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THE MAGAZINE OF RECORD FOR ARCHITECTURAL GLASS INDUSTRY LEADERS

The Nation's TOP Contract Glaziers

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In the Clear

Transparency Helps Assure Successful Project Management



"Proactive project management drives collaboration, support and engagement among our employee-owners, which leads to successful project completion."

ransparency is a critical factor that drives successful project management. There are many reasons why we feel it's critical to insist on transparency and accountability on every project, especially when we consider our industry's current labor and materials challenges.

Transparency is defined as "the quality of being done without secrets." No surprises. In the realm of glazing and our unique processes, it means creating a project management system where every project team member can access all relevant information about a project quickly and easily.

We recently realized that our teams needed new strategies and shared systems to manage material delays and labor issues. If a project manager (PM) is promoted, transferred or terminated during a project's lifecycle, we have implemented processes so their projects continue smoothly. These processes enable PMs--even from different office locations if needed--to take the baton and carry the project forward. The steps we've established to maintain that continuity have helped us keep our relationships and build trust with internal and external business partners.

Step by Step

Over time, we have fine-tuned our process to include:

- Requiring each PM to have their project schedules updated, filed and maintained through the life of each project. Weekly and bi-weekly check-ins with project team leads (both internal and external) to update everyone about the project status, a timeline of required materials and the next steps.
- A procedure that includes standardized reporting and a centralized, paperless filing system for all project documents--on a shared drive--with checks and balances to ensure that procedures are being followed and necessary updates are made.
- Periodic status updates that include meetings with project team leads and summa-

ries into email groups that cover all project communications.

These steps help us see red flags early on, prevent job fades, and implement recovery plans when we identify issues. We use weekly material and labor tracking to get our schedules and budgets back on track.

Attention to Detail

We consider it crucial to have a documented project plan and a dedicated PM with experience across multiple disciplines. Their job is to manage the process, hold the team accountable, and use our standardized procedures and processes to ensure transparency on timelines, accurate data, the status of deliverables, potential risks, and mitigation plans. We know that proactive project management drives collaboration, support and engagement among our employee-owners, which leads to successful project completion.

Part of our process includes clearly defining roles and responsibilities, which enhances collaboration. It also improves customer satisfaction.

Our transparency methods also mitigate scope creep. Maintaining regular communication updates with clients and team members provides all stakeholders the access and visibility needed to identify and address problems.

It's rare for projects to be completed without disruptions that cause us to modify the original plan. While it's the project manager's role to identify those risks, they need the support of their entire team to implement the required plan adjustments.

Behind every one of our successful projects is a structure, a formulated checklist, copious amounts of coffee, and an organized project manager, if not several. Compelling project managers are the backbone of every project – making sure that we deliver projects on time and with excellence.

Nataline Lomedico is the president and CEO of Giroux Glass, headquartered in Los Angeles. The company has been in business since 1946.

USGlass Magazine's 2023 Listing of the Nation's Top 50 Contract Glaziers

ealthy backlogs, market and cost stability as well as supply chain improvements are just some reasons why contract glaziers are optimistic about the year ahead. 2022 was a solid, strong year for most of the nation's top contract glaziers. Many of the companies reporting for this year's **USG**lass magazine listing of the Top 50 contract glaziers continue to show sales increases, though there were a few notable dips.

Companies still have some concerns despite the positives. Not surprisingly, the biggest worry for the year ahead is a lack of skilled labor. Schedule delays, and overall concerns about the economy and a possible recession are also troubling.

As in years past, there was some fluctuation among the top five companies, including a new addition. Permasteelisa North America took the No. 1 spot with 2022 sales of \$403 million compared to \$295 million last year. This moved Harmon to No. 2 with sales of \$340.8 million, which is also what the company reported last year. Enclos remained in the No. 3 position, while Elicc bumped up from No. 5 to No. 4 with sales of \$247 million compared to

Permasteelisa NA

Mendota Heights, Minn. www.permasteelisagroup.com/america

President/CEO: Mike Kneeland Number of Employees: 490 Number of Locations: 5 Years in Business: 25 2022 Sales: \$403 million

Permasteelisa engineered and manufactured the facade of the John A. Paulson Center, a 23-story academic building for New York University that has three glass-clad towers rising from a podium spanning a full city block.

\$221.5 million. Reflection Window + Wall was the top five new addition, reporting sales of \$240 million.

There were also some ups and downs in sales across the entire list. Crown Corr moved into No. 6 from No. 8 with sales of \$203 million compared to \$170.7 million. Massesy's Plate Glass remained in 13th place, but saw sales jump from \$101 million to \$125 million. Another big mover was Seele. The company's U.S. operations jumped from No. 47 to No. 28 with sales of \$63.6 million compared to \$23.5 million.

The information in this section was provided to USGlass by the companies included here. Backlog is listed only when provided by the companies. Those companies marked with an * are estimated based on data and field reports from Key Media & Research.

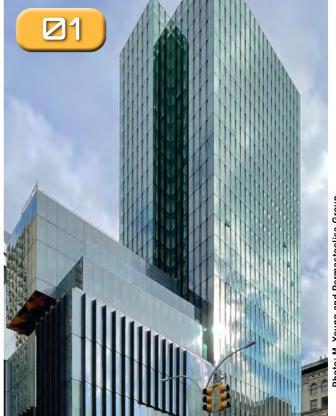


Photo: M. Young and Permasteelisa Group



Harmon Inc.

14% Other

Bloomington, Minn. www.harmoninc.com

President/CEO: Troy Johnson Number of Employees: 650 Number of Locations: 18 Years in Business: 73 2022 Sales: \$340.8 million 83% Commercial 3% Residential

Backlog Change: Increased 17%



Enclos Corp.*

Eagan, Minn. www.enclos.com

President/CEO: Steve Danke Number of Employees: 400 Number of Locations: 15 Years in Business: 77 2022 Sales: \$250 million 87% Commercial 8% Residential 5% Other



Reflection Window and Wall

Backlog Change: Increased 23%

Chicago, III.

www.reflectionwindow.com

Elicc Americas Corp.

www.eliccgroup.com

Years in Business: 8

100% Commercial

President/CEO: Yizeng li

Number of Employees: 123 Number of Locations: 2

2022 Sales: \$247.5 million

Powav. Calif.

President/CEO: Rodrigo d'Escoto Number of Employees: 170 Number of Locations: 12 Years in Business: 22 2022 Sales: \$240 million

20% Commercial 80% Residential

Backlog Change: Increased 100%



Crown Corr Inc.

Gary, Ind.

www.crowncorr.com

President/CEO: Dennis Pilkinton Number of Employees: 600 Number of Locations: 6 Years in Business: 62 2022 Sales: \$203 million 100% Commercial

Backlog Change: Increased 10%



W&W Glass LLC

Nanuet, N.Y.

www.wwglass.com

President/CEO: Mike, Jeff, Scott,

Howard Haber

Number of Employees: 200 Number of Locations: 1 Years in Business: 45 2022 Sales: \$200 million 100% Commercial

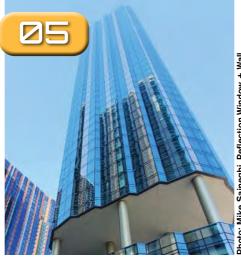
Backlog Change: Increased 30%



Enclos was responsible for the façade installation on the Gensler-designed Adobe North Tower in San Jose, Calif.



Elicc's work on 25 Christopher Columbus Dr. in Jersey, City, N.J., included unitized curtainwall with aluminum panels; unitized GFRC panels; and unitized thin-brick curtainwall panels.



Reflection Window + Wall has been involved in a number of projects in the Chicago area including the Cirrus (right) and Cascade towers that are part of the Lakeshore East development.

Building a Milestone: Permasteelisa Group Celebrates 50 Years

he Permasteelisa Group had already been operating for 26 years when it took on its first U.S. projects in 1999. One was 10 St. James Street in Boston; the other was the Walt Disney Concert Hall in Los Angeles. Since then, the Italian façade contractor has worked on many complex and unique projects worldwide. It is consistently ranked in the top five of **USG**lass magazine's annual listing of

company, while Permasteelisa has had an international focus since early on, its work remained mainly in Europe and Asia for many years.

"It was only in the late 1990s that the group arrived in the United States, the birthplace of skyscrapers," says the company information.

Today, Permasteelisa is a global industrial group with three brands, 30 companies and six production

Photo: shuttersty Shutterstock.com

The Walt Disney Concert Hall in L.A. was one of Permasteelisa's first U.S. projects. It was designed by Frank Gehry.

the nation's top contract glaziers and took the No. 1 spot this year (turn to page 36 to read more). That gives Permasteelisa at least two things to celebrate, as this year also marks its 50th anniversary.

Permsateelisa's roots date back to 1973 with the founding of I.S.A., an aluminum window company based in Treviso, Italy, now home to the Group's headquarters. Shortly after its debut, I.S.A. turned to curtainwall with the acquisition of Permasteel, the Australian company that clad the Sydney Opera House. The company expanded globally with other acquisitions, including the Dutch Scheldebouw B.V. and Gartner in Germany.

According to information from the

plants in 20 countries. Some of its major projects worldwide include Hong Kong's tallest building, the International Commerce Center; Beekman Tower, the Guggenheim Museum and MoMA in New York; and the Walt Disney Concert Hall in Los Angeles, among others. The company has more than 60 projects underway, including Google offices in London and the U.S.

According to the company, Permasteelisa was born "with an engineering mindset: insightful understanding is etched in our DNA. Variants and variables are our everyday thrill: they are embedded in the unique diversity that sets our group and people apart. That's where our flair for solutions that

A special anniversary logo features a broken line unfolding upwards to represent a building under construction while knowledge and ideas keep evolving.



bridge people, buildings and cities towards the future comes from."

The statement continues, "Our technical expertise has always enabled us to successfully tackle the most complex and challenging projects around the world. In recent years, our selective strategy has focused on highly complex and challenging projects in markets where our customers appreciate and value the advanced and distinctive solutions that differentiate us from our competitors."

The global glazing industry will face both challenges and opportunities in the years ahead.

"In the next ten years, 70 percent of the world's population will live in cities, putting sustainable development and other global challenges, including climate change, at the center," says the company statement. "Building while reducing the carbon footprint is paramount, and we are already on the right track. Many aging buildings contain sound structures and can be rehabilitated for different uses or use by future generations. Creative and efficient solutions for recladding existing buildings could be a massive opportunity for the facade industry."

After 50 years in business, what's next for Permasteelisa? "We constantly keep clients at the heart of our practice, providing pragmatic and tailored solutions, as well as guaranteeing soundness and reliability towards governments, universities, media, financial institutions and shareholders. but also towards our brands, employees and local communities," says the statement. "We always strive for the extra mile: our commitment is to go big, to make our people proud. The responsibility we feel on our shoulders is to leave a mark and improve societv. This is where we want to be in the next 50 years: in a better society we have helped build."



Walters & Wolf*

Fremont, Calif. www.waltersandwolf.com

President/CEO: Randy Wolf Years in Business: 43 2022 Sales: \$200 million 100% Commercial



Benson Industries*

Portland, Ore.

www.bensonglobal.com

President/CEO: Lance Howard Number of Employees: 500 Number of Locations: 9 Years in Business: 97 2022 Sales: \$200 million 100% Commercial



Binswanger Glass

Memphis, Tenn.

www.binswangerglass.com

President/CEO: Blake Hancock Number of Employees: 610 Number of Locations: 45 Years in Business: 151 2022 Sales: \$171 million

80% Commercial 20% Residential

11

Flynn Group of Companies

Toronto, Ont. www.flynncompanies.com

President/CEO: Doug Flynn Years in Business: 44 2022 Sales: \$150 million 100% Commercial



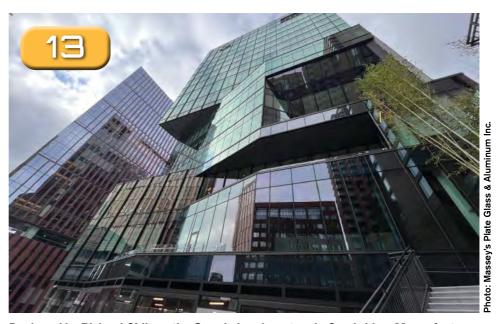
Architectural Glass & Aluminum*

Livermore, Calif. www.aga-ca.com

President/CEO: John Buckley Number of Employees: 250 Number of Locations: 4 Years in Business: 51 2022 Sales: \$150 million



Binswanger Glass installed the storefront entrance and aluminum curtainwall system for the Tilman J. Fertitta Family College of Medicine at the University of Houston.



Designed by Pickard Chilton, the Google headquarters in Cambridge, Mass., features glass and glazing systems installed by Massey's Plate Glass & Aluminum Inc.

13

Massey's Plate Glass & Aluminum Inc.

Branford, Conn.

www.masseysglass.com

President/CEO: Bob Massey Jr. Number of Employees: 225 Number of Locations: 3 Years in Business: 50 2022 Sales: \$125 million

100% Commercial

Backlog Change: Increased 11%

14

Ventana DBS LLC

Chicago, III. www.ventana.vc

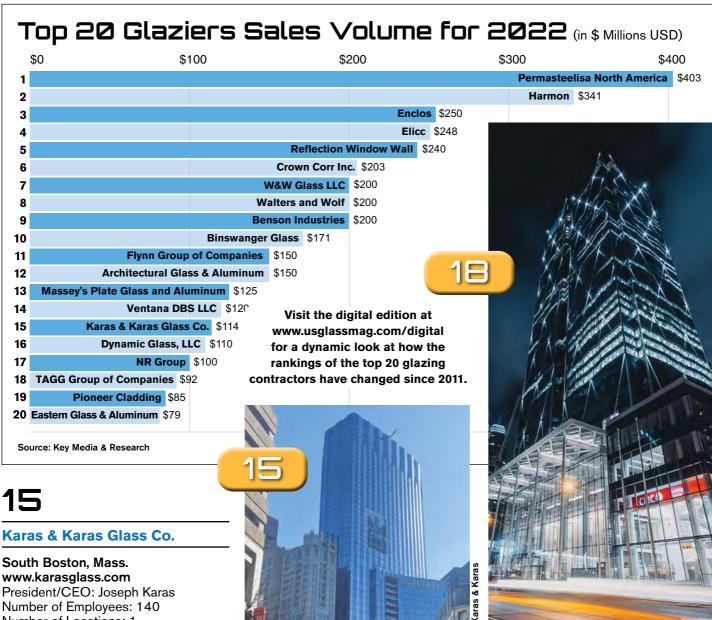
President/CEO: Robert Trainor

Number of Employees: 31 Number of Locations: 5 Years in Business: 9

2022 Sales: \$120 million 70% Commercial

20% Residential 10% Other

Backlog Change: Increased 38%



15

South Boston, Mass.

Number of Locations: 1 Years in Business: 99 2022 Sales: \$114 million 70% Commercial 30% Residential

Dynamic Glass

Houston, Texas

www.dynamicglass.com President/CEO: Tom Gilligan Number of Employees: 390 Number of Locations: 4 Years in Business: 32 2022 Sales: \$110 million 40% Commercial

60% Other

Backlog Change: Increased 30%

The Winthrop Square Tower in Boston spans 700 feet tall, showcasing the glazing work of Karas & Karas.

81 Bay St. in Toronto was a \$38 million project for TAGG, which it completed with EllisDon as the general contractor and Hines as the Developer.

373 .		Changes
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2022		2023	
1	Harmon	Permasteelisa North America	
2	Permasteelisa North America	Harmon	
3	Enclos	Enclos	
4	Walters &Wolf	Elicc	
5	Elicc	Reflection Window + Wall	

17

NR GROUP

West Palm Beach, Fla. www.nrwindows.com

President/CEO: Noshad Ali Number of Employees: 200 Number of Locations: 2 Years in Business: 33 2022 Sales: \$100 million 40% Commercial

40% Commercia 40% Residential 20% Other

Backlog Change: Increased 30%

18

TAGG Group of Companies

Toronto and Los Angeles www.taggind.com

President/CEO: Stephen Dulong Number of Employees: 240 Number of Locations: 4 Years in Business: 36 2022 Sales: \$92 million 82% Commercial 18% Other

Backlog Change: Increased 9%

19

Pioneer Cladding and Glazing Systems Inc.

Mason, Ohio

www.pioneerglazing.com President/CEO: Paul Robinson Number of Employees: 220 Number of Locations: 6 Years in Business: 23

Years in Business: 23 2022 Sales: \$85 million 90% Commercial

10% Other

Backlog Change: Increased 16%



Eastern Glass & Aluminum

Norcross, Ga.

www.buildega.com/ega/ President/CEO: Peter Kim Number of Employees: 125

Number of Locations: 3 Years in Business: 26 2022 Sales: \$79 million 100% Commercial

Backlog Change: Increased 42%

21

GM&P Consulting and Glazing Contractors Inc.

Miami, Fla.

www.gmpglazing.com

President/CEO: Giovanni Monti Number of Employees: 65 Number of Locations: 2 Years in Business: 12 2022 Sales: \$78.4 million

65% Commercial 35% Residential

Backlog Change: Increased 27%

22

Synergi LLC

Elkridge, Md. www.synergillc.com

President/CEO: Jim Admiraal Number of Employees: 102 Number of Locations: 5 Years in Business: 36 2022 Sales: \$75.5 million 100% Commercial

Backlog Change: Increased 30%

23

Kovach Enclosure Systems

Chandler, Ariz. www.kovach.net

President/CEO: Brad Wright Number of Employees: 207 Number of Locations: 1 Years in Business: 54 2022 Sales: \$75 million 90% Commercial 10% Residential

Backlog Change: Increased 50%

24

SPS Corp.

Apex, N.C.

www.spscorporation.com

President/CEO: Michael J. Russo Number of Employees: 90 Number of Locations: 2 Years in Business: 41 2022 Sales: \$72 million 70% Commercial 10% Residential

10% Residential 20% Other

Backlog Change: Increased 27%



In collaboration with OTJ Architects and HITT Contracting, Synergi designed, built and installed two feature stairs, along with glass guardrails and handrails, for the Washington, D.C., headquarters of Enviva.



100 Mill located in Tempe, Ariz., features glazing products installed by Kovach.

25

Integro Building Systems Inc.

Vaughan, Ont.

www.integrobuild.com President/CEO: James Wilson

Number of Employees: 150 Number of Locations: 2 Years in Business: 8 2022 Sales: \$70 million 75% Commercial 25% Residential

Momentum Glass

Spring, Texas

www.momentum-glass.com

President/CEO: Omar Maalouf Number of Employees: 240 Number of Locations: 4 Years in Business: 11 2022 Sales: \$65.3 million

80% Commercial 10% Residential 10% Other

Backlog Change: Increased 30%



Above All Store Fronts

Hauppauge, N.Y. www.aboveallstorefronts.com

President/CEO: John Cashel Number of Employees: 185 Number of Locations: 3 Years in Business: 30 2022 Sales: \$65 million 100% Commercial

Backlog Change: Increased 50%



Above All Store Fronts completed the glazing installation on a Carvana in Garden City, N.Y.

28

Seele Inc.

Long Island City, N.Y. www.seele.com

President/CEO: Andreas Hafner Number of Employees: 25 Number of Locations: 1 Years in Business: 21 2022 Sales: \$63.6 million 99% Commercial

1% Residential

Backlog Change: Increased 21%



Roschmann Steel & Glass Constructions Inc.

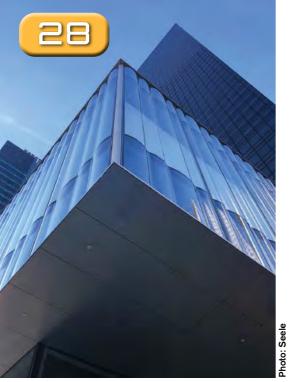
New Haven, Conn. www.roschmann.group/en/

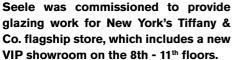
President/CEO: Dirk Schulte Number of Employees: 300 Number of Locations: 4 Years in Business: 71 2022 Sales: \$54 million 90% Commercial

10% Residential

Backlog Change: Increased 10%









The Arkansas Museum of Fine Arts is undergoing an expansive renovation led by design architect Studio Gang with Roschmann Steel and Glass handling the façade.

30

Giroux Glass Inc.

Los Angeles, Calif. www.girouxglass.com

President/CEO: Nataline Lomedico Number of Employees: 230 Number of Locations: 6 Years in Business: 76 2022 Sales: \$52.4 million 80% Commercial

20% Residential

Backlog Change: Increased 60%

31

Best Contracting*

Gardena, Calif. www.bestcontracting.com

President/CEO: Sean Tiaba Number of Employees: 300 Number of Locations: 2 2022 Sales: \$50 million

32

Alliance Glazing Technologies*

Romeoville, III. www.allianceglazing.com

President/CEO: Brian Filipiak Years in Business: 30 2022 Sales: \$50 million 100% Commercial

33

RankerAMG*

Sacramento, Calif. www.rankeramg.com

President/CEO: Dave Ranker Number of Employees: 150 Number of Locations: 2 Years in Business: 17 2022 Sales: \$50 million 100% Commercial

34

Granite State Glass

Gilford, N.H.

www.granitestateglass.com

President/CEO: William Marcotte Number of Employees: 240 Number of Locations: 15 Years in Business: 40 2022 Sales: \$48 million 35% Commercial 45% Residential

20% Other

35

Glass Solutions Inc.

Itasca, III. www.gsichicago.com

President/CEO: Jon Norris Number of Employees: 125 Number of Locations: 1 Years in Business: 24 2022 Sales: \$44 million 100% Commercial

Backlog Change: Increased 30%

Move Makers continued from page 43



Ranger Specialized Glass was the glazing contractor on the recently completed Hanover—Site A, Autry Park project in Houston.



The Charter Communications Headquarters in Stamford, Conn., features glazing work from Cherry Hill Glass.



Haley-Greer recently worked with general contractor EE Reed Construction on the Domain II project in Austin, Texas.

36

Ranger Specialized Glass Inc.

Houston, Texas www.rangerglass.com

President/CEO: Robert Malone Number of Employees: 140 Number of Locations: 3 Years in Business: 40 2022 Sales: \$40.5 million 99% Commercial 1% Other

3

Cherry Hill Glass Co. Inc

Branford, Conn. www.cherryhillglass.com

President/CEO: Kevin O'Neill
Number of Employees: 150
Number of Locations: 1
Years in Business: 31
2022 Sales: \$40 million
50% Commercial
50% Residential

Backlog Change: Decreased 30%

3E

Haley Greer Inc.

Dallas, Texas www.haleygreer.com

President/CEO: Letitia Haley Barker

Number of Employees: 120 Number of Locations: 2 Years in Business: 44 2022 Sales: \$40 million 100% Commercial

Backlog Change: Increased 25%



Ajay Glass Co.

Canandaigua, NY www.ajayglass.net

President/CEO: Steve Stathopoulos; President/Demetrios Stathopoulos, CEO

Number of Employees: 140 Number of Locations: 3 Years in Business: 64 2022 Sales: \$39 million 100% Commercial



80 M Street in Washington, D.C., is a mass timber project that includes a three-story addition TSI completed with Erie Architectural.

Top 5 Companies by Number of Locations

Binswanger	45
Harmon	18
Enclos	15
Granite State Glass	15
Reflection Window + Wall	12

Top 5 Companies by Number of Employees

Harmon	650
Binswanger	610
Crown Corr	600
Benson	500
Permasteelisa	490

40

Kensington Glass Arts Inc.

ljamsville, Md.

www.kensingtonglass.com

President/CEO: John Reichlin Number of Employees: 189 Number of Locations: 5 Years in Business: 47 2022 Sales: \$35.6 million

98% Commercial 1% Residential 1% Other

Backlog Change: Increased 12%

41

TSI Corporations

Upper Marlboro, Md. www.tsicorporations.com

President/CEO: Thomas Cornellier Number of Employees: 91 Number of Locations: 1 Years in Business: 45 2022 Sales: \$32 million

40% Commercial 55% Residential

5% Other

Backlog Change: Decreased 48%

42

Alexander Metals Inc.

Nashville, Tenn.

www. a lexander metal sinc.com

President/CEO: Alec T. Estes Number of Employees: 55 Number of Locations: 1 Years in Business: 30 2022 Sales: \$31 million 100% Commercial

Backlog Change: Increased 20%

43

ACME Glass*

Orlando, Fla.

www.acmeglassorlando.com

President/CEO: Walter Basso, Jr. Number of Employees: 160 Number of Locations: 3 Years in Business: 115 2022 Sales: \$30 million 44

C/S Erectors*

San Ramon, Calif.

President/CEO: Mike Carvin Number of Employees: 60 Number of Locations: 1 Years in Business: 36 2022 Sales: \$30 million 100% Commercial



Architectural Wall Systems*

Des Moines, Iowa www.archwall.com

President/CEO: Adam Boeckmann

Number of Employees: 90 Number of Locations: 2 Years in Business: 32 2022 Sales: \$30 million 100% Commercial



Gateway Glazing provided preglazed windows, slab covers, curtainwall and storefront doors for 318 Carpenter in Chicago.



Gateway Glazing Inc.

Saint Charles, III.

www.gatewayglazinginc.com President/CEO: Dan Davidson Number of Employees: 65 Number of Locations: 1 Years in Business: 32

Years in Business: 32 2022 Sales: \$26.5 million 70% Commercial

20% Residential 10% Other

Backlog Change: Increased 50%



Performance Contracting Inc.

(PCI-Metro; formerly Metropolitan Glass) Denver, Colo.

www.performancecontracting.com

President/CEO: Jason Hendricks Number of Employees: 90

Number of Locations: 1 Years in Business: 36 2022 Sales: \$25 million

65% Commercial 30% Residential

5% Other

48

Mission Glass

Tumwater, Wash. www.mission-glass.com

President/CEO: Jeff & Jamie Nickel Number of Employees: 100

Number of Locations: 1 Years in Business: 15 2022 Sales: \$24.2 million 100% Commercial

Backlog Change: Increased 10%

49

Egan Company/InterClad

Champlin, Minn. www.eganco.com

President/CEO: James Ford Number of Employees: 50 Number of Locations: 1 Years in Business: 25 2022 Sales: \$23 million 55% Commercial 15% Residential 30% Other

Backlog Change: Decreased 10%



50

Miller Glass and Glazing Inc.

Pompano Beach, Fla. www.millerglass.biz

President/CEO: Sidney S Miller Number of Employees: 110 Number of Locations: 1 Years in Business: 27 2022 Sales: \$22 million 100% Commercial:

Backlog Change: Decreased 23%



In phase two of the Larking project in Minneapolis, the Egan InterClad team installed more than 64,000 square feet of metal composite panels, including 12,000 square feet of metal flashings and 83,000 linear feet of subgirt.



For the Climate Pledge Arena in Seattle, Mission Glass and Glazing installed custom Kawneer 2500UT curtainwall chassis with 26-foot tall IGUs from AGNORA.

Annual Sales (billions of \$)		
2011	\$1.5	
2012	\$1.8	
2013	\$1.9	
	4	

Ton 40 Total

φ1.5
\$1.8
\$1.9
\$2.3
\$3.0
\$3.4
\$3.6
\$4.0
\$4.2
\$3.9
\$4.5

\$4.7

Source: Key Media & Research

2022

Top 20 Total Annual Sales

(billions of \$)

2011	\$1.2
2012	\$1.5
2013	\$1.5
2014	\$2.0
2015	\$2.5
2016	\$3.0
2017	\$2.8
2018	\$3.1
2019	\$3.2
2020	\$2.9
2021	\$3.3
2022	\$3.6

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