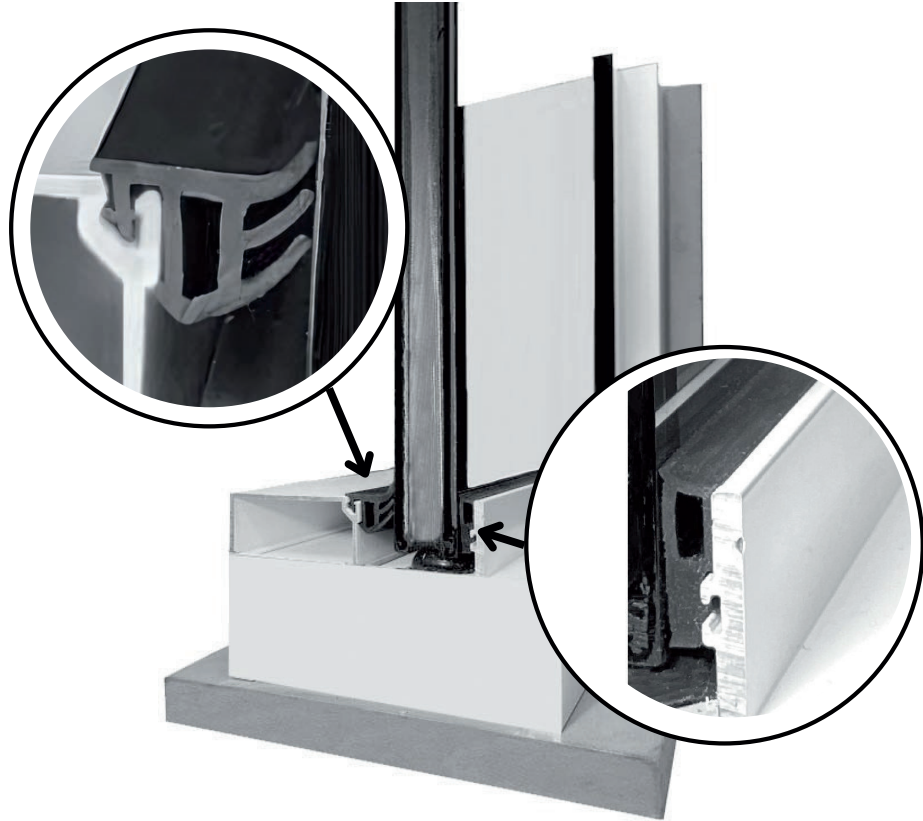
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- Setting Blocks
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- Screen Spline

Services

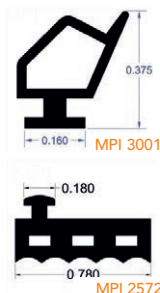
- Engineering Support & Development
- Prototype Sampling
- High & Low Volume Production
- Stamping, Cutting, Notching



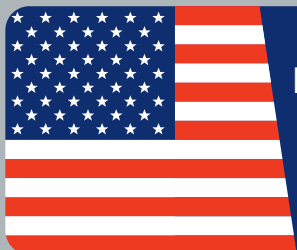
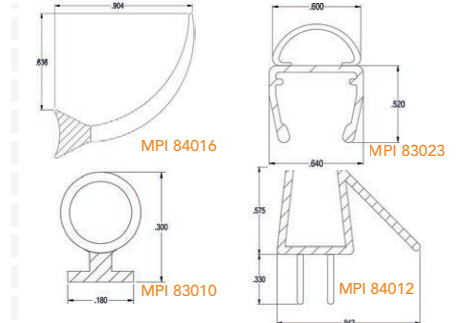
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Co-extrusions



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3029	Imperial Plastics	25148	Integrated Automation Systems	19042	Isoclima Specialty Glass
3042	Industrias Viba SAS	6029	Interglass	17010	iSource-X
27096	Industry Pavilion – NGA / FGIA	27142	Interlayer Solutions Inc.	5053	Italcarrrelli Spa
2050	Infinite Recycled Technologies	17008	International Union of Painters and Allied Trades	5045	Italian Trade Agency (ITA)
17022	Infor	22017	Interstate Screw Corp.	5008	iWallet
15099	Inland Diamond Products Co.	30021	Ion Business Strategies	2030	J&S Machine Inc.
3035	Inline Fiberglass Ltd.	3044	Ipswich Bay Glass Co.	28128	Jansen America Inc.
4023	iNOEX LLC	3021	Iron Workers Local 63	30032	JB Design Facade Engineers
30026	Inoform Systems Ltd.	21007	ISD Group USA Inc.	23175	Jekko USA



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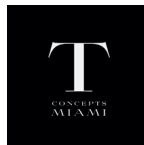
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29167	Jinan Glasino Glass Technology Co.	28141	Krystalflex	2017	M & F Home Solutions LLC
30164	Jinan Wondec Machinery Co.	9084	k-Space Associates Inc.	4045	M & M Plastics
9015	JLM Wholesale, a division of Lockmasters	29130	Kwik-Wall Co.	25107	Mac Glastech & Automation Co.
16092	Joe's Refrigeration Inc. / Clean Room Solutions	3014	Lamatek Inc.	30080	Machines and Wheels Inc.
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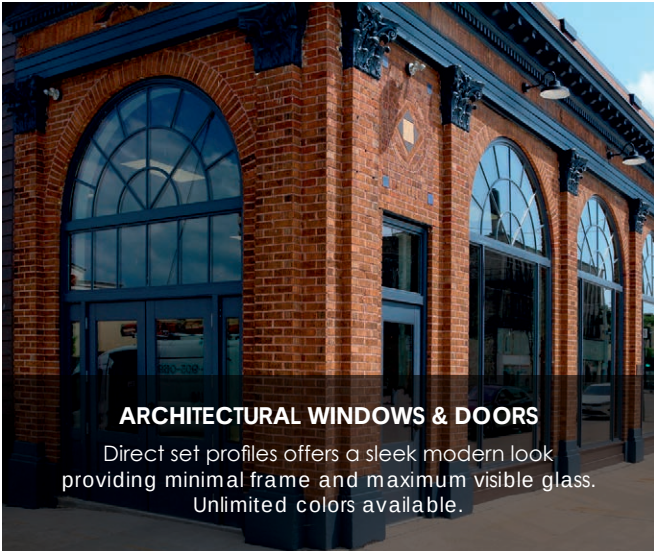
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18021	ODL Inc.	24027	Orion Laser Tech	8088	Pat Mooney Saws
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15093	Vytron LLC
23167	Wakefield Equipment
17007	Walker Glass Co.
9097	Water Treatment Solutions
2027	Wesco

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17026	WHS Fenestration Inc.
4026	Wieland Metal Services
29021	WinDoor Quote
27096	Window + Door
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27012	Windowmaker Software
10078	Winpro
12041	Winsys

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30163	Wuqiang Jindi Glass Fiber Co.
28041	Würth Industry USA
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3075	Yılmaz Machine
11007	YKK AP America
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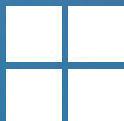


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01



02



03

01. WinDoor

WinDoor's Pivot Door is now available in larger sizes, accommodating openings up to 6 feet wide by 12 feet tall. The WinDoor Pivot Door is designed for luxury homes and high-end commercial applications, featuring an aluminum frame and advanced glazing options. The pivot door is available in three standard hardware finishes, with additional specialty options. The door is also available with high-performance, low-emissivity glass and a wide array of glass color options.

866/363-2387 | WINDOORINC.COM

02. Baldwin Hardware

Baldwin Hardware launched a new hardware collaboration with Level Home. Each piece is crafted in solid brass, offered in seven finishes with custom split-finish options and designed to pair with Baldwin's portfolio of levers and knobs. Level's invisible smart lock technology is engineered inside the bolt. The lock supports Bluetooth and Matter-over-Thread for direct smart home integration, with remote access, lock status and activity history enabled. The lock works with Apple Home and other Matter ecosystems.

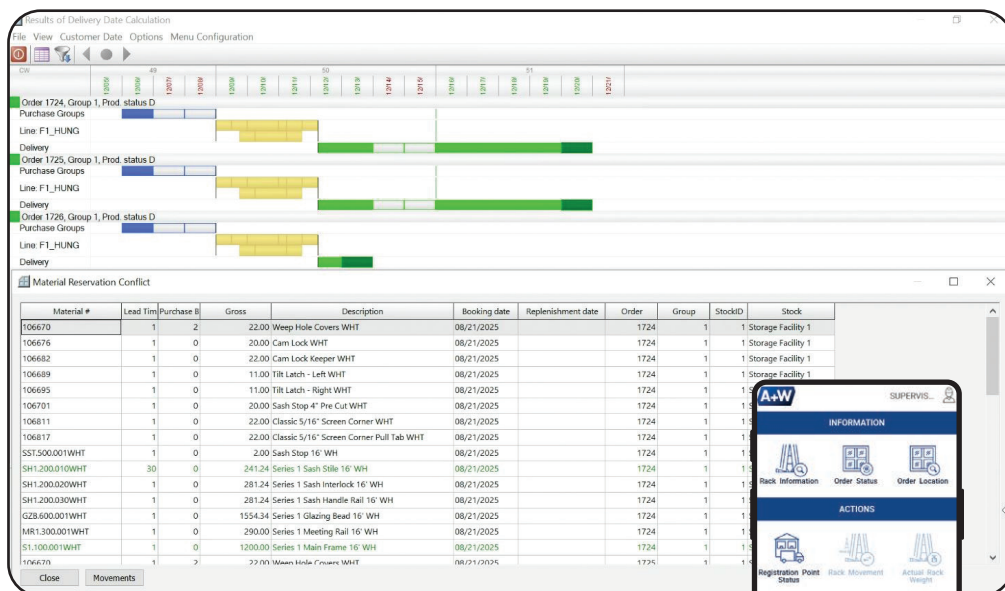
800/437-7448 | BALDWINHARDWARE.COM

03. VBH

greenteQ ClearLift Slim by VBH has been developed with Italian hardware supplier AGB slimline lift and slide patio doors in mind. It accommodates sliding sashes weighing up to 550 pounds as standard, with the option to increase capacity to 880 pounds with the addition of one item. ClearLift Slim allows the creation of sliding panels measuring up to 12 feet wide and 8.8 feet high. Security is provided by two sturdy hook bolts, with the option of additional hooks in the middle and at the top of the door if required. The hooks retract into the sash when the door is open, and the striker plates are flush to the frame.

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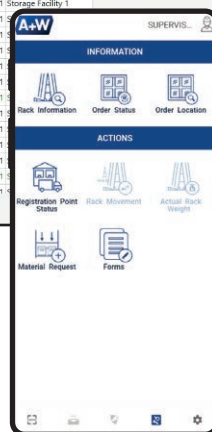
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- Integrates administration, production, sales and service in one platform
- Instant order status updates accessible company-wide
- IoT-enabled stock tracking and 24/7 online quoting for efficiency
- Start with needed functions and expand as your business grows

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In today's competitive industry, success depends on efficiency and transparency. A+W Cantor delivers both—integrating administration, production, sales and service into one platform. From the first customer inquiry to delivery and installation, every step is mapped for total visibility and control.

One system, endless capabilities

A+W Cantor is an ERP solution tailored for manufacturers of windows, doors, roller shutters, gates and insect screens. Its modular design lets you start where you need it most and expand as you grow. Manage your

entire process in one system: quotations, order entry (with credit checks), purchasing, materials management, production, delivery, installation, invoicing and service. An integrated document archive keeps order handling nearly paperless, reducing errors and saving time.

Transparency from office to shop floor

Once an order is entered, its data is instantly available across your company. Always know exactly where it is and its production status—no more searching paper files. A+W Cantor calculates all key dates, from purchase order to installation, and updates

department calendars so nothing is overlooked.

Smart tools that elevate performance

- **A+W CANTOR SMART COMPANION**—Mobile, real-time stock and material tracking integrated with IoT platforms. Improve resource planning, reduce waste and make data-driven decisions anywhere.
- **A+W CANTOR IQQUOTE**—A 24/7 online e-commerce configurator and quoting tool for fast, accurate proposals by your dealers. Integrated with your A+W Cantor ERP to eliminate double entry and

accelerate sales.

- **CIM (COMPUTER INTEGRATED MANUFACTURING) TERMINALS**—Link office planning with production execution. Operators scan barcodes, track racks for fittings and frames, and provide instant feedback for real-time control.

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Enhance End-user Security with High-performance Screens

By John Ryba, Quanex

Late this past summer, the Fenestration and Glazing Industry Alliance released an industry first in North America: a security screen standard, "Specification for Security Screen Products," AAMA 1901-25. The standard defines expected performance from products marketed as security screens, and it represents an important step in formally bringing awareness to this unique product category in the window and door industry.

Why security screens? Home security device adoption continues to grow as consumers seek to enhance the security of their homes, and high-performance security screens represent a solution that window and door OEMs can deploy to differentiate themselves from the competition. Further, paired with other high-performance window and door technology, security screens are another way to add new value for your customers.

With this in mind—and in the midst of fall tradeshow season, where you'll likely have a good opportunity to see some of this technology up close and personal—let's take a closer look at security screens and what these kinds of standards mean for the market. ■



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Blending the Indoors and Outdoors

Project: Modern home in the Blue Ridge Valley of Virginia.

Products: ActivWall supplied a 72-inch by 96-inch pivot door for the front entryway; a five-panel 196-inch by 96-inch folding door; and a 48-inch by 60-inch gas strut window.

Description: The custom products were all designed to create an indoor space that blends with the outdoors. The front entryway pivot door swings inward and features two integrated 19-inch sidelites. The five-panel folding door in the heart of the home connects the open-concept living room to the covered back patio. Meanwhile, the gas strut window opens upward, connecting directly to the outdoor grilling area. ■

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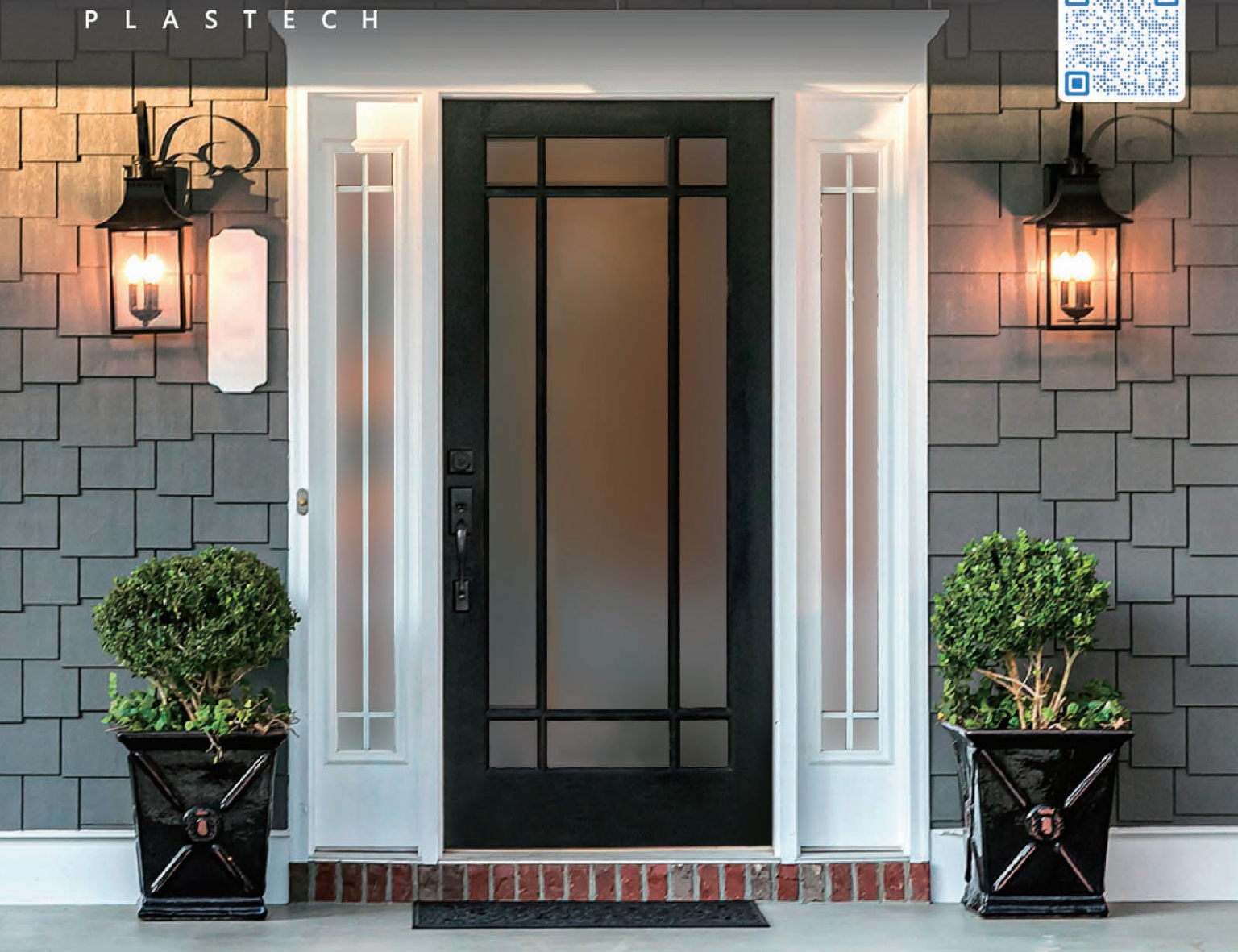


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