FOR NEARLY A CENTURY, QUANEX HAS FUELED THE BELIEF THAT INNOVATION AND THE RIGHT PEOPLE CAN TRANSFORM THE WORLD — ONE SOLUTION AT A TIME. THROUGH OUR PIONEERING, SUSTAINABLY-DRIVEN PRODUCT SOLUTIONS, WE’RE STRIVING TO BUILD A BRIGHTER FUTURE FOR OUR CUSTOMERS ACROSS THE GLOBE. WE ARE YOUR ONE SOURCE FOR QUALITY BUILDING COMPONENTS. GLOBALLY TRUSTED AND DRIVEN BY INNOVATION — TOGETHER WE CAN BUILD SMARTER PRODUCTS. WE ARE RELIABLE, LEADERS, PIONEERS, INNOVATORS, WORLD-WIDE SOLUTION MAKERS. WE COMBINE AESTHETICS AND PERFORMANCE TO DELIVER LASTING VALUE FOR YOUR BUSINESS AND YOUR CUSTOMERS. WE ARE NOT JUST ANOTHER MANUFACTURING COMPANY, WE ARE A PART OF SOMETHING BIGGER.

Learn more at QUANEX.COM
Restore for more ... confidence

Enabling sustainability & long-term building success

Rising construction costs. Energy efficiency. Sustainability goals. These are the challenges facing applicators – and creating new renovation and restoration opportunities.

Dow Building Science offers durable, high-performance DOWSIL™ Brand Products and the technical knowledge to help you address these challenges with confidence. Offering silicone sealants excellent for renovation with an expected service life of 50 years, we have options to shorten project timelines and reduce lifetime costs.

See us at GlassBuild America, booth 7173.
You’re the best at what you do. So are we.

When it comes to sourcing the right parts for the job—any job—no one comes close to SECLOCK. Our team of technical service reps is unrivalled in the industry, meaning you get exactly what you need exactly when you need it, every time.

You have other things to worry about. Let us take care of the hardware.

Visit SECLOCK.com to see how we can help.
FEATURES

44. GlassBuild America 2022
   See everything in glass, Oct. 18-20 in Las Vegas
   BY KATY DEVLIN

52. GlassBuild Product Showcase
   Discover solutions to today’s top challenges

100. GlassBuild Exhibitor List

INSIGHTS

28. Legal
   Claim Denied: Just Having Insurance Isn’t Always Enough
   BY MATT JOHNSON

32. Your Profits: Marketing
   Unlock the Business-Building Secret of GlassBuild America
   BY CRISTINA MURRAY

36. Trendhunter
   Making an Entrance: Trends in Glass Door & Entrance Systems
   BY MARK SUEHIRO

DEPARTMENTS

8. Editor’s Notes
10. From the NGA
13. Glass Informational Bulletin
18. News to Know
40. Great Glazing: Pulp Studio
118. Product Solution: SAFTI FIRST
119. Industry Products
122. Suppliers Guide
136. Reader Response Center
138. Industry Spotlight

ON THE COVER
Alexander Dominguez, glazier for JR Butler in Denver, stands next to a curtain wall unit for the Capstone project in Austin, Texas. Viracon was the glass fabricator. Photo courtesy of JR Butler.
VIRACON NEUTRAL GRAY VNG-4022 LOW-E ARCHITECTURAL GLASS COATING:

YOU ASKED. WE DELIVERED.

With its subtle neutral-gray color and exceptional solar control, VNG-4022 is designed to meet today's high-performance low-e architectural glass coating requirements. In fact, its Visible Light Transmission (VLT) of 40% and Solar Heat Gain Coefficient (SHGC) of 0.22 make it one of the higher performing low-e coatings on the market. Combined with mid-range reflectance, Viracon has once again delivered a coating sure to deliver great solar performance without compromising the beautiful aesthetics of your building’s facade. Learn more at www.viracon.com/new-products/
Glass Magazine Weekly newsletter and digital edition: Subscriptions available under the "Subscription Services" tab on GlassMagazine.com

BONUS CONTENT
Available at GlassMagazine.com and glass.org.

ONSITE COVERAGE
Photos, videos and more from GlassBuild America 2022

PRODUCTS
Search additional product introductions from GlassBuild exhibitors

FORECAST
Learn the latest industry forecast from GlassBuild speakers

GLASSBLOG

SCHOOL SECURITY
Another Way Glass Can Save the World
By Karen Wegert, NGA

STATE OF THE INDUSTRY
Big Notes from the Road
By Max Perilstein, Sole Source Consultants

DECORATIVE
Applying Color to Glass
Spencer Raymond, GGI

PROJECT SHOWCASE
Featured in Glass Magazine Weekly and on GlassMagazine.com. To submit projects or case studies, write Norah Dick, ndick@glass.org. Pictured: The new Hilton Garden Inn in Brookline, Massachusetts, features a range of glass and metal systems, all installed by R&R Window Contractors Inc. Installed products include 250T Narrow Stile Doors and 451 Storefront Framing from Kawneer, and glass handrail components, engineering and interior sliding glass doors courtesy of C.R. Laurence. Pulp Studio contributed Custom Laminated Graphic Glass, part of the hotel's bar, and other systems were provided by ES Window/Techno Glass and Stanley Access Technologies.

Glass Magazine® (ISSN 0747-4261), Volume 72, Number 7, is published eight times annually in January/February, March, April, May/June, July, August, September/October and November/December by the National Glass Association, 344 Maple Ave. West, Unit 272, Vienna, VA 22180; 703/442-4890. There is no charge for subscriptions to qualified requestors in the United States. All other subscriptions will be charged $49.95 in the U.S., and $79.95 outside the U.S. Periodicals postage paid at Vienna, Va., and other mailing offices. POSTMASTER: Send changes of address to Glass Magazine®, Subscriptions, Box 460, Congers, NY 10920. Canada Post: Publications Mail Agreement #40612808. Canada Returns to be sent to Bleuchip International, P.O. Box 25542, London, ON N6C 6B2. For all subscription inquiries, please call 1-800-765-7514. ©2022 National Glass Association. All Rights Reserved. Printed in the U.S.A.
Sky’s the Limit

Heavy-Duty solutions for installing curtain wall, skylights, stone, metal panels & more.

GM 2000-26
Fork-mounted THOM 2200
Touch sensitive Remote control
Goes as high as the handler
34” wide to fit through a 3’ door!

Call or email Jerry • j.nudi@ergorobotic.com • 518-796-2179 • ErgoRobotic.com

See us at GlassBuild America, booth 6054.
The glass industry has an opportunity to become a new type of “first responder” by providing security products that protect children, teachers and staff against school shooters, said Tino Amodei, co-founder of Armoured One, who presented during NGA Glass Conference: Chicago, held in July and hosted by the National Glass Association.

“We always seem to deem firefighters, police officers, SWAT teams and EMTs as first responders. But it’s the people that are proactive that are true first responders,” Amodei said. “The NGA is going to be a true first responder. The architects who design buildings are first responders. All of us in glass manufacturing and in technology development who are trying to make things better, make things affordable, we are all first responders. We are the only ones who can change the outcome.”

Amodei was referencing the news that NGA has taken the major first step to making the glass industry a proactive leader in building safer schools. The association announced a new ASTM International document has been created through the F12 Security Committee entitled Standard Test Method for Forced-Entry-Resistance of Fenestration Systems After Simulated Active Shooter Attack. The document was created by NGA volunteer leaders in response to an increasing frequency and severity of school shootings. It addresses the need to slow and, if possible, prevent intruders from entering facilities through locked fenestration.

“At a meeting a few years ago, someone said, ‘We have standards to protect sea turtles and birds, but we don’t have anything to protect our children. It’s time that needs to change.’ So, we developed a standard,” said Julia Schimmelpenningh, global applications manager at Eastman Chemical Co. “Acting [with] the first responder mentality, we took a look at it. We educated ourselves on school shooting occurrences. ... We reviewed all existing security test methods out there. ... We looked at adapting existing methods.”

This isn’t the first time the glass industry has served as a first responder in the event of natural or man-made disasters. As I listened to Amodei and Schimmelpenningh speak on the industry’s response to school shootings, I thought about other industry interventions following tragedies—the hurricane-impact systems developed in the wake of the devastation of Hurricane Andrew in 1992, or the new blast glazing technologies created after the Oklahoma City bombing in 1995. And I thought about the everyday interventions to create safe and healthy buildings—the non-wired fire-rated systems that prevent dangerous breakage injuries in event of accidental impacts; the promotion of products that bring more light into buildings, without sacrificing performance, leading to better mental health outcomes, improved productivity, accelerated healing; the glass and glazing products for global sustainability and more.

The glass industry has a long history of being a first responder—of developing products that keep occupants safe in the event of disasters, attacks or even everyday accidents.

— KATY DEVLIN

Editor-In-Chief
kdevlin@glass.org

An Industry of “First Responders”
CRL’s 8010 Series Single Blade Sunshade offers flexibility in managing solar exposure and aesthetics using low-profile 12” blades that are easy to adjust and install.

- Blade angle adjustment in 5° increments
- Effective at reducing solar heat gain
- Rectangular or airfoil blade styles
- Tested for wind, snow, and dead loads
- Optional splice joints for long spans

Visit Us at GlassBuild Booth 6152
NGA ANNOUNCES ACTIVE SHOOTER TEST METHOD


Frequency and severity of school shootings have risen in recent years, and with it, an increased need for a relevant international standard that considers the need to slow and, if possible, prevent intruders from entering facilities through locked fenestration. Security glazing products are a part of the equation for designing and creating safer schools by deterring and slowing forced entry during active assault events.

After review of applicable security test methods, the school security task group of NGA identified gaps in the referenceable standards such as repeatable, mode-driven, consensus-based fenestration test methods, which included system weakening and forced entry. NGA’s school security task group was successful in getting a new comprehensible, yet simple-to-administer standard through the multi-step review process within eight months.

The test includes weakening of the fenestration system with projectiles followed by mechanically-driven impact to simulate an active shooter weakening the system and trying to force their way in. Fenestration products are rated on eight levels of forced-entry resistance. The test gives a range of performance options with easy-to-assess pass/fail criteria and will give specifiers performance and cost options to fit their needs.

“This is a major step forward toward making schools safer against forced entry from active shooters,” says Urmilla Sowell, NGA technical services and advocacy director. “NGA thanks the ASTM International F12 committee and the NGA school security task group members for their work on this issue, and to Julia Schimmelpenningh for her leadership and passion in advancing this standard.”

JULIA SCHIMMELPENNINGH, TECHNICAL ENGAGEMENT MANAGER FOR EASTMAN CHEMICAL CO., LAMINATING TECHNICAL LIAISON FOR NGA’S FABRICATING COMMITTEE, AND MEMBER OF NGA’S SCHOOL SECURITY TASK GROUP.

GLASSBUILD AMERICA HEADED TO DALLAS AND ORLANDO IN 2024 AND 2025

The National Glass Association has announced new locations for GlassBuild America: The Glass, Window & Door Expo in 2024 and 2025.

In 2024, GlassBuild will be held Sept. 30-Oct. 2 in Dallas at the Kay Bailey Hutchison Convention Center. In 2025, GlassBuild will be held Nov. 4-6 at the Orange County Convention Center in Orlando.

The changes in location deviate from GlassBuild America’s regular rotation of Las Vegas and Atlanta. GlassBuild was originally slated for Las Vegas in 2024; however, the Las Vegas Convention Center will be under partial renovation in 2024 and not optimal for GlassBuild that year, according to organizers from the NGA.

The tradeshow was scheduled to head to Atlanta in 2025, but several factors led NGA to look at Orlando, including frequent requests from attendees and exhibitors, a modern convention center that can hold GlassBuild comfortably, and experience hosting other large construction-industry tradeshows like GlassBuild, according to show officials.

“NGA is very excited to share this announcement that GlassBuild America is moving to new cities in 2024 and 2025,” said NGA Events Director Molly Grenn in a memo to GlassBuild exhibitors. “We hope to return to Las Vegas in 2026 and Atlanta in 2027.”

For more information, visit glassbuildamerica.com.
NGA Technical Committees Drive Industry Education and Advocacy Efforts

Industry technical leaders gathered July 18-20, 2022, for NGA Glass Conference: Chicago, where NGA’s Committee chairs provided updates on the important work accomplished by committee volunteers. Committee highlights from the conference:

Advocacy Committee
In April 2022, NGA member companies visited with Congressional members, legislative staff and agency officials from 12 states, plus the U.S. Environmental Protection Agency and U.S. Department of Energy, to discuss issues relevant to the industry as defined by the NGA Advocacy One-Pagers: School Security, Bird-Friendly Glazing, High-Performance Glazing Promotes Building Resiliency and Registered Apprenticeship Programs. The association is planning a follow-up event to be held next spring. In preparation, the NGA Advocacy Committee and consultants are working to refine the industry topics to address with lawmakers and agency officials, based on information from the glass and glazing industry. A one-pager on Architectural Glass Recycling will
also be updated based on discussions with the EPA.

The NGA Advocacy Committee will participate in the new Clearinghouse on School Security, established by the new school safety legislation. NGA will recommend resources to guide school security glazing for schools.

Additionally, the group revisited a presentation from the January NGA Glass Conference: Long Beach. Task group members revisited the themes of the presentation, “Physiological Impacts of Light on Human Health & the Implications to Glazing,” which included research on violet lights’ correlation to retinal development. The task group will meet with researchers again in September to keep informed and engaged as new research results emerge.

Visit the Advocacy page on glass.org to see the latest activities and links to resources.

**Forming Committee**
NGA and several member companies are working with Building Transparency to develop the glass category for the Embodied Carbon in Construction Calculator, also known as EC3. The next task group meetings will include fire-rated glazing companies. The task group is also seeking volunteers with expertise in curtain wall.

The Health Product Declarations Collaborative will meet with NGA task group members to refine how glass should be reported on HPDs.

**Fabricating Committee**
The NGA Fabricating Committee is updating the Laminated Glazing Reference Manual to reflect several updated ASTM standards and to add new sections including adhesion and...
GLASS INFORMATIONAL BULLETIN

Point-Supported Glazing

Architectural glass is typically supported by capturing the edges with framing. In contrast, point-supported glazing is attached to the structure using fittings directly connected through holes in the glass or with fittings through the joints between the glass. Structural glass canopies, skylights, guards, handrails and façades can be designed to be point-supported to reduce the visible barrier between the outside and the inside of buildings.

Hardware

Point-supported hardware is supplied by several manufacturers. Typical hardware includes a simple bolt and patch plate system, a simple countersunk bolt, hardware with flexible washers and gaskets within the supporting structure, and hardware with articulated bolts.

The structural glass must be designed and fabricated properly to be compatible with the hardware system specified. The amount of stress in and around the holes in the glass will vary depending upon the location and size of the clamping hardware, as well as the load applied to and geometry of the glass lite. Glass holes and notches shall be designed and fabricated in accordance with the guidelines established in ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass. Loading requirements may dictate a more conservative approach to hole and notch locations than found in ASTM C1048. Design and fabrication processes should be coordinated.

Vertical glazing applications

Vertical glazing can use monolithic or insulating glass units of fully tempered glass or heat-strengthened or fully tempered laminated glass. The weight of vertical façades can be floor-loaded, stacked or suspended. The weight of the glass for high vertical walls can cause buckling of the lites if they are stacked too high. Façade systems above a certain height, as determined by the project-specific hardware and glass makeup, will need to be suspended from above.

Deflection and construction tolerances as defined by the Engineer of Record must be incorporated into the façade design and connections to the building structure. The differential deflection of adjacent structural elements to which the glass is attached should be taken into account to allow for this movement within the perimeter framing of the glass opening and to maintain adequate bite and engagement.

Sloped glazing applications

The fundamental difference between sloped/overhead glazing (15 degrees or more from vertical) and vertical glazing is that sloped/overhead glazing is subject to a permanent gravity load from its self-weight and may be subject to a long-term snow load or maintenance activity load.

Building codes require laminated glass or mesh screening beneath the glass for sloped glazing in order to retain broken glass fragments and prevent glass fragments from falling on persons below in the event of breakage.

impact. A new Decorative Glazing Manual is planned for development as well as a new Mirror Design Guide. The proposed research project, Post Fabrication Edge Grinding of Laminated Glass, was reviewed and additional questions will be discussed with consultants.

The Fabricating Committee established new task groups to draft AIA presentations on several topics, including:
- School Security - Glazing Options for Windows and Doors Installed in Schools
- Thermal Bridging Considerations at Interface Conditions
- Bird-Friendly Glazing Design
- Daylighting
- Vacuum Insulating Glazing.

The NGA Fabricating Committee also called for volunteers to assist task groups in drafting or updating the following Glass Technical Papers:
- Benefits of Decorative Glass in Daylighting Applications
- Guidelines for Use of Capillary Tubes
- Emergency Egress Through Laminated Glazing Materials (This document will be updated to include tempered and IGU egress.)
- Use of Glass in Guardrails
- New - Acoustic Performance of Vacuum Insulating Glazing (VIG)
- New - Bent Insulating Glazing Units
- New - Challenges Faced by Fire-Rated Glazing.

The committees will meet next at the NGA Glass Conference: Miramar Beach, to be held Jan. 24-26, 2023, at the Hotel Effie Sandestin - Miramar Beach. Visit glass.org for more information and additional resources.
When designing laminated glass for sloped glazing, the interlayer properties for the appropriate load durations should be used. Snowdrift loading must be included in the calculation as it can often be several times the magnitude of the ground snow load. Flat roofs or canopies may also be susceptible to water ponding if the glass deflection under gravity load is excessive.

**Design calculations**

Engineers who are familiar with the use of glass as a structural material have studied the experimental statistical analysis data, safety factors, and the breakage probability theories that form the basis for failure prediction models. They are able to determine the glass thickness required for the size of glass lites, and the applicable code-designated design loads, the usage of the glass, and its location on the building.

As a general guideline, an acceptable allowable stress at holes in glass is 9,700 psi (67 MPa) for fully tempered glass, and 3,500 psi (24 MPa) for heat-strengthened glass per ASTM C1048. These values can be used conservatively for designing to a probability of breakage equal to or less than 1/1000 lites and are applicable for short-term and long-term load duration. These values apply for cylindrical holes or countersunk holes within limitations (consult with the design engineer). The holes should be free of unacceptable edge damage and/or imperfections such as chips or shells. Higher stress values, alternate hole configurations, and alternate glass makeups may be used if validated by testing.

**Glass deflection**

If the glass lite deflects laterally by more than half its thickness, large deflection, non-linear plate theory must be used when analyzing the performance of the glass. Finite element analysis is often required to determine the amount of stress and deflection of the monolithic tempered or laminated glass lite. The movement capabilities and limitations of each hardware connection system must be taken into account. Deflection of the glass lite under load causes the relative distance between the point supports to decrease. Allowance for this motion must be designed into the supporting fittings by using, for example, oversized holes or slotted connections.

The designer must limit the glass deflection under load by specifying thicker glass or altering the position or number of supporting points because the increased flexural strength of the glass does not change its stiffness. Accurate values for the interlayer properties are needed for analysis of point-supported laminated glass. These properties are dependent on temperature, interlayer type and load duration.

**Safety**

It is very important to assess the safety implications of glass breakage and associated risk of injury from falling glass. Design redundancy must be used to avoid or greatly reduce the possibility of progressive collapse of the point-supported system should one element fail.
“Raise Your Glass With Excellence”

INDUSTRY PARTNERS

[Logos of Vitro, Guardian Select, vetro tech, DFI, IGCC, and trosifol]

1.800.490.3860 | Fax: 1.209.229.1061 | 1448 Mariani Ct, Tracy, CA 95376, USA | WWW.GLASSFABUSA.COM
For 150 years, Binswanger Glass has shaped the built environment with award-winning architectural glazing solutions. The foundation that Binswanger Glass was built on 150 years ago still holds true today; quality products, excellent service, and competitive prices. From single entrance doors to entire office buildings, as the largest and most experienced full-service glass company in the US, we offer a complete range of architectural products and services to meet nearly any commercial glazing requirement. Regardless of the size or scope of a construction project, we design, create, and install all types of products with safety and sustainability top of mind. Binswanger Glass has the versatility, footprint, and capabilities to handle it all.

Ranked as Glass Magazine Top 50 Glazier, collaboration is the key to our success. From pre-construction design assist to close-out inspections, Binswanger Glass partners with stakeholders throughout the project.

Trust your next construction project to the largest and most experienced full-service glass company in the US with over 55 company-owned locations.
For 150 years, Binswanger Glass has shaped the built environment with award-winning architectural glazing solutions. The foundation that Binswanger Glass was built on 150 years ago still holds true today; quality products, excellent service, and competitive prices. From single entrance doors to entire office buildings, as the largest and most experienced full-service glass company in the US, we offer a complete range of architectural products and services to meet nearly any commercial glazing requirement. Regardless of the size or scope of a construction project, we design, create, and install all types of products with safety and sustainability top of mind.

Binswanger Glass has the versatility, footprint, and capabilities to handle it all. Ranked as Glass Magazine Top 50 Glazier, collaboration is the key to our success. From pre-construction design assist to close-out inspections, Binswanger Glass partners with stakeholders throughout the project.

Trust your next construction project to the largest and most experienced full-service glass company in the US with over 55 company-owned locations.
Guardian Glass Sells Two Russian Facilities
In response to the Russian aggression against Ukraine, Guardian Glass has sold its two float glass manufacturing facilities in Russia, according to officials. The sale will affect 600 employees, according to a statement from Dave Robertson, president and chief operating officer of Koch Industries, the parent company of Guardian. Robertson first announced the company’s plan to close the facilities in April.

The business was sold to Vladimir Alexandrovich Voronin, president of FSK Group, a private enterprise in the construction industry.

“This is an outcome facilitated and supported by plant employees and complies with all applicable sanctions, laws and regulations,” Robertson says in a company press release. “We continue to condemn Russia’s actions and aggression in Ukraine and remain united in support of all who have been harmed by this horrible conflict.”

Saint-Gobain Offers New Low-Carbon Glass
Saint-Gobain Glass is now offering a new glass with the lowest embodied carbon on the façade market, according to the company. The new products will use a glass with an estimated carbon footprint of only 7 kg CO2 eq/m2, for a 4-millimeter substrate.

This new low-carbon glass will be combined with the existing Cool-lite Xtreme coating technology, which already reduces carbon emissions generated by energy consumption needed when using the building thanks to its high performance in terms of daylight intake, solar control and thermal insulation. As a result, the new range will offer the lowest carbon footprint on the market, say company officials, with a reduction of around 40 percent compared to its European baseline product.

Solar Seal Closes Massachusetts Location
O3 officials confirmed that the South Easton, Massachusetts, location of Solar Seal will be closing. Solar Seal Architectural, a location in Connecticut that is licensing the name, has no common ownership with the South Easton location, and will remain open. O3 Industries acquired the company’s South Easton facility after the bankruptcy of its parent company, Consolidated Glass Holdings.

Şişecam Invests in Second Patterned Glass Line
Şişecam invested in a patterned glass furnace with a capacity of 661 tons per day and energy glass processing lines with a capacity of 21.5 million square feet per year. This new investment in Mersin/ Tarsus OIZ in Turkey amounts to $190 million, including working capital. With this latest investment, Şişecam aims to be one of the main suppliers in the renewable energy investments globally, say officials.

AGC Glass Europe to Launch a New Low-Carbon Glass Range
AGC Glass Europe announced a new glass range with a significantly reduced carbon footprint, to be launched by the end of 2022. “I am very proud to announce that, with our continued progress in decarbonization, AGC will launch its first low-carbon glass product range by the end of 2022,” says Davide Cappellino, president of AGC Architectural Glass Europe & Americas. “This represents a key milestone in our road map to carbon neutrality.”

Powr-Grip Purchases Aegis Tools’ Assets and Trademarks
Woods Powr-Grip Co., a manufacturer of vacuum cups and vacuum lifting equipment used to handle glass and other materials, has purchased AEGIS Tools International Inc.’s assets and trademarks. AEGIS is a designer and manufacturer of windshield repair equipment and auto installation tools. This decision comes as AEGIS owners Robert and Caryn Birkhauser plan on retiring nearly four decades after Robert developed the first AEGIS Windshield Repair System.

“Our relationship with WPG goes back to the very beginning of AEGIS, because most of our proprietary products are
Inowa

Innovative hardware for quality sliding patio doors in Aluminum profiles.

Concealed Hardware

Energy Efficient

Ease of Use

Excellence in Window and Door Hardware | rotonorthamerica.com

Sliding Patio Door • Swing Door • Patio Fold • Patio Lift • Casement • Tilt & Turn • Sash Locks
based on WPG components,” says Robert Birkhauser. “We know that our products and customers will be in excellent hands.”

Peerless Products Expands Facility
Window and door manufacturer Peerless Products Inc. announced it will expand its existing facility in Nevada, Missouri; investing $3.5 million and creating 111 new jobs. This expansion will increase the company’s production capacity at the facility, which is used for warehousing, manufacturing, and research and development.

In addition to adding 111 new jobs, the company’s expansion includes significant investment in new machinery and equipment. Renovations of its 220,000-square-foot location are underway to update the space and ensure readiness for continued growth. The company plans to host an open house and ribbon-cutting ceremony later this year.

Consolidated Glass Breaks Ground on Glass Lamination Line
Consolidated Glass Corp. broke ground on its new glass lamination line, which will be installed and fully operational by the first quarter of 2023.

“Seeing this dream become a reality is a dream come true. This exciting addition to our operation will allow us to begin servicing new markets, while propelling Consolidated Glass Corp. forward into the next phase of our long-term growth plan,” says Shane Merryman, president and CEO.

Petersen Opens New Manufacturing Facility
Petersen opened a new PAC-CLAD manufacturing facility in Bonney Lake, Washington. The facility will be equipped to provide new and existing customers in Washington, Oregon, Montana, Idaho, Utah, south to Fresno, California, and British Columbia with PAC-CLAD steel and aluminum cladding products, including standing...
As Şişecam Flat Glass, with our glass expertise and wide range of products, we will continue to be on the same side of glass with you.
Visit both GED and Norfield at booth # 2010 at GlassBuild America.

Improved quality and increased capacity at the lowest total cost.

Connected and optimized through software.

Flexible solutions with high returns on investment.

Visualize your production floor & tour machinery: gedusa.com/window+doorexperience

seam roof panels, wall panel systems, plus sheet and coil.

**Trulite Canada Adds Fusecube Express**

Diamon-Fusion International announced that Trulite Canada has added the FuseCube Express to its line of fabrication capabilities. The protective glass coating machine streamlines the application of Diamon-Fusion glass treatment onto both sides of the surface, allowing Trulite Canada to offer easy-to-clean, low-maintenance benefits to their line of glass railing and architectural systems, say officials.

**Vitro Celebrates 50-Year Anniversary**

Vitro Architectural Glass celebrated 50 years in business by planting two trees outside of its manufacturing plant in Carlisle, Pennsylvania, which has been in commission since 1972. “The planting of two trees on our site is a small, yet symbolic tribute to the two production lines at Carlisle that are responsible for producing glass that helps keep buildings and homes energy-efficient,” says Darrell Jewell, Vitro Carlisle plant manager.

**PEOPLE NEWS**

**Halio** added **Dmitry Lipkin** to its leadership team as vice president of global marketing. Lipkin has over 27 years of high-tech marketing experience and strong industry relationships to the company. Previously, he has led global marketing teams with companies such as NXP Semiconductors, Maxim Integrated, Applied Materials, and Flextronics.

**AkzoNobel** introduced **Gregoire Poux-Guillaume** as its new CEO. The 52-year-old French national brings 25 years of international business
See us at GlassBuild America, booth 7165.

Stand out from your competition

Homeowners love the ease and beauty that Blink blinds between glass brings to their home. Increase your margins with no investment. Include Blink in your offering!
(or someone else will)

blink® BLINDS + GLASS

An ODL Brand

Visit blinkblinds.com to learn more.
NGA can help you grow a more successful business. Learn more in the Industry Pavilion at GlassBuild America.

Join TODAY!

NGA

SOLUTIONS FOUND HERE.

Top Quality Glass Racks & Truck Bodies Since 1989

All racks ship fully assembled with detailed instructions. Factory authorized installations available across North America. Glass trucks built to order and in-stock for fast delivery.

Van Racks  Pick-Up Racks  Truck Bodies  Trailers

MyGlassTruck

We design and build every glass rack in Glassboro, New Jersey. We use state-of-the-art equipment to ensure that every glass rack is built to the highest standard.

Call today for a FREE Quote!

(844) 364-6022 MyGlassTruck.com

See us at GlassBuild America, booth 6130.

NEWS TO KNOW

leadership experience, previously serving as CEO of Sulzer and CEO of GE Grid Solutions.

Poux-Guillaume replaces Thierry Vanlancker, as his term comes to an end after five years in office. He begins officially on Nov. 1, pending Board of Management shareholder approval at the Extraordinary General Meeting.

GIMAV, the General Assembly of the Italian Association of Suppliers of Machines and Accessories for Glass Processing, named Dino Zandonella Necca as president of the association. Zandonella Necca will serve as president from 2022 to 2026.

Zandonella Necca is the CEO and president of ADI Srl, a member of the Board of Surfaces Group and the former president of Vitrum since 2015. He was elected during an assembly meeting on June 29 at its office in Milan.

Nancy Mammaro, CEO of Mappi, was also elected vice president with responsibility for the sector flat glass by GIMAV, the Association that brings together the Italian manufacturers and suppliers of machines, accessories, equipment and special products for glass processing.

Vitro Architectural Glass named Dan Stipetich as its new director of commercial sales for the U.S. In this new role, Stipetich will lead a team of commercial account managers across the country, serving the commercial construction industry.

The company also appointed Heather Brion as director, U.S. Architectural Development. She previously held the
Schüco windows, doors and curtain walls are well known for their thermal and acoustic performance. Now you can procure our products fabricated in the US, right at the Schüco North American Headquarters in Newington/CT, where we combine German engineering and quality standards with the peace of mind only a US-based manufacturer can provide.

As your true partner, you can count on us from the design assist phase of your projects, through engineering, fabrication and installation. Contact us today to experience the powerful delivery model of Schüco first-hand. [www.schuco-usa.com/contact]
position of director of architectural development for the Western region.

Additionally, Joe Sennese is now Vitro’s manager of product sales and business development. He has 25 years of experience in the construction products industry, 16 of those with Vitro.

**Kolbe Windows & Doors** appointed David Zentrich as the new vice president of information technology. Zentrich joins the company’s executive team and reports directly to Kolbe’s president, Jeff DeLonay.

Zentrich brings over two decades of experience in a variety of industries to Kolbe, from health care to manufactured housing. Kolbe hopes Zentrich’s background in strategic and technical leadership, as well as infrastructure modernization, will assist in advancing Kolbe’s corporate initiatives.

**Xinglass** appointed Joseph Santelli as sales representative in the U.S. and Canada. In this role, Santelli will be responsible for the sales of glass tempering furnace products in North America. Santelli has more than three decades of experience and expertise in the field of glass tempering furnaces and glass processing.

**SmartGroup America**, a new company offering a glass lifting manipulator, appointed Eric Maynard to lead its marketing efforts as the national sales director. In his new role, Maynard will focus on building SGA’s brand awareness through marketing, sales, and educational offerings while building a support and sales team to serve the glass and glazing communities across the nation.

*From July 8 to press time Aug. 4. Read these stories, and others, in their entirety at GlassMagazine.com.*
Engineered with titanium dioxide coating technology, Pilkington SaniTise™ is an antimicrobial glass product made to protect against bacteria and enveloped viruses. Have some peace of mind knowing your glass surfaces are continuously working for you.

Pilkington SaniTise™. For a healthier, cleaner, safer world.
Insurance policies are contracts that require the same attention and management as agreements for purchase and sale. Simply having “insurance” is not enough to recover the benefits for all the premiums paid to maintain that coverage. A recent court case involving an injured worker emphasizes the point.

Moreno v. Sentinel Insurance
The case was Moreno v. Sentinel Insurance and was decided by the Fifth Circuit Court of Appeals. It was a seemingly straightforward workplace injury claim: an employee of a painting subcontractor fell from a ladder and was injured. A lawsuit followed against the builder and painting company.

The job contract between the builder and the painting company required that the builder be named as an additional insured on the painter’s insurance policy. The builder independently notified the painting company’s carrier and demanded a defense of the lawsuit under the terms of the job contract. The painter’s carrier responded and defended the claim against the builder.

The painting company did not notify its insurer. Instead, the painting company retained a lawyer and began defending the claim at its own expense. It continued to defend the claim even after its own insurance company reached out asking about the claim due to the builder’s additional-insured notice. At no point did the painting company specifically ask its insurer to defend or indemnify it from the lawsuit’s claims.

A key issue before the Fifth Circuit was whether the insurance company owed an obligation to the painting company on the policy contract when it knew of the claim but never received a specific request for defense. The court said no. At its most basic, the court found that unless an insured directly asks for the benefits in a policy contract, an insurance company does not need to respond, even when it knows about a claim.

THE BOTTOM LINE
SPECIFIC MANAGEMENT OF INSURANCE CLAIMS IS A KEY COMPONENT TO EFFECTIVE RISK MANAGEMENT IN RESPONSE TO ANY LOSS, BE THAT EMPLOYMENT, PROPERTY, AUTO OR GENERAL LIABILITY.
Discover the New

MTH MONOLITH

THE Biggest WAY TO TEMPER GLASS

Could a big furnace be extremely flexible? Could a big furnace be user friendly? Could a big furnace be an energy saver?

Yes, if it's a new MAPPI MTH.
Case takeaways
Conditions and caveats to that broad conclusion can exist. The painting company’s conduct may have played an outsized role in the decision from the court. Despite that, the value in the decision remains: specific management of insurance claims is a key component to effective risk management in response to any loss, be that employment, property, auto or general liability.

Notify of potential losses
Direct, specific notice of a new potential loss must be timely and effectively presented to an insurer. This means knowing what insurance contracts are available and the benefits that should be demanded when submitting a claim. A good broker can help here. It also means complying with claim submission requirements and being able to document that the demand was submitted.

Incomplete is better than nothing
It is also important to remember that early notice does not need to be complete to be effective. Most claims come in with very little information. This should not mean notice on an insurance contract is delayed. Insurance companies are in the business of gathering information to assess risk throughout the life of a claim, and an initially incomplete notice is better than no notice.

Provide supplementary information
No matter how much information is provided with the notice, additional information will come to light as a loss is investigated. Insurers will request foundational information at intake and regular updates throughout the life of a loss claim. Active supplement of information and response to carriers can help maximize policy benefits and is very likely a requirement of the policy contract.

Track correspondence
When an insurer responds to notice, keep track of those responses and positions. Where a claim’s circumstances are unclear, an insurer may agree to assist based on a “reservation of rights.” This is a legal position that allows the carrier to help but preserves reimbursement and other rights within the policy if the facts change. Careful review, assessment and response to these positions can help preserve an insured’s rights.

Don’t fear giving notice
Finally, do not fear giving notice because a claim might be denied or there is some uncertainty whether it falls within the policy terms. As mentioned, insurance carriers have teams to investigate notices and issue claim responses. Where a claim is submitted but later denied, a contractual contest may be possible. But where no notice is given, that contest often never gets very far, as our painting contractor found out the hard way.

Matt Johnson is a member of The Gary Law Group, a Portland, Oregon-based firm specializing in legal and risk issues facing manufacturers of glazing products.
Glasswerks laminated glass is available in a wide variety of configurations for diverse glazing applications. Glasswerks laminated products encompass a vast spectrum of performance and design options. Combinations of glass substrates, interlayers, screen prints, low-e coatings, curved glass all provide extensive design options to meet specified performance levels required for today’s glazing environment.

We are pleased to announce our new laminating capabilities just added to our Yuma, Arizona facility. Please email your inquiries to sales@nwi-az.com.

GLASSWERKS LAMINATED GLASS

Glasswerks laminated glass is available in a wide variety of configurations for diverse glazing applications. Glasswerks laminated products encompass a vast spectrum of performance and design options. Combinations of glass substrates, interlayers, screen prints, low-e coatings, curved glass all provide extensive design options to meet specified performance levels required for today’s glazing environment.

We are pleased to announce our new laminating capabilities just added to our Yuma, Arizona facility. Please email your inquiries to sales@nwi-az.com.

**Wide Range of Laminated Glass Capabilities**

- Laminated Annealed Sizes Up To 300”
- Laminated Tempered Sizes Up To 268”
- Laminated Bent Glass
- Jumbo Laminated Glass
- Solar and Sound Control
- Security and Safety

**888.789.7810**
glasswerks.com
glasswerks@glasswerks.com
UNLOCK THE BUSINESS-BUILDING SECRET OF GLASSBUILD AMERICA

BY CRISTINA MURRAY

Being at the center of the glass universe presents a world of possibilities. For many, education is right up there with sales. What’s the latest in fenestration code? What’s being discussed by code committees? What’s new in agency regulations and safety requirements? The scheduled education sessions promise many revealing insights that can help guide your product planning process.

GlassBuild America also presents another kind of education. While less formal, it yields breakthroughs of a different sort. I’m talking about the vast array of companies in attendance. Like nowhere else, the event offers up an immense range of potential solutions to any supply chain challenges you may be facing.

Chances are you’ve already vetted numerous alternative component suppliers as a hedge against future disruptions. You may be actively considering different materials, say a comparable part from a different supplier that promises improved availability, lead times or both.

Searching for suppliers
GlassBuild America is the perfect place to supercharge your supplier search. Where else can you go face-to-face with potential suppliers that may be unknown to you now? The show is an exclusive opportunity to ask four questions every performance-minded insulating glass manufacturer should consider in a vendor selection:

1. Does the material meet the specification of my product?
2. Is it adaptable with my equipment or machinery?
3. Is the supplier easy to work with?
4. Is it going to provide the quality and durability my customers expect?

Thinking long-term
The answer to each of these questions is important. However, it’s the last question you’ll want to pay special
The solution to every kind of handling requirement

**we move glass**

**Bottero** solutions for material storage and handling can provide answers to the requirements of any glass factory that wants the connection between the material storage areas and the production lines more efficient and rapid.

**Bottero** systems are compact and optimize the warehouse as well as speeding up the connections, while also offering the possibility to quickly manage glass sheets, that differ in material, format and thickness. These solutions for glass storage and handling allow customers to improve the capacity, flexibility and efficiency if their glass manufacturing plant.

The gantry system 695CAA is equipped with a telescopic frame system and Bottero patented system for the automatic removal of spacers.

This is an integrated solution for the handling of LES, JS and XJS glass sheets up to 12m. It gives the largest flexibility in the warehouse management thanks to the integration of our stock systems that can have fixed positions on the ground but also automatic classifiers.

The integration with Bottero over-turning machines and the stocking system of rest pieces, complete the range.

Visit Bottero Flat Glass in Booth 6174
Oct. 18–20, 2022 | Las Vegas
attention to. Any change to how you develop or build your product has the downstream potential to impact your company long after delivery is made.

Keep that in mind as you consider adjustments to your supplier network. Especially as it relates to:

Product warranties. Field failure is one of a window manufacturer’s biggest concerns. Making replacements is not only costly, but disrupts your production schedule. It also puts your reputation in peril. How likely is a customer referral if a unit fails within a year of installation?

Internally, your team will need to identify the failure cause and make sure it doesn’t happen again. Perhaps it was a replacement spacer used as a stopgap measure to keep production rolling. Are you on the hook for dozens, perhaps hundreds, of faulty products? Why put yourself through that? GlassBuild America is a superb time to assess the best of the best.

Value-added service. Yes, product availability and lead times factor huge today. But don’t neglect the other services that may be available through a new supplier.

Consider staff training, for example. In the case of a spacer failure, a deep dive into the cause might reveal an assembly issue. A spot check of numerous units might show similar spacer application mistakes. No single person may be responsible. It could be a training issue, understandable these days because of high turnover and new hires on the production line.

Does your spacer supplier—or other supplier—have your back on how to confidently institute best practices on the assembly line? Are they able to provide fast technical assistance? Will they help audit your production process and help you identify and troubleshoot any other material or assembly issues?

A “yes” to those questions may give you a leg up on competitors and add dimension to your product catalog. Don’t underestimate what a fresh pair of eyes, along with a different manufacturing experience and perspective, can bring to a production line as well as your bottom line.

Making the most of the show
You have an opportunity to network with countless suppliers at GlassBuild America 2022. Make the most of your time there. Ask questions. Evaluate responses. Scout out potential new partners that offer the insights and materials you need to power your operation to new heights of quality, efficiency and performance.

Put this world-class event to work for your leadership team, workforce and customers.

Cristina Murray is director of marketing, North America for Quanex.
Helping you succeed with glass through innovative products and service you can trust.

dreamwalls.com // 800.334.7267

INNOVATIVE GLASS PRODUCTS

Finish your projects with pizzazz.

Get decorative, value-added glass and mirror products to add impressive finishing touches to your projects.

Over the last 60 years, Dreamwalls has delivered over 1 billion square feet of glass and mirror products all over the USA. Contact us for fast friendly service, in-house fabrication, and quality products delivered on-time.

Call us for a quote when you need:

✓ Markerboards
✓ Backpainted Glass
✓ Laminated Glass or Mirror
✓ Tempered Glass or Mirror
✓ Antique Mirror
✓ Sandblasted Mirror
✓ and more...

Helping you succeed with glass through innovative products and service you can trust.
dreamwalls.com // 800.334.7267

See us at GlassBuild America, booth 9093.
Glass door and entrance systems must meet a multitude of criteria that include requisite functionality, aesthetic benefits and complying with performance and safety measures. This can become a tall task. But by looking at industry trends in glass door design, architects and glaziers can better select and install systems that effectively balance looks, performance and durability.

**01 TALL GLASS DOORS**

In retail spaces first impressions are everything, so installing striking glass entrance systems that quickly catch the eye is key. That’s why monumental glass doors with heights ranging from 10 to 12 feet are becoming more prevalent. New technologies and fabrication methods allow smooth operation of these heavy glass doors, and now tubular panic devices have been developed that can complement these heights.

The type of glass that must be used varies as the glass door gets taller. This is because of wind load and deflection factors. Also, at greater heights, certain door hardware like patch fittings are no longer enough to secure the door, so full-length top and bottom door rails are required. The National Glass Association’s Heavy Glass Door Design Guide is an excellent resource for information on glass compatibility in relation to door height.

**02 LARGE-SCALE MOVABLE WALLS**

Commercial establishments, particularly restaurants, are creating open-air spaces that provide seamless transitions from interiors to exteriors. This produces engaging environments with visual stimulation and bustling energy. An increasingly popular way of doing this is by selecting expansive movable walls that take the form of large-scale sliding and bi-folding doors. Newer systems feature minimal panel frames so there’s less obstruction. They’re also available in heights of up to 13 feet to enhance daylighting, views and perceived openness.

If large-scale bi-fold and sliding doors are being installed in coastal regions with high winds, check that they have Florida Product Approval. This speaks to the system’s resiliency as it complies with Florida building code. It is also important to check that the manufacturer has performed adequate cycle testing to ensure structural integrity after extended use.
FASTEST LEAD TIMES IN THE INDUSTRY

Vetrotech believes that fire-rated glass doesn’t need to take forever. Instead of waiting nearly six months for your fire-rated glass and framing, you can have it on site in approximately 10 weeks with Quick Ship from Vetrotech! As soon as we have approved drawings, we start the manufacture of your custom order and ship the installer-friendly assembly to you far quicker than anyone in the industry.

Don’t let your project get delayed; contact your local Vetrotech representative or email VetrotechUSA.Sales@saint-gobain.com.

On the Safe Side
888-803-9533
vetrotech.com
03

THERMALLY-IMPROVED SYSTEMS

With the challenges that climate change has brought to building design, energy-efficient doors are now becoming the norm, particularly in regions with extreme heat or cold. New fabrication technologies have resulted in advanced entrance systems that offer great thermal performance. This means they’re effective at keeping interior temperatures cool during the summer and warm during the winter, placing less strain on heating and cooling systems.

For best results, thermally-improved glass doors should be paired with 1-inch insulating low-emissivity glass. The airspace between the glass can be filled with argon gas for even better performance. Keep in mind that next-generation thermal doors feature ultra-narrow 1-1/8-inch stiles, delivering an ideal balance between thermal performance and in-demand, all-glass aesthetics.

Each of these trending glass door and entrance systems meets a different industry need, but in each case, they appeal to architects, building owners and end users alike. Consequently, they present striking designs that leave lasting impressions while meeting performance requirements, and should be strongly considered for upcoming entrance and movable wall installations.

Mark Suehiro is the technical director of architectural hardware at C.R. Laurence, with more than 25 years of industry experience.
NACC GLAZING CONTRACTORS ARE IMPROVING THE INDUSTRY

“Being certified by NACC allows us to maintain a level of excellence that we always strive for. Having impartial eyes giving us feedback on our procedures solidifies the quality and safety standards we are dedicated to providing for our customers.”

– Mike Haverly | President
Architectural Glass & Metal (AGM) | Clifton Park, NY

MITIGATE RISK.
BUILD BETTER PROJECTS.
STRENGTHEN THE INDUSTRY.

WWW.NACCPROGRAM.COM

The North American Contractor Certification Program recognizes architectural glass and metal contractors that consistently demonstrate quality and safety excellence.

The program offers an ANSI-accredited third-party endorsement of companies having completed a significant and time-intensive evaluation process establishing a baseline for competency, business practices, and adherence to industry-accepted guidelines.

See us at GlassBuild America, booth 6207.
The basics: Pulp Studio created a unique, mineral-ingrained glass artwork mural for UCLA’s Centennial that is a permanent celebration on campus. Pulp Studio worked with artist and Professor Emeritus Judy Baca and the SPARC team. Developed through two prototypes and multiple full scale mock-ups, prior to the final fabrication of the production, the mural commemorates the excavation of Westwood, and the diversity of people who have attended and supported the University from the beginning to the present.

The design: The story of Westwood flows over three 26-foot-long panels, which begin with a tribute to the land, detailing where the Los Angeles River once flowed through campus and where original tribes and native flora and fauna thrived. The second segment pays homage to the many men and women who have shaped the UCLA community beyond the physical borders of the campus. The final segment of the mural represents an imaginative depiction of the future in which the ever-changing university is in harmony with the original land.

The artistic team: The mural is the result of a partnership between the UCLA Centennial Committee; Associated Students UCLA, or ASUCLA, a nonprofit association that supports student services and activities throughout campus; the Digital Mural Lab from the Social and Public Art Resource Center, or SPARC; and is by lead artist Judith Baca, who is an activist and UCLA professor emeritus, and who envisioned the imagery and sought mixed mediums in art and print to incorporate into the mural. Pulp Studio fabricated the glass; Rountree Glass was the installer.

The glass: The first surface of the glass is an anti-reflective/non-glare coating which has been tempered and laminated with SentryGlass Plus for an overall thickness of \( \frac{3}{16} \) inches. The second surface features Pulp Studio’s D2G imaging process which digitally prints images with ceramic ink directly to the glass surface. The ink is fused with heat into the surface creating an image that has a high durability and permanence. Each panel is printed from top to bottom creating a full overall image which is reminiscent of a painting and fitting for an art piece honoring 100 years of the University’s history.

Learn more at pulpstudio.com or 310/815-4999.
Customized Solutions with HEGLA.

Combined Expertise for Your Future Solutions

With machines and integrated systems from HEGLA, you can achieve maximum precision, quality and automation. Efficient software solutions from HEGLA-HANIC optimize your production control and planning. Innovations such as laser-assisted glass finishing and laser marking from HEGLA boraident further increase your added value. The high-performance tempering furnace technology of HEGLA-Taifin offers you superior quality for optimum production results for maximum customer satisfaction.

GlassBuild America
October 18-20, Las Vegas
Booth 6007
Free Pass: GBAEX22

glasstec
September 20-23
Düsseldorf, Germany
Booth A55-E55
YOU ASKED.

Best-In-Class Protection for a Dangerous Job

Cut A9 Garments up to 30% Lighter

Revolutionary AeroDex® Technology garments are lighter, more comfortable, and deliver critical protection.

Gloves that Last 6X Longer

Our entire line of gloves delivers a combination of high cut resistance, dexterity, and glass-industry-approved coatings.

Unmatched Service & Savings

Magid leads the safety industry with revolutionary innovations in PPE, a team of safety experts, skilled in-house manufacturing, and a worldwide network of suppliers for head-to-toe PPE.

magidglove.com/glass-mag
800-203-9540

Lighter, more comfortable PPE that stands up to your needs.

TRY IT FREE!

Glass Manufacturers
WE ANSWERED.

Best-In-Class Protection for a Dangerous Job

Cut A9 Garments up to 30% Lighter
Revolutionary AeroDex® Technology garments are lighter, more comfortable, and deliver critical protection.

Gloves that Last 6X Longer
Our entire line of gloves delivers a combination of high cut resistance, dexterity, and glass-industry-approved coatings.

Unmatched Service & Savings
Magid leads the safety industry with revolutionary innovations in PPE, a team of safety experts, skilled in-house manufacturing, and a worldwide network of suppliers for head-to-toe PPE.

See us at GlassBuild America, booth 7087.

magidglove.com/glass-mag
800-203-9540
SEE EVERYTHING IN GLASS, OCT. 18-20 IN LAS VEGAS

BY KATY DEVLIN
“See Everything.” That’s the theme of 2022 GlassBuild America: The Glass, Window & Door Expo, taking place Oct. 18-20 at the Las Vegas Convention Center. According to organizers from the National Glass Association, the tradeshow will be the largest industry gathering in North America, where representatives from all segments of the glass and fenestration industries can see new product and equipment solutions, interact with customers and suppliers, participate in continuing education new learning opportunities, and more.

“The number one reason individuals attend is to see the exhibitors and their products, but we also often hear they would like more education and more casual networking,” says Molly Grenn, NGA event director. “Coming up in Las Vegas, we will be delivering both.”

GlassBuild 2022 will feature more than 400 exhibitors over a 155,000-square-foot show floor. The show will include more than 90 international exhibitors representing over 20 countries. Additionally, more than 60 first-time exhibitors have signed on for the show. See new product innovations set for display at GlassBuild in Glass Magazine’s Product Showcase, beginning on page 52. Find trend information and new product announcements for fabrication machinery,
handling and transportation equipment, software, glass and component products, glazing systems, hardware and more.

Investments and trends
“Attending GlassBuild is [a] way to keep our finger on the pulse of the industry,” says Jennifer Walrich, product manager at Magid Glove and Safety. Attendees to the show can see new product innovations and equipment solutions firsthand and have much-needed in-person interactions with their suppliers and customers.

“I look forward to having face-to-face meetings with partners I have only spoken to on the phone yet never met in person and learning about new products and services,” says Syndi Sim, vice president, marketing and business development, Diamon-Fusion International Inc. “This year more than others, I look forward to spending time with industry colleagues—having an open dialogue about the challenges we are facing now and in 2023.”

Attendees say GlassBuild will be the venue for making investment decisions for their companies. “We make all our purchasing decisions based on our visit to GlassBuild. It’s a one-stop shop,” says Bill Sullivan, president and CEO, Brin Glass Co. “We can plan for our future and our current purchases.”

Additionally, the show helps glass companies prepare for trends and opportunities to come. “GlassBuild is a time to get together and compare notes with other industry partners to see their vision for the future of our industry,” says Morgan Donohue, president, Erdman.

Facing challenges together
The industry returns to GlassBuild following a year of uncertainty and challenges. Companies continue to struggle to find labor, while tackling inflation and supply chain issues. The best way to try to tackle those challenges, according to attendees and exhibitors, is by coming together. At GlassBuild, attendees can meet face-to-face with suppliers and customers, network and share solutions with...

---

**SCHEDULE AT A GLANCE**

**Monday, Oct. 17**
9 a.m.-4 p.m.
Registration Open

9 a.m.-5 p.m.
Glazing Executives Forum*

10 a.m.-4:30 p.m.
GlassBuild Main Stage Programming

**Tuesday, Oct. 18**
8 a.m.-5 p.m.
Registration Open

8 a.m.-5 p.m.
Glazing Executives Forum*

10 a.m.-5 p.m.
Tradeshow Open

**Wednesday, Oct. 19**
9 a.m.-5 p.m.
Registration Open

10 a.m.-5 p.m.
Tradeshow Open

**Thursday, Oct. 20**
9 a.m.-1 p.m.
Registration Open

9 a.m.-1 p.m.
Tradeshow Open

12 p.m.-2 p.m.
Tailgate Party

*Separate registration required

**“WE MAKE ALL OUR PURCHASING DECISIONS BASED ON OUR VISIT TO GLASSBUILD. IT’S A ONE-STOP SHOP”**

Bill Sullivan, president and CEO, Brin Glass Co.
Give your building a performance and aesthetic advantage. The Solarban® family of solar control, low-e coatings delivers myriad choices for solar control and aesthetics.

There’s a Solarban® glass for every project. Learn more at vitroglazings.com/solarban

There’s Always Another Level

See us at GlassBuild America, booth 6064.
peers, hear important market updates and forecasts from experts, learn about new technologies to ease top challenges, and more.

“Undoubtedly, the industry is facing some significant challenges,” says Sim. “We need to continue coming together with solutions. Bringing all facets of the industry together is vital during challenging times. Additionally, attending NGA events is crucial to stay updated on regulations, industry standards and changes in the economic environment.”

Tim Nass, vice president of national sales, Safti First, adds: “What we are seeing now is really unique, and hopefully a temporary economic phenomenon. But supply chain disruptions and pricing volatility has been a real issue. The key is communicating with the stakeholders so they understand the issue in real time.”

Education and networking
Attendees can find additional tools to tackle the industry’s top challenges at a series of education and networking events during GlassBuild.

Glazing Executives Forum
The popular Glazing Executives Forum returns for its 16th installment at GlassBuild. “The Glazing Executives Forum gives glazing company leaders the chance to brainstorm business solutions with peers and industry experts, an opportunity that is especially important in a market challenged by supply chain issues, pricing fluctuations and staffing shortages,” says Jenni Chase, NGA director of education & training.

“Our number one [reason for attending GlassBuild] is attending the Glazing Executives Forum,” says Brin Glass’ Sullivan. “Listening to the keynote speakers, the ITR economic presentation, connecting and re-connecting with my peers in the industry is very valuable.”

The event will take place Oct. 18 from 8 a.m.-5 p.m. in the Las Vegas Convention Center Rooms. Separate registration is

---

**LIMITE**

**HOLD ON OPENED POSITION LIMITING DEVICE**

4” limited opening.
Tool key release for maintenance/cleaning purposes
Built-in on the locking system.
Option of Longer limiting arms to reach desired opening per large windows dimensions.
Application for casement, out-swing, awning and hopper window.
For all type of eurogroove aluminum profiles and curtain wall windows.

**NYC DOH HDLD #07-03-2017**

---

Fapim®
Life in evolution

U.S. Office: Antonio D'Abrosca  T +1 3303286737  - antonio.dabrosca@fapim.it / BOOTH 7191
BRINGING YOUR CREATIVE VISIONS TO LIFE.

From building facades to stunning interiors and public art displays, GGI offers specialty glass solutions, custom fabrication and oversized capabilities designed to enhance the modern built environment. Glass that is functional, decorative and environmentally friendly, combined with precision workmanship and five generations of glass industry expertise. This is what you can count on from GGI.

ALL-GLASS SYSTEMS ● DECORATIVE GLASS ● FIRE-RATED ● SPECIALTY GLASS

800-431-2042 sales@generalglass.com www.generalglass.com
required to attend the Glazing Executives Forum. Visit glassbuildamerica.com for additional information.

**GlassBuild Main Stage**
New at this year’s show is the GlassBuild Main Stage, where all attendees have an opportunity to access quick-hitting, need-to-know industry forecast and trend information. Topics will include everything from a technical and codes update to the construction economic forecast, and fabrication best practices to information on curtain wall design and testing. The Main Stage, located in booth #10206, will also host the announcement and presentation of the 2022 Glass Magazine Awards. Visit glassbuildamerica.com for the complete Main Stage schedule.

**Tailgate Party**
Brand-new for 2022, attendees and exhibitors can participate in the GlassBuild Tailgate Party, Thursday, Oct. 20, from 12-2 p.m.

“The show will close this year with the GlassBuild Tailgate Party to give attendees a chance to unwind with their industry friends with music, games, food trucks, beverages, and a grill throwdown among industry members,” says Grenn. “It’s going to be a great time.”

Registration is $10 per person, with ticket proceeds going to the NGA Foundation to support glass and glazing industry educational programming. The Tailgate Party is sponsored by CRL and is open to all registrants of GlassBuild and the Glazing Executives Forum. Learn more at glassbuildamerica.com.

**Return to normal**
Exhibitors say GlassBuild America 2022 will continue the industry’s return to more normal operations since the start of the pandemic. The show was cancelled in 2020 and returned in person in 2021, but welcomed fewer attendees and international exhibitors due to travel challenges and continued pandemic concerns.

“This is the first GlassBuild back in Las Vegas, and the first show in what might be considered normal times,” says Barry Wood, vice president, marketing and commercial development, Woods Powr-Grip. “Last year, in Atlanta, there were still a lot of people who were hesitant to travel and be in crowded places. It was also really hard to travel internationally. So, there were very few representatives from overseas. At this point, I have already set up a dinner with a distributor who will be flying to the U.S. for the show.”

Ann Greco, strategic marketing director, Salem Fabrication Technologies Group Inc., adds that in-person events were missed during the height of pandemic closures. “In-person events are better than the virtual online events we’ve had to make do with over these past couple of years,” she says. “The networking, customer relationship-building, search for new suppliers, and industry educational opportunities cannot be matched virtually.”

---

**GlassBuild America 2022**

**Future Focused**

**OCTOBER 18, 2022**

**Las Vegas Convention Center**

One-day conference for leaders of contract glazing and full-service glass companies

- Learn and share best business practices
- Industry-focused economic forecast

**Register Today!**

GLASSBUILDAMERICA.COM
ACES HIGH

It's not a gamble if you play your cards right.

Play your best hand with the most trusted glass coating machine on the market, the FuseCube™ Express. It’s the industry’s best bet for automating your glass coating process, combining easy-to-use technology to deliver a high speed, economical coating machine. So, if you want a surefire way to increase profits and create new opportunities, the FuseCube™ Express is no hand to fold on.

Increases Profit Margins
Low costs and high value benefits

Reduces Labor Costs
Automated machine application for less handling

Applies Diamon-Fusion®
Add more value to your glass with easy-clean protection

Come see us at GlassBuild Las Vegas! October 18-20, 2022
For the glass and glazing industry, the previous two years have been defined by investment and innovation. Faced with ongoing labor and supply concerns, glass companies are making investments in new equipment, software and tools to improve processes and quality. They are increasingly looking to automate and improve efficiency, despite having less available labor. And they are developing new, innovative product solutions that help their customers address top challenges and meet market demands.

“Product innovations are perpetual, and we are either staying ahead of, or keeping pace with, the trends we see at the architectural level,” says Tim Nass, vice president of sales, Safti First.

The product solutions and innovations for and by companies across all segments of the industry will be on display in one location during GlassBuild America: The Glass, Window & Door Expo, Oct. 18-20 in Las Vegas.

“GlassBuild is about providing solutions,” says Nicole Harris, president and CEO of the National Glass Association, the show’s organizer. “Whether it’s finding a new supplier, product or machinery from among the exhibitors, or learning about latest trends from one of our speakers, or just comparing pain points with fellow attendees—we know that everyone walks away from GlassBuild enriched with new information, new contacts or new products to help them better navigate the industry’s challenges. Some challenges, like global supply chain issues, are bigger than just our industry but coming together directly with our industry’s suppliers and experts at GlassBuild can provide attendees with a different outlook to view problems—and solutions—more strategically.”

On the following pages, Glass Magazine presents the 2022 GlassBuild Product Showcase, highlighting new machinery, equipment, glass and glazing products, metal systems and more. For additional products from these and other GlassBuild exhibitors, visit glassbuildamerica.com.
REACHING NEW HEIGHTS
IN GLASS-HANDLING SAFETY AND EFFICIENCY, DRIVEN BY INTELLI-GRIP® TECHNOLOGY

VACUUM LIFTERS AVAILABLE FOR EVERY SIZE OF GLASS OR CURTAIN WALL

P1 CHANNEL LIFTER
CAPACITY: 700 LBS

MRT4 MANUAL ROTATOR/ TILTER
CAPACITY: 700 LBS

MRTA8 MANUAL ROTATOR/ ASSISTED TILT
CAPACITY: 1,400 LBS

MRPT16 MANUAL ROTATOR/ POWER TILTER
CAPACITY: 2,800 LBS

PHOTO COURTESY OF HARMON INC
PHOTO COURTESY OF VISION SYSTEMS
PHOTO COURTESY OF MARCUS MAZZA


For information on these products and many more, go to wpg.com
Share your Powr-Grip photos with us @woodspowrgrip
For many in the industry, GlassBuild is the place to see new machinery, equipment and tools. Exhibitors will be displaying lifters for safer handling of larger and more glass, new software for companies of all sizes, automation solutions for the factory floor, and more.

“We wouldn’t even be in the manufacturing space if it wasn’t for GlassBuild,” says Keith Daubmann of My Shower Door, My Architectural Glass, D3 Glass. “As [our company] started getting into manufacturing, the first thing we said was we need to be at GlassBuild and [to] start educating ourselves on all the different machines and capabilities that are out there so we can run efficiently and provide a high quality to our customers. It all started at GlassBuild.”

Suppliers say they are focused on providing products that help their customers produce high-quality products efficiently and safely, while reducing the demand for labor. “The glass industry is suffering from the labor shortage, and there is a strong need for automation,” says Mike Willard, CEO of exhibitor Salem Fabrication Technologies Group Inc. “Customers will be looking for ways to repurpose labor as they install automated systems to handle glass.”
ACHIEVE RELIABLE
RESULTS

An all-in-one alternative that maximizes productivity.

With zero setup, operator intervention or downtime, the Denver Advance Elite vertical CNC work center consistently delivers top-quality results. The machine's around-the-clock run time allows for continuous edging, notching or polishing to meet your unique needs. An alternative to the horizontal CNC work centers, the impressive Denver Advance Elite transforms glass from the cutting table to the final product.

Watch the Advance Elite in action at hhhglassequipment.com/advanceelite

See us at GlassBuild America, booth 5050.
Adelio Lattuada - Lattuada North America

TLR 11 AV C PC H85 is a fully automatic 11-wheel mitering machine equipped with the company’s A-WR System, which features diamond and resin wheels, automatic pre-setting, plus polishing wheels and automatic wear recovery. The product also features i-AL for automatic adjustment of the machine’s parameters based on glass thickness. The product has a motorized adjustable infeed conveyor, digital ammeters and an automatic alert system for polishing wheel wear, and is equipped with teleservice. Booth #5104.  
+(39) 0331-8327-13 | adeliolattuada.com

Bavelloni America Inc.

Bavelloni’s VDM 1636 CN is a vertical milling and drilling machine designed for shower door production and architectural applications. Equipped with opposing spindles, each with rotating eight-position tool storage, it is extremely user-friendly, designed with the most advanced technical solutions to ensure high working accuracy. Milling is performed while the glass is in a fixed position to achieve better grinding quality and higher grinding speed. The control device combines professional numerical control with the convenience of a PC working in a Microsoft Windows environment. Booth #2232.  
336/299-8300 | bavelloni.com

Bilco MFG

The Z-Series is a premium glass washer and is offered in 70 inches, 96 inches, 110 inches and 132 inches. The Z Series platform is a high-performance glass cleaning system focused on the bottom line. Intelligent maintenance features and high-level process control help to place this washer above others. The Z-Series is engineered to sustain an optimum level of cleaning over years of continuous use and offers easy access to internal components for cleaning, maintenance and minimal downtime. Booth #5064.  
724/452-7930 | bilco-mfg.com
Burkle North America Inc.

Burkle North America Inc. will showcase its Inline Flat Lamination system, which officials call a truly advanced way to laminate glass. Whether in the field of security, sound insulation, building construction or multimedia functionalities, the versatile application of laminated glass has no limits, they say. With the development of inline flat lamination, Burkle is taking this idea further with an autoclave-free process. This innovation enables fast lamination with short cycle times and low energy consumption, with the highest possible quality. Booth #6244.

714/379-5090 | burkleamerica.com

ClearShield Technologies

ClearShield Technologies is introducing the ClearPad VPIR-200 vertical pad for the fast application of Ritec ClearShield for protection and maintenance of glass. ClearPad VPIR-200 is the most efficient way of pad-applying Ritec ClearShield. It offers an increased and consistent coverage rate of the glass, and features infrared-reflective pre-heating for faster processing. The system reduces handling, labor costs and application training, and features management and control software to maximize product usage and avoid waste. Booth #7049.

847/671-4584 | clearshieldonline.com

Diamon-Fusion International

The FuseCube Express is DFI’s newest coating machine that applies Diamon-Fusion protective coating onto both sides of the glass. The coating is applied through a proprietary chemical vapor deposition process, transforming ordinary glass into a high-performing, water-repellent surface. Unique to its class, the FuseCube Express can treat 1 to 5 lites in under 10 minutes and has a minimal footprint (5 by 6 feet) that can meet the demands of both small and larger-sized fabricators. The machine also includes a touch screen monitor, built-in evacuation system, multi-run cartridge system, real-time monitoring, and backup systems, making it simple, reliable and easy to use. Booth #5232.

949/529-3029 | dfisolutions.com
Elumatec will introduce the SBZ118 Profile Machining Center: a compact 3-axis profile machining center with optional 5-sided machining ensures high productivity through precision, ergonomics and customizable equipment options. The new machine combines the functionality of larger models with an extremely compact design of 9.84 feet machining length. Although it requires little space in production, the 3-axis profile machining center offers full functionality for routing, drilling and notching. Booth #5110. 574/273-1790 | elumatec.com

Eastman's static table system is capable of cutting, marking and punching virtually any flexible material at speeds of up to 60 inches per second. The static cutting table can process materials like nylon and vinyl as well as difficult-to-cut materials—such as polystrand, p-tex and fiberglass-polyester blends. The system’s high-precision configuration features multi-axis motion for more defined and accurate cuts. Material is spread across the static table by an operator or with the use of a pneumatic gripper bar. Booth #6276. 716/856-2200 | eastmancuts.com

The Satellite XTE by Emmegi is a 5-axis CNC mobile gantry machining center, designed to run milling, drilling, threading and cutting processes on large bars in aluminum, PVC, light alloys and steel. The mobile part of the machine mainly consists of a gantry equipped with precision motorization rack. The high-power electrospindle, 15 kilowatts in S1, with HSK-63F tool connection allows heavy-duty machining to be run with speed and accurate results. Booth #5086. 201/935-0200 | emmegi.com
THE NEW MILESTONE

Viprotron is proud to add a new innovation to its product range at GlassBuild 2022. Our strong focus on defect detection in insulated glass, has steadily expanded over the years to include cutting, fabrication, lamination and finally tempering.

Now we are introducing new, advanced technology for improving tempering defect detection. We will enhance our award-winning Anisotropy + Haze Scanner by adding a Roller Wave and Edge Kink Scanner to our system. All five functions (Roller Wave/Edge Kink, Anisotropy, Haze, Brightfield & Reflection Channel for optical defects) are available in one complete package or as individual scanners.

Convince yourself at GlassBuild or contact us now!

DISCOVER THE WORLD OF GLASS

We can hardly wait to see you again in October at GlassBuild 2022. Together with you, we will explore the most exciting new technologies for the high-tech material glass industry.

Take a look at our latest innovations directly on site!

18–20 OCT 2022
LAS VEGAS, NV
BOOTH: 5242
Erdman Automation Corp.

Erdman's Vertical Insulating Glass Parallel Process Line derives its name from the innovation of shuttling the topping lite to a back lane. Therefore, the two glass lites run parallel to each other, leading to a significant increase in speed. Compared to traditional IG processes, the line is more ergonomic and has less wasted motion by the operator. There are no manual touches to glass after washer and no close contact between operators. It requires three to four operators, versus seven to nine on a traditional line. The line also includes auto placement of spacer location, and argon is filled and finished on the line. Booth #5194.

763/389-9475 | erdmanautomation.com

Glassline

Glassline will show its Glass Rectangle Slitting (Strip Cutter). Fabricators that need to process small lites for applications such as refrigerator shelves may find it is more costly and difficult to handle if the raw float glass comes in small pieces. The Glassline slitting line allows the glass to be shipped in larger blanks and slit, or cut down into the smaller pieces. The line features multiple cutting heads that score a sheet in a straight line. The glass is then transferred, and the scores are snapped. Booth #3081.

419/666-5942 | glassline.com

Hegla

Hegla will exhibit its Hegla-TaiFin tempering furnace. The company is known for convection technology and closely controllable heating zones with qualities much higher than the industry standard, say officials. The optimal bedload is determined with bed optimization from Hegla-Hanic. For maximum automation, the glass can be put together with automated batch creation from Hegla—no operator required. Through “de-batching,” the batch can be separated again. Booth #6007. 404/905-2878 | hegla.com
Erdman is your local partner in robotics and automation. We will work with you to innovate and reduce your labor requirements to provide a safer environment at your facility as well as a significant cost savings.

Erdman is unique in that we focus on all facets of window manufacturing and can help you integrate your departments and create a safer, more efficient flow through automation.

For 29 years we have concentrated completely on the North American market. We started small, service focused, nimble and innovative. We continue that focus today even as we are big enough to handle the largest of projects.

Visit www.erdmanautomation.com or call 763-389-9475 for more information.

VISIONARY THINKING. EXCEPTIONAL DOING.

See us at GlassBuild America, booth 5194.
HHH Equipment Resources

HHH Equipment Resources, a division of Salem Fabrication Technologies Group Inc., will introduce Kodiak, an exclusive line of glass edging equipment designed specifically with North American fabricators in mind. Kodiak glass edging machines offer exceptional edge quality, competitive production speeds and a proven track design. The machines are designed for continuous use and the handling of large lites of glass. The robust machines feature heavy-duty frame construction and 77-pound spindles, a long-lasting caterpillar track system, large, user-friendly display screens, automatic lubrication and UL-certified components. Booth #5050.
800/234-1982 | HHHGlassEquipment.com

IGE Glass Technologies

The systron proHD is a vertical glass processing center with integrated waterjet technology. The machining of contours and cut-outs can be performed with the highest precision and shortest cycle time due to the solid construction and the use of our patented systems. A barrier-free design and an ergonomic working position enable the operator easy access to all machine components. The processing center is a sophisticated waterjet solution for shower enclosures, all-glass entrances, laminated glass and more. Booth #5218.
561/741-7300 | igesolutions.com

Jordon Glass

Jordon Glass will introduce the Eco³Box coolant cleaning system by Filtraglass. The Eco³Box system is a water filtration system that separates and discards floating glass particles found in coolant grind-water and discards them as dried solids in a simple and environmentally friendly way. Eliminating floating glass particles from your coolant water prolongs the life of a machine and ensures that the machine has a constant flow of clean water delivered to the grinding, polishing or milling spindles. Booth #2116.
305/482-0116 | jordonglass.com
TO CELEBRATE OUR 5TH ANNIVERSARY
JOIN US
GLASS BUILD AMERICA 2022
OCT. 18-20, 2022 | LAS VEGAS, NV
BOOTH #5104

AUTOMATION SOLUTIONS
AUTOMATIC MACHINES | I-AL & A-WR SYSTEMS | ROBOTIC SOLUTIONS | SERVICE AR | IOT

- Diamond/resin wheels presetting in less than 1 min.
- Simple to use
- Reduced machine set-up time
- Constant quality/productivity throughout the day
- Preventive maintenance
- Remote management

LATTUADA NORTH AMERICA, INC.
43619 Northwood (OH)
lattuada-na.com

ADELIO LATTUADA®
EVOLUTION OF GLASS WORKING

ADELIO LATTUADA Srl
22070 Carbonate (CO) IT
adeliolattuada.com
Mecal USA Inc.

Mecal’s MC312 Taurus 5 Axis Machining Centre is an enclosed 315-inch 5-axis machining center for ultra-high-speed machining of aluminum, steel, brass, copper and PVC materials. The Taurus offers efficiency and productivity. It is on average 30 percent faster than other machines, according to the company, and can be used in numerous applications including windows, doors and curtain walls, automotive, aerospace, engineering, internal partitions, sign manufacturing, air conditioning and refrigeration. Booth #5076.

574/520-1871 | mecalusa.net

PDS IG Equipment

PDS ProFilm System allows fabricators to protect their glass immediately through a high-speed inline applicator that can maintain insulating glass line speeds. Protective films ensure product cleanliness from factory to finish, reducing potential for damage during manufacturing, and end-of-job cleaning time and costs. The PDS ProFilm System features auto measuring technology and can film more than 1,500 operating-size units per shift. No film trimming is required. A variety of module sizes and film widths are available. Booth #2035.

608/644-8000 | pdsigequipment.com

Shoham Machinery Ltd.

Shoham Machinery Ltd. will show pneumatic punch tools for curtain walls, façades, storefronts, entrances, window walls and more. Shoham’s punch presses are designed to save valuable processing time by providing a fast and efficient production line. Pneumatic punching is faster than drilling and routing, saving labor time on every punch. The process is operator-friendly, requiring only one operator, and allows for fast and easy assembly. Dimensions and setup can be changed upon customer’s request. Booth #3098.

+(972) 3679-7600 | shoham-machinery.com
MORE ROI
LESS DOWNTIME

TRUSTED SOLUTIONS PROVIDER SINCE 1948

- FLAT GLASS WASHERS
- PRECISION GLASS CUTTERS
- GLASS INSULATING SYSTEMS
- LAMINATING LINES
- HANDLING CONVEYORS
- REMNANT STORAGE SOLUTIONS
- DATA ACQUISITION
- REMOTE MONITORING & DIAGNOSTICS

OFFICIAL EXHIBITOR

GlassBuild AMERICA
THE GLASS, WINDOW & DOOR EXPO
October 18-20, 2022 | Las Vegas, NV

BOOTH #5064

ON CALL 24|7|365

SOLUTIONS@BILLCO-MFG.COM
BILLCO-MFG.COM
724.452.7390

MADE IN THE USA
Walco (Powered by Novacel)

Walco VX2 is a vertical laminator designed specifically for the application of protective film on insulating glass units and flat glass. Fully automated, the VX2 uses technology that allows the application of protective film on both sides of the glass in a single pass, thanks to its automated adjustment system. Equipped with intelligent technology, it is automatically adjusted to the length and height of glass up to 3,000 millimeters. Booth #2052. 909/483-3338 | walcotech.com

Xinglass America

Xinglass developed a new generation of flat and bent glass tempering furnaces, the QX-GTFB3.0. It is the third generation of flat and bent glass tempering furnaces. The machine’s arc-changing mechanism uses a precise hydraulic and servo system, and high-quality profiles ensure accurate glass shapes and high arc forming accuracy. The arc-changing system ensures product arc/radius repeatability and high consistency. The new technology of glass positioning and correction has improved the forming accuracy. Booth #4074. 800/868-0307 | xinglassamerica.com
RELY ON US

BOVONE NORTH AMERICA
YOUR FELLOW IN BUSINESS

Visit us at Glassbuild America 2022, Booth # 5208

LAMINATED LINES | BEVELLING MACHINES | EDGING MACHINES | WASHING MACHINES
ROBOTIC SYSTEM | MIRROR SILVERING LINE | SERVICE & SPARE PARTS
sales@bovonenorthamerica.com | Ph: 336-637-8226
01

**A+W Software**

A+W Software’s second-generation A+W iShape II allows for quicker fabrication, greater functionality and increased user-friendliness. Users place A+W’s reference L-angles inside the template’s perimeter. Users can then use the app to photograph the template, calculate data in the cloud, and receive feedback on the template’s quality, or a “confidence factor.” Users can email the file to A+W CAD Designer, where imperfections can be massaged out with the line tool. Booth # 6136.

847/220-5237 | a-w.com

02

**FeneTech, A 2020 Company**

FeneVision provides users with real-time operational control, insight and agility. Its dynamic bill of materials configurator enables rapid pricing, producing and delivering hundreds or thousands of unique units daily, complete on time, even if users work with seemingly infinite product variations. It connects everything and everyone, including customers’ customers. And with ongoing user input, FeneTech continues improving it. Updates include: improved shipping routes with customer-specific filters; mobile-responsive redesign for FeneVision Web; revamped capacity completion logic; and additional flexibility in container tracking. Booth #6096. 330/954-7530 | fenetech.com

03

**GDS Estimating**

WinBidPro v16 from GDS Estimating is an all-new estimating program for the commercial glazing industry. The Microsoft Windows application uses a cloud server for all the catalogs and job information. It offers new features, an improved interface and ultimate scalability, which will easily allow the software to grow with the industry. Vendor pricing and product information will be updated without the need to install new catalogs. Booth #9071. 858/538-4375 | gdsestimating.com
Mainstreet Computers

Mainstreet Glas-Avenue Cloud Point of Sale business software allows companies to create quotes, measure sheets and purchase orders; then schedule, invoice and manage accounting. Customizable parts with dimensional and per-item pricing ensure consistent, accurate pricing for business owners’ insulating glazing units, glass railings, mirrors, tabletops, shower glass and more. Progress billing is also included. Mainstreet’s Glas-Avenue simplifies communication with estimators and techs in the field via the Tech App, MobilePro. Booth #7070.
734/699-0025 | mainstreetcomp.com

Prodim USA

Prodim USA developed a solution for accurate and easy digital measuring for flat or curved glass. Glass fabricators using the Proliner have improved their overall production process by significantly reducing the time required for measuring and creating digital templates for glass structures. Operators can easily create, check and change digital measurements in the factory or on the jobsite, and use the rapidly created DXF files for further processing or as direct input for machinery. Booth #3088.
772/465-4000 | Prodim-systems.com
Software + Services

01

Smart-Builders Glass Software

Smart-Glass is the brand-new, browser-based, glass design and ordering platform that works on PC, Mac, tablet and mobile phone. Find out how to give your customers a dedicated login to draw, price and order their glass anywhere, anytime. Built-in warnings alert them to mistakes so they can place orders with confidence. The fabricator's team will receive accurate, fabrication-ready glass orders that can be imported into a range of fabrication software systems, such as A+W, Optima, Lisea and Glasstrax. Booth #8152.

628/226-2017 | smart-builder.com

02

True Contractor Software

True is a web-based Enterprise Resource Planning software solution designed for glaziers. It includes tools for managing leads, generating proposals, timekeeping, scheduling, work orders, procurement, inventory control, job costing, invoicing and accounting, while also being fully integrable with any version of QuickBooks. Whether for a residential, field service or commercial contractor, True can help owners take their business to the next level. Booth #8071.

833/438-8783 | constructtrue.com
24/7 Peace of Mind.

HP3 Software identifies and solves customers’ workflow challenges with its 24/7 customer care team of personable, knowledgeable experts—providing peace of mind in both daily and urgent situations.

We are known equally for our people as much as our innovative software. We work as true partners with our customers to refine workflow and achieve operational success based on transparent yield calculations and high data integrity. Our support technicians are highly skilled developers that know our products as well as our customers’ operations, allowing them to identify and apply best practices for any given situation.

HP3 developers and field technicians—not a customer call center—answer service calls to deliver successful solutions as quickly as possible. Marked by technical knowledge, down-to-earth honesty, easy-to-work-with personalities, and total accessibility,

HP3’s support services provide the basis for long term relationships with their customers. Contact us to experience the benefits of being HP3 Customer for yourself.
YourRadar offers commercial and residential glass service businesses an all-in-one solution to automate their business and allow them to operate their glass service businesses more efficiently. It comes with built-in features for sending glass estimates, scheduling jobs, dispatching team members and invoicing customers. Basic glass estimates can be configured for standard window shapes as well as custom designs. Custom designs and the original quote follow from estimate to job completion. Booth #7201. 604/574-7225 | yourradar.net

Uni_Link Software & Automation USA LLC

UniLink is an independent automation platform for production on CNC machines in the industry for aluminum, steel and PVC profiles used for doors and windows or any other profile industry. The platform includes a machine-independent, vector-based, 3D macro programming interface designed to be user-friendly, fast and capable of managing huge macro libraries. The UniLink platform can import data from any construction software and export to any brand CNC profile milling and cutting machine. Booth #9159. 312/917-6212 | unilinkautomation.com
All for one, and one for all

Our window, door and glass software solutions are coming together as one at GlassBuild 2022.

Visit our affiliated brands at the following booths to learn more.

FeneTech
Window and door manufacturers and glass fabricators worldwide use FeneVision ERP software to manage, view and analyze all areas of their operations.
fenetech.com

Booth 6096

Soft Tech
Soft Tech provides premium software solutions for the window and door industry to speed up your design process, quoting and manufacturing.
softtech.com

Booth 6040

contractERP
contractERP is the most comprehensive industry-tailored business management platform available to the division 8, fenestration and construction supply industries.
contracterp.com

Booth 9104
GLASSBUILD PRODUCT SHOWCASE

TOOLS + SUPPLIES

NEW

01

02

03
Better Vacuum Cups Inc.

Better Vacuum Cups Inc. will exhibit its SS-R200, the all-new round vacuum cup for all CNC routers. This Better Vacuum Cup comes in three standard heights such as 105 millimeters, 150 mm and 200 mm for the CMS fabricators. Like all BVC cups, this cup does not need the foam gasket to be used. The BVC flexible lip seal mirrors the part for a perfect lip seal, say officials. Booth # 3069. 909/606-0140 | GreenBVC.com

EDTM Inc.

EDTM Inc. The Glass-Chek Elite identifies laminated glass in a window and measures the thickness of the laminate inner-layer. The graphical display illustrates the window’s profile. The instrument also detects the presence and location of low-emissivity coatings, and can tell if the coating is a hard or soft coat, as well as the number of silver layers used to make the coating. 419/861-1030 | edtm.com

Glazelock Inc.

Glazelock Shims Inc. has been a manufacturer of structural plastic shims since 1997. The company was invented by a window installer and aims to develop shims that reduce material and labor costs, while being secure and stable. During the show, the company will promote its pre-scored shims that are easier to break off than traditional wood shims. The shims eliminate the need to cut or to score and are an inexpensive option for companies. Booth #9044. 815/935-5396 | glazelockshims.com

Magid

Magid’s new PPE innovations for glass handling are changing the game to offer the highest levels of protection with unmatched comfort and range of motion. The M-GARD breathable garments are up to 30 percent lighter than competitive products and deliver critical ANSI Cut Level A7-A9 protection at a great value, according to the company. The garments feature AeroDex Technology and integrate new fibers and yarn wrapping techniques to create lighter-weight garments that won’t trap heat. Booth #7087. 708/629-5919 | magidglove.com
Smith Case

Smith Case has carrying case solutions to best showcase products and components. The cases include precision cut foam inserts to present demonstration tools in an effective yet protective manner. Cases can be designed to hold a range of items for glass industry companies, including heat lamps, insulating glass units, infrared temperature guns, solar power meters, radiometer bulbs, UV lamp and cards, miscellaneous containers, table pads and more.

Booth #8104. 336/774-7974 | smithcase.com

Tuff-N-Lite

The Keel Zippered Jacket from Tuff-N-Lite offers an ASTM-1790 cut level 4. The jacket offers easy access with a full front nonmetallic, scratch-resistant zipper, while providing the comfort and breathability of casual clothing. The jacket features orange sleeves for maximum visibility, and a ribbed collar for excellent neck protection. The breathable fabric stretches in any direction for comfort and a full range of motion, while offering superior resistance to lacerations and abrasions. Added wrist guards provide extra security. Booth #8200. 828/322-6975 | tuffnlite.com
Glass Coatings & Concepts develops and manufactures proprietary glass frits, mediums and enamels for the glass fabricating and decorating industry.

See us at GlassBuild America, booth 6077.

GCC is a proud supporter of the International Year of Glass 2022

Protect your investment with ceramic glass enamel.
gcconcepts.com
**F. Barkow Inc.**

Barkow’s Model P212-A on a 2023 Isuzu NPR glass carrier has a 12-foot-long by 105-inch-high aluminum, fully welded glazing body. Ten Stake-Loc self-locking stakes are included in the cantilevered metal carrier, with removable bars in center and rear of body. There are B load holding slats throughout, and it is manufactured by craftsmen. The carrier has a 2023 Isuzu NPR chassis cab. 14,500 gross vehicle weight rating, a 6.6-liter gas engine, six-speed automatic transmission, power windows and locks. Booth #8098. 800/558-5580 | barkow.com

**Ergo Robotic Solutions**

The GM2000-26 is Ergo’s tallest robot, reaching up to 26 feet for flush glazing, and up to 28 feet for skylights. It can handle up to 2,000 pounds of glass with ease, all powered by pressure-sensitive wireless hydraulics utilizing our custom Micro Motion technology for extremely delicate maneuvers. It has an electric drive system with numerous safety features and hydraulic manipulations. The boom can extend up to 26 feet vertically, and the head can tilt 180 degrees, rotate 180 degrees, swivel to each side 35 degrees, and side shift 4 inches with powerful and delicate hydraulics. Booth #6054. 518/796-2179 | ergorobotic.com

**MyGlassTruck**

The Patriot LT open glass truck body has plenty of capacity but is still easy to maneuver. It can be fitted to a range of cab-over and standard cab-chassis for class three through class five trucks. The Patriot LT is available in 12-foot through 18-foot rack lengths with uninterrupted ledges to accommodate wide sheets of glass. Nine-foot-tall outer racks offer plenty of vertical storage. The interior racks face a roomy platform for walk-in loading, and an optional over-the-cab metal carrier handles all types of storefront channel. Booth #6130. 800/254-3643 | myglasstruck.com
Skyreach Equipment is THE premier aerial equipment and glass manipulation specialist. We strive to provide our customers with solutions to their most challenging projects and glass installations.

Skyreach Equipment takes pride in consulting with architects, building owners, property managers, general contractors and sub-contractors. From the initial site consultation, to creating a plan, coordinating equipment, training operators, to directing the install, Skyreach Equipment goes the extra mile to ensure that each job runs safely and efficiently.

We don’t just write rental tickets, we write success stories!

EQUIPMENT
- Jekko Mini Cranes
- Atrium Crawlers
- Boom Lifts
- Glass Manipulators- Walk Behind, Fork Mounted, Hanging
- Telehandlers
- Lifts- Scissor, Single-Man

RENTALS, SALES AND SERVICE
We offer new, used and accept trade-ins. Need a bigger machine? Trade in your machine and upgrade to a new unit.

If you don’t see what you need, we can build it!

410-477-1473 • SKYREACHEQUIPMENT.COM
Smartlift US Inc.

Smartlift’s uniquely designed glass lifters allow users to mount windows of any size with ease. The lifters were designed with high-quality materials so that they will last, say officials. Smartlift also offers a variety of accessories, such as suction cups and extension bars, to make the worker’s glass lifting job even easier. Booth #7016.

646/877-6455 | smartlift.com

SmartGroup

SmartGroup’s new lifts have revolutionized the way glass is installed by improving safety, productivity and functionality for glaziers. SmartGroup’s SG450 and the SG650 raise higher (18 feet 6 inches), reach further (11 feet 5 inches), move faster (potentiometer controls desired speed) and lift heavier materials (max 1433 pounds). The lifts are equipped with all-terrain foam filled tires and a visual load cell indicator, making it the safest on the market. The SG lifts are designed to make second story window installation from the ground possible.

410/477-1473 | skyreachequipment.com

Wood’s Powr-Grip Co.

The Jumbo Capacity Curved or Flat Glass Power Rotator / Tilter Vacuum Lifter 5300, Model PRT489CDC3S, has DC-voltage with Intelli-Grip technology and includes an integrated counter-balancer. Other features include: 5,300 pounds capacity; 35 inches of overhang reach; 360-degree power rotation, 90-degree power tilt; 50-inch minimum radius for curved glass loading; and adjustable pad frame for curved loads. This is the largest-capacity lifter manufactured by Wood’s Powr-Grip to date. Booth #7064.

406/628-8231 | wpg.com
F. Barkow Inc. has been an industry leader of glass transportation carriers for 139 years. Our commitment to quality, dependability and craftsmanship goes into every product we manufacture. Decades later, we continue to produce the highest-performing glass carriers in the industry.

Transporting your precious cargo safely is our priority. Barkow glass racks come equipped with our exclusive glass-holding system featuring Barkleats™, Barpads® and Baseplate Pads, as well as Stake-Loc® self-locking stakes for added safety. We offer a wide range of glass transportation carriers from cargo vans and pickup trucks all the way up to semi-trucks and trailers. Each custom-made glass rack is fully-welded in your choice of aluminum, stainless steel or high-tensile steel. Trust F. Barkow Inc. for quality, innovation and service.

See us at GlassBuild America, booth 8098.
Leading glass and glazing design trends are larger sizes and systems with minimal framing, allowing for cleaner sightlines with fewer interruptions, according to exhibitors. “For quite some time we have seen the demand for larger clear views of glass, fewer intermediate framing members,” says Tim Nass, vice president of sales, for exhibitor Safti First. “We are seeing an increased demand for low-iron products that maximize clarity for both interior and exterior projects.” Additional trends include new possibilities in decorative products, high energy and thermal performance glasses and components, security and impact products, bird-friendly glasses, and other value-added solutions. These products and more will all take center stage at GlassBuild, say exhibitors.
WALKER

Superior quality acid-etched solutions trusted across industries.

Retail | Tech | Education | Automotive
Aerospace | Hospitality | many more

Find out why at BOOTH 9054
walkerglass.com

Johnson Volvo, Durham, NC
Ensinger - insulbar North America

Ensinger - insulbar thermal break profiles are a vital component of modern window, door or façade systems made of metal. They eliminate thermal bridging between interior and exterior surfaces, improving overall performance of the system and reducing energy loss, according to company officials. The insulating profiles are available in many shapes, sizes and materials to meet even the most complex requirements. Booth #9087. 856/434-2947 | insulbar.com

GGI

Zebrano Wood Grain Designs have been added to GGI’s Alice Direct to Glass Ready-to-Print collection, offering architects and designers a superior alternative to natural wood. Zebrano Expresso, Macchiato, Chocolate and Mocachino provide the aesthetic of natural wood but without the sanding, straining and ongoing maintenance required. The ceramic frit application makes it ideal for interior or exterior applications. The scale, color and opacity can be customized for a one-of-a-kind finish on an ultra-clear low-iron glass or low-iron, satin-etched substrate for an easy-to-clean, durable surface material. Booth #6124. 201/553-1850 | generalglass.com

Glassopolis

Protect-X is the latest addition to the Protect lineup of protective glazing from Glassopolis. Protect-X is a specialty glass that protects against X-rays and radiation. It’s used in medical and security scanning facilities, and it is available in several different safety formats, including filmed and laminated, and can be tailored to the customer’s exact needs. From Glassopolis, it’s in stock and available for quick shipment. Booth #7132. 800/262-9600 | glassopolis.com
Global Security Glazing

Childgard is laminated glass constructed with a state-of-the-art proprietary security interlayer built to withstand extensive physical attack during a forced-entry scenario. It provides the aesthetics and daylighting advantages of glass, with an additional level of security. Childgard is tested to nationally recognized detention standards ASTM F1233-08 and meets safety glazing standards. It can be installed in industry standard doors, framing and window systems for retrofit or new construction. The product provides security while optimizing daylight. Booth #8208.

724/712-4555 | security-glazing.com

Guardian Glass

Guardian SunGuard SNR 35 coated glass provides a low solar heat gain, a neutral silver appearance and stunning neutral reflectivity. SNR 35 delivers a crisp, reflective look and features a lower solar heat gain coefficient of 0.17 for energy saving performance. By combining the classical, neutral aesthetic both at normal and angular incidence with superior energy performance, SNR 35 presents an attractive exterior architects seek while helping to provide bright, comfortable interiors, say officials. Booth #6194.

248/340-2141 | guardianglass.com

Hans Building Material Technology Co.

Blinds Between Glass from Hans is a renovation product which is widely used in doors and windows as an energy-efficient replacement for insulating glass. Compared with traditional insulating glass and window blinds, BBG products combine the glass and blinds as one, say official, installing aluminum mini blinds inside a sealed IG unit. Two kinds of operating systems are available to control the blinds for windows or doors: manual or motorized. Booth #8123.

501/505-0810 | solarhans.com
H.B. Fuller

H.B. Fuller’s Kódispace 4SG warm-edge spacer system is the premier solution for both commercial and residential applications, say officials. The product’s formulation chemically bonds to glass and silicone secondary sealant. There is no spacer migration, and it has a higher temperature stability than standard insulating glass with polyisobutylene, in addition to an increased resistance to incompatible glazing conditions, say officials. The product is currently the only reactive thermoplastic spacer system available, officials say. Booth #7093.
812/449-9567 | hbfuller.com

Interlayer Solutions

Evalayer by Interlayer Solutions Inc. is a full cross-linked thermoset EVA specially designed for the glass lamination industry. Properly processed, Evalayer offers crystal clear results, excellent soundproofing, and high resistance to moisture, UV rays and impacts. Evalayer could be used in several outdoors and indoors glass lamination applications such as: open edge (frameless), decorative, soundproof, fire-rated, switchable, high impact resistant, medical laminated glass and more. Booth #6264.
514/326-4003 | interlayersolutions.com

Quanex

Quanex’s Super Spacer warm-edge technology is used in energy-efficient window designs in residential and commercial applications. Super Spacer is a premium energy-efficient and sustainable solution for high-volume production of dual- and triple-pane insulating glass. A true dual-seal warm-edge spacer line, Super Spacer products use a high-performance acrylic adhesive for their structural seal, backed by a moisture vapor seal. Super Spacer offers energy efficiency, sustainability, and has demonstrated proof of performance, reliability and thermal excellence, say officials. Booth #7026.
740/439-6429 | quanex.com
**Safti First Fire Rated Glazing Solutions**

Safti First will show the patent-pending, panelized SAFTI-EZ-ARC, designed for use in non-rated or fire-rated applications. SAFTI-EZ-ARC is the first U.S.-made, truly panelized, versatile structurally glazed curtain wall system. Two versions were developed to satisfy non-rated and fire-rated applications: SAFTI-EZ-ARC is a unique panelized system that will provide ease of installation in a curtain wall, while the SAFTI-EZ-ARC-FR is an ASTM E-119/UL 263 fire-resistive rated version recently successfully tested and listed by UL up to 2 hours. Additional testing is scheduled to meet hurricane, blast and tornado requirements. Booth #8065.

415/230-6758 | safti.com

**Sevasa**

Sevasa launched Graduel-H, glass with acid-etched gradual opacity, now in a horizontal format. The product’s gradient from translucent to transparent runs parallel to the short side of the sheet, which measures 88 inches or 94 ½ inches. This allows for better fabrication with less waste, say officials. The glass also doesn’t show fingerprints, and has high resistance to scratches and stains in the treated, translucent area. Applications include public spaces and high-traffic areas. Booth #8070. +(34) 9382-8033-3 | sevasa.com

**Strybuc Industries**

A flexible, silicone foam spacer product, Super Spacer provides the maximum perimeter insulation for sealed glazing units and prevents condensation. Desiccant-filled with pre-applied side adhesive, the structural foam spacer significantly simplifies insulating glass production, say officials. Featuring a vapor barrier backing, the product must be used in combination with conventional IG sealants such as hot melt butyl, polyurethane and solvent-free polysulfide. Dual seal equivalent sealants may also be used. Booth #9038. 610/534-3200 | strybuc.com
SWM International

SWM International’s diverse Argotec inter-layer film product line is custom-engineered to offer precision extrusions for a variety of glass lamination applications. SWM films feature optical clarity, hot and cold characteristics and offer high overall quality in the glass lamination industry. The product is custom engineered from copolymer resin and is used as an interlayer sandwiched between two pieces of glass or plastic sheet, and is ideal for use in smart glass applications like privacy for conference rooms. Booth #8044.

302/563-6550 | swmintl.com

Ultrafab Inc.

Ultrafab will introduce its Ultra Cell MicroCellular Foam Seals that feature new technology that offers improved overall performance. The innovative product from the Ultrafab team leads the industry in compression set resistance, weatherability and color stability, according to company officials. The thermoplastic foamed interior of the seal also provides consistent low closing forces that can be tailored to users’ application needs. Booth #7112. 585/924-2186 | ultrafab.com
Vip Rubber Co.

Vip will promote the company’s decades of experience manufacturing thousands of unique custom plastic extrusions in almost every shape, size and color. The company’s specialty lies in making plastic profiles specifically for window and glass applications. Its capabilities range from very complex, custom-made parts and profiles to simple, more common and standard shapes. Vip makes its dies in-house, so it has the flexibility to create brand-new parts when customers are ready to order. Booth #8174. 562/905-3456 | viprubber.com

Vitro Architectural Glass

VacuMax vacuum insulating glass by Vitro Architectural Glass integrates with any traditional, and even non-traditional, glazing system to maximize insulation performance. The product delivers an R-value of R14, close to that of a traditional wall. VacuMax VIG units consist of two lites of 4-millimeter glass separated by a non-leaded proprietary metal seal and a vacuum space. The unit’s slim construction and light weight allow it to be incorporated into virtually any traditional glazing system, window frame or curtain wall application. Booth #6064. 412/820-8138 | vitroglazings.com
The leading trends in glass and components—larger sizes, higher performance, additional security—are similarly evident in the trends for metals, systems and hardware. During GlassBuild, companies will be exhibiting glazing systems that meet tougher energy- and thermal-performance requirements. They will be showing windows and doors capable of handling larger, heavier glasses. And they will introduce products that will stand up better to threats, from hurricanes to intruders.

Additionally, suppliers are focused on developing systems that provide straightforward, efficient installation to help with the labor shortage, and products that provide ease of use for the end user.
Safeguard your store while emanating flawless design with the Rockwood Storefront Panic Device. Incorporating a patent-pending flat security latch, the ANSI/BHMA Grade 1 PDU8500 will ensure your doors remain locked and secure when your business is closed. With a selection of cylinder, pull, and finish choices, no concessions are needed.

See us at GlassBuild America, booth 8005.
Akotherm Aluminium-Profile Systeme

Economic and demonstrably excellent, the AT 740 window offers product quality with all the benefits one expects from a “state of the art” aluminum window. Burglar resistance up to RC3, sound protection and excellent insulation in compliance with the latest Energy Saving Ordinance can be implemented with the system. Booth #8124. 917/734-8169 | akotherm.de

Anthony Innovations

For heavyweight architectural window and door panels, it’s important to have a roller that not only handles the weight, but also functions with ease. The 9000 Series rollers from Anthony Innovations can handle even the biggest panels. The system can manage loads up to 800 pounds. It features wheels available in stainless steel and in CNC-machined polymer material. A single-bogie carriage offers balanced load distribution and smoother glide, and customizable mounting tabs and spacers make it easy to adapt different existing systems. Booth #10078. 747/258-5873 | anthonygroup.net

Caldwell Manufacturing

Caldwell Manufacturing will promote Enginuity, a patented system for hung or slider windows and patio doors that features a sleek, concealed design that fits completely in the top track of the patio door. The Enginuity patented system can also be nestled in the side jamb or a compact design attached to the lift rail of the hung window. The Enginuity actuator can be on either side and adapted to any desired travel length, from 4 inches or less to fully open. Booth #6046. 585/352-2870 | caldwellmfgco.com
No two projects are the same when it comes to energy-efficient design. That’s why the CRL 8010 Series Single Blade Sunshade offers flexibility in managing solar exposure and building envelope aesthetics. Blade angles can be adjusted from 0 to -35 degrees in 5-degree intervals with specialized brackets that attach to storefront and curtain wall frames. This unique feature delivers a sunshade system that can be tailored to a building’s geographical location. The 8010 Series Single Blade Sunshade enhances aesthetics as it does solar protection. Airfoil or rectangular styles are available for improved visual compatibility. Booth #6152.

323/588-1281 | crlaurence.com

Deceuninck North America

Made from a revolutionary fiber-reinforced polymer, Deceuninck’s Innergy Architectural Products deliver both structural strength and thermal performance. The systems can improve the thermal performance of commercial windows, doors, curtain wall and storefront systems without the need for a complete redesign. Innergy AP parts are custom designed to fit existing commercial fenestration products and include pressure plates, structural thermal struts, reinforcements and curtain wall components. The offering builds from Deceuninck’s Innergy Rigid Thermal Reinforcements already used in window and door frame chambers for enhanced energy efficiency. Booth #8004.

513/539-5505 | DeceuninckNA.com

Door Controls USA

Door Controls USA will introduce its new hardware catalog, which features over 30 brands and more than 600 parts. Customers will find the newest trends in automatic and manual door hardware ready to ship from one of our three warehouses. At the Door Controls booth at GlassBuild America, attendees can receive a free copy of the catalog and enter for a chance to win a DC700 Low Energy Swing Door Operator or $1,000 in DCM hardware. Booth #9016.

800/437-3667 | doorcontrolsusa.com
FHC Frameless Hardware Company LLC

FHC will highlight its Aspire Thermally Broken Insulated Glass Door Entrance System along with the “VDS” Vertical Door Stile System. These new products bring next-level industry standards to air, water infiltration management and thermal performance, meeting the nation’s ever-evolving energy and building codes. Features include: thermally broken door rails and vertical door stiles utilizing polyamide strut thermal barriers; door handle hardware connects directly to the glass; narrow vertical door stiles with a unique clamping mechanism with unitizing gaskets for fast, durable installations; and more. Booth #6016. 323/336-8307 | fhc-usa.com

Ideal Glass Hardware Inc.

Ideal Glass Hardware introduced its new hydraulic Smpl-Door Rail system. The innovative door rail combines the strength and durability of the company’s 4-inch door rails with the simplicity of its ICFH100 Bottom Hydraulic Door Closers. The product requires no digging or cutting of the floor: installation is quick and easy with just four fasteners. The base seat is adjustable: 3 millimeters backward and forward, 3 mm left and right and 4-degree alignment adjustment. Booth #8129. 905/940-1363 | iglasshardware.com

Kenwa Trading Corp.

Kenwa Trading Corp.'s NHN PDC100 Patch Fitting Pivot Door Closer is the first in the flagship range from Kenwa-NHN’s next generation of glass door closers. Incorporating the latest cam type technology, the NHN PDC100 patch fitting pivot door closer offers easy opening with increased efficiency on the closing torque. The product is double-acting, narrow style with high performance, available with or without hold open function. The bottom part mounts on the floor surface without a need for preparing digging/cavity. Booth #9042. 516/933-6016 | kenwa-america.com
No matter what your project hinges on, we can handle it.

From complex projects to repeat orders, we’ll deliver the right ASSA ABLOY solution for you so you can focus on what’s truly important: driving your business forward.
**Kich Architectural Products**

Kich Architectural Products will promote its door pulls, lever handles, handles, door hardware, cabinet hardware, glass door hardware and railings. The pull handles are crafted with AISI 316 Grade SS and high-grade brass bushings to incorporate more threads and grip, while its lever handles are made with standard specifications, so that any make of standard mortise lock can be used with the handles. Meanwhile, the Kich railing systems offer enduring designs and finishing that adds a luxurious touch to the premises.

Booth #9074. 800/212-3638 | kichindia.com

---

**Linetec**

Linetec’s specialty wood grain coatings for aluminum provide the benefits of metal with the biophilic beauty of natural wood. Choose from more than 50 wood grain species and colors, along with textured grain patterns. Ensuring a durable surface that retains its color and gloss, Linetec's Class 2, 2+ and 2.5+ powder coating process meets or exceeds the AAMA 2604 specification. The finishes for aluminum mimic the aesthetic of real wood without swelling, rotting or warping.

Booth #9013. 715/843-4100 | linetec.com

---

**Q-Railing North America**

Easy Alu from Q-Railing offers all the benefits of a high-grade aluminum railing. This system provides fast installation with the option to pre-assemble components into complete railing sections in the comfort of the workshop. Customers can get on and off the construction sites by ordering “ready-to-install modules,” custom-made to their specifications.

Booth #7046. 714/259-1372 | q-railing.com
Outperforms the Competition

Advanced Coating Technology
Preserves Glass Like New!

- Repels Water, Soil, Stains, Oil & Minerals
- Prevents Scratches/Damage from Cement/Aluminum Run Off, Acid Rain, Pollution & Corrosion
- Makes Cleaning Faster, Easier & Affordable
- Improves Clarity, Cleanliness & Overall Appearance
- UV, Chemical & Abrasion Resistant
- Flexible - Automated Application in Seconds

Invisible Shield® PRO 15 has been Tested by Hundreds of Satisfied Manufacturers, Fabricators and Distributors Worldwide

Contact Unelko Corporation for a Fabricator or Distributor Near You.

See us at GlassBuild America, booth 8159.
01

SAF

SAF Sun Control Systems reduce solar heat gain and control glare to allow a designer to optimize use of natural sunlight, reduce energy consumption and create a more comfortable environment for occupants. The system includes air foils and fascia that are made from 6063-T6 aluminum alloy and brackets made from 6061-T6 aluminum alloy. Air foils are available in 4-, 6- and 8-inch variations. Blade configurations can vary and be custom-designed based on the desired amount of sun control. Blade angles can be adjusted for geographic locations or orientation. Booth #6071. 800/241-7429 | saf.com

02

Security Door Controls

Security Door Control’s Auto EntryControl Door Operator provides hands-free door control to help meet U.S. and Canadian ADA requirements for door installations in retail storefronts, office buildings, campuses and health care facilities. A built-in 1-Amp+, 24 volts DC internal power supply provides integration with other electrified hardware without adding a power supply. A fixed mounting bolt and pre-drilled mounting holes allow for single-technician installs. The product is built with a state-of-the-art microprocessor-based unit that is self-tuning and self-learning. Booth #8045. 805/494-0622 | sdcsecurity.com

Tremco provides the industry’s only single-source, comprehensive glazing systems for in-plant and in-field applications, along with flexible insulating glass spacers and sealants for residential and commercial markets. Visit us at GlassBuild to learn what we have in store for you next!

Learn more at TREMCOSEALANTS.COM
SG650 and SG450

SmartGroup America has introduced the smartest way for glaziers to lift and install glass. The SG650 and SG450 raise higher, reach further and lift heavier materials than any other manipulator in the same class. As the smartest lifts in the industry, we have improved safety and productivity like no other lift in America.

HIGHER, FASTER, SAFER & SMARTER

HEIGHT: Designed to raise 18 feet 6 inches high making it possible to install second-story windows from the ground

HORIZONTAL REACH: 11 feet 5 inches

LIFT CAPACITY: 1433 lbs (SG650) and 992 lbs (SG450)

SPEED: A potentiometer controls the desired speed of the manipulator

SAFETY: a load cell monitors safe weight and position of material. An LED indicator tells when the unit is approaching load capacity.

MACHINE WEIGHT: 2590 lbs (SG650) and 2314 lbs (SG450) – lowest center of gravity in its class!
Read the bonus advertising content on the next page
WHERE EXPERIENCE MEETS STATE-OF-THE-ART TECHNOLOGY

As a certified fabricator for the world's leading glass manufacturers and a wholesale distributor, American Insulated Glass is a foremost provider of high-performing glass for building facades and luxurious interior design solutions. Backed by a team of knowledgeable industry professionals and with a proven track record of excellence, AIG will meet your glazing requirements—commercial or residential—all while exceeding service expectations. **Simplify your projects with AIG.**

TO LEARN MORE VISIT AIGLASS.COM
The Titans of Glass Handling.

The Groves Buggy Buddy with removable wood base makes moving and storing glass effortless. Riveted rubber mounted strips on the base and upright supports help eliminate marring. Slim 24” profile and durable, industrial grade casters provide easier material handling while hold down straps secure and stabilize each load. Stronger, high quality construction and durable powder coated finish ensures years of dependable service.

www.groves.com | sales@groves.com | 800.991.2120
TPU & EVA Film
Features & Benefits:
• Reliable & Consistent
• Optically clear
• Excellent aging & weathering performance
• Does not need refrigeration before use
• Exceptionally strong glazing composite bonding

EdgeSeal & EdgeSeal Plus
Features & Benefits:
• Stable & durable composite TPU structure
• Keeps moisture & harmful chemicals out of laminates
• Reduces potential edge chipping & damage during handling, transportation, & installation
• Help maintains the integrity of laminate over time
• Plus version with proprietary foil layer for additional moisture & chemical protection

Contact us at www.swmintl.com/film or www.mativ.com
See us at GlassBuild America, booth 8044.
<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004</td>
<td>Arcadia Inc.</td>
</tr>
<tr>
<td>8154</td>
<td>Argon Filling Systems, Inc.</td>
</tr>
<tr>
<td>10104</td>
<td>Arino Duglass</td>
</tr>
<tr>
<td>9136</td>
<td>Arizona Shower Door, Inc.</td>
</tr>
<tr>
<td>8069</td>
<td>Arkema, Inc.</td>
</tr>
<tr>
<td>10124</td>
<td>Asas Aluminium AS</td>
</tr>
<tr>
<td>2089</td>
<td>Ascentium Capital</td>
</tr>
<tr>
<td>7124</td>
<td>Assa Abloy Opening Solutions</td>
</tr>
<tr>
<td>9085</td>
<td>Atas International Inc.</td>
</tr>
<tr>
<td>5280</td>
<td>ATech Machine Inc.</td>
</tr>
<tr>
<td>3118</td>
<td>AutoMak Assembly Inc.</td>
</tr>
<tr>
<td>2040</td>
<td>Bailey Specialty Cranes &amp; Aerials</td>
</tr>
<tr>
<td>7065</td>
<td>Banner Solutions</td>
</tr>
<tr>
<td>1051</td>
<td>Baberán S.A.</td>
</tr>
<tr>
<td>2232</td>
<td>Baveloni America Inc.</td>
</tr>
<tr>
<td>2091</td>
<td>Beijing Hanjiang Automatic Glass Machine Equipment Co., Ltd.</td>
</tr>
<tr>
<td>8020</td>
<td>Beijing Lead-Top International Fair Co., Ltd.</td>
</tr>
<tr>
<td>8024</td>
<td>Beijing Northtech Glass Co., Ltd.</td>
</tr>
<tr>
<td>6270</td>
<td>Benteler Maschinenbau GmbH</td>
</tr>
<tr>
<td>8107</td>
<td>BidClips</td>
</tr>
<tr>
<td>5064</td>
<td>Bilco Mfg. Inc.</td>
</tr>
<tr>
<td>7165</td>
<td>Blink Blinds + Glass</td>
</tr>
<tr>
<td>2033</td>
<td>Bondtech Corp.</td>
</tr>
<tr>
<td>5208</td>
<td>Bovone North America</td>
</tr>
<tr>
<td>6174</td>
<td>Bottero Flat Glass, Inc.</td>
</tr>
<tr>
<td>9022</td>
<td>British Pavilion</td>
</tr>
<tr>
<td>4232</td>
<td>Bromer Inc.</td>
</tr>
<tr>
<td>6244</td>
<td>Burkle North America Inc.</td>
</tr>
<tr>
<td>3069</td>
<td>BVC Group Inc. (Better Vacuum Cups Inc.)</td>
</tr>
</tbody>
</table>

**Visit us at**
GlassTech – Hall 14/E38
GlassBuild – Booth 7104

**OSPREY’10**

**where ultimate inspection technology is born**

**LiteSentry**

**SOFTSOLUTION**

**SCAN TO REGISTER, THEN VISIT US AT GLASSTEC OR GLASSBUILD AMERICA FOR YOUR CHANCE TO WIN A $250 GIFT CARD**
Gain Competitive Edge and stay ahead in the Glass Processing Business with

SPIL GLASS SOFTWARE

SPIL Glass Software provides an ideal and effective solution for any Glass processing business. Designed with the latest technologies to meet the complexities of any Glass processor, SPIL Glass Software organizes, manages and controls business processes. Not only that, SPIL Glass software increases productivity, reduces wastage and enhances return on investment so every little detail of your glass business is attended to.

SPIL assists with the management of the whole operation of your glass business including order entry, inventory, planning, production, optimization, delivery, transferring financial records from your accounting package and customized dashboards to ensure your business is running smoothly. The Glass Operations Management System provides integration with different accounting software and optimization software while linking with the machinery used in your factory. Our software allows you to concentrate on expanding your market share whilst maintaining your high customer service levels.

We offer our customers a comprehensive software which is customizable according to your business needs. Our SPIL customers believe it’s too good to be true due to the customization capability of our software, the support service we provide and the cost involved in using SPIL Glass Software.

The Modules and Features
SPIL Glass Software Offers

1. Order Entry
2. Pricing
3. Inventory
4. Planning and Optimization
5. Production
6. Glazing
7. Accounts Payable
8. Accounts Receivable
9. Dispatch
10. Credit control
11. Contract Management
12. Shape Drawing
13. Costing
14. Job Calendar
15. Customizable Dashboards
16. Asset Management
17. Business Intelligence
18. Center
19. CRM

SPIL Glass Software manages our state-of the art in-house glass manufacturing, which means we now offer an unparalleled range of bespoke products that form a strong competitive advantage.

Peter Best and Brendan Antrobus
Joint Managing Directors

Contact us to know more about SPIL Glass Software on +1 646 916 5665 | info@spilglass.com

See us at GlassBuild America, booth 8048.
<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>8041</td>
<td>Coroplast Tape Corporation</td>
</tr>
<tr>
<td>8064</td>
<td>Creative Millwork of Ohio Inc.</td>
</tr>
<tr>
<td>8197</td>
<td>Crimsafe North America</td>
</tr>
<tr>
<td>6152</td>
<td>CRL</td>
</tr>
<tr>
<td>4245</td>
<td>Datum Automation</td>
</tr>
<tr>
<td>8118</td>
<td>Decco Extrusion</td>
</tr>
<tr>
<td>8004</td>
<td>Deceuninck North America</td>
</tr>
<tr>
<td>9158</td>
<td>Define Overseas Pvt. Ltd.</td>
</tr>
<tr>
<td>5176</td>
<td>DeGorter Inc.</td>
</tr>
<tr>
<td>7178</td>
<td>Deltamax Automazione</td>
</tr>
<tr>
<td>6214</td>
<td>Deltarack USA &amp; Leading Edge</td>
</tr>
<tr>
<td>5254</td>
<td>DeMichele Group</td>
</tr>
<tr>
<td>5232</td>
<td>Diamon-Fusion International</td>
</tr>
<tr>
<td>3183</td>
<td>Diamant SAS</td>
</tr>
<tr>
<td>5238</td>
<td>Didion Autoclave</td>
</tr>
<tr>
<td>2115</td>
<td>Door &amp; Window Market (DWM) Magazine</td>
</tr>
<tr>
<td>6238</td>
<td>Door Controls USA Inc.</td>
</tr>
<tr>
<td>10064</td>
<td>dormakaba USA Inc.</td>
</tr>
<tr>
<td>7173</td>
<td>Dow</td>
</tr>
<tr>
<td>9093</td>
<td>Dreamwalls Innovative Glass Products</td>
</tr>
<tr>
<td>9017</td>
<td>Dri-Design Inc.</td>
</tr>
<tr>
<td>6276</td>
<td>Eastman Machine Company</td>
</tr>
<tr>
<td>2119</td>
<td>Edda Pack</td>
</tr>
<tr>
<td>4134</td>
<td>EDTM Inc.</td>
</tr>
<tr>
<td>7197</td>
<td>Elliott Manufacturing</td>
</tr>
<tr>
<td>5110</td>
<td>Elumatec North America Inc.</td>
</tr>
<tr>
<td>5086</td>
<td>Emmegi USA Inc.</td>
</tr>
<tr>
<td>5246</td>
<td>EnduroShield</td>
</tr>
<tr>
<td>9087</td>
<td>Ensinger - insulbar North America</td>
</tr>
<tr>
<td>8128</td>
<td>Erd Metal</td>
</tr>
<tr>
<td>5194</td>
<td>Erdman Automation Corp.</td>
</tr>
<tr>
<td>6054</td>
<td>Ergo Robotic Solutions</td>
</tr>
<tr>
<td>9070</td>
<td>eSUB Construction Software</td>
</tr>
<tr>
<td>8158</td>
<td>ESWindows</td>
</tr>
<tr>
<td>7218</td>
<td>Eva Cloud - The Fenestration Software</td>
</tr>
<tr>
<td>1047</td>
<td>EZ Scaffold</td>
</tr>
<tr>
<td>8098</td>
<td>F. Barkow Inc.</td>
</tr>
<tr>
<td>7191</td>
<td>Fapim S.p.A. Hardware Mfg.</td>
</tr>
<tr>
<td>4188</td>
<td>Faraone</td>
</tr>
<tr>
<td>1172</td>
<td>Fenestration and Glazing Industry Alliance</td>
</tr>
<tr>
<td>6096</td>
<td>FeneTech Inc.</td>
</tr>
<tr>
<td>2088</td>
<td>Fenzi-North America</td>
</tr>
</tbody>
</table>

**Motorized Loader - Unloader**

- Interface with Drawers system and Cutting Line.
- Different solution to load and unload your glass.
- For returnable steel rack with 3MM to 12MM Thick

Motorized Raking System with Shuttle  [www.bromerinc.com](http://www.bromerinc.com)

- 450-477-6682

See us at GlassBuild America, booth 4232.
Shaping the sustainable future of glass

Meet us at

GLASSTEC 2022
Düsseldorf, Germany
Sep 20-23
Hall 15, Stand A40/A41

GlassBuild America 2022
Las Vegas, NV
Oct 18-20
Stand #6112

Machinery, services and solutions designed with the future in mind for the architectural, automotive, solar and appliance industries.

info@glaston.net | www.glaston.net | www.glastory.net | www.gpd.fi
### EXHIBITOR LIST

<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100</td>
<td>Ferro Dip-Tech</td>
</tr>
<tr>
<td>6016</td>
<td>FHC Frameless Hardware Company</td>
</tr>
<tr>
<td>2116</td>
<td>Filtraglass</td>
</tr>
<tr>
<td>4080</td>
<td>Flexijet North America</td>
</tr>
<tr>
<td>5002</td>
<td>FOM USA</td>
</tr>
<tr>
<td>3064</td>
<td>Forel S.p.A. / Forel North America</td>
</tr>
<tr>
<td>7125</td>
<td>Fornax Door and Window Accessories</td>
</tr>
<tr>
<td>6136</td>
<td>Friedman Corporation</td>
</tr>
<tr>
<td>6074</td>
<td>FUX Maschinenbau und Kunststofftechnik GmbH</td>
</tr>
<tr>
<td>9071</td>
<td>GDS Estimating</td>
</tr>
<tr>
<td>2010</td>
<td>GED Integrated Solutions Inc. &amp; Norfield</td>
</tr>
<tr>
<td>8077</td>
<td>Genius Retractable Screens</td>
</tr>
<tr>
<td>6124</td>
<td>GGI</td>
</tr>
<tr>
<td>6077</td>
<td>Glass Coatings and Concepts</td>
</tr>
<tr>
<td>7184</td>
<td>Glass Company</td>
</tr>
<tr>
<td>3054</td>
<td>Glass Machinery Direct</td>
</tr>
<tr>
<td>1172</td>
<td>Glass Magazine</td>
</tr>
<tr>
<td>10100</td>
<td>Glass Vice</td>
</tr>
<tr>
<td>7196</td>
<td>Glasslam</td>
</tr>
<tr>
<td>3081</td>
<td>Glassline Corp</td>
</tr>
<tr>
<td>7132</td>
<td>Glassopolis</td>
</tr>
<tr>
<td>7203</td>
<td>Glass-Technology International</td>
</tr>
<tr>
<td>8067</td>
<td>GlassTrax &amp; Glaziers Online</td>
</tr>
<tr>
<td>6112</td>
<td>Glaston America</td>
</tr>
<tr>
<td>8047</td>
<td>GlasWeld Scratch Removal</td>
</tr>
<tr>
<td>9044</td>
<td>Glazelock Inc.</td>
</tr>
<tr>
<td>8208</td>
<td>Global Security Glazing</td>
</tr>
<tr>
<td>7025</td>
<td>Goldstar Co., Ltd.</td>
</tr>
<tr>
<td>9120</td>
<td>Gonzato Group CA Inc.</td>
</tr>
<tr>
<td>9023</td>
<td>Grabo / Nemo Power Tools</td>
</tr>
<tr>
<td>2020</td>
<td>Graf Industries Inc.</td>
</tr>
<tr>
<td>9076</td>
<td>Grove Structural Shims</td>
</tr>
<tr>
<td>4026</td>
<td>Groves Incorporated</td>
</tr>
<tr>
<td>6194</td>
<td>Guardian Glass</td>
</tr>
<tr>
<td>7021</td>
<td>Guizhou Golden Ocean Trading Co., Ltd.</td>
</tr>
<tr>
<td>8165</td>
<td>Gulf Rubber Industries LLC</td>
</tr>
<tr>
<td>8180</td>
<td>Gunther Mirror Mastics</td>
</tr>
<tr>
<td>9072</td>
<td>Gutmann North America</td>
</tr>
<tr>
<td>9072</td>
<td>Gutmann Orama</td>
</tr>
<tr>
<td>7067</td>
<td>Hardware Everywhere</td>
</tr>
<tr>
<td>7093</td>
<td>H.B. Fuller</td>
</tr>
<tr>
<td>5158</td>
<td>Haffner Machinery</td>
</tr>
<tr>
<td>8123</td>
<td>Hans Building Material Technology Co. Ltd.</td>
</tr>
</tbody>
</table>

**EXPERTS IN:**

- Frameless Shower Hardware
- Guardrailings
- Architectural Metals
- Total Project Support

---

**MORSE ARCHITECTURAL**

www.morsearchitectural.com

800.325.7513

Follow our social media pages for regular updates!

@MorseArchitectural

Scan Here to reserve your gift from the Morse Architectural team!

Redeemable at booth #9201
IT’S HARMLESS.
Unless your sealant process fails.

Moisture protection. Thermal and acoustic performance. Aesthetics. These are just a few of the reasons to make certain there is an International Union of Painters and Allied Trades glazier on the job. They have thousands of hours of training in virtually every type of glazing, from installing energy-efficient curtain walls to cutting intricate shelving. They are the clear choice for safety, performance and durability.

Learn more at IUPATglaziers.com

See us at GlassBuild America, booth 6219.
**Latest Technology In Laminating - Infrared and Convection**

**FAST & EFFICIENT FOR COATED & UNCOATED, ELECTROCHROMIC & PHOTOCHROMIC GLASS**

Casso-Solar Technologies’ Glass **Laminating Systems** for high speed, high volume requirements, fully automated, special handling of low-e reflective glass, custom configurations. Full Convection Top & Bottom. Full Infrared top & Bottom. PLC Controls.

**Laminated SENTRYGLAS® Trim Tables** - softens the interlayer for easy trimming. Sizes up to 96” X 120” as standard.

Casso-Solar Technologies’ **Vacuum Bag Lamination System** for bringing your low volume laminated glass production in-house. Combination Infrared & Convection heating for fast cycle times. PLC Controlled.

**MULTI-STATION BENDING & CASTING OVEN SYSTEMS**

Casso-Solar Technologies’ Single & Multi-Station Glass Bending & Casting Ovens provide reduced cycle time, precision PLC control with 120” x 180” x 30” chambers

**CALL 845-354-2010 for Problem Solving Details - SEE US AT GLASSBUILD AMERICA - STAND 6232**

www.cassosolartechnologies.com
Gen II ArmorPlast®
Aluminum-Framed
Door Conversion Kit

Upgrade standard aluminum-framed storefront doors to high-security commercial entry doors with our Gen II conversion kits. Designed for 3/8”, 1/2”, 3/4”, 1”, and 1-1/4” ArmorPlast® Riot Glass and most ballistic infills.

The new Gen II security system has been engineered specifically for fast and easy installation. Just remove the glass stops and door glass, cut the conversion frames, and fasten the new security panel in place. Every order is shipped with detailed instructions and the Riot Glass product support staff is eager to help.

Our door conversion products are just part of the Gen II Storefront Security System. Dealer territories are available. Call or visit our website for full details.

See us at GlassBuild America, booth 6221.
### EXHIBITOR LIST

<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>8190</td>
<td>L.M. dei F.lli Monticelli s.r.l. - Gruppo Montifin</td>
</tr>
<tr>
<td>5182</td>
<td>La Tecnica Nel Vetro</td>
</tr>
<tr>
<td>2101</td>
<td>LaPel Solutions</td>
</tr>
<tr>
<td>9053</td>
<td>Larson Engineering Inc.</td>
</tr>
<tr>
<td>9013</td>
<td>Linetec</td>
</tr>
<tr>
<td>9164</td>
<td>Linkan North America LLC</td>
</tr>
<tr>
<td>5018</td>
<td>Lisec America Inc.</td>
</tr>
<tr>
<td>7104</td>
<td>LiteSentry - Softsolution</td>
</tr>
<tr>
<td>7133</td>
<td>Longhorn Architectural Products LLC</td>
</tr>
<tr>
<td>8164</td>
<td>M3 Glass Technologies</td>
</tr>
<tr>
<td>3224</td>
<td>Machines and Wheels Inc.</td>
</tr>
<tr>
<td>4182</td>
<td>Macotec S.r.l.</td>
</tr>
<tr>
<td>7087</td>
<td>Magid</td>
</tr>
<tr>
<td>7070</td>
<td>Mainstreet Computers LLC</td>
</tr>
<tr>
<td>7069</td>
<td>Mapes Panels</td>
</tr>
<tr>
<td>5186</td>
<td>Mappi America Inc.</td>
</tr>
<tr>
<td>7212</td>
<td>Marine Fasteners, Inc.</td>
</tr>
<tr>
<td>5124</td>
<td>Matodi USA</td>
</tr>
<tr>
<td>9113</td>
<td>Maxest Industrial Inc / McThermo LLC</td>
</tr>
<tr>
<td>6172</td>
<td>Mazzaroppi Engineering S.r.l.</td>
</tr>
<tr>
<td>9031</td>
<td>Mbs Standoffs</td>
</tr>
<tr>
<td>9012</td>
<td>McKeegan Equipment</td>
</tr>
<tr>
<td>5076</td>
<td>Mecal USA Inc.</td>
</tr>
<tr>
<td>8038</td>
<td>Millet Glass Industry</td>
</tr>
<tr>
<td>4190</td>
<td>Mole Moreschi S.r.l.</td>
</tr>
<tr>
<td>9201</td>
<td>Morse Architectural</td>
</tr>
<tr>
<td>1172</td>
<td>MyGlassClass</td>
</tr>
<tr>
<td>6130</td>
<td>MyGlassTruck</td>
</tr>
</tbody>
</table>

### OUT

OUT-SWING CASEMENT AND AWNING WINDOW HARDWARE

Cremone handle on the frame to allow safety screen mount. Fully adjustable hardware system 3 positioning limiting arm length and possibility to use also 2 arms. Longer shaft handle to meet ADA requirements. Stainless steel safety torx screws on limiting arm for custodial applications.

### The AAMA 513

![AAMA 513 Logo](https://example.com/aama513.png)

NYC DEPARTMENT OF HEALTH AND MENTAL HYGIENE

---

U.S. Office: Antonio D'Abrosca  T +1 3303286737 - antonio.dabrosca@fapim.it  / BOOTH 7191

---

**GLASSMAGAZINE.COM**

**110**
Cooper Standard ISG custom designs seals and gaskets for commercial and residential building applications. Partner with our engineers for a custom seal that performs in demanding environments while satisfying architectural design specifications. Connect with us 330.339.3373

Cooper Standard ISG uses **Finite Element Analysis (F.E.A.)** to simulate the effects of compression deflection on different material types with complex to simple geometry profiles.  

*It is beneficial to reduce development costs, save time and improves product performance.*

**Product Features**

- LOW FRICTION COATING
- VULCANIZED CORNERS
- DUAL & TRI DUROMETER

Cooper Standard ISG custom designs seals and gaskets for commercial and residential building applications. Partner with our engineers for a custom seal that performs in demanding environments while satisfying architectural design specifications. Connect with us 330.339.3373

www.cooperstandard-isg.com

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

See us at GlassBuild America, booth 7098!
## EXHIBITOR LIST

<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>10130</td>
<td>Panda Windows &amp; Doors</td>
</tr>
<tr>
<td>2029</td>
<td>Paradigm</td>
</tr>
<tr>
<td>3040</td>
<td>Pat Mooney Saws</td>
</tr>
<tr>
<td>2035</td>
<td>PDS IG Equipment LLC</td>
</tr>
<tr>
<td>10198</td>
<td>Preference North America, Inc.</td>
</tr>
<tr>
<td>3032</td>
<td>Perfect Score Technologies</td>
</tr>
<tr>
<td>4218</td>
<td>Perti North America</td>
</tr>
<tr>
<td>9112</td>
<td>PH Tech Inc.</td>
</tr>
<tr>
<td>6136</td>
<td>PMC Software</td>
</tr>
<tr>
<td>8168</td>
<td>Podium</td>
</tr>
<tr>
<td>8212</td>
<td>Polaris Soft Close Hinge</td>
</tr>
<tr>
<td>9043</td>
<td>Polytronix Inc.</td>
</tr>
<tr>
<td>9108</td>
<td>PRL Aluminum</td>
</tr>
<tr>
<td>9109</td>
<td>PRL Glass</td>
</tr>
<tr>
<td>9168</td>
<td>Process Label Systems Inc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3088</td>
<td>Prodim USA</td>
</tr>
<tr>
<td>8204</td>
<td>Profile Wrapping- Diversified Mfg of CA, DMOC Inc.</td>
</tr>
<tr>
<td>7046</td>
<td>Q-railing - North America</td>
</tr>
<tr>
<td>7199</td>
<td>Quan Dat Aluminium Fascade</td>
</tr>
<tr>
<td>7026</td>
<td>Quanex</td>
</tr>
<tr>
<td>5028</td>
<td>Quattrorifics USA Ltd.</td>
</tr>
<tr>
<td>4249</td>
<td>Quick Fabrication</td>
</tr>
<tr>
<td>8009</td>
<td>RA Workshop Software</td>
</tr>
<tr>
<td>9184</td>
<td>RACO Interior Products</td>
</tr>
<tr>
<td>7179</td>
<td>Radisson Industries</td>
</tr>
<tr>
<td>7209</td>
<td>Reed Rubber Products</td>
</tr>
<tr>
<td>9080</td>
<td>Reliable Products</td>
</tr>
<tr>
<td>8016</td>
<td>Rider Glass Co. Ltd.</td>
</tr>
<tr>
<td>6221</td>
<td>Riot Glass Inc.</td>
</tr>
<tr>
<td>6079</td>
<td>RiteScreen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>7045</td>
<td>Rockwell Security Inc.</td>
</tr>
<tr>
<td>6071</td>
<td>SAF</td>
</tr>
<tr>
<td>8065</td>
<td>Safti First Fire Rated Glazing Solutions</td>
</tr>
<tr>
<td>5050</td>
<td>Salem Fabrication Supplies and HHH Equipment Resources</td>
</tr>
<tr>
<td>6118</td>
<td>Satinal USA Inc.</td>
</tr>
<tr>
<td>8192</td>
<td>SBMS Group Inc.</td>
</tr>
<tr>
<td>5176</td>
<td>Schiatti Angelo S.r.l.</td>
</tr>
<tr>
<td>7172</td>
<td>Schiavo Glass Machinery SGM S.r.l.</td>
</tr>
<tr>
<td>7222</td>
<td>Schilling Inc.</td>
</tr>
<tr>
<td>8051</td>
<td>Schlegel PolyFab</td>
</tr>
<tr>
<td>2112</td>
<td>Scotchman Industries</td>
</tr>
<tr>
<td>7185</td>
<td>Screenco Manufacturing, Ltd.</td>
</tr>
<tr>
<td>8045</td>
<td>Security Door Controls</td>
</tr>
<tr>
<td>8070</td>
<td>Sevasa</td>
</tr>
</tbody>
</table>

---

**Frameless Shower Door Specialists**

Visit our NEW website

Orders over $100 ship **FREE** in the Continental U.S.

P 877.728.3874  F 888.440.9567  W ushorizon.com
High Speed and High Quality

New standards for the production of insulating glass units with thermoplastic spacers

- Most accurate TPA material application
- Permanent support of all center glasses
- 20% higher output due to vertical lift over

Visit us @ GlassBuild America
18 - 20 October | Las Vegas
Booth 5018

www.lisec.com
Together, BETA MAX Hoists and LGH will provide customers with increased availability of premium hoists and industry-leading lifting knowledge for successful Lifts of any height.

Please visit www.rentlgh.com/gm for more info.

<table>
<thead>
<tr>
<th>EXHIBITOR LIST</th>
<th>EXHIBITOR LIST</th>
<th>EXHIBITOR LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOTH</td>
<td>COMPANY NAME</td>
<td>BOOTH</td>
</tr>
<tr>
<td>3098</td>
<td>Shoham Machinery Ltd.</td>
<td>8081</td>
</tr>
<tr>
<td>8186</td>
<td>Sika Corporation</td>
<td>8046</td>
</tr>
<tr>
<td>8131</td>
<td>SilGuard by Inverge</td>
<td>9038</td>
</tr>
<tr>
<td>6184</td>
<td>SKG SRL - Skill Glass, S.r.l.</td>
<td>9035</td>
</tr>
<tr>
<td>9099</td>
<td>Sky Building Products</td>
<td>8184</td>
</tr>
<tr>
<td>2099</td>
<td>Skyreach Equipment</td>
<td>3050</td>
</tr>
<tr>
<td>7016</td>
<td>Smart Lift US Inc.</td>
<td>7017</td>
</tr>
<tr>
<td>7206</td>
<td>Smart Logistics</td>
<td>7017</td>
</tr>
<tr>
<td>8152</td>
<td>Smart-Builder Glass Software</td>
<td>9021</td>
</tr>
<tr>
<td>2097</td>
<td>SmartGroup America</td>
<td>9107</td>
</tr>
<tr>
<td>8104</td>
<td>Smith Case</td>
<td>8044</td>
</tr>
<tr>
<td>6040</td>
<td>Soft Tech Group</td>
<td>3067</td>
</tr>
<tr>
<td>3056</td>
<td>Southern Stretch Forming</td>
<td>8080</td>
</tr>
<tr>
<td>8080</td>
<td>SPH Global / Protectapeel</td>
<td>8105</td>
</tr>
<tr>
<td>10046</td>
<td>Spider by BrandSafway</td>
<td>9037</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3209</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9041</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5172</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3065</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8071</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3075</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6164</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7216</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9024</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6209</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7112</td>
</tr>
</tbody>
</table>
YOUR COMPLETE SARGENT SOLUTION

Top Notch is proud to stock locks, closers & exit devices from Sargent. Take advantage of our vast inventory of popular items including 8800 Series Exit Devices, 281 & 351 Series Closers, 10 Series locks and much more. Avoid long lead times, and source your next project with Top Notch and Sargent. 99% of orders ship the same day they’re placed!

SARGENT
ASSA ABLOY

Call 800.233.4210 or visit www.topnotchinc.com to place your order today!
<table>
<thead>
<tr>
<th>BOOTH</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>8159</td>
<td>Unelko Corp. - Invisible Shield</td>
</tr>
<tr>
<td>9159</td>
<td>Uni_Link Software &amp; Automation USA LLC</td>
</tr>
<tr>
<td>8176</td>
<td>Unikoo Glass &amp; Hardware</td>
</tr>
<tr>
<td>8054</td>
<td>Unruh Fab Inc.</td>
</tr>
<tr>
<td>3092</td>
<td>US Centrifuge</td>
</tr>
<tr>
<td>2113</td>
<td>USGlass Magazine</td>
</tr>
<tr>
<td>6084</td>
<td>VEKA North America</td>
</tr>
<tr>
<td>7129</td>
<td>Vesuvius</td>
</tr>
<tr>
<td>9121</td>
<td>Vicone High Performance Rubber Inc.</td>
</tr>
<tr>
<td>8174</td>
<td>Vip Rubber Company</td>
</tr>
<tr>
<td>5242</td>
<td>Viprotron North America Inc.</td>
</tr>
<tr>
<td>6206</td>
<td>Vision Hardware Inc.</td>
</tr>
<tr>
<td>6064</td>
<td>Vitro Architectural Glass</td>
</tr>
<tr>
<td>7180</td>
<td>Vitrum S.r.l. - GIMAV</td>
</tr>
<tr>
<td>7080</td>
<td>Wagner Companies</td>
</tr>
<tr>
<td>3150</td>
<td>Wakefield Equipment</td>
</tr>
<tr>
<td>2052</td>
<td>Walco (Powered by Novacel)</td>
</tr>
<tr>
<td>9054</td>
<td>Walker Glass Company Ltd.</td>
</tr>
<tr>
<td>9007</td>
<td>Walter A Wood Supply Co.</td>
</tr>
<tr>
<td>4239</td>
<td>Water Treatment Solutions</td>
</tr>
<tr>
<td>2026</td>
<td>Weldco Sales Inc.</td>
</tr>
<tr>
<td>8020</td>
<td>Welland Hardware Manufacturing Co. Ltd.</td>
</tr>
<tr>
<td>8167</td>
<td>Wesco Anixter</td>
</tr>
<tr>
<td>1172</td>
<td>Window + Door</td>
</tr>
<tr>
<td>9157</td>
<td>Windowmaker Software</td>
</tr>
<tr>
<td>7136</td>
<td>Winlet</td>
</tr>
<tr>
<td>4032</td>
<td>Winpro</td>
</tr>
<tr>
<td>6136</td>
<td>Winsys</td>
</tr>
<tr>
<td>8023</td>
<td>Wintek by The Georgian Bar Company Ltd.</td>
</tr>
<tr>
<td>8011</td>
<td>Witte North America</td>
</tr>
<tr>
<td>7064</td>
<td>Wood’s Powr-Grip Co. Inc.</td>
</tr>
<tr>
<td>9050</td>
<td>Wrisco Industries Inc.</td>
</tr>
<tr>
<td>4074</td>
<td>Xinglass America</td>
</tr>
<tr>
<td>7201</td>
<td>YourRadar</td>
</tr>
<tr>
<td>3218</td>
<td>Yuntong Glass USA</td>
</tr>
<tr>
<td>8201</td>
<td>Zone Import Inc.</td>
</tr>
</tbody>
</table>

**PROVIDING THE BEST SERVICE IN FLAT GLASS PRODUCTS**

**PRODUCT OFFERINGS**

- ☑️ INSULATED GLASS
- ☑️ TEMPERING
- ☑️ FABRICATION
- ☑️ MIRRORS

**NEED YOUR ORDER TOMORROW? WE CAN MAKE IT HAPPEN!**

Get in Touch with Us! (562) 983-1374
sales@wsglass.com | www.wsglass.com
790 West 12th Street, Long Beach, CA 90813
Affordable Education For:

- Glaziers
- Fabricators
- Business Owners
- Sales Reps
- Customer Service

44% Of Top Glaziers Use Myglassclass.com

100+ Online, On-Demand Courses

60+ Spanish Courses
Read the bonus advertising content on the next page.
Max™ Glassboards are multi-functional and highly customizable solutions designed to encourage collaborative experiences. Contact us today to learn how GGI can support your visual display needs.
SOLUTION:
GPX BUILDERS SERIES DOORS BY SAFTI FIRST

KEY FEATURES

ULTIMATE TRANSPARENCY WITH FULL-VISION, FIRE-RATED, TEMPERATURE RISE DOORS UP TO 90 MINUTES.

TALLEST FULL-VISION, FIRE-RATED TEMPERATURE RISE DOOR WITH A MAXIMUM HEIGHT OF 10 FEET.

AVAILABLE IN MULTIPLE FINISHES INCLUDING ALUMINUM CLAD AND STAINLESS STEEL CLAD.

SLEEK STANDARD AND NARROW PROFILES WITH FLEXIBLE HARDWARE.

GPX Builders Series Doors from SAFTI FIRST provide the ultimate vision, transparency and fire protection from 20 to 90 minutes. GPX Builders Series Doors have the largest tested and listed size for full-vision fire-rated doors and the only manufacturer with a maximum height of 10 feet.

Listed by UL and Intertek, the series meets NFPA 252/UL 10C for all fire, safety and temperature rise door requirements for any application. It is available in standard and narrow profiles, custom finishes including high-performance fluoropolymer finishes by PPG, aluminum clad or stainless steel clad and flexible hardware options. Additionally, the doors are proudly made in the United States.

SAFTI FIRST’s GPX Builders Series Doors are the ideal solution for schools, hospitals, corporate offices, transit centers, mixed-use commercial/residential, or any application where vision and transparency are desired. Instead of small door lites with wire or ceramic glass, the GPX Builders Series Doors feature SAFTI FIRST’s full array of clear, USA-made fire-protective and fire-resistive glazing products in maximum sizes.

Learn more at safti.com or 888/653-3333.
01. Decorative glass
General Glass International added a new decorative glass solution to its line of textured patterned solutions. Stylos S is an engraved glass solution with a vertical design that offers visual interest, privacy and high visible light transmission. This new solution will be available in ½-inch thick, 88.5 inches by 126 inches. Stylos S clear, low-iron and tinted in 4, 5, 6, 8, 10 and 12 millimeters will be available for special orders. 800/431-2042 | GENERALGLASS.COM

02. Ceramic enamel
Glass Coatings and Concepts introduced a new product line called EX Series Surface One Ceramic Enamel. This product contains an engineered frit design for surface one application. It gives building architects unique tools to create new decorative glass designs. They are designed to be screen printed and are delivered ready-to-use. Side 1 is the preferred position for bird-friendly glass patterns, where visual markers have tested most effective in deterring bird-to-glass collisions, say company officials. 513/539-5300 | GCCONCEPTS.COM

03. Kneepads
Brass Knuckle’s new light-duty and heavy-duty kneepads are manufactured to help reduce the risk of injury and minimize joint fatigue. Designed for those who spend time working on their knees, like flooring installation and roof work, these kneepads provide additional comfort at work while helping extend careers. The BKKN100 Light-Duty kneepads come with a single adjustable strap for hours of lightweight comfort. The Heavy-Duty kneepads provide all-day, high-level protection with a hard, contoured cap. 770/674-8930 | BRASSKNUCKLEPROTECTION.COM

04. Safety gloves
Magid’s RepTek Grip silicone palm-coated gloves provide adhesion resistance, paired with high cut resistance and dexterity. For window manufacturers, these gloves are manufactured to make workers’ lives easier while keeping them safe and comfortable in hot and dangerous environments. The GPD487 features a Hyperon ANSI cut level A5 shell, and the GPD787 uses Magid’s AeroDex Technology to achieve cut level A7 protection, but both options are cool and lightweight, providing long-wearing cut resistance. 800/867-1083 | MAGIDGLOVE.COM
01. Video course
Linetec added a new online, on-demand video continuing education course to its website. The new course, “Architectural Design Opportunities: Utilizing High-Performance Coatings,” joins “Architectural Coatings: Weathering, Performance and Application of High-Performance Coatings” as an approved American Institute of Architects Continuing Education Series presentation. Those who successfully complete both of Linetec’s one-hour, self-guided courses can earn up to 2.0 Learning Units.
715/843-4100 | LINETEC.COM

02. Design tool
Vitro Architectural Glass launched VitroSphere Digital Glass Simulator, a new virtual tool for visualizing architectural glass, at thevitrosphere.com. Developed for architects, this tool allows users to explore, visualize and compare Vitro’s Solarban solar control low-emissivity glass products across a range of building types.
412/820-8500 | VITROGLAZINGS.COM
WHAT IS SMARTLIFT?

Smartlift is a glass robot for professionals that can cover a wide range of installation projects - whether it is an inside or outside job.

A Smartlift is characterized by high performance, precision, and quality finish.

HOW DO I GET A SMARTLIFT?

Our Smartlift headquarters is in Omaha, NE however we provide service all across the U.S. No matter where you are we offer free demonstrations in several states. We can ship and service anywhere in the U.S. We also offer great financing options, contact us today to learn more!

WHY SMARTLIFT?

- Quality and efficiency
- Excellent customer service
- Service set up
- Machines and parts in stock for immediate delivery
- Worth the investment

CONTACT US!
402-215-8080
SMARTLIFT.COM/US
SMARTLIFTUS@SMARTLIFT.COM

See us at GlassBuild America, booth 7016.

MEET US AT GLASSBUILD AMERICA 2022 - LAS VEGAS CONVENTION CENTER

Come to both 7016 and meet our entire team and get a demonstration of our machines. Join us at GlassBuild America in Las Vegas October 18-20th 2022.

03. Hardware catalog
The Frameless Hardware Co. published the FSH24 Frameless Shower Door Hardware and Supplies Catalog. The catalog showcases the latest selection of products designed to please designers and homeowners, while also helping grow glass and glazing companies. The 176 pages include professional-grade shower door hardware and trusted industry standards spanning shower door hinges, handles, pulls, glass clamps, U-channels, sliding kits, installation tools, supplies, accessories and more. 888/295-4531 | FHC-USA.COM
Suppliers Guide

Blast Resistant

RAY•BAR USA
Security, Ballistic Glass and IGU’s
US: 800/444-9729
Fax: 800/333-9729
E-mail: sales@raybar.com
www.raybar.com

SAFTI FIRST® Fire Rated Glazing
100 N Hill Dr., Ste. 12
ADV
Brisbane, CA 94005-1010
US: 888/653-2333
Fax: 415/824-4900
E-mail: info@safstifirst.com
www.safstifirst.com

Vetrotech Saint-Gobain Fire-Rated Glass and Framing
2108 B St. NW, Ste. 110
ADV
Auburn, WA 98002
Phone: 888/803-9533
E-mail: vetrotech.sales@saint-gobain.com
www.vetrotechusa.com

Burglary Resistant

RAY•BAR USA
Security, Ballistic Glass and IGU’s
US: 800/444-9729
Fax: 800/333-9729
E-mail: sales@raybar.com
www.raybar.com

SAFTI FIRST® Fire Rated Glazing
100 N Hill Dr., Ste. 12
ADV
Brisbane, CA 94005-1010
US: 888/653-2333
Fax: 415/824-4900
E-mail: info@safstifirst.com
www.safstifirst.com

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 888-OLDCASTLE
(653-2278)
www.obe.com

Chemically Strengthened

Precision Glass Bending Corp.
P.O. Box 1970
3811 Hwy. 10 West
Greenwood, AR 72936-1970
US: 800/543-8798
Phone: 501/379-8065
Fax: 800/543-8798
E-mail: sales@e-bentglass.com
www.e-bentglass.com
(See our ad on page 125)

Color Coated

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcmgory.com
www.mcmgory.com

Decorative

Go to category DECORATIVE GLASS

Distributors

American Insulated Glass
7 Regional Fabrication Locations in the US
US: 866/519-1565
Phone: 404/561-9154
E-mail: sales@aglass.com
Web: www.aglass.com

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 866-OLDCASTLE
(653-2278)
www.obe.com

Anti-Reflective

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcmgory.com
www.mcmgory.com

Bent

Go to category BENT GLASS

Fire-Rated

RAY•BAR USA
Fastest Fire Glass and IGU’s Available
Phone: 800/444-9729
Fax: 800/333-9729
E-mail: sales@raybar.com
www.raybar.com

SAFTI FIRST® Fire Rated Glazing
100 N Hill Dr., Ste. 12
ADV
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safstifirst.com
www.safstifirst.com

Technical Glass Products
8107 Bracken Place SE
Snoqualmie, WA 98065
Phone: 800/426-0279
Fax: 425/986-8682
E-mail: sales@fireglass.com
www.fireglass.com
(See our ad on page 123)
www.rockwellsecurityinc.com
Fax: 418/862-8181
Phone: 418/862-2274
US: 800/463-1325
Riviere-du-Loup, GQ G5R 2M9

www.crlusa.com
Fax: 418/862-2274
Phone: 418/862-2274
US: 800/463-1325

www.amerope.com
Fax: 561/737-3721
Phone: 561/737-7370
US: 800/327-3320
Boynton Beach, FL 33426

www.curvedglasscreations.com
Fax (954) 917-0040

www.fhc-usa.com
Fax: 323/336-8307
South Gate, CA 90280

 suppliers-guide-fourthquarter/
INSULATING

Precision Glass Bending Corp.
P.O. Box 1970
3811 Hwy. 10 West
Greenwood, AR 72936-1970
US: 800/543-8796
Phone: 479/996-8065
Fax: 800/543-8798
E-mail: sales@e-bentglass.com
www.e-bentglass.com
(See our ad on this page)

Standard Bent Glass
P.O. Box 65
East Butler, PA 16029
Phone: 724/287-3747
www.standardbent.com

BENT GLASS

LAMINATED

Precision Glass Bending Corp.
P.O. Box 1970
3811 Hwy. 10 West
Greenwood, AR 72936-1970
US: 800/543-8796
Phone: 479/996-8065
Fax: 800/543-8798
E-mail: sales@e-bentglass.com
www.e-bentglass.com
(See our ad on this page)

Standard Bent Glass
P.O. Box 65
East Butler, PA 16029
Phone: 724/287-3747
www.standardbent.com

LAMINATED

Precision Glass Bending Corp.
P.O. Box 1970
3811 Hwy. 10 West
Greenwood, AR 72936-1970
US: 800/543-8796
Phone: 479/996-8065
Fax: 800/543-8798
E-mail: sales@e-bentglass.com
www.e-bentglass.com
(See our ad on this page)

Standard Bent Glass
P.O. Box 65
East Butler, PA 16029
Phone: 724/287-3747
www.standardbent.com

TEMPERED

Precision Glass Bending Corp.
P.O. Box 1970
3811 Hwy. 10 West
Greenwood, AR 72936-1970
US: 800/543-8796
Phone: 479/996-8065
Fax: 800/543-8798
E-mail: sales@e-bentglass.com
www.e-bentglass.com
(See our ad on this page)

Standard Bent Glass
P.O. Box 65
East Butler, PA 16029
Phone: 724/287-3747
www.standardbent.com

COMPUTER SOFTWARE

ACCOUNTING

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

MEASURE SHEET

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

MOBILE TECH APP

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

PAYMENT PROCESSING

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

CALL CENTERS

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

INVENTORY

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

ESTIMATING

GDS Storefront Estimating
2035 San Eljo Ave. #221
Carlsbad by the Sea, CA 92007
Phone: 858/538-4375
Fax: 858/538-4376
E-mail: sales@gdsestimating.com
www.gdsestimating.com
(See our ad on this page)

MEASURE SHEET

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

SCHEDULING

Mainstreet Computers Inc.
P.O. Box 1970
330 Charles St.
Belleville, MI 48111
US: 800/698-6246
Phone: 734/699-0025
Fax: 734/697-8228
E-mail: sales@mainstreetcomp.com
www.mainstreetcomp.com

DECORATIVE GLASS

American Insulated Glass
7 Regional Fabrication Locations in the US
US: 866/519-1565
Phone: 404/361-9154
E-mail: sales@aglass.com
Web: www.aglass.com
Suppliers Guide

RAILINGS

C.R. Laurence Co. Inc.
2503 E. Vernon Ave.
Los Angeles, CA 90058
US: 800/421-6444
E-mail: crl@crlaurence.com
www.crlaurence.com

Solar Innovations® Architectural Glazing Systems
31 Roberts Rd.
Pine Grove, PA 17963
US: 800/618-0669
Phone: 570/975-1500
Fax: 800/618-0743
E-mail: skylight@solarinnovations.com
www.solarinnovations.com

SLIDING GLASS MULTIPLE TRACK

Solar Innovations® Architectural Glazing Systems
31 Roberts Rd.
Pine Grove, PA 17963
US: 800/618-0669
Phone: 570/975-1500
Fax: 800/618-0743
E-mail: skylight@solarinnovations.com
www.solarinnovations.com

STOREFRONTS & ENTRANCES

C.R. Laurence Co. Inc.
2503 E. Vernon Ave.
Los Angeles, CA 90058
US: 800/421-6444
E-mail: crl@crlaurence.com
www.crlaurence.com

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcrory.com
www.mcrory.com

REBCO Inc.
1171-1225 Madison Ave.
Patiwon, NJ 07529-2248
US: 800/777-0787
Fax: 973/664-0200
E-mail: sales@REBCOinc.com
www.REBCOinc.com

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 888-OLDCASTLE (653-2278)
www.obe.com

OLDCASTLE BUILDINGENVOLVE®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 866-OLDCASTLE (653-2278)
www.obe.com

GLASS TOOLS & SUPPLIES

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcrory.com
www.mcrory.com

SAFETY & SECURITY

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 866-OLDCASTLE (653-2278)
www.obe.com

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

GLASS HANDLING, PACKAGING & STORAGE

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

Frameless Hardware Company
4361 Firestone Blvd.
South Gate, CA 90280
US: 888-295-4531
Fax: 323/336-8307
E-mail: info@igptools.com
www.igptools.com

HANDLING EQUIPMENT

Interlayer Solutions Inc.
6440 Boul. Henri Bourassa E.
Montreal, QC HIG 5W9 Canada
US: 855/875-1404
Phone: 514/326-4003
Fax: 514/326-9982
E-mail: info@interlayersolutions.com
www.interlayersolutions.com

GLASS HANDLING, PACKAGING & STORAGE

ERGO ROBOTIC SOLUTIONS

MULTIPLE TRACK

Solar Innovations® Architectural Glazing Systems
31 Roberts Rd.
Pine Grove, PA 17963
US: 800/618-0669
Phone: 570/975-1500
Fax: 800/618-0743
E-mail: skylight@solarinnovations.com
www.solarinnovations.com

OUTDOOR GLASS

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

GLASS TOOLS & SUPPLIES

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcrory.com
www.mcrory.com

DECORATIVE

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcrory.com
www.mcrory.com

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

(See our ad on this page)

WATER RESISTANT PROTECTIVE

FILMS/CATINGS

McGrory Glass Inc.
1400 Grandview Ave.
Paulsboro, NJ 08066
Phone: 800/220-3749
Fax: 856/579-3233
E-mail: sales@mcrory.com
www.mcrory.com

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
Brisbane, CA 94005-1010
US: 888/653-3333
Phone: 415/824-4900
Fax: 415/824-5900
E-mail: info@safti.com
www.safti.com

GLASS HANDLING, PACKAGING & STORAGE

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

(See our ad on this page)

INTERLAYER SOLUTIONS

INTERLAYER SOLUTIONS

GLASS HANDLING, PACKAGING & STORAGE

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

(See our ad on this page)

INTERLAYER SOLUTIONS

INTERLAYER SOLUTIONS

GLASS HANDLING, PACKAGING & STORAGE

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

(See our ad on this page)

INTERLAYER SOLUTIONS

INTERLAYER SOLUTIONS

GLASS HANDLING, PACKAGING & STORAGE

Ergo Robotic Solutions
51879-2179
j.nudi@ergorobotic.com
ErgoRobotic.com

(See our ad on this page)

INTERLAYER SOLUTIONS

INTERLAYER SOLUTIONS

GLASS HANDLING, PACKAGING & STORAGE
Suppliers Guide

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 866-OLDCASTLE (653-2278)
www.cassosolartechnologies.com
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: Vacuum Systems

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Glass Clad Polycarbonate

Oldcastle BuildingEnvelope®
More Than 85 Manufacturing and Distribution Locations in 25 US States, 4 Canadian Provinces, 3 European Countries and 3 Australian States.
US: 866-OLDCASTLE (653-2278)
www.cassosolartechnologies.com

Hurricane Glass

SAFTI FIRST® Fire Rated Glazing
100 N. Hill Dr., Ste. 12
ADV
Bay Area, CA 94080
PA: 866-333-3333
Fax: 415/624-4900
E-mail: info@safti.com
www.safti.com

Equipment: AUToclave

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

INTERLAYER

INTERLAYER SOLUTIONS

Interlayer Solutions Inc.
6440 Boul. Henri Bourassa E.
Montreal, QC H3G 5W9 Canada
US: 855/873-1404
Phone: 514/326-4003
Fax: 514/326-9982
E-mail: info@interlayersolutions.com
www.interlayersolutions.com

Safety

Interlayer Solutions Inc.
6440 Boul. Henri Bourassa E.
Montreal, QC H3G 5W9 Canada
US: 855/873-1404
Phone: 514/326-4003
Fax: 514/326-9982
E-mail: info@interlayersolutions.com
www.interlayersolutions.com

CNC Cutting

Eastman Machine Company
779 Washington St.
Buffalo, NY 14203
US: 800/872-5571
Phone: 716/856-2200
Fax: 716/856-1140
E-mail: sales@eastmancuts.com
www.eastmancuts.com

Bending

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Beveling

Florian Glass Service Inc.
3800 Bergen Turnpike
Union City, NJ 07087
Phone: 201/863-4770
Fax: 201/677-8830
Email: florianglass@optonline.net
www.florianglass.com
(See our ad on page 131)

Decorating

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Digital Templates

Prodim USA
7454 Commercial Circle
Fort Pierce, FL 34951
Fax: 888/229-3320
Phone: 772/465-4000
Fax: 772/465-8700
E-mail: info@prodimusa.com
www.prodim-systems.com

Drilling

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: OVENS & PRESSES

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: AUTOCLAVE

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: NON-AUTOCLAVE

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: VACUUM SYSTEMS

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Equipment: NON-REFLECTIVE: CLEAR

McGregor Glass Inc.
1400 Grandview Ave.
Pembroke, MA 08066
Phone: 978/220-1740
Fax: 978/579-3233
E-mail: sales@mcpgrory.com
www.mcpgrory.com

Equipment: MACHINERY &_EQUipment

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

MACHINERY & EQUIPMENT

General

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

MIRRORS

Go to category MIRRORS & RELATED PRODUCTS

Coating

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

SAFETY

Interlayer Solutions Inc.
6440 Boul. Henri Bourassa E.
Montreal, QC H3G 5W9 Canada
US: 855/873-1404
Phone: 514/326-4003
Fax: 514/326-9982
E-mail: info@interlayersolutions.com
www.interlayersolutions.com

Erdman Automation
1603 S. 14th St.
Princeton, MN 55371
US: 866/576-9777
Fax: 763/389-9475
E-mail: eac@erdmanautomation.com
www.erdmanautomation.com

ASSEMBLY

Muehrle IB Technologies AG
Laubachtalstrasse 72
CH-8772 Staefa
Switzerland
Phone: 909/427-3400
Fax: 914-42-674-1587
E-mail: info@erdmanautomation.com
www.muehrle.ch

(See our ad on this page)

E-mail: info@lattuada-na.com
www.lattuada-na.com

McGraw Glass Inc.
1400 Grandview Ave.
Pembroke, MA 08066
Phone: 978/220-1740
Fax: 978/579-3233
E-mail: sales@mcpgrory.com
www.mcpgrory.com

CNC Cutting

Eastman Machine Company
779 Washington St.
Buffalo, NY 14203
US: 800/872-5571
Phone: 716/856-2200
Fax: 716/856-1140
E-mail: sales@eastmancuts.com
www.eastmancuts.com

Central Flye: Glassline Corp.
P.O. Box 147
Perryburg, OH 43552
Phone: 419/666-5942
Fax: 419/666-1549
E-mail: sales@glassline.com
www.glassline.com

Decorating

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

Digital Templates

Prodim USA
7454 Commercial Circle
Fort Pierce, FL 34951
Fax: 888/229-3320
Phone: 772/465-4000
Fax: 772/465-8700
E-mail: info@prodimusa.com
www.prodim-systems.com

Drilling

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com
FOR SALE

BAVELLONI

STRaight Line Beveler

MODEL NAME: Z. Bavelloni B/73-CNS

YEAR: 2002

PRICE: $20,000.00

CONDITION: Runs great, low hours

Lattuada North America Inc.
6967 Wales Rd., Ste. F
Northwood, OH 45619
Toll Free: 844/243-4486
Phone: 845/547-0328
E-mail: info@lattuada-na.com
www.lattuada-na.com

HEATING ELEMENTS

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

INSULATION GLASS

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

LASERS: MARKING

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

LEHRS

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

PAINTING

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

WASHING

Casso-Solar Technologies
506 Airport Executive Park
Nanuet, NY 10954
Phone: 845/354-2010
Fax: 845/547-0328
E-mail: sales@cassosolartechnologies.com
www.cassosolartechnologies.com

SCREEN PRINTING

AWT World Trade Inc.
4321 N. Knox Ave.
Chicago, IL 60641
Phone: 713/777-7100
Fax: 713/777-0909
E-mail: sales@awt-gpi.com
www.awt-gpi.com
(See our ad on page 129)

GLASS & EQUIPMENT

Waterjet EJR Series
E-mail: info@lattuada-na.com
Phone: 567/249-4486
Toll Free: 844/243-4486
Northwood, OH 43619
6967 Wales Rd., Ste. F
It’s our year and it’s our time to show the world how architectural glass is adaptable, sustainable, energy-efficient, strong, beautiful, and safe—in a word, essential.
## Reader Response Center

<table>
<thead>
<tr>
<th>Advertiser</th>
<th>Page</th>
<th>Phone</th>
<th>Website or email address</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+W Software</td>
<td>20</td>
<td></td>
<td>a-w.com</td>
</tr>
<tr>
<td>Access Hardware Supply</td>
<td>34</td>
<td>800/348-2263</td>
<td>accesshardware.com</td>
</tr>
<tr>
<td>American Insulating Glass</td>
<td>99A</td>
<td></td>
<td>aiglass.com</td>
</tr>
<tr>
<td>AWT World Trade Inc.</td>
<td>129</td>
<td>773/777-7100</td>
<td>awt-gpi.com</td>
</tr>
<tr>
<td>Azon</td>
<td>30</td>
<td>800/788-5942</td>
<td>azonintl.com</td>
</tr>
<tr>
<td>Banner Solutions</td>
<td>95</td>
<td>888/362-0750</td>
<td>bannersistolutions.com</td>
</tr>
<tr>
<td>Billico Manufacturing Inc.</td>
<td>65</td>
<td>724/452-7390</td>
<td>billico-mfg.com</td>
</tr>
<tr>
<td>Binswanger Enterprises LLC</td>
<td>16–17</td>
<td></td>
<td>binswangerglass.com</td>
</tr>
<tr>
<td>Blink Blinds + Glass</td>
<td>23</td>
<td></td>
<td>blinkblinds.com</td>
</tr>
<tr>
<td>Bottero Flat Glass Inc.</td>
<td>33</td>
<td></td>
<td>bottero.com</td>
</tr>
<tr>
<td>Bovone North America</td>
<td>67</td>
<td>336/637-8226</td>
<td>email: <a href="mailto:sales@bovonenorthamerica.com">sales@bovonenorthamerica.com</a></td>
</tr>
<tr>
<td>Bromer Inc.</td>
<td>104</td>
<td>450/477-6682</td>
<td>bromerinc.com</td>
</tr>
<tr>
<td>C.R. Laurence</td>
<td>9</td>
<td>800/421-6144</td>
<td>crlaurence.com</td>
</tr>
<tr>
<td>Casso-Solar Technologies</td>
<td>108</td>
<td>845/354-2010</td>
<td>cassosolartechnologies.com</td>
</tr>
<tr>
<td>CooperStandard ISG</td>
<td>111</td>
<td>330/339-3373</td>
<td>cooperstandard-isp.com</td>
</tr>
<tr>
<td>Curved Glass Distributors</td>
<td>124</td>
<td>888/288-9129</td>
<td>curvedglasscreations.com</td>
</tr>
<tr>
<td>Diamon-Fusion International Inc.</td>
<td>51</td>
<td>888/344-4334</td>
<td>dfisolutions.com</td>
</tr>
<tr>
<td>Dow</td>
<td>2</td>
<td></td>
<td>dow.com/restore</td>
</tr>
<tr>
<td>Erdman Automation</td>
<td>61</td>
<td>763/389-9475</td>
<td>erdmanautomation.com</td>
</tr>
<tr>
<td>Ergo Robotic Solutions</td>
<td>7, 128</td>
<td>518/796-2179</td>
<td>egorobotic.com</td>
</tr>
<tr>
<td>F. Barkow</td>
<td>81</td>
<td>800/558-5580</td>
<td>barkow.com</td>
</tr>
<tr>
<td>Fapim S.p. A.</td>
<td>48, 110</td>
<td>330/328-6737</td>
<td>email: <a href="mailto:antonio.dabrosca@fapim.it">antonio.dabrosca@fapim.it</a></td>
</tr>
<tr>
<td>FeneTech Inc.</td>
<td>73</td>
<td>330/995-2830</td>
<td>fenetech.com</td>
</tr>
<tr>
<td>Filtraglass S.L.</td>
<td>26</td>
<td></td>
<td>filtraglass.com</td>
</tr>
<tr>
<td>Florian Glass Service Inc.</td>
<td>131</td>
<td>201/863-4770</td>
<td>florianglass.com</td>
</tr>
<tr>
<td>Gardner Glass Products Inc</td>
<td>35</td>
<td>800/334-7267</td>
<td>dreamwalls.com</td>
</tr>
<tr>
<td>GDS Estimating</td>
<td>125</td>
<td>858/538-4375</td>
<td>gdsestimating.com</td>
</tr>
<tr>
<td>GED Integrated Solutions</td>
<td>22</td>
<td>330/963-5401</td>
<td>gedusa.com</td>
</tr>
<tr>
<td>GGI</td>
<td>49, 117A</td>
<td>800/431-2042</td>
<td>generalglass.com</td>
</tr>
<tr>
<td>Glass Coatings &amp; Concepts</td>
<td>77</td>
<td>513/539-5300</td>
<td>gcconcepts.com</td>
</tr>
<tr>
<td>Glass Magazine Employment Center</td>
<td>120</td>
<td></td>
<td>jobs.glassmagazine.com</td>
</tr>
<tr>
<td>Glassfab Tempering Services</td>
<td>15</td>
<td>800/490-3860</td>
<td>glassfabusa.com</td>
</tr>
<tr>
<td>Glasshape North America</td>
<td>38</td>
<td>206/538-5416</td>
<td>glasshape.com</td>
</tr>
<tr>
<td>Glasswerks</td>
<td>31</td>
<td>888/789-7810</td>
<td>glasswerks.com</td>
</tr>
<tr>
<td>Glaston Finland Oy</td>
<td>105</td>
<td></td>
<td>email: <a href="mailto:info@glaston.net">info@glaston.net</a></td>
</tr>
<tr>
<td>Glazing Executives Forum 2022</td>
<td>50</td>
<td>703/442-4890 ext.178</td>
<td>glassbuild.com/glazing-executives-forum/</td>
</tr>
<tr>
<td>Groves Inc.</td>
<td>100</td>
<td>800/991-2120</td>
<td>groves.com</td>
</tr>
<tr>
<td>GuangDong Kin Long Hardware Products</td>
<td>12</td>
<td></td>
<td>email: <a href="mailto:mail@kinlong.com">mail@kinlong.com</a></td>
</tr>
<tr>
<td>Hegla Corp.</td>
<td>41</td>
<td>404/763-9700</td>
<td>email: <a href="mailto:info@heglaus.com">info@heglaus.com</a></td>
</tr>
<tr>
<td>HHH Equipment Resources</td>
<td>55</td>
<td>724/212-3749</td>
<td>hhghlassequipment.com</td>
</tr>
<tr>
<td>HoLampCo International</td>
<td>132</td>
<td>800/875-6288</td>
<td>holampcoresources.com</td>
</tr>
<tr>
<td>HP3 Software</td>
<td>71</td>
<td></td>
<td>hp3software.com</td>
</tr>
<tr>
<td>International Union of Painters and Allied Trades</td>
<td>107</td>
<td></td>
<td>iupatglaziers.com</td>
</tr>
<tr>
<td>JLM Wholesale</td>
<td>91</td>
<td>800/522-2940</td>
<td>jlmwholesale.com</td>
</tr>
<tr>
<td>Jordon Glass Machinery</td>
<td>131</td>
<td>800/833-2159</td>
<td>jordonglass.com</td>
</tr>
<tr>
<td>Advertiser</td>
<td>Page</td>
<td>Phone</td>
<td>Website or email address</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>------</td>
<td>------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Lattuada North America Inc.</td>
<td>63</td>
<td></td>
<td>lattuada-na.com</td>
</tr>
<tr>
<td>LGH</td>
<td>114</td>
<td></td>
<td>rentlgh.com</td>
</tr>
<tr>
<td>Liberty Glass &amp; Metal Industries</td>
<td>134</td>
<td>800/843-2031</td>
<td>lgminc.net</td>
</tr>
<tr>
<td>Lisec America</td>
<td>113</td>
<td></td>
<td>lisec.com</td>
</tr>
<tr>
<td>LiteSentry</td>
<td>102</td>
<td></td>
<td>glassquality.com</td>
</tr>
<tr>
<td>Magid</td>
<td>42-43</td>
<td>800/203-9540</td>
<td>magidglobe.com/glass-mag</td>
</tr>
<tr>
<td>Mappi America Inc.</td>
<td>29</td>
<td></td>
<td>mappi.it</td>
</tr>
<tr>
<td>McGrory Glass</td>
<td>122</td>
<td>856/579-3212</td>
<td>overstock.glass</td>
</tr>
<tr>
<td>McKeegan Equipment &amp; Supply</td>
<td>129</td>
<td>734/459-5870</td>
<td>mckeeganequip.com</td>
</tr>
<tr>
<td>Morse Architectural</td>
<td>106</td>
<td>800/325-7513</td>
<td>morsearchitectural.com</td>
</tr>
<tr>
<td>Mueller Technologies AG</td>
<td>130</td>
<td>905/427-3400</td>
<td>muller.ch</td>
</tr>
<tr>
<td>MyGlassClass</td>
<td>117</td>
<td>703/442-4890 ext. 161</td>
<td>myglassclass.com</td>
</tr>
<tr>
<td>MyGlassTruck</td>
<td>24</td>
<td>800/254-3643</td>
<td>myglasstruck.com</td>
</tr>
<tr>
<td>NGA Membership</td>
<td>24</td>
<td>703/442-4890 ext. 127</td>
<td>glass.org</td>
</tr>
<tr>
<td>North American Contractor Certification</td>
<td>39</td>
<td></td>
<td>nacprogram.com</td>
</tr>
<tr>
<td>Pilkington</td>
<td>27</td>
<td>800/221-0444</td>
<td>pilkington.com/na</td>
</tr>
<tr>
<td>Precision Glass Bending Corp.</td>
<td>11, 125</td>
<td>800/543-8796</td>
<td>e-bentglass.com</td>
</tr>
<tr>
<td>Quanex Building Products</td>
<td>1, 139</td>
<td></td>
<td>quanex.com</td>
</tr>
<tr>
<td>repurposedMATERIALS</td>
<td>132</td>
<td>303/321-1471</td>
<td>repurposedmaterialsinc.com</td>
</tr>
<tr>
<td>Riot Glass Inc.</td>
<td>109</td>
<td>800/580-2303</td>
<td>riotglass.com/dealer-signup/</td>
</tr>
<tr>
<td>Rockwell Security</td>
<td>124</td>
<td>510/270-5633</td>
<td>rockwellsecurityinc.com</td>
</tr>
<tr>
<td>Roto North America</td>
<td>19</td>
<td>800/243-0893</td>
<td>rotonorthamerica.com</td>
</tr>
<tr>
<td>Salem Fabrication Supplies</td>
<td>140</td>
<td>800/234-1982</td>
<td>salemftg.com</td>
</tr>
<tr>
<td>Schuco USA</td>
<td>25</td>
<td></td>
<td>schuco-usa.com/contact</td>
</tr>
<tr>
<td>Seclock</td>
<td>3</td>
<td>800/847-5625</td>
<td>seclock.com</td>
</tr>
<tr>
<td>SGC International Inc.</td>
<td>123</td>
<td>866/802-8682</td>
<td>sgc-usa.com</td>
</tr>
<tr>
<td>Sisecam</td>
<td>21</td>
<td></td>
<td>sisecam.com.tr/en</td>
</tr>
<tr>
<td>Skyreach Equipment</td>
<td>79</td>
<td>410/477-1473</td>
<td>skyreachequipment.com</td>
</tr>
<tr>
<td>SmartGroup America</td>
<td>99</td>
<td>877/742-6374</td>
<td>smartgroupamerica.com</td>
</tr>
<tr>
<td>Smartlift</td>
<td>121</td>
<td>402/215-8080</td>
<td>smartlift.com/us</td>
</tr>
<tr>
<td>Spil Software</td>
<td>103</td>
<td>646/916-5665</td>
<td>email: <a href="mailto:info@spilglass.com">info@spilglass.com</a></td>
</tr>
<tr>
<td>St. Cloud Window</td>
<td>14</td>
<td>800/383-9311</td>
<td>stcloudwindow.com</td>
</tr>
<tr>
<td>SWM International</td>
<td>101</td>
<td></td>
<td>swmintl.com</td>
</tr>
<tr>
<td>Top Notch Distributors</td>
<td>115</td>
<td>800/233-4210</td>
<td>topnotchinc.com</td>
</tr>
<tr>
<td>Tremco</td>
<td>98</td>
<td></td>
<td>tremcosanufacturers.com</td>
</tr>
<tr>
<td>Uneiko Corp.</td>
<td>97</td>
<td>800/528-3149</td>
<td>glasscareexperts.com</td>
</tr>
<tr>
<td>US Horizon Mfg.</td>
<td>112</td>
<td>877/728-3874</td>
<td>ushorizon.com</td>
</tr>
<tr>
<td>Vetrotech Saint-Gobain</td>
<td>37</td>
<td>888/803-9533</td>
<td>vetrotech.com</td>
</tr>
<tr>
<td>Viprotron GmbH</td>
<td>59</td>
<td>313/384-3855</td>
<td>viprotron.com</td>
</tr>
<tr>
<td>Viracon</td>
<td>5</td>
<td></td>
<td>viracon.com</td>
</tr>
<tr>
<td>Vitro Architectural Glass</td>
<td>47</td>
<td></td>
<td>vitroglazings.com/solarban</td>
</tr>
<tr>
<td>Walker Glass Co. Ltd.</td>
<td>83</td>
<td></td>
<td>walkerglass.com</td>
</tr>
<tr>
<td>Western States Glass</td>
<td>116</td>
<td>562/983-1374</td>
<td>email: <a href="mailto:sales@wsglass.com">sales@wsglass.com</a></td>
</tr>
<tr>
<td>Wood’s Powr-Grip</td>
<td>53</td>
<td></td>
<td>wpg.com</td>
</tr>
</tbody>
</table>
Companies from all parts of the glass and glazing industry have implemented innovative, out-of-the-box ideas to improve business from the ground up. Here’s an Idea showcases these sometimes small behind-the-scenes ideas that can make a big impact on a company’s bottom line. If you have an idea that you would like to share, contact Norah Dick, ndick@glass.org.

STARTING THE CONVERSATION ON MENTAL HEALTH IN CONSTRUCTION

Health is certainly an issue on everyone’s minds as we enter a different phase of the COVID-19 pandemic, but mental health remains a taboo topic for many, including those in the construction industry.

Speaking on mental health in the industry, Chris Gardner, president of the Independent Contractors and Businesses Association, based in British Columbia in Canada, shared insights with the audience at the Fenestration & Glazing Industry Alliance Virtual Annual Conference about the stakes of mental health and how to treat it. ICBA enrolls 125,000 people in its health and dental plans, which, along with a user survey, gives the organizations some insights on industry workers’ relationship to mental health.

Here are a few takeaways from the conversation, part of the presentation “Impacts of Mental Health and Substance Use in the Construction Industry.”

Why is mental health difficult to treat?
It may seem obvious, but mental health challenges can be invisible to those around a person. “When you have a physical injury, you can see it and people know what to do. The challenge with mental health is that we can’t see it, and what we can’t see is much harder to treat,” says Gardner.

Mental health issues also have a long history of stigmatization. “In the previous generation, people were ostracized, viewed as not fit, even institutionalized if they had mental health issues,” he says. “What people don’t understand or see creates fear, and that leads to people not being willing to come forward, because they’re afraid of the stigma they may face personally or professionally.”

Why do construction workers have worse rates of mental health?
Gardner cited the statistic during his presentation that the construction workforce experiences suicide rates five times the national average. He says part of the way to change that reality is to start a conversation about mental health, both as an industry generally, and with the people experiencing mental health challenges.

Gardner explains that while very rewarding, construction can be uniquely challenging, especially for those already experiencing a decline in mental health. “Construction is very project-driven, with deadlines that have to be met,” he says. “That puts a lot of stress and pressure on the workforce,” who may also be working remotely at times, not seeing family or friends for long stretches of time.

How can colleagues and employers help?
Gardner says it’s important to start a conversation with the colleague if they start exhibiting changes in behavior, such as being tired all the time, showing up late or producing work of worsening quality. The person may also become withdrawn, or even change in appearance. “The key is just being able to say, ‘I’ve noticed things aren’t right; let’s go talk to someone that can help,’ and then pointing them in the right direction,” he says. ICBA developed a program to address mental health that is designed to make these conversations easier, says Gardner, not to make project managers into health care workers.

Gardner explains that while very rewarding, construction can be uniquely challenging, especially for those already experiencing a decline in mental health. “Construction is very project-driven, with deadlines that have to be met,” he says. “That puts a lot of stress and pressure on the workforce,” who may also be working remotely at times, not seeing family or friends for long stretches of time.

How can colleagues and employers help?
Gardner says it’s important to start a conversation with the colleague if they start exhibiting changes in behavior, such as being tired all the time, showing up late or producing work of worsening quality. The person may also become withdrawn, or even change in appearance. “The key is just being able to say, ‘I’ve noticed things aren’t right; let’s go talk to someone that can help,’ and then pointing them in the right direction,” he says. ICBA developed a program to address mental health that is designed to make these conversations easier, says Gardner, not to make project managers into health care workers.

Gardner explains that while very rewarding, construction can be uniquely challenging, especially for those already experiencing a decline in mental health. “Construction is very project-driven, with deadlines that have to be met,” he says. “That puts a lot of stress and pressure on the workforce,” who may also be working remotely at times, not seeing family or friends for long stretches of time.

How can colleagues and employers help?
Gardner says it’s important to start a conversation with the colleague if they start exhibiting changes in behavior, such as being tired all the time, showing up late or producing work of worsening quality. The person may also become withdrawn, or even change in appearance. “The key is just being able to say, ‘I’ve noticed things aren’t right; let’s go talk to someone that can help,’ and then pointing them in the right direction,” he says. ICBA developed a program to address mental health that is designed to make these conversations easier, says Gardner, not to make project managers into health care workers.

Gardner explains that while very rewarding, construction can be uniquely challenging, especially for those already experiencing a decline in mental health. “Construction is very project-driven, with deadlines that have to be met,” he says. “That puts a lot of stress and pressure on the workforce,” who may also be working remotely at times, not seeing family or friends for long stretches of time.
Harness the power of Super Spacer® TriSeal™ and experience the highest condensation resistance for optimal thermal comfort. Super Spacer® TriSeal™ features a continuous vapor barrier backing across the profiled back of the spacer, and is engineered to accept both a butyl primary seal and a silicone secondary seal. Our extremely durable triple edge seal construction maximizes IG life and compensates for common glazing environmental stressors. With flexible designs and robust silicone construction, Super Spacer® TriSeal™ is designed to tackle the heaviest laminated glass in floor-to-ceiling and wall-to-wall applications.

Learn more at QUANEX.COM

GLOBALLY TESTED, AWARD-WINNING PERFORMANCE

See us at GlassBuild America, booth 7026.

A Part of Something Bigger™
TOOLING THAT IMPROVES PRODUCTIVITY

See it All at GlassBuild

Visit us at GlassBuild in BOOTH #5050 and see our full lines of high-quality tooling, supplies and material handling equipment that GO BEYOND THE EDGE

Contact Us Today for more information

800.234.1982
info@salemftg.com | www.SalemFTG.com