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Insights

- **CHAIR'S INSIGHTS** A message from NPCA Chair of the Board Joel Sheets
- **08** INDUSTRY INSIGHTS Outlook Remains One of Minimal Growth
- **GOVERNMENT INSIGHTS** Ways to Address the Worker Shortage

Tech Speak

- QUESTIONS FROM THE FIELD
- THE EVOLUTION OF CEMENTS IN PRECAST MANUFACTURING
- Z4 TESTING FRESH CONCRETE
- 28 TYPICAL TOLERANCES FOR PRECAST CONCRETE

Management

34 LONG-TERM EMPLOYEES: **DEALING WITH CHANGE**

Safety

38 COMMON OSHA VIOLATIONS

Project Spotlight

42 PRECAST TAKES FLIGHT AT THE **ORLANDO AIRPORT**

News & Resources

- **INDUSTRY NEWS: WORKING FOR YOU**
- PEOPLE & PRODUCTS
- NPCA CALENDAR OF EVENTS
- NPCA BUYER'S GUIDE

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Chair's Insights

A MESSAGE FROM NPCA CHAIR JOEL SHEETS



Joel Sheets NPCA Chair of the Board

My fellow NPCA members,

I hope you had a fantastic summer and that production continues strong into the fall. Infrastructure projects across the United States and throughout the world are choosing precast concrete for its resiliency, sustainability and ease of installation. It is great for our industry and our association.

NPCA continues to work with city, state and federal offices to promote precast concrete for these projects. The work that NPCA members do in producing best-in-class products goes a long way toward establishing our industry as the No. 1 choice for building.

As we continue into the second half of 2023, I want to share that the Board continues its search for a new president and CEO. Fred Grubbe submitted his resignation in May to pursue another opportunity, and his last day at the Carmel, Ind., offices was in early August.

The Board and our members thank Fred for his leadership and hard work over the past three years. His dedication to advancing NPCA and the industry is appreciated.

A search team is working with a consultant to find and hire Fred's successor. That process is

Transitions such as this can be daunting, but the Board is confident that the association's business will continue without interruption and that the process will lead us to the next leader of our great organization.

I look forward to seeing many of you at the 58th Annual Convention in Oklahoma City. We once again have an incredible lineup of education and events to share this season. Thank you to our Associate members who sponsor and exhibit at convention, making all of these opportunities available.







By Tom Rodak

Each quarter, NPCA Vice President of Marketing and Communications Tom Rodak takes a look at where the precast concrete industry is and where indicators show it is headed. The first half of 2023 presented a number of challenges to the U.S. economy. Aggressive interest rate increases, stubborn inflation, tighter lending standards and general uncertainty have weighed heavily on economic growth.

Mercifully, neither recent bank failures nor a potential debt ceiling standoff exacerbated the situation.

Although headwinds are expected to persist over the coming quarters, the labor market and consumer spending remain strong. This could, ultimately, help the economy to avoid recession.

Looking at the construction sector, nonresidential starts are expected to maintain momentum in 2023's second half, driven by largescale



infrastructure investments and manufacturing-related construction projects.

According to Dodge Construction Network's Mid-Year 2023
Construction Outlook, nonbuilding/infrastructure construction will increase 17% in 2023 to \$295 billion as both sides of the market make gains. Public works will grow 18% to \$232 billion, and power/utilities will expand 15% to \$62.8 billion.

"Private manufacturing construction soared 8.7% from \$173.84 billion in March to a record \$188.96 billion in April," said Chad Moutray, the National Association of Manufacturers (NAM) chief economist. "Private construction in the sector has trended significantly higher since bottoming out at \$72.46 billion in February 2021. Over the past 12 months, activity has risen by a whopping 104.6%. This data speaks to the very sizable investments being made in the manufacturing sector, with firms strongly expanding their capacity to meet their long-term objectives. This should bode well for future growth in manufacturing in the U.S. moving forward."

Investment in U.S.-based manufacturing facilities continues to be largely driven by legislation. The

Nonresidential construction starts are up



in the private sector between March and April 2023.

Public works projects are expected to grow



to \$232 billion in 2023.

Nonresidential construction starts continue to be strong.

CHIPS Act supports an increase in the number of semiconductor plants within the United States while the Inflation Reduction Act of 2022 provides funding to improve supply chains and bolster new investment in domestic manufacturing. Given this legislation, manufacturing construction starts are expected to remain well above historic norms this year.

A shift already may be starting in the residential markets. In May, U.S. housing starts surged more than at any time since 2016, and building permits increased, suggesting residential construction is on track to help drive economic growth.

According to NAM, new residential construction activity soared 21.7% to 1.6 million units at the annual rate in May, a 13-month high. Single-family housing starts jumped 18.5% to 997,000 units, a reading not seen since June 2022, and multifamily housing activity rose 27.1% to 634,000 units, a 14-month high.

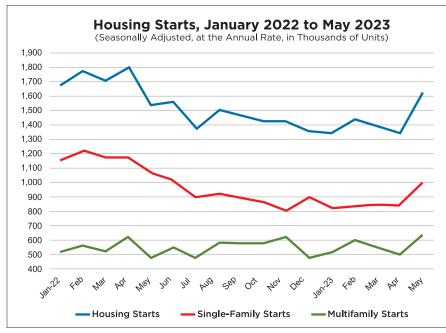
Construction facilities continue to add jobs throughout 2023.

Overall, new housing starts have increased 5.7% since May 2022. The reading suggests

the housing market is stabilizing after a loss of momentum that started early last year, prompted by elevated mortgage rates, high prices and tighter lending.

Despite economic challenges, contractors continue to add jobs at a healthy pace. However, lack of workforce continues to push wages up and, ultimately, force construction costs higher. Higher material costs and availability will remain a drag on the sector.

Although there is marginal growth at the macro level, this reflects substantial ups and downs in individual sectors. Precast concrete manufacturers that can shift production to growth segments will better manage through this period of economic uncertainty.



Source: National Association of Manufacturers







By Barbara Burchett

Barbara Burchett is co-principal of Innovative Advocacy, which works with NPCA to advance the interests of the precast concrete industry in Washington, D.C. The United States is wrestling with an economic conundrum as there are far too many jobs available without people to fill them

Several industry sectors have more unfilled jobs today than at any other time since the post-World War II era, leaving some businesses without the capacity to grow and thrive. This labor or "workforce" shortage is unevenly distributed with some states experiencing more extreme worker shortages than others.

So the question is: What can Congress and state governments do to address the issue?

To be clear, there are sectors of the economy with a surfeit of workers. However, in manufacturing, there are more unfilled job openings than unemployed workers with experience. This translates to less productivity.

How did industry find itself in this predicament? During the early part of the 21st century, industrial productivity already showed lackluster productive growth. Then the COVID-19 pandemic intensified the decline when businesses were shuttered and workers were



forced to stay at home, causing them to fall behind in gaining the necessary skills for jobs of the future.

To get the U.S. economic engine humming, one solution is to empower workers with the necessary competencies to fill open jobs. This process requires investment, time and, most importantly, a different approach to worker education, one that focuses on developing worker skills rather than credentials and degrees.

Deploying this approach would help U.S. employers expand their talent pools by sourcing non-traditional workers, retain strong workers and build and sustain a more inclusive workforce.

NPCA and its member companies have adopted such an approach by eliminating degree or credential requirements and by reaching out to high schools, community colleges, universities and veterans organizations to offer company-based training during onboarding. The NPCA Foundation funds grants at five U.S. universities to develop course curriculum to educate students in precast concrete manufacturing in addition to scholarships and internships to cultivate candidates who can advance in this industry and enjoy long-term employment.

THE GOVERNMENT'S ROLE

The federal government also has tools to help the manufacturing industry sector gain a better pool of workers by:

- Pivoting away from only focusing on vocational training and apprenticeships.
- Incentivizing skills-based programs for students.
- Increasing the number of H1B Visas, which currently are capped at 80,000 nationwide.
- Modifying the H1B Visa program to enable visas that aren't being used in one sector to be used by another.
- Providing immigration reform to attract new
- Promoting second-chance hiring.
- Enacting policies that incentivize work by expanding access to affordable childcare.

Policies already in place that require reauthorization and other ideas to advance these issues include:

- Enhanced funding for career and technical education through a reauthorization of the Perkins Act, the primary federal funding source for high school, college and university grant programs that prepare teens, adults and immigrants for jobs. Congress passed the latest version of the Perkins Act in July 2018.
- Improved workforce recruitment and retention through a reauthorization of the Workforce Innovation and Opportunity Act, which is the primary federal legislation to bring about increased coordination among federal workforce development and related programs.
- Exploring options for developing a comprehensive system with innovative, customized approaches to recruit employees, including military personnel before their discharge from active service.
- Incentivizing career and technical education in lieu of "college for all" in future workforce legislation.
- Deploying a federal database to serve as a "matchmaking" website for hiring companies and job seekers.

In manufacturing, there are more unfilled job openings than unemployed workers with experience.

This translates to less productivity.

Recent congressional meetings between NPCA and federal legislators (more on Page 66) demonstrate the need to establish effective and ongoing programs to develop and maintain a relationship with Congress and state legislatures to communicate constituent needs.

Government can be a resource, but policymakers need input. Building a constituent relationship through a continuous government affairs effort is



Questions from the Field

QUESTIONS FROM THE FIELD IS A SELECTION OF QUESTIONS NPCA TECHNICAL SERVICES ENGINEERS RECEIVED FROM CALLS, EMAILS, PLANT EVALUATIONS AND COMMENTS ON BLOG POSTS OR MAGAZINE ARTICLES POSTED TO PRECAST.ORG.

If you have a technical question, contact us by calling (800) 366-7731 or visit Precast.org/ask

CHARLIE ASKS:

HOW WIDE DOES A CRACK NEED TO BE IN REINFORCED CONCRETE TO CAUSE CONCERN?

NPCA TECHNICAL EXPERTS ANSWER:

Some engineers, precast suppliers and customers believe that all cracks are bad. Aesthetically speaking, cracks may not be easy on the eyes. However, there are established guidelines to determine which cracks are not a concern for repair.

As a matter of fact, a lot of concrete needs to crack for stresses to transfer from the concrete to the reinforcing. These cracks are small and self-heal over time. So not all cracks are bad.

In ACI-224, "Control of Cracking in Concrete Structures," there is a table (4.1) that serves as a good starting point to determine if a crack is a cause for concern.

It is important to note: These are general guidelines.

Table 4.1 - Guide to reasonable* crack widths, reinforced concrete under service loads

| | Crack width | |
|---|-------------|------|
| EXPOSURE CONDITION | in. | mm |
| Dry air or protective membrane | 0.016 | 0.41 |
| Humidity, moist air, soil | 0.012 | 0.30 |
| Deicing chemicals | 0.007 | 0.18 |
| Seawater and seawater spray, wetting and drying | 0.006 | 0.15 |
| Water-retaining structures [†] | 0.004 | 0.10 |

^{*}It should be noted that a portion of the cracks in the structure will exceed these values. With time, a significant portion can exceed these values. These are general guidelines for design to be used in conjunction with sound engineering judgment. †Excluding non-pressure pipes.

JERRY ASKS:

I AM IN QUALITY
CONTROL AT AN NPCACERTIFIED PLANT, AND
I AM AWARE THAT WE
HAVE REQUIREMENTS
FOR RETAINING PRODUCT
INSPECTION AND OTHER
DOCUMENTATION FOR AUDITOR
REVIEW DURING THE UNANNOUNCED
ANNUAL PLANT INSPECTION. WHAT
OPTIONS DO WE HAVE FOR RETAINING
RECORDS? IS THERE A SPECIFIC
FORMAT FOR THESE? DOES IT MATTER

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FORMAT FOR THESE? DOES IT MATTER
HOW WE KEEP THESE RECORDS AND DOCUMENTS?

NPCA TECHNICAL EXPERTS ANSWER:

NPCA certified plants are required to hold inspection records and other such documents for a minimum period of three years. However, the program does not stipulate how the plant retains this information. Plants are free to keep this information in hard copy, electronic form or any combination thereof.

In addition, plants are encouraged to participate in continuous improvement (Section 1.1.4) and to upload certain documents as stated in Section 1.1.4.1 and Part 2.5 of the Plant Terms and Conditions of the NPCA Quality Control Manual for Precast Concrete Plants. NPCA provides a Certified Plant Information portal (myNPCA) for this purpose.

For more information on continuous improvement or the myNPCA portal, contact NPCA Director of Certification Programs Phillip Cutler, P.E., at pcutler@precast.org or (800) 366-7731.



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The Evolution of Cements

IN PRECAST CONCRETE MANUFACTURING



By Claude Goguen, P.E.

Claude Goguen, P.E., is the director of outreach and technical education at NPCA.





The invention of portland cement in the 1800s ushered in an era for concrete to become the most used construction material in the world.

Portland cement seems to have everything going for it:

- Abundance of raw materials.
- Easily manufactured at a relatively low cost.
- ▶ Can be used to make a good, quality, durable binder.

But scientists continue to strive to make an even better cement with less environmental impact and increased durability. As a result, the industry now has an array of potential supplementary cementitious materials for use in blends with portland cement or as alterntive cements for use as standalone products.

These products are manufactured in a variety of locations and have a variety of construction and curing needs across a spectrum of very similar to very different from portland cement.

The question is: Can these cements work for precast concrete?

WHY THE NEED TO CONSIDER OTHER CEMENTS?

The essence of continuous improvement is to never accept the status quo as the final destination. There always is room for improvement on materials and processes used in manufacturing precast concrete.

At first glance, many new cements, admixtures, reinforcement and plant equipment may not seem like a good fit, but they at least merit review.

Are there cementitious blends or portland cement alternatives manufacturers should consider? It comes down to project goals.

What situations justify the contemplation of different cement blends?

- ▶ Enhanced durability that could extend a product's life cycle.
- Shorter setting times that could increase productivity.
- Lower embodied carbon that could improve a product's sustainability and meet requirements of emerging low-carbon related regulations.

Some cements could be seamlessly incorporated into precast concrete production, requiring only mix design modifications. Some cements require a different curing system. Others require an entirely new batch plant.

The order in which they are presented below reflects the difficulty in incorporating such a cement in a precast plant, from fairly simple to complex.

BLENDED HYDRAULIC CEMENTS

The concrete used in precast manufacturing can contain just one hydraulic cement – or a blend of hydraulic cements and supplementary cementitious material (SCM). That blending can occur at the mixer by adding the binder materials individually, or the blending can be done by the cement supplier.

The latter process often results in a blended cement governed by ASTM C595 (AASHTO M240) or ASTM 1157.

| HYDRAULIC CEMENTS | | | | | |
|---|--|-----------|---|--|--|
| | | ı | General use | | |
| ASTM C150 - Standard Specification for Portland Cement | | IA | General use with air-entrainment | | |
| | | II | Moderate sulfate resistance | | |
| | Most used with ten types of portland cement types | IIA | Moderate sulfate resistance with air-entrainment | | |
| | | II(MH) | Moderate sulfate resistance and moderate heat of hydration | | |
| | | II(MH)A | Moderate sulfate resistance with air-entrainment and moderate heat of hydration | | |
| | | III | High early strength | | |
| | | IIIA | High early strength with air- entrainment | | |
| | | IV | Low heat of hydration | | |
| | | V | High sulfate resistance | | |
| ASTM C595 - Standard Specification for Blended Hydraulic Cements | | IS | Portland blast-furnace slag cement | | |
| | For pre-blended portland cements. | IP | Portland-pozzolan cement | | |
| | Four types | IL | Portland-limestone cement | | |
| | | ΙΤ | Ternary blended cement | | |
| | Head when | GU | General construction | | |
| ASTM C1157 – Standard Performance Specification for Hydraulic Cement | Used when performance criteria alone are allowed to dictate the products and their acceptance. Six main types. | HE | High early strength | | |
| | | MS | Moderate sulfate resistance | | |
| | | HS | High sulfate resistance | | |
| | | MH | Moderate heat of hydration | | |
| | | LH | Low heat of hydration | | |
| SUPPLEMENTARY CEMENTITIOUS | MATERIALS | | | | |
| ASTM C618 - Standard | For fly ash and natural pozzolans. 3 main classes | Class N | Raw or calcined natural pozzolans | | |
| Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete | | Class F | Coal ash with pozzolanic properties | | |
| | | Class C | Coal ash with pozzolanic properties and some cementitious properties | | |
| ASTM C989 - Standard Specification for Slag Cement for Use in Concrete and Mortars | For slag cements. 3 grades based on performance | Grade 80 | Lowest slag activity index | | |
| | | Grade 100 | Mid slag activity index | | |
| | | Grade 120 | Highest slag activity index | | |
| ASTM C1240 Standard Specification for Silica Fume Used in Cementitious Mixtures | For evaluation of alternative SCMs that fall outside the scope of C618, C989, and C1240. | NA NA | | | |
| ASTM C1866 – Standard Specification for Ground–Glass Pozzolan for Use in Concrete | For ground-glass pozzolans for use when pozzolanic action is desired. | Type GS | Ground container and plate glass | | |
| | | Type GE | Ground E Glass (VCAS) | | |
| ASTM C1697 – Standard Specification for Blended SCMs | For SCMs that result from the blending or of two or three ASTM compliant SCMs | NA | NA | | |

Table 1: Hydraulic Cements and Supplementary Cementitious Material Standards

These preblended products are higher quality than blending at the precast plant. Table 1 summarizes the standards and details for those cements and SCMs.

Blended cements governed by ASTM C595 have made their way into precast plants by way of the cement industry's mass introduction of type IL portland limestone cement (PLC). Other blended cements can present some viable alternatives to the current binder system.

ASTM C595 binary blends include portland cement or clinker with one slag, pozzolan or limestone. A ternary blend includes portland cement or clinker with two other materials, which could be two different pozzolans, a pozzolan and a slag, a pozzolan and a limestone or a slag and a limestone.

For binary blends, the allowable portland cement substitutions are up to 40% by mass for pozzolans and 95% by mass for slag cement (70% for structural applications). For ternary blends, the maximum pozzolan content is 40% by mass of the blended cement and for limestone it is 15% by mass of the blended cement. The maximum total content of pozzolan, limestone and slag is 70% by mass of the blended cement.

Type IL cement allows up to 15% limestone as opposed to the 5% limitation in ASTM C150. This additional limestone content helps reduce the cement's carbon footprint by lowering the amount of portland cement.

Lowering concrete's embodied CO₂ emissions is the main reason blended cement use is increasing in the US, and that's not just limited to type IL. Types IP, IS and IT can result in much higher portland cement replacement and, consequently, lower embodied CO2. They also often exhibit lower permeability, enhanced durability and higher longterm strengths.

However, replacing higher amounts of portland cement with one or two other materials can present other issues. Depending on the proportions and materials, the primary issue that may affect precast manufacturers is longer setting times and slower early age strength gain. This could impact the stripping or release of prestressing strand schedule and impair precast production. However, these delays could be mitigated with the use of accelerating admixtures.

Overall, the benefits of higher SCM proportioned blended cements may outweigh the drawbacks.

"Higher SCM replacement blended cements are definitely a viable option moving forward," said Dr. Kyle Riding, researcher and professor of civil and coastal engineering at the University of Florida.



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One specific cementitious blend emerged out of Switzerland around 2012. It's called LC3 and is a blend of portland cement, limestone and calcined clay. The proportions can result in portland cement replacements typically ranging from 30% to 50%. It can be classified as an IT ternary blend cement under ASTM C595 if the proportions are within this standard's limits. It also can be considered a C1157 cement.

The specific type of calcined clay in this application mostly is metakaolin, which is obtained by lower temperature calcination of kaolin clay. Metakaolin calcining temperature are 600 to 700° C compared to portland cement, which can require around 1,400° C.

With metakaolin, studies have shown that a proportion to limestone of 2-to-1 enables the optimum synergistic effect. 1

The limestone powder reacts with the alumina in the metakaolin to form carboaluminate hydrates. This, along with the more typical calcium silicate



A precast beam made with BCSA (Belitic calcium sulfoaluminate) undergoing flexural testing at Oklahoma University.

"Amorphous calcium aluminate cement reacts very quickly. It may be blended with citric acid or calcium sulphate to slightly retard that reaction, but, overall, it could be used in an LC3 blend to boost early strength."

- Dr. Jason Ideker, Oregon State University

hydrates (C-S-H), refines the pore structure. Calcium hydroxide is consumed by pozzolanic activity, and the refined pore structure inhibits further formation of CH.

More C-S-H means lower permeability and improves concrete's resistance to chemical attacks.

The sustainability benefits are significant. The manufacturing of LC3 can result in 30% to 40% reduction in CO₂ embodiment compared to portland cement.²

Dr. Maria Juenger, researcher and professor in the Department of Civil, Architectural and Environmental Engineering at University of Texas at Austin, said: "One of the great things LC3 has going for it is its familiarity. When batching, mixing and placing concrete with this material, there's not a lot of differences than with conventional mixes."

As with other higher pozzolanic material content blended cements, one of the main drawbacks is its potentially lower early age strength. At lower dosages, metakaolin typically has little effect on concrete setting time.

However, at the higher dosages consistent with this blend, the setting would be slowed.

Lowering the amount of pozzolan and increasing the portland cement content to 60% or 70% could help but at a detriment to its sustainable and potentially its durability properties.

Chemical admixtures such as calcium nitrate or sodium carbonate shorten the setting time of LC3 but have lesser impacts on early age strengths especially at lower temperatures.³ One study also looked at using C-S-H seeding and micro limestone, and the results showed limited success.⁴

Dr. Jason Ideker, professor and researcher in the School of Civil and Construction Engineering at Oregon State University, said when considering LC3 for low, early strength gain for precast applications, a particular mineral accelerator is gaining some interest.

"Amorphous calcium aluminate cement reacts very quickly," he said. "It may be blended with citric acid or calcium sulphate to slightly retard that reaction, but, overall, it could be used in an LC3 blend to boost early strength."

During the Calcined Clays for Sustainable Concrete conference in 2022, French industrial minerals manufacturer Imerys introduced their patented CAC-based accelerator, referred to as LC3-plus.⁵













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POWER & TECHNOLOGY In terms of material availability, LC3's raw materials seem to be widely available. Lower grade clays have been studied and may meet the requirements of ASTM C618, which makes the calcined clay sources much more abundant.⁶

ALTERNATIVE CEMENTITIOUS MATERIALS

Moving farther away from the conventional, alternative cementitious materials (ACM) come into focus. "Alternative cement" is defined by the American Concrete Institute as an inorganic cement that can be used as a complete replacement for portland or blended hydraulic cements and that is not covered by applicable specifications for portland or blended hydraulic cements.

It is important to understand that as the portland cement proportion diminishes as in blended cements and is completely absent as in alternative cements, the similarity with fresh and hardened properties of the resulting concrete, compared to portland cement concrete, diminishes significantly.

Dr. Lisa Burris, researcher and professor in the Civil, Environmental and Geodetic Engineering Department at Ohio State University, said: "When you're working with alternative cements, things just work differently, and you can no longer apply the same assumptions as you would with a portland cement-based system.

"Users must be aware of differences in the timing of reactions, curing requirements and meaning of indirect test methods, such as electrical resistivity measurements of durability."

The ACI ITG 10.1 R-18 Report on Alternative Cements⁷ categorizes these materials based on the calcining and clinkering required in manufacturing. (Table 2)

| CLINKERED ALTERNATIVE CEMENTS | Calcium sulfoaluminate cement Calcium aluminate cement Reactive belite cement Carbonated calcium silicate cement | |
|---|---|--|
| CALCINED ALTERNATIVE CEMENTS | Magnesium oxychloride cement Magnesium oxysulfate cement Magnesium phosphate cement Reactive magnesia cement | |
| NON-CLINKERED ALTERNATIVE CEMENTS | Alkali activated slag Alkali activated reactive glass | |

 Table 2: Classification of alternative cements in ACI ITG-10.1R-18 (ACI)

Clinkering is the chemical bond breakdown of several raw materials through exposure to high temperatures to form new compounds. In the clinkering of portland cement, another process called "calcination" transforms limestone into lime.

Clinkered alternative cements require similar production compared with ordinary portland cement but with varying precursor chemistry. That leads to formation of different clinkered phases.

For example, portland cement phases include tri-calcium silicate

"Users must be aware of differences in the timing of reactions, curing requirements and meaning of indirect test methods, such as electrical resistivity measurements of durability."

- Dr. Lisa Burris. Ohio State University

 (C_3S) and di-calcium silicate (C_2S) . A clinkered alternative cement such as calcium sulfoaluminate (CSA) has C_4A_3S (ye'elimite) and calcium aluminate cement has calcium aluminate (CA) compounds.

Calcined compounds on the other hand are all magnesia compounds combined with a cross-linking agent. They do not form clinkered cement compounds but still react hydraulically with water to form a solid binder.

Some alternative cements can be manufactured without application of heat but rather by exposing raw materials to an activating solution, which dissolves then reforms into a solid binder structure. Those are called non-clinkered alternative cements.

Obviously, the degree or absence of high temperature manufacturing will directly impact that ACM's embodied CO₂.

CALCIUM SULFOALUMINATE CEMENT

Calcium sulfoaluminate (CSA) cement is a hydraulic cement that is being used commercially, especially in China. It is produced by heating limestone, bauxite and gypsum.

One clinker compound found in CSA is $4\text{CaO} \cdot 3\text{Al}_2\text{O}_3 \cdot \text{SO}_3$ also referred to as ye'elimite (Klein's compound). CSA also contains belite (C₂S) with added anhydrite or gypsum or other materials to help regulate reaction speed and expansive properties.

CSA hydrates to form ettringite, monosulfoaluminate, amorphous aluminum hydroxide and sometimes stratlingite – when the belite reacts. As with all systems in which large quantities of ettringite form, setting times are shorter, and early strength gain is high compared to portland cement concretes.

It has been shown that CSA cements can result in 70% of the 28-day strength forming in the first 24 hours.

It also has been shown to exhibit good durability in high sulfate environments and freeze-thaw conditions.

A subset of CSA has emerged recently with a higher belite (C_2S) concentration. This cement is called belitic calcium sulfoaluminate, or BCSA cement. The addition of belite extends rapid setting times and aids in later strength development while preserving other beneficial CSA properties.

In China, BCSA cements have been used to manufacture precast concrete products.

A 2019 study explored the use of BCSA cement in precast prestressed concrete beams.⁸ The study revealed that while typical prestressed precast concrete manufacturers release prestress at 18 to 24 hours, "BCSA cement could allow prestress release in as little as two hours."

The study's results indicate that "casting prestressed concrete beams at a commercial facility using BCSA cement is feasible and can result in shorter required curing times before removing beams from the prestressing bed."

Dr. Cameron Murray, researcher and assistant professor at the University of Arkansas' College of Engineering, is one of the study's authors. He was enthusiastic about the use of BCSA cements in precast concrete manufacturing.

"It's not as much of a departure from what we are using today," Murray said. "It is more expensive than portland cement, but the potential increase in production could justify that expense."

The ACI Report on Alternative Cements notes: "CSA cement is used for some structural applications but are especially well suited for precast and cold-weather applications, which take advantage of the rapid strength gain of these materials."

CSA and BCSA cement manufacturing requires slightly lower clinkering temperatures and grinding energy than portland cement, which enhances its environmental sustainability. Use of CSA cements can result in 30% or higher reduction in embodied $\rm CO_2$ compared to PC depending on composition and raw material availability.

CALCIUM ALUMINATE CEMENT

Calcium aluminate cement (CAC) is another hydraulic cement originally developed in France in the early 1900s. Hydration products mainly are calcium aluminate and other hydrates but excludes CH, which boosts the concrete's durability in certain environments.

Concrete made with CAC results in short setting times with fast strength gain. Some of the hydration products are not stable at first, and a conversion occurs, transforming them into more stable phases.

During this conversion, an increase in porosity and subsequent drop in compressive strength can occur. This drop in strength was blamed for structural stability issues in the United Kingdom throughout Europe in the 1900s, including the collapse of a pool house in London.

This perceived issue relegated the use of CACs to mostly repair and refractory applications. However, CACs are gaining renewed interest in the concrete industry due to their rapid strength gain and durability properties. Studies have resulted in a better understanding of the conversion process, and how designs can account for it.

For precast concrete applications, Riding said, "CAC's rapid strength gain, which could be beneficial in some precast applications. CAC is much more expensive than portland cement, likely limiting potential use to niche precast products until the cost decreases."

CACs could be useful in environments prone to microbiologically induced concrete corrosion (MICC). A 2014 study concluded that: "This study highlights that active biofilms will not readily colonize CAC materials surfaces and will not evolve as biofilm developed on OPC materials."



Magnesium Phosphate cement concrete sample

MAGNESIUM BASED CEMENTS

Magnesia-based cements differ from portland cement by substituting magnesium oxide (MgO) for calcium oxide (CaO). Magnesium-based cements include magnesium oxychloride cement (MOC), magnesium oxysulphate cement (MOS) and magnesium phosphate cements (MPC).

These cements are made with an acid-base reaction by combining calcined magnesite (base) and a crosslinking agent (acid) in an aqueous solution. The reaction is fast and can produce high early strength depending on the type of magnesia-based cement. MPC reactions are exothermic, generating very high temperatures. Variations have been used in the construction of the Great Wall of China and the Pantheon.

These cements can exhibit high strength, strong bonding to inorganic substrates and good durability against sulfate, freezethaw and acid environments. ¹⁰ MPC also can offer better corrosion protection that portland cement. ¹¹

The main issue with MOC concrete is that it should not be exposed to water for prolonged periods of time. Even for MPC, extended exposure to water or salt solutions however can decrease strength by 10-20%. 12

As for environmental performance, magnesium-based cements are not ideal, at least not at first.

Dr. Hongyang Ma, researcher and professor at the Civil, Architectural and Environmental Engineering Department of Missouri S&T, said, "Calcination temperatures to produce deadburned magnesia for making MPC can be higher than those needed in portland cement manufacturing."

However, Ma has been involved in research focused on using light burned MgO and energy-efficient alternative feedstocks for formulations of MPC and other acid-base cements, and noted, "Substituting light-burned magnesia for dead-burned magnesia would result in much lower calcination temperatures and reduce carbon footprint reduction."

He added, "Regardless of initial calcination temperatures and CO₂ emission, these magnesia cement-based concretes do

potentially possess higher carbonation rates which allows them to absorb more CO_2 in service than many other concretes. A special member of the family of magnesia-based cements is reactive magnesia cement, hardening due to the reaction between light-burned magnesia and CO_2 forming magnesium carbonate hydrates. In this cement, the theoretical potential of CO_2 uptake of 1 kg of MgO is 1.1 kg. Again, the challenge is to find energy- and CO_2 -efficient pathways to produce magnesia or alternative precursors."

Use in precast applications currently is limited, but continued research seeks to address cost and durability concerns to enable future use of magnesia-based binders in future.

ALKALI-ACTIVATED CEMENTS

Alkali-activated cements (AAC) are made by mixing fly ash, blast furnace slag or metakaolin with an alkaline activating solution. The reaction product produced varies based mainly on the amount of reactive calcium.

This chemical reaction between the alkali activating solution and these lower calcium materials is a polymerization reaction, and that's why the resulting products were formerly called "geopolymers."

AACs made with fly ash and slag are referred to as alkali activated fly ash (AAFA) or alkali activated slag cement (AAS). AAFAs exhibit high early and late strengths compared to PC.

AACs have been shown to exhibit good resistance to sulfate and acid attack and ASR. Among alternate cements, these alkali activated cements exhibit the highest environmental sustainability since incorporating waste materials and require no clinkering or calcination. Reduction in embodied $\rm CO_2$ compared to PC can be exceed 80%. ¹³

One main challenge to wider adoption is the availability of fly ash and slag and the inherent variability of these materials.

Juenger siad: "The inconsistencies with fly ash or slag would require adjustments to the alkaline activators prior to mixing.... There also exists a significant safety component to working with alkali activated cements since exposure to the alkaline activators is dangerous. However, development of test methods to guide producers in making these adjustments are currently in progress."

While these cements are used in very specific applications, use in the precast industry will require better guidelines for proportioning of materials and chemicals and methods to assess variability in the starting material constituents.

PLENTY MORE OUT THERE

There are many other cements in various stages of research and on the market. Much is still unknown about the implementation of many of these cements and how laboratory results will translate to viable products for precast manufacturing.

An evolution of cement use is going to require an evolution of applicable standards. Many of the cements on the market or being developed will not abide by any current prescriptive standard but may satisfy performance-based cement standards.

Dr. Kimberly Kurtis, researcher and professor at the School of Civil and Environmental Engineering at Georgia Tech, is wrapping up a study for Georgia DOT titled "Recommendations for Future Specifications to Ensure Durable Next Generation Concrete."

She noted: "Advancements in cements relies on adoption of performance-based specifications.... We have to enhance existing and create new laboratory test methods for these cements to provide more useful data. How we're testing cements need to change."

Since precast represents such a small percentage of overall concrete use, most studies and material development are primarily focused on the ready-mix industry. A cement that may work in a ready-mix application may not work in a precast application.

For one thing, precast manufacturing requires shorter set times and early strength development. Also, precast structures used in infrastructure applications may have specific exposure environments that require specific hardened properties. Microbially induced concrete corrosion is one example, where bacterial activity in high $\rm H_2S$ gas concentrations can expose concrete to biogenic sulfuric acids.

Some of the cements discussed in this article could be ideal candidates for use in this exposure, but more testing and field research needs to be done.

However, precast manufacturing may present the optimal testing conditions for these cements.

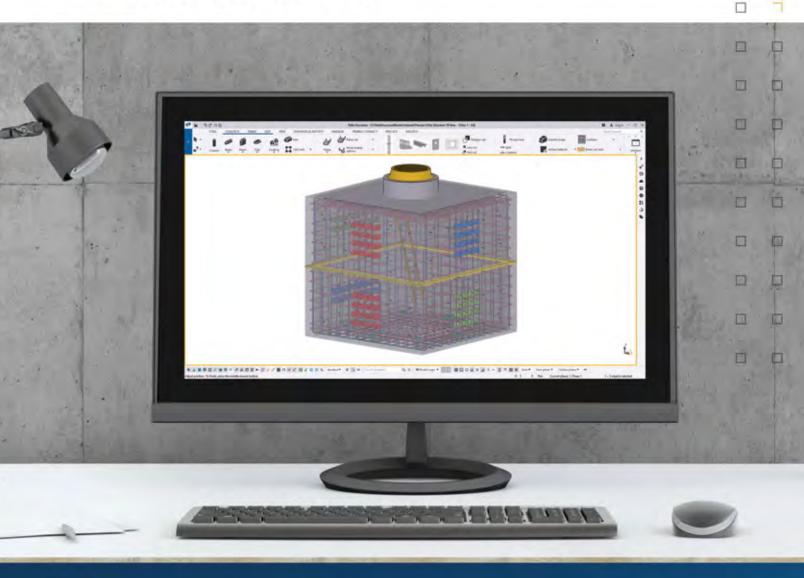
"When it comes to real-world testing these materials for use in concrete, the precast manufacturing environment is an ideal process due to its higher degree of consistency compared to those of other concrete applications," Juenger said.

There's a significant opportunity for the research community and the precast industry to partner in exploring the use of these cements and further enhance the value of our products.

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Testing Fresh Concrete

PRECAST PLANTS SEEKING NPCA PLANT CERTIFICATION NEED TO PROVE PROFICIENCY IN ASTM TEST METHODS FOR FRESH CONCRETE, ESPECIALLY SELF-CONSOLIDATING CONCRETE.



By Scott Grumski

Scott Grumski is the vice president of platform development for Forney LP and a member of the NPCA QA/QC Committee.

Fresh concrete testing takes time, and there are a number of standards to adhere to.

The information collected during this process and the way concrete is handled at this step greatly informs the rest of the quality control process and project as a whole.

This goes double when testing self-consolidating concrete (SCC).

So do yourself a favor and make sure to do it right.

According to the NPCA Quality Control Manual for Precast Concrete Plants, there are three ways to achieve a certification for applicable concrete testing:

- Become an American Concrete Institute (ACI) Concrete Field Testing Technician - Grade 1.
- Become an industry-recognized ACI equivalent
- Have a professional engineer observe and sign off on their ability to perform these tests.

Though not all precasters use SCC, many rely on SCC's flexibility. SCC is slightly more expensive than traditional concrete, but the time saved through its ability to flow into

the voids of complex molds - as opposed to tapping or vibrating the concrete - offsets the additional cost.

However, testing SCC looks a bit different compared to testing traditional concrete.

Standards provide all of the information a precaster needs, but the language is not intended to be instructional. This is where supplementary manuals such as ASTM R0030-19 provide commentary and insights to help interpret the standards.

Learn the standards. Follow the manuals. Then use these tips inspired by the standards, the manuals and experience to maintain proper practices.

SLUMP

Slump testing (ASTM C143) assesses the consistency and workability of fresh concrete by measuring the degree of deformation that occurs when a sample of freshly mixed concrete is placed and compacted. At the center of these tests is the slump cone.

Fill the cone with concrete, strike-off the top surface, then remove the cone in a steady,

vertical motion.

One of the keys to completing this test successfully is to control how quickly to remove the cone. ASTM C143 says it should take five seconds, plus or minus two seconds, to lift the cone 12 inches. The difference in height between the top of the cone and the settled concrete is then measured and recorded as the slump.

Traditional concrete doesn't really spread. It slumps. Which



Portable slump test set, including a compact base unit with a handle, tamping rod, scoop and slump



Striking off the top of the slump cone.



Measuring the height of the settled concrete.

is why this test works.

SCC, on the other hand, can spread out anywhere between 20 inches and 30 inches. So with SCC, look at slump flow instead.

SLUMP FLOW

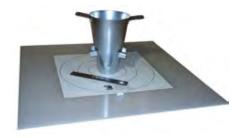
Slump flow testing measures a few different things:

- Filling ability. How well it gets into every void of the mold.
- Static segregation. How well the coarse aggregate uniformly disperses.
- Passing ability. How well it goes around imbedded objects such as rebar.

Filling ability follows ASTM C1611. It requires a bigger base. Most testers use a large plastic platform but otherwise the same primary tool.

That is, the slump cone – only upside down.

R0030-19 advises that the test is easier with the smaller end of the cone facing down, though ASTM C1611 gives the option between upright or inverted.



SCC spread test set, including a slump cone, straightedge and plastic base plate.

Place the slump cone in the center of the base and pour the concrete sample into the cone without rodding or other consolidation. Vertically lift the cone and let the concrete spread.

It should flow "like hot lava, not like water," as R0030-19 puts it. Measure the widest and narrowest diameter, then calculate the average between the two.

At this point, visually inspect the "SCC patty" for static segregation. A visual inspection helps gauge how well the SCC does what it is supposed to do (self-consolidate).

This is ranked on a scale of 0 to 3 called the Visual Stability Index (VSI), with 0 as the most stable mix and 3 as the least. A VSI of 0 or 1 is ideal, but 2 may be acceptable. Some mixes have a lot of liquid on the outside and aggregate clumped in the middle, producing what looks like a halo around edge of the patty. A large halo is a 3.

After slump flow, it is time to test the SCC's passing ability, according to ASTM C1621. Use the same orientation as with the slump flow filling ability test. This time, use a J-Ring, which is a tool that restricts SCC's flow in order to measure how well it passes through obstructions.



J-Ring Test Set, including a slump cone, straightedge, heavyduty steel J-Ring and a large, rigid plastic base plate with centering ring decal on which to perform the test.

This test works the same as before. Results should be a little less than 90% of the slump flow measure.

TEMPERATURE

Measuring temperature is fairly straight-forward but important. Temperature also affects workability, setting time and long-term durability.

As the NPCA QC Manual notes, warm concrete gains strength faster, but its strength at later ages is lower than cool concrete. ASTM C1064 requires the temperature test to be completed within five minutes after placing a thermometer in concrete.



Thermometer in fresh concrete

UNIT WEIGHT (DENSITY)

Density is another straightforward test – just a field scale and a bucket.

Here's a tip: Save a step by using an air meter bucket. That way, once done measuring unit weight, immediately move on to air entrainment.



Digital field scale

Regardless of the container, know its volume and weight. Ideally, set the scale to zero with the empty container on it. Then, simply add concrete to the container and weigh it.

Based on the concrete weight and the bucket's dimensions, calculate the concrete's density.

This is important because it provides information about the proportion of materials in the mix in order to verify compliance with specifications. If adjustments need to be made to the mix because of unit weight falling outside of the specified limits, take another measurement after the mix is adjusted.

Density is another indicator of workability and flowability, and it is closely related to the consolidation and air content of fresh concrete.

When performed in accordance with ASTM C138, density may be substituted for ASTM C231 or



Kit for testing entrained air according to ASTM C231.

ASTM C173 after a correlation between air content and density has been established.

Another exception from the NPCA QC Manual says that, unless otherwise specified, dry-cast concrete density does not need to be tested.

AIR CONTENT

Following the density test, concrete is already in the air meter bucket. Use this setup for the next test: air entrainment.

There are two options for normalweight concrete:

- The pressure method (ASTM C231).
- ► The volumetric method (ASTM C173).

The pressure method is more commonly used, because the test is easier and faster. The volumetric method is preferred – and often required – for lightweight concrete or concrete using porous aggregate. The volumetric method is more accurate than the pressure method in that context.

In accordance with ASTM C231, the pressure method measures the air content as a percentage of the total volume of the concrete.

First, clean the rim of the bucket to get a tight seal.

Then, put the cover assembly on the bucket and seal the cover with clamps.

Close the main air valve, open the petcocks and add water into one petcock



Cleaning edge of bucket before air test.



Calibrating air meter.

until water emerges from the other petcock.

The key is to make sure to expel any air trapped inside the air meter.

Pump the canister to the specified pressure, then release air into the bucket after closing both petcocks.

Based on how much the pressure drops, measure how much air was in the concrete as it compresses the "old air" with "new air."

GOOD TESTING GOES A LONG WAY

When it comes to testing SCC, the NPCA QC Manual notes that the air content of an SCC mix can affect the desired mix properties, recommending that air content be tested regularly with slump flow testing and VSI observations.

At the center of fresh concrete testing is the data a precaster needs. Many field technicians have turned to mobile field apps for data collection, enhancing efficiency and transparency in the QC process.

Ultimately, proficiency comes down to understanding the best practices of performing these tests. Do these tests by the book, with the help of some tips and tricks along the way, and getting certified should not be a roadblock for your plant.





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Tolerances are an important component of designing and manufacturing precast concrete structures.

There are different types of tolerances for precast, but the three main classifications are interfacing tolerances, erection tolerances and product tolerances.

Using the NPCA and PCI websites as resources, it is important to identify both the differences and commonality for industry tolerance standards. Once in hand, the math takes over and projects move forward.

WHAT IS TOLERANCE?

Tolerance is the allotted or allowable variation that a structure can be produced based on the specified dimensions of the structure. For example, the industry-standard tolerance height for an architectural wall panel up to 10 feet may have a plus-minus one-eighth of an inch. The plus-minus means that the allowed tolerance for the height of the wall can be one-eighth of an inch over 10 feet or an one-eighth of an inch under 10 feet.

Product tolerances describe the dimensional relationships of each precast component that make up a whole structure. Product tolerances are necessary to ensure that all parts of the structure fit with one another.

It is crucial that the form's dimensions are correct so that the manufactured product has the correct tolerances. It also is important to have a clear understanding of the appropriate product tolerances before a project begins, along with the correct interfacing tolerances and erection tolerances.

This creates clear expectations for the project, and it ensures that everyone is working within the same agreed tolerances.

Form flexibility is important so that precise adjustments needed for the structure's tolerances are made and eliminate the chance for rework on the structure.

Quality control plays an important role in ensuring that a product is being produced correctly and to identify if any of the forms are becoming warped or bowed past allowed tolerance. If so, adjustments must be made to correct this.

There also are times when a project requires extremely tight tolerances, such as the trough pictured below that has a required tolerance of plus-minus one-sixteenth of an inch. These types of tolerances can be challenging as this only allows for an extremely small deviation from the specified dimensions.

CULVERTS AND PIPE

For example, box culvert industry tolerances require:

- Internal dimensions to remain within 1% from the design dimensions, and haunch dimensions are not allowed to vary more than one quarter of an inch.
- Variations of laying two opposite surfaces of the box section must not be more than one-eighth inch per foot of internal span and may only have a maximum of five-eighths inches for sizing of internal spans through 7 feet and a maximum of three-quarters inch for internal spans that exceed 7 feet with the exception where beveled ends for laying of curves are specified by the purchaser.
- Slab and wall thickness are not allowed to vary less than 5% or three-sixteenths
 of an inch
- The length of the underrun of a section is not allowed to be more than oneeighth inch per foot of length with no more than a half inch in any area of the box section
- The maximum variation for the position of the reinforcement of 5 inches or less for slab and wall thickness should be plus-minus three-eighths inch or plusminus a half inch for greater than 5 inches.
- A cover over the reinforcement should never be less than five-eighths of an inch.

For precast concrete pipe, allowed tolerances include:

- Wall thickness should not vary more than plus-minus 5% or three-sixteenths of an inch.
- The underrun portion of the pipe should not exceed more than one-eighth inch per foot and should not exceed more than a half inch for any pipe length.
- Variations of laying the two opposite ends of the pipe should not be more than one quarter of an inch. This applies to all sizes through a 24-inch internal diameter.
- Variations of laying the two opposite ends of the pipe should not be more than an one-eighth of an inch per foot for any size with a maximum tolerance of five-eighths inch for any length of pipe through 84 inches.
- Three-quarters of an inch is the max length variation for a pipe with a 90-inch or greater internal diameter unless when the structure has a beveled end pipe designed to lay on curves
- The maximum allowed variation for the circumferential reinforcement is plusminus 10% of the wall thickness or plus-minus a half inch
- The area of reinforcements is considered acceptable as long as the nominal area of the wire or bars exceeds or equals the required specifications.

Tolerances for manufactured precast concrete products are specific and often do not allow for much variance.





UNDERGROUND UTILITY STRUCTURES

For the dimensional tolerances measured on the inner surfaces including width, height and length:

- ▶ 0 to 5 feet has a tolerance of plus-minus a quarter inch.
- > 5 to 10 feet has a tolerance of plus-minus three-eighths inch.
- ▶ 10 to 20 feet has a tolerance of plus-minus a half inch.
- 20 feet and longer has a tolerance that is understood and agreed between the customer and supplier.

Squareness tolerance:

- > 0 to 10 feet has a tolerance of plus-minus a guarter inch.
- 10 to 20 feet has a tolerance of three-quarters inch.
- More than 20 feet has a tolerance that is understood and agreed between the customer and supplier.

Joint surface tolerances or the distance between joints without joint sealant:

A tolerance of three-eighths inch.

Insert location:

 Each component should not deviate more than plus-minus one-eighths inch from specifications.

Reinforcement location:

- Reinforcement should be within plus-minus a quarter inch of the specifications and the cover should not be less than three-fourths of an inch.
- Spacing for the reinforcements should not vary more than 1½ inch or deviate more than one-tenth of the specifications for the bar spacing.

Slab and wall thickness:

The thickness of a wall and slab should not be less than the specifications, nor should it be greater than 5% or three-sixteenths of an inch.

WARPING AND BOWING

Warping and bowing tolerances are especially important when aligning precast wall panels. These tolerances influence the way that the panels' edges align with one another during erection.

Bowing is when the two opposite ends of a panel are parallel, and the section of the panel between the two edges becomes out of plane. It is more common that thinner panels will bow before thick panels bow.

Because of this, tolerances for thinner panels are usually more lenient.

CORBEL LOCATION

Certain structures also require corbels or haunches, which are components that are anchored on a wall to support the weight of an attached structure.

Adhering to proper tolerances through the manufacturing stage allows for maximum durability and sustainability in precast concrete.



Whether a standard or custom design, tolerances remain a defining element.

These components also have tolerances. Typical haunch-tohaunch tolerance is plus-minus one-eighth to one-quarter of an inch.

ERECTION TOLERANCES

Erection tolerances describe when precast structures are set in place. While all tolerances are important when designing and building precast structures, erection tolerances give the allowable tolerances of how a precast structure should be set in its final place. This also influences the way that adjacent structure components are set in place.

Equipment plays a significant role with erection tolerances. Because of this, variation of some of the tolerances may be necessary, especially for more custom products.

If erection tolerances are too constraining, this can present challenges for a precaster and installation costs can become more expensive due to the special equipment that may be needed.

To help ensure that the structure is erected properly, all structure dimensions should be checked prior to starting erection. After this takes place, the structure or precast components should be checked to ensure that they are within tolerances.

Here are a few examples of common industry standards for erection tolerances:

- A precast concrete component to another precast concrete component has a half inch (1 inch preferred) recommended clearance.
- A precast concrete component to a steel component has a 1 inch (2 inch preferred) recommended clearance.
- A precast concrete column cover has a 1½ inch (3 inch preferred for taller structures) recommended clearance.





INTERFACING TOLERANCES

Interfacing tolerances are associated with other systems or materials that interface with precast components. They are needed prior to or after the interfacing system is erected.

For systems that have multiple precast components, it is important to understand the allowable variations in the dimensions associated with other materials or systems that are in contact with or that are near the precast concrete.

Interface tolerances can involve structural steel, and even windows, doors, and ventilating systems and heating systems.

Tolerances play a key role in the design and function of precast structures. It is important to remember that the connection details must be considered when specifying erection tolerances and adequate spacing must be provided to perform the tasks necessary to complete the connection.

An engineer may choose to specify a minimum bearing size for various precast concrete products. It is important to remember that precast structures that do not meet tolerance specifications can be rejected.

To prevent this from happening, ensure that the customer, the engineer and the precaster are all on the same page.



Engineers for the customer and the precaster must agree on variances in order to bring a project to fruition.



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LONGTIME EMPLOYEES ARE AN INVALUABLE RESOURCE, BUT CHANGE TENDS TO HIT THEM HARDER THAN NEWER EMPLOYEES. HERE ARE SOME WAYS TO HELP THEM MANAGE.

Change is the name of the game in today's fast-paced world. But sometimes it can leave longtime employees grappling to play catch-up.

"In our industry, things were done in a certain fashion for a very long time - and still are being done that way to this very day," said David Espino, director of operations for Locke Solutions in Houston. "But there are always better ways of doing things. In the coming years, there's going to be a huge jump in using technology to automate things, whether it's reporting or on the floor. It's going to be a major change that a lot of folks are going to have to adapt to."

HELPING DIFFERENT MINDSETS COEXIST

Older employees tend to operate under a different set of work habits than younger counterparts. For instance, they often place a higher value on being onsite every day for a set number of work hours. They also draw a higher degree of self-identity through their jobs and roles.

These differences can be a source of friction and frustration in the workplace.

At Wieser Concrete Products, headquartered in Maiden Rock, Wis., General Manager Andy Winkler said 43% of the company's employees fall within the longtime worker category – those in their late 40s or early 50s or who have been with the company 15 to 20 years.

Wieser Concrete recently brought in a speaker to talk to employees about leadership and cooperation and to help both generations be more understanding of each other. If a culture of respect exists within a company, it makes everyone's job easier.

KEEPING UP WITH THE TIMES

Today, nearly every aspect of business involves technology: timecards, electronic paychecks, health insurance, 401K statements, electronic driving logs (EDLs) and computerized concrete mixers to name a few.

While technology makes many processes more efficient and immediate, longtime employees often prefer paper documentation and the old way of doing things.

"They struggle a bit more with it," Winkler said. "They aren't walking around looking at their smartphones all day."

Wieser Concrete Products holds training sessions on downloading new apps and how to use them to assist longtime employees.

Jim Pryor, 61, president and owner of Atlas Concrete Products in New Britain, Conn., appreciates the difficulty in adapting to the new technology. He's been in the precast business for 20 years and has seen many changes.

"Some people want things to stay the same. And it can't stay the same if your company is growing."

- David Espino, Locke Solutions

Longtime Workers:

Wieser Concrete Products



Garden State Precast



Locke Solutions



"We try to transition them to different jobs that don't require working on their knees, climbing or lifting. So, we look at the individual and what they can handle and what they can do to stay happy. You need to fit the job to the person."

- Andy Winkler, Wieser Concrete Products

He joked about attending "YouTube University" to learn 3-D modeling software for a project.

"Knowing where to go to get the answers is the big thing," Pryor said. "I watch a lot of videos to try to keep current. I also refer to my kids an awful lot. They know the shortcuts and how to do what I need to get done."

What if longtime employees are unable to adapt or stubbornly resist change?

"Fortunately, it doesn't happen too often," Espino said. "Some people want things to stay the same. And it can't stay the same if your company is growing."

WORKING AROUND PHYSICAL CHANGES

There comes a time when longtime employees can't handle the physicality of manual labor. No matter how knowledgeable or skilled they are, it becomes too difficult to keep up with the pace and demands of the job.

That's when savvy employers can employ a variety of solutions to help.

"We focus on trying to utilize their skill sets and repurposing where they are in the company with an equal or better opportunity," said Nadine Hurd, materials manager for Garden State Precast in Wall, N.J. "That alleviates some of the manual labor pressure on them."

Garden State employs between 70 and 80 workers. About 10% of them have worked there for 20-plus years and are over age 60.

Garden State supplies items such as floor mats and reading safety glasses to help older employees. The company also uses 3-D models to supplement the complex drawings for detailed and intricate structures.

"It has really helped both younger and older generations visualize what we need to produce," Hurd said. "This is just another tool we give them to help them with a project."

When employees have been performing a task one way for 10 to 15 years, muscle memory kicks in and away they go. It's challenging to adjust to a new process.

"We focus on doing it side-by-side with them," Hurd said. "We don't try to institute something new and leave them to figure it out on their own."

Wieser has a similar approach.

"We try to transition them to different jobs that don't require working on their knees, climbing or lifting," Winkler said. "So, we look at the individual and what they can handle and what they can do to stay happy. You need to fit the job to the person."

Atlas Concrete Products also transfers

Experienced workers are invaluable to any precast concrete manufacturing facility. As their careers progress, new technologies, equipment and processes necessitate change.

longtime employees to less strenuous positions within the company. For example, one employee in his 70s specializes in patch work, working at his own pace. Another longtime employee transferred to a forklift operator position and performs special setups on custom jobs.

Pryor advises precast companies to "be patient and cut longtime employees some slack."

"It took a long time to get your key employees to become key employees, so don't mess it up now," he said.



HONORING VALUE

Veteran employees possess historical and industry knowledge that make their contributions invaluable. Losing them can be detrimental, especially given the current labor supply. Showing them how valued they are goes a long way toward keeping longtime employees.

Locke Solutions depends on its longtime employees for recruiting and training.

"They're heavily involved in that and in our moving forward," Espino said.

Locke Solutions is 10 years old, and its 100-plus employee workforce ranges in age from 20 to 55. The company is experiencing rapid growth. A year-and-a-half ago, the company had fewer than 50 employees. About 10 employees are experienced, longtime employees.

Locke's buddy system, which pairs new employees with tenured experts in specialty work such as rebar, fabrication, formwork and patching and finishing, allows new employees to gain skills and knowledge quickly.

Keeping longtime employees engaged in company initiatives rather than passing them over in favor of newer, younger employees goes a long way toward keeping them feeling part of the company rather than being pushed out.

Locke relies upon and asks for their senior employees' feedback and ideas the company can implement and involves them in expansion or technology projects.

"Sometimes they have innovative technology ideas we hadn't thought about," Espino said.

Along with mentoring, Garden State keeps older employees engaged by including them in the safety committee, and having them lead meetings and other projects to let them know their voices are heard and their opinions are not overlooked.

STAYING FLEXIBLE

There are other ways to assist longtime employees so they can continue working.

Garden State has used longtime employees as consultants for complex jobs and in some cases, phased retirement.

While Wieser has no formal plan for retaining older employees, it allows some longtime employees to work part time or reduced hours. For example, often drivers opt for a three-days-per-week schedule when they reach retirement age.

Atlas works four 10-hour days, with three days off each week, a schedule that allows longtime employees an extra day off.

"Employees are in the driver's seat these days, and you have to realize that and figure out how to make the best of that," Pryor said.



Common OSHA Violations

(AND HOW TO WORK TOWARD PREVENTING THEM)



By Hugh Martin, P.E.

Hugh Martin, P.E., is the director of technical resources at NPCA.

A strong and successful safety program consists of many key elements, including the identification and assessment of potential hazards preventing, controlling those hazards and continually evaluating and improving your safety program.

But how can precast concrete facility supervisors know that they have correctly identified the most potentially dangerous hazards or even which ones are harder to mitigate, require more attention and necessitate training?

Looking inward provides only part of the solution. Safety managers evaluate the effectiveness of safety plans and learn from mistakes, but that is a reactive approach. The primary goal of every good safety plan is to minimize mistakes.

While safety
violations are
regrettable and can be
costly to those who make
them, mistakes made by
others are valuable for helping
find weaknesses in any plan, which
is why the Occupational Safety
and Health Administration (OSHA)

Wearing proper protective equipment helps negate much of the potential for most non-fall injuries in a precast concrete manufacturing facility.



is available for industries that have been

given a North American Industry Classification

System (NAICS) code by OSHA. The code that



is most relevant to precasters is NAICS code No. 3273 for Cement and Concrete Product Manufacturing.

In this specific category, the most cited OSHA standards are:

- Control of hazardous energy (lock out/tag out).
- Respiratory protection.
- Hazard communication.

LOCK OUT/TAG OUT

A considerable amount of heavy equipment is required to weigh, mix, convey, pour and transport concrete throughout the manufacturing process. Before equipment can be serviced or maintained, it is imperative that a lock out/tag out (LOTO) procedure be developed and implemented for each machine in the manufacturing process.

"You need to have machine-specific lockout/tagout procedures," Curt Moore of Fisher Phillips said. "Employers should have a detailed, written procedure informing employees of every source of hazardous energy that needs to be isolated on the equipment to get it to a zero-energy state."

Every authorized employee expected to work on the equipment must, therefore, be trained on the machine-specific LOTO procedure. Affected employees should be given the appropriate LOTO training as well.

In addition, all LOTO actions must be randomly verified on a routine basis. Individual LOTO processes must be audited while they are in use and documented, recording which machine or process was audited, which personnel were involved in the LOTO procedure, the time at which the audit was conducted and any



Proper education, training and supervision go a long way toward keeping workers safe.

corrective actions that may have been made.

Additionally, an audit of both documentation and implementation of the energy control program for an entire facility must be conducted and documented at least annually.

When it comes to maintaining equipment logs, such as a mixer that is locked out every day for cleaning, Jason Brewster of Atlantic TNG LLC looks to technology.

"We went to making logs on our phones through an app, and that's made it a lot easier because those records are automatically uploaded to the cloud, and you don't have to worry about losing them," he said. "We also place checklists on the app to help employees check through what they need to do and make sure it's done right."

RESPIRATORY PROTECTION

OSHA's General Respiratory Protection Standard 1910.134 covers respirators, fit testing, medical evaluations and more, but, generally, respiratory protection in the concrete industry primarily refers to exposures to respirable crystalline silica caused by grinding or cutting concrete.

Engineering controls such as using water or a HEPA vacuum system to control dust while cutting are the most effective first line of defense against silica exposure, followed by good workplace practices such as thoughtful housekeeping. If neither

of those approaches are sufficient to keep exposure levels below the current threshold of $25 \, \mu g/m^3$ within an eighthour workday, then personal protective equipment (PPE), such as dust masks or respirators, must be used.

Even when PPE is provided, violations can occur when masks are not properly fitted to each individual employee or not checked for operation and adequate capacity prior to use.

"Make sure your PPE for respiratory protection is being checked," Brewster said. "If filters are not being replaced when they need to be, then it's not really protecting them."

Exposure levels must be reassessed every time there is a change in equipment, processes or work practice that could result in exposure levels above the action level. For exposure levels that require masks, OSHA Rule

1926.1053 must be followed. NPCA provides

numerous
resources for
help in meeting
OSHA's compliance
standards, including
the Occupational Health
Program & Written Exposure
Control Plan for Respirable Co

Control Plan for Respirable Crystalline Silica, available free to all NPCA

members.

In addition to silica exposure, other respiratory hazards, such as carbon monoxide buildup, also may need to be addressed. For instance, a separate respiratory hazard analysis may be required for an enclosed heated workspace such as the interior of a curing kiln.

Similar to silica exposure, hazardous carbon monoxide levels could either be addressed through engineering controls such as improving ventilation, improving heating efficiency or through the use of PPE such as a properly fitted respirator.

HAZARD COMMUNICATION

The third highest citation on the list, hazard communication, can occur when using secondary containers that contain hazardous chemicals poured from a larger drum or original container. OSHA's Hazard Communication Standard (HCS) has specific requirements for labeling that cannot be shortened or neglected.

Hazards must be properly classified and standard labels with uniform signal words, pictograms and hazard statements must be applied to the container. A Safety Data Sheet (SDS, formerly MSDS) must be obtained from the chemical manufacturer and kept in a specific format that contains 16 predefined sections.

In addition to the proper labels, employers also must train employees to know and understand the meaning of those labels and SDS sheets. The last

but most important step in

the process is to make sure to wear the

proper PPE based on exposure levels.

According
to Moore, one
issue with
OSHA's hazard
communication
rules that came
up often during
the COVID-19
pandemic were

Respiratory protection is only as good as its filter.

Make sure to check equipment regularly and replace
any worn or outdated parts.

companies' use of secondary containers for consumer-based products, primarily for cleaning and disinfecting.

"OSHA has a consumer exception to the hazard communication rule that applies to consumer products, but that only applies to consumer products that are used in the same amount and as the same frequency that consumers would typically use them," he said. "OSHA will almost always take the position that, in a business environment, those products are used at a greater frequency and in greater quantities than a consumer would use them and will therefore require compliance to hazard communication rules. It is always best to have those containers properly labeled and to have SDS sheets for them."

A CULTURE OF SAFETY

Moore and Brewster agree that when it comes to developing a robust culture of

safety at a workplace, the most important aspect is to have buy-in and collaboration from top to bottom.

It starts by making safety a core value of the company.

"Sometimes there will be production obligations that run in tension with safety," Moore said, "but you can't compromise safety. That has to be the message from the top down."

It also requires having employees fully bought into the same philosophy, not just through training but also by supporting workplace behaviors that enhance and improve safety.

"We have a safety committee that meets once a month and is comprised of employees, it's an open floor where we focus on safety issues and come up with solutions to deal with those issues," Brewster said. "Giving employees a voice in their own safety is important. When everyone feels responsible for each other's safety, that helps create a culture and a buy-in that helps prevent accidents."

Atlantic TNG also has unlabeled, anonymous boxes throughout the plant in case an employee has a safety concern but is hesitant to voice it to a supervisor or fellow employees.

The goal is for every employee to understand that these safety issues can affect them and their coworkers. All employees deserve to go home in the same condition in which they came. Empowering employees to look out for one another and report issues to their managers is less about getting each other in trouble and all about making sure everyone can go home to their family at the end of the day.

And that's the most important part of any job, to care for our loved ones.





Little Island, 267 Precise Pilings.

Project: Little Island@Pier55, a park

on the Hudson River in NYC

Client: Coastal Precast Systems

Photo: Courtesy of Little Island@Pier5

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ORLANDO INTERNATIONAL AIRPORT'S NEW STATE-OF-THE-ART \$2.8 BILLION TERMINAL WAS BUILT WITH 860 PRECAST CONCRETE PANELS.



When the new Terminal C at Orlando International Airport (MCO) opened to the public in September 2022, the \$2.8 billion project featured advancements such as facial recognition technology, virtual ramp controls, automated bin return systems and a radio frequency identification (RFID) tote baggage handling system.

The expansion, which supports a 25% increase in airport passenger capacity to or roughly 10 to 12 million more flyers, also features a modern design and natural light throughout.

To build its new terminal, the Greater Orlando Aviation Authority (GOAA) hired two construction managers at risk (CMAR), a design-build-operate-maintain (DBOM) baggage handling system and numerous design-build teams for the concessions and tenant build outs. The entire Terminal C operates as one building, but the Turner Kiewit CMAR team handled the landside of the expansion joint, and Hensel Phelps' CMAR team completed the airside of the expansion joint.

Behind the scenes at the 1.2 million-square-foot LEED gold-certified terminal are 860 precast concrete panels, each of which is 12 feet wide and 30 feet tall. The panels serve as an integral part of what is the nation's first fully integrated, multimodal airport terminal for rail, air and ground transportation.

The project is part of MCO's South Terminal Campus and included 15 gates for landside and airside activities, a landside terminal, an airside concourse and a ground transportation facility. Scott Shedek, GOAA's vice president of construction, said precast concrete was the material of choice for the roughly 860 panels that used to build the terminal's passenger boarding bridges and for Level 1 of the landside terminal.

"Precast concrete was the natural choice for this project based on the project's design and also for ease of installation by the construction manager at risk," Shedek said.

The fact that the panels would be manufactured in a controlled environment at nearby Leesburg Concrete Company's plant in central Florida was another compelling reason to use precast.

"The quality control is very high (with) precast panels," Shedek said. "The precast also provided the strength and durability that we needed for the project. Architecturally, the precast has a very nice look to it. It's nice and clean."

Once the panels were delivered to the jobsite – a process that Shedek said happened in a timely manner – they quickly were attached to the terminal's exterior walls and other

"Precast concrete was the natural choice for this project based on the project's design and also for ease of installation by the construction manager at risk."

- Scott Shedek, Greater Orlando Aviation Authority

areas by the two contractors.

The precast panel installation process was fast, Shedek said, and the post-installation cleanup process was a breeze.

"Precast is very clean to install because there's no debris left behind," he said. "It also only required a small crew to install, so there wasn't much impact to the other trades that were working on these two projects."

The project as a whole was complex and required coordination among the subcontractors working onsite, but the precast portion stood out for its simplicity.

"By using precast the contractors were able to handle much of the coordination in advance for pipe penetrations and other elements," said Shedek, who added that the overall project went well and opened to the public on schedule. "Using the precast concrete actually saved the contractors some time on the installation side and helped them stay within their schedule to open on time in September."

CLADDING THE EXTERIOR OF THE PROJECT

Kirk Rouse, president at Leesburg Concrete Company in Leesburg, Fla., said producing the 860 architectural panels was pretty much "business as usual" for the facility, which has manufactured products for a wide range of high-profile projects in Florida and the southeastern United States.

"We coordinated with the project engineers along with LEAP and associates to panelize the exterior of the towers" Rouse said. "Then, we made monolithic pieces with integral color, several panels per elevation and went around the different terminals to clad the exterior of the airport.

"We have worked on several projects with both Hensel Phelps and Turner Kiewit and have enjoyed the relationships."

Leesburg Concrete Company worked with Bryan Trimbath, president of Tampa-based LEAP Associates International, which served as the precaster's specialty engineer for this project.

Trimbath said he prepared the design for the precast panels and connections, then produced the shop and product drawings for the more than 700 products.

"We specified the dimensions and sizes on the drawings, and then designed the precast products accordingly," he said.

Like Shedek, Trimbath said precast concrete was the natural choice for the GOAA's terminal project, both for the material's durability and ease of installation at the jobsite.

"It was a fairly straightforward project," Trimbath said. "LEAP used a building information model both with the project design team and with the other trades working on the project. It was

Leesburg Concrete Company manufactured 860 precast concrete panels, each 12 feet wide and 30 feet tall, as part of the \$2.8 billion project at Orlando International Airport Terminal C.

The Terminal C project at the Orlando International Airport was Phase 1 of a multi-phase project. Other phases also include precast concrete products.

essential that we coordinate with the other trades in those project conditions."

Each tower includes a cast-in-place structure, and the precast panels were installed on the exterior of those structures. The precast portion included multiple

panels that were installed from bottom to top. Because there was no access behind the panels, some of them were built with "blind connections." That way, the panels could be set atop one another using a grout sleeve.

Trimbath said the process went "pretty smoothly" from concept to completion.

"Turner Kiewit and Hensel Phelps were both good to work



with and any project we work on for Leesburg Concrete Company always goes well," he said. "They always manufacturer high-quality products and the airport terminal project was no different."

QUICK, DURABLE AND BEAUTIFUL

Rouse said the integral-colored panels were well received when they showed up at the jobsite that day.







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"The quality control is very high (with) precast panels. The precast also provided the strength and durability that we needed for the project. Architecturally, the precast has a very nice look to it. It's nice and clean."

- Scott Shedek, Greater Orlando Aviation Authority



"We loaded the panels at the plant, and they are lifted off the truck on site with a crane and immediately flown into place and welded out," he said. "Very efficient, needing only a very small group of people (mostly welders, crane operators and safety professionals). There was very little impact to the site. We also don't leave behind any debris or trash of any kind, so the whole process is very clean."

The project required the coordination of shop drawings and site surveys to ensure a good fit once the panels were put in place. The precaster also left openings for door frames in some of the panels, and then completed the frame installation on site.

"There wasn't anything especially difficult about the precast production process, but the coordination that takes place between producing the panels and ensuring a good fit to the structure requires attention," Rouse said. "We had to make sure everything fit once it was delivered to the site, and that's where LEAP really added value to the project.

"We have had great success over the years utilizing LEAP and Associates services for these types of projects."

Leesburg Concrete Company is now working with Hensel Phelps on the second phase of the project, which currently is being engineered and will require about 160 precast panels.

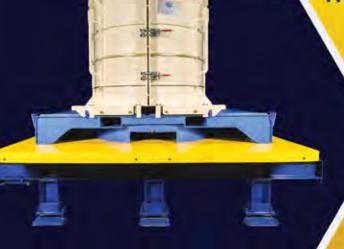
"We're just beginning that process now with Hensel Phelps, so they were obviously pleased with our work on the Terminal C project," Rouse said. "We were equally as pleased to have worked with them on this important project."





GCI AUTOMATED PRECAST SYSTEM

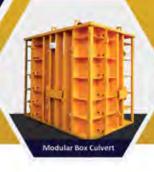
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INDUSTRY INFLUENCERS IS A QUARTERLY SERIES IN PRECAST TODAY MAGAZINE IN WHICH WE TALK WITH PEOPLE WHO ARE LOOKED TO FOR GUIDANCE AND ADVICE BY NPCA MEMBERS ACROSS GENERATIONS.



By Heather Bremer

Heather Bremer is the digital content director at NPCA.

Q. YOU CURRENTLY ARE THE EXECUTIVE DIRECTOR AT THE PRECAST CONCRETE ASSOCIATION OF NEW YORK AND VICE PRESIDENT OF CONCRETE ENGINEERING SOLUTIONS. HOW DID YOU GET STARTED IN THE PRECAST CONCRETE INDUSTRY?

A. Well, I didn't do it the easy way.

I was born and raised here in Binghamton, N.Y. I went to SUNY-Broome Community College for civil engineering and did not go on beyond that, except I did finish a business degree from Empire State College later on in life.

After community college, I started out on a nuclear plant in in Scottsboro, Ala., working for the Tennessee Valley Authority. I was doing prepour inspections on the construction site. I wasn't down there very long and came back to Binghamton. I did a few jobs here. I ended up going to work for U.S. Testing Corp on a nuclear plant near Cleveland, Ohio. I was actually on that project for seven years, from 1977 to 1984.

I eventually went from US Testing Corp to the on-site concrete supplier, National Mobile

> Ron Thornton worked 16 years for Delta Engineers, where he helped develop the specialty precast engineering group.

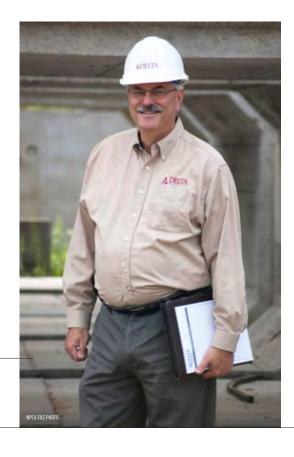


Concrete Corp. I became the QA site manager for the concrete production on the nuclear plant.

In 1984, I moved back to Binghamton and was working for a local ready-mix supplier. That wasn't working out very well, so I got a job with Binghamton Precast and Supply. That was my first job in the precast industry.

I worked for Binghamton Precast for 11 years, until 1997. I was the head of quality control and engineering. While there, we worked with a local engineer. Eventually, I went to work for that firm, Delta Engineers, to basically start a specialty precast engineering group.

We thought that there might be a market for



that type of specialty in the precast industry, and it turns out we were correct. That group, which is still a major member of NPCA, provides a lot of work for precasters all over the country.

I was able to get enough experience work experience to take the P.E. exam in 2000 and get my professional engineer's license in New York.

When I left Delta in 2013, my intent was to semi-retire, because I was asked to take over as the executive director of the Precast Association of New York. So I took that position plus my intent was to work part-time for another small firm called Concrete Engineering Solutions. At the time in 2013, there was two of us working part-time, and now, almost 10 years later, we've got seven full-time people doing specialty precast engineering.

The need for that continues to grow and continues to keep me busy, even at the ripe old age of 68.

Q. THE INDUSTRY INFLUENCER FEATURE IS DEDICATED TO INDIVIDUALS WHO HAVE MADE A DIFFERENCE THROUGH THEIR MANY CONTRIBUTIONS TO THE INDUSTRY. WHO CAN YOU POINT TO AS AN INFLUENCE IN YOUR CAREER?

A. A lot of it was my first opportunity of being in precast. Jay Abbey, the owner at Binghamton Precast, gave me an opportunity there. And then a fellow by the name of Ralph Verrastro. Ralph was the president of Delta Engineers when he brought me on. I brought the precast knowledge, and he brought the engineering knowledge and together we grew that precast specialty engineering group into something pretty substantial. Ralph was big influence on me and continues to be even though he's not at Delta anymore. We're still good friends.

There's a number of friends that I've made and people that I've gotten to know over the years, but I think those are probably two of the big ones.

Q. LOOKING BACK AT THE ENTIRETY OF YOUR CAREER, FROM THOSE EARLY DAYS AT BINGHAMTON TO DELTA AND NOW PCANY, WHAT DO YOU THINK ARE SOME OF THE MOST SIGNIFICANT ACCOMPLISHMENTS OF YOUR CAREER?

A. Well, I think it's building relationships with producers from around the country and clients. In my many years of this, I've kind of gained a bit of a reputation as someone that knows what they're doing.

I don't know of any major single accomplishment, but it's just being able to build a reputation and build relationships.

Q. YOU MENTIONED BEING THE EXECUTIVE DIRECTOR OF PCANY, WHOSE MEMBERSHIPS INCLUDES PRODUCERS, SUPPLIERS OF EQUIPMENT AND SERVICES AND PROFESSIONALS. WHAT DO YOU THINK IS THE VALUE FOR PRECASTERS TO JOIN ASSOCIATIONS LIKE PCANY?

A. These affiliate groups like state and regional associations seem to have two purposes.

One, and this is primary for the New York state group, is to have a single voice when working with the New York State Department of Transportation, which is where a lot of our members' work comes from. And, so, we're constantly working with them. We meet with them twice a year to go over their specifications and specs and requirements and things like that to try to work out issues. We find that the state authorities prefer working with a group rather than just individual producers. So that's one aspect of it.

And the other is, of course, marketing. New York does that primarily through a monthly newsletter that we get out to a lot of engineers, producers and others.

And, so, those are the two main drivers. And, of course, there's also networking. And one of the unique things about the precast industry is, even though they're competitors, they get together and talk and share things. It just makes the industry strong. A lot of industries just don't seem to take that approach. And I think it's unfortunate.

Q. YOU'RE A LONG-TIME MEMBER OF NPCA? WHAT ARE THE ADVANTAGES OF BEING INVOLVED IN THE ASSOCIATION?

A. From a business standpoint, when I started at Delta in 1997, that was my first The Precast Show, which was in Columbus. I haven't missed one since.

Ron Thornton is a frequent instructor at The Precast

Show, often speaking on highly technical aspects of

the precast concrete industry.

NO. A SER PARTITION

"In my many years of this, I've kind of gained a bit of a reputation as someone that knows what they're doing."

– Ron Thornton

We're able to network and meet so many people and basically develop a specialty engineering business that is still going strong today. Without attending and being involved in NPCA, people would not have known about us.

And, of course, I've developed a lot of good friendships. And my position at the New York association probably would not have happened if it weren't for my involvement in NPCA.

Q. YOU'RE OFTEN A SPEAKER AT NPCA EVENTS, INCLUDING A QUALITY CONTROL COURSE AT THE PRECAST SHOW 2023 IN COLUMBUS. WHAT DO YOU GET OUT OF DOING THAT, AND WHAT DO YOU HOPE THE PEOPLE YOU'RE SPEAKING TO GET OUT OF IT?

A. I get a lot of joy out of doing it. I actually enjoy teaching classes. And I always learn things when I do that because when I pick a topic and sometimes I've got to dig into it a little bit and create the class. I

tend to learn things from it as well. So, you never stop learning in this industry.

I certainly hope that my experience helps younger people and others in the group that can gain from my experience.

Q. YOU'VE SEEN A LOT OF CHANGES IN THE PRECAST CONCRETE INDUSTRY OVER THE COURSE OF YOUR CAREER. WHAT DO YOU THINK ARE SOME CHALLENGES OR OBSTACLES THAT THE INDUSTRY IS FACING RIGHT NOW? WHAT KIND OF OPPORTUNITIES DO YOU SEE AHEAD?

A. We used to be very concerned about competing materials such as plastics and composites. I don't think they've made as much of an inroads as what we expected years ago.

But I think the thing that the industry really needs to concern itself with now are the environmental issues. There's a lot of concern about cement usage and carbon content.

There's basically two ways as an industry we can attack that. One, of course, is by gaining as much knowledge about it



"My advice is to learn as much as you can, take advantage of the educational opportunities that are out there. Learn specifications, read the specifications. Get help when you need it."

- Ron Thornton

as possible. I know NPCA is putting out programs to bring that education to light.

The other thing is to really use it to our advantage.

I've often said that, if you want to use less cement, than you ought to be using precast because we can make our products with less concrete and get the same structural advantage and less waste. So really, there's a real advantage to using precast when the objective globally is to reduce carbon emissions.

We're also constantly looking for ways to use precast in more and more applications. When I first started in the industry back in the '80s, most structures were designed to be cast-in-place. So the big opportunity there was to try to convert cast-in-place objects to precast. There's a lot less of that now because now almost everything is specified with precast if possible.

Q. IF YOU WERE TALKING TO SOMEBODY WHO IS JUST STARTING OUT IN THE INDUSTRY, EITHER ON THE PRODUCTION FLOOR OR MAYBE LEADING THEIR OWN COMPANY, WHAT ADVICE WOULD YOU GIVE THEM?

A. My advice is to learn as much as you can, take advantage of the educational opportunities that are out there. Learn specifications, read the specifications. Get help when you need it.

That's really the best advice I can give anybody is to just learn as much as you can.



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LHV Precast

JIM AND BOB WILLIS ARE THE HEARTBEAT OF THIS UPSTATE NEW YORK COMPANY



By Joe Frollo

Joe Frollo is the director of communications and public affairs at NPCA.

Photos courtesy LHV Precast

LHV Precast was founded in 1979 by Richard and Clarice Willis, purchasing what originally was a satellite location for Lakelands Concrete Products. The Willis family started LHV with a trailer, a phone, a boom truck, a few forms and each other.

The family learned the precast concrete business by working with Lakelands Concrete, a Lima, N.Y., company owned by Clarice's cousin, Dick Clark.

"We grew up there as kids, basically," Bob Willis said. "It is quite a long family tradition. Jim and I spent many long, hard summers working in a precast facility, and we swore once we went to college, we would never work in this business again. Well, guess what happened?"

Jim Willis had big plans when he graduated from college in 1979. Richard had an idea as well.

"I got a call from the old man who told me to come down to Kingston and get started with the new facility," Jim said. "I told him, "Maybe.' He told me, 'Maybe you didn't hear me. Get down here.' I get there, and it's me and three other guys working outdoors behind a drive-in theater.

"I figured six months later, once we get all the people trained, I could go back home to Lima, but then I met a lot of great people, and I never left."

Bob Willis came on board in 1983 after a short stint working in Dallas. The business was growing quickly, and Richard needed experienced precasters to help. Who better than another son?

"Bob had gone off to start a construction company with his best friend," Jim Willis said. "Dad talked him into coming back to New York,



LHV Precast has grown from outdoor pouring to two manufacturing facilities on its property.



too, and here we all are."

Today, the two brothers co-own the company with Bob running sales and engineering, and Jim in charge of production and daily operations.

A COMMITMENT TO GROWTH

In 2018, LHV Precast began the process of designing a new plant to augment its manufacturing capability. The existing building was constructed in 1989 and offered 14,4000 square feet with a batch plant and aggregate and admixture silos. Attached to the building is a 3,600-square-foot carpenter shop used for custom wood and foam form construction along with hardware storage.

Construction started in June 2021, and the result was a building of 21,600 square feet with 40-foot floor-to-hook clearance for the two 25/10 ton overhead cranes.

The new plant also has a dedicated 3-yard batch plant manufactured by Mixer Systems. A boiler and water pressure system were added to ensure an ample water supply for the Mixer Systems mixer. The building was designed with four overhead rolling doors to allow full access for forklifts and trailers to the shop floor.

The total investment in the new plant, including some simultaneous investment in the existing plant, totaled more than \$3.5 million dollars. The company was committed to using American-made products and employed local contractors and professionals to complete the project.

The new plant was commissioned in February 2022 once New





Richard and Clarice Willis founded LHV in 1979, starting basically from scratch. The business continues today under the guidance of two of their sons, Jim and Bob.

York State DOT approval and NPCA certification were completed.

"We knew to compete with everyone else, we needed to have the right space and the right equipment," Bob Willis said. "And it's been a godsend. Just amazing. It has the space we need, and we are much more effective in this new building."

The work did not stop there. With the newfound efficiencies came the need for additional forms and fabrication equipment to keep processes moving. From the end of 2022 to the beginning of 2023, LHV acquired \$600,000 in new forms and mesh-bending equipment. The new equipment reduced the demand on labor for operations and allowed LHV to deploy employees elsewhere.

Upcoming plans for 2023 and 2024 include renovation of the older building with a new batch plant and further automation of forms and lifting systems.

On the delivery front, the company is acquiring a new boom truck with a 52,000-pound Palfinger boom. This will compliment other recent material handling purchases, including a 50-ton MiJack travel lift, 36,000-pound Taylor boom lift and 18,000-pound Taylor forklift.

The company has nearly 60 employees, including an administrative staff of nine, an operations and trucking crew of five, a fabrication team of eight and the rest in manufacturing and finishing.

PRODUCTS AND PROJECTS

LHV was born of major New York state investments, and the scale of its work has not slowed down much since.

While still an original satellite site for Lakelands, Richard

Willis headed up major projects at West Point and in the Bronx. Once independent, Richard and his sons continued to build off of those relationships.

The location in Kingston was perfect for speculating. The state capital of Albany is about 50 miles north, while New York City is just 100 miles to the south.

In fact, Richard Willis got his pilot's license

LHV manufactured the replacement of the culvert bridge on County Route 32 in Otsego County, N.Y. to be more efficient traveling between the two cities and their engineering offices.

In the modern, digital world, bidding on projects is much easier for Jim and Bob Willis. The company has always hung its hat on electrical vaults and box culverts. And since 2004, LHV has worked alongside Stone Strong to expand its retaining wall business.

"Those are our biggest lines and ones we want to keep coming in on a daily basis," Bob Willis said. "But we feel there isn't a project out there we can't handle. If an engineer can draw it up, we can produce it. We are not sitting back waiting for everyone to come to us. We go out and look for new challenges every day."

Among LHV's most notable projects:

- The production of 325 square feet of lagging wall panels, soldier piles and the east and west back wall abutments for the Long Island Railroad Cherry Valley Avenue Bridge in Garden City, N.Y.
- Two precast headwalls 20 feet long, 13 feet high and 2 feet thick with a 9-foot, 8-inch half round opening for the New Jersey Transit Roseville Tunnel rehabilitation project. These are supported by four 25-foot long precast concrete footings. The culvert is a total of 45 feet long and designed to support the trains above it. The culvert's appearance matches the original in keeping its historical identity.

- A 192-foot retaining wall replacement along the Saw Mill Parkway eastbound ramp to I-287. The project consists of 9,932 square feet of wall extending nine courses above grade. The wall is made up of 188 24-square-foot blocks, 65 6-square-foot blocks, three 9-square-foot corners and a 3-square-foot top block.
- A replacement culvert for Warren County, N.Y., DPW providing a bridge for Stoney Creek Road. The culvert bridge is a three-sided span arch 28 feet span with 10-foot rise over 45 feet in length. The sections were laid in nine 5-foot lengths. Additionally, four wing walls were produced for the ends.
- Removal and replacement of a retaining wall supporting the entry of a shopping plaza with the Pioneer Bank branch in Troy, N.Y. The project consisted of setting 1,941 square feet of Stone Strong Retaining Wall Block (149 blocks) covering the existing wall, which was deteriorating.
- The design, manufacture and delivery of five 20,000-gallon wastewater tanks for a wastewater treatment facility in Millstone, N.J.

BROTHERS IN PRECAST

Many siblings, especially those who work side-by-side for decades, become so familiar with each other that it is hard to tell them apart.

This arch is part of New Jersey Transit's rehabilitation of the Roseville Tunnel, restoring passenger rail service from Port Morris to a new station in Andover and eventually to Scranton, Pa. LHV Precast manufactured two headwalls 20 feet long, 13 feet high and 2 feet thick with a 9-foot, 8-inch round opening. These are supported by 25-foot long precast concrete footings.







This retaining wall supports the entry of a shopping plaza and consists of 1,941 square feet of Stone Strong Retaining Wall Block in Waterford, N.Y.

Not so for the Willis brothers.

"We could not be more different as individuals," Jim Willis said. "Bob is quiet, very involved in his church. I am, to put it simply, not those things."

But it works.

The two brothers have different approaches to life but one mind when it comes to business. Their goal is to build a culture of quality and customer service that keeps concrete pouring.

"The driving force behind everything we do is two brothers who very much care for each other and for the men and women who work here," said John Klassen, LHV's chief financial officer. "Bob handles the estimating, the sales and the engineering. Jim is the whirling dervish with his sleeves rolled up who keeps projects moving and schedules on time."

Klassen has a commercial bank background and knew little about precast concrete when he joined LHV three years ago. What he does understand is efficiency and finance.

"We've made a \$4 million investment over the last two years in equipment," Klassen said. "New forms. New rebar capabilities. New product lines. And the new building, obviously.

"But we also invest in our people every day. We pay a good wage and provide strong benefits. That helps lessen the turnover and allow us to always be moving forward."

LHV has been run by the Willis family for 40 years, and neither Jim nor Bob see that changing any time soon.

But as both Jim and Bob Willis look to the future, it includes LHV and the business they have grown up in.

"We want to keep growing the business," Bob Willis said. "We are always looking for another product line, another solution we offer. Because when it comes right down to it, people know the skill that we bring to projects, and we are in a good position to keep doing what we do."





ROBUST

24SF block reduces labor costs and installation time. At 10,000lbs, its sheer size and weight provides structural strength without the need for tie-backs or additional mechanics.

PROVEN

Fully engineered both structurally and geotechnically, Stone Strong utilizes its cutting-edge system to consistently tackle today's industry challenges with unmatched safety, durability and aesthetics.

EFFICIENT

The system's unique hollow design means less weight per square foot, reduced transportation cost and a much faster, easier, and less costly installation. Install 1500SF of block a day with just a three man crew.

INNOVATIVE

Stone Strong delivers intelligent retaining wall solutions with gravity configurations capable of heights in excess of 50 feet. MSE walls are capable of heights greater than 70 feet.











What does a \$3.9 billion roadway project look like? Significant manpower, high levels of planning and a dedicated team all are baked into the recipe.

But for the Hampton Roads Bridge-Tunnel (HRBT) Expansion, which represents the largest highway construction project in Virginia's history, there's another critical component involved in seemingly every facet of the effort.

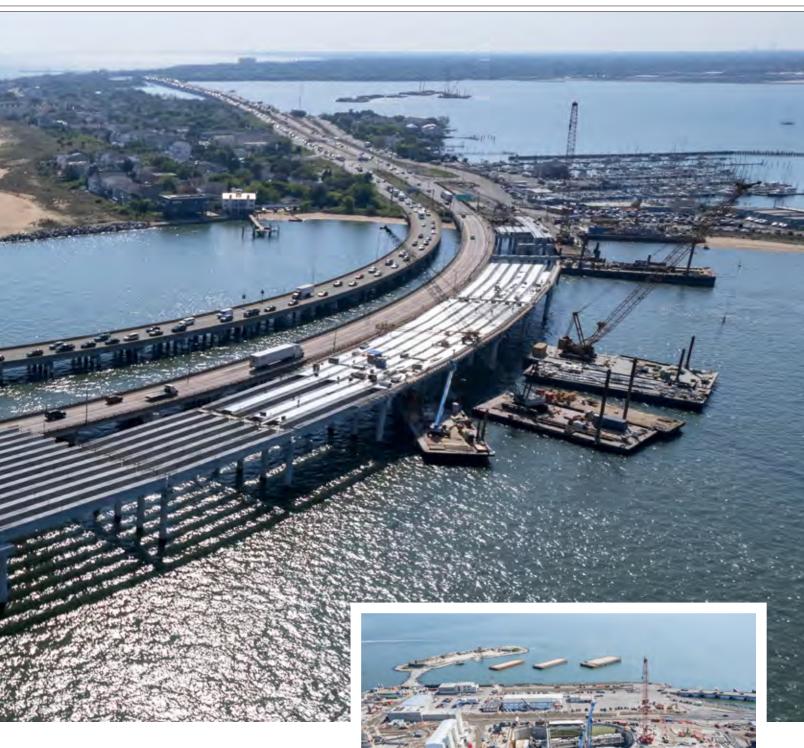
"Precast concrete is being used on everything we're touching," said Ryan Banas, associate vice president for HNTB Corporation and project director for the Virginia Department of Transportation. "You can't go 100 yards without running into some type of precast on our project."

A TRANSFORMATIVE ENDEAVOR

The HRBT Expansion project will widen nearly 10 miles of Interstate 64 between Hampton and Norfolk on Virginia's eastern coast. Work includes the construction of two new twin-lane tunnels along with the replacement or widening of 28 bridges in an area that consistently experiences heavy roadway congestion.

VDOT owns the project with Hampton Roads Connector Partners, a joint venture consisting of several large-scale firms, serving as the design-build team.

According to Banas, the HRBT has long been one of the region's biggest chokepoints. Traffic exceeds 100,000 vehicles per day during peak summer months. This high level of congestion results



from a combination of factors.

The world's largest naval station, Naval Station Norfolk, is immediately adjacent to the project. In addition to supporting 75 ships and more than 130 aircraft, Naval Station Norfolk houses the largest concentration of U.S. Navy forces, bringing ample traffic into the area.

Additionally, summer brings heightened tourism to Hampton Roads as travelers visit beaches dotting the coastline.

Ed Plucinski, south Mid-Atlantic sales manager for Concrete Pipe & Precast, a precast supplier on the

Virginia is spending \$3.9 billion to repair, replace or upgrade 28 bridges and some major tunnels in its Hampton Roads area. Multiple NPCA members are producing precast concrete projects for this ongoing endeavor.



project, has lived in the area for more than 30 years.

"People that live on the peninsula don't go to the south side, and the people that live on the south side don't go to the peninsula – unless you have to," he said. "The roadway is basically a parking lot in its current state."

Construction is underway on the project, which will generate wide-ranging benefits in Hampton Roads upon its completion.

According to Banas, in addition to increasing capacity and reducing congestion, the HRBT expansion will enhance travel time reliability, support emergency evacuation readiness and boost regional tourism.

The HRBT Expansion also is anticipated to generate \$4.6 billion in economic benefit and create 28,000 jobs over the life of the work.

"This project is going to be absolutely transformative," he said. "With the additional four lanes total, two in each direction, we are doubling our capacity. That's a massive improvement to daily lives."

TUNNEL-MAKING HISTORY

A major focal point of the project involves the construction of twin two-lane tunnels adjacent to the existing Hampton Roads Bridge Tunnel. To build the tunnels, the project team has deployed a massive, 46-foot-tall tunnel boring machine provided from Germany. The machine, which is longer than a football field, uses its rotating face to bore through the ground, then installs the precast concrete segments that make up the tunnel's structure.

To help preserve the integrity of the original tunnels, take advantage of the best possible ground structure and keep the project team out of the navigable channel, the new tunnels will be constructed 50 feet deeper than the existing tunnels on the site.

According to Banas, the tunnel segments, which are being manufactured by Alexandria, Va.-based supplier Technopref



Technopref is producing more than 21,000 precast segments for the 2,400 rings to be used in the Hampton Roads project. This amounts to 120,000 cubic yards of precast concrete.





Concrete Pipe & Precast is supplying more than 33,000 feet of reinforced concrete pipe and 4,000 feet of precast trench drain for the Hampton Roads project in Virginia.

Industries, measure 15 feet wide by 6 feet, 8 inches long. Each segment is 18 inches thick and weighs 12 tons.

The HRBT Expansion project represents VDOT's first-ever use of a bored tunnel with precast concrete segments. And while the twin tunnels

cover only 3 miles of the project's 10-mile span, they require a massive amount of precast.

Louis Charette, general manager for Technopref, noted that nine precast segments make up one ring and that 2,400 rings will be required to complete the work. In total, Technopref will manufacture 21,600 segments containing about 120,000 cubic yards of concrete.

"It's a huge tunnel," Charette said. "Worldwide, it's among the largest in terms of diameter. Because of the length and size, it's the single largest precast tunnel manufacturing job in the history of the U.S."

To meet VDOT's stringent standards, which specified a 100-year service life for the tunnels and other components on the project, Technopref is producing the precast segments using high-performance concrete with a low water-cement ratio, low permeability and high-range water reducer.

The company also is manufacturing its products within extremely strict tolerances to ensure watertightness across both tunnels.

The Virginia Department of Transportation is using precast concrete to support more than 3 miles of tunnels.

Banas has been impressed with Technopref's quality of work and the technology being leveraged.

"The work that they've done on the testing, the new methodology and the steel fiber reinforcement they are using are all cutting-edge for the U.S.," he said.

MUCH MORE THAN A TUNNEL

While the tunnels have taken the spotlight on project work to date, a wide variety of additional precast products are key to













making the HRBT Expansion possible.

"This is an immense amount of roadway widening taking place through a highly urban area, which presents inherent challenges," Banas said. "Precast helps us out significantly with that."

Coastal Precast Systems of Chesapeake, Va., is a major supplier on the job, providing approximately 1,000 54-inch outside diameter cylinder piles and 200 24-inch outside diameter square piles for the marine portion of the project.

The company also is manufacturing more than 1,000 precast beams for the extensive bridge work taking place.

According to Paul Ogorchock, CPS president and CEO, the beams and piles are being made with carbon fiber strand, which extends the already considerable service life of each product.

Beyond the large number of precast being supplied, CPS also is helping Technopref on its portion of the project work. Technopref is using CPS property to manufacture and stage the project's tunnel segments. When the work is completed, around 120 barge-loads of the precast segments will ship to the tunnel site.



Smith-Midland is producing approximately 170,000 square feet of absorptive sound wall for the Hampton Roads project.

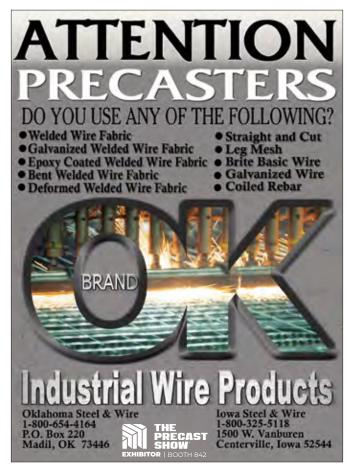
Elsewhere, Smith-Midland of Midland, Va., is producing approximately 170,000 square feet of absorptive sound wall.

The wall, which uses Smith-Midland's SoftSound system, is being installed along about 1.5 miles of the project, primarily to reduce noise pollution in areas with higher concentrations of homes and businesses. The panels feature a Virginia dry stack stone finish with starfish and warship imprints.

The Smith-Midland team used a special formliner to make the wall's unique design possible.

Smith-Midland also is providing 55,000 linear feet of J-J Hooks Barriers, the company's specialized precast concrete safety barrier solution, to help manage traffic flow throughout construction on the project.

Additionally, the company is manufacturing 114,000 square







Manufacturing and installation is ongoing for the Hampton Roads project, a \$3.9 billion investment in Virginia's eastern coast.

feet of precast MSE retaining wall that features a stone finish along with ChromX, a corrosion-resistant rebar.

Matthew Smith, vice president of sales and marketing at Smith-Midland, is proud of the contributions his team is providing to the HRBT Expansion.

"Working on this project means a lot, especially when I think about all the people who get stuck in traffic every day commuting back and forth to work in the Hampton Roads area," he said.



"Being part of the effort to reduce congestion at the tunnel is truly gratifying."

Concrete Pipe & Precast will supply more than 33,000 linear feet of reinforced concrete pipe ranging anywhere from 12-inch inside diameter to 60-inch inside diameter. CP&P also is producing roughly 4,000 linear feet of precast trench drain – more than 600 percast structures in all.

The company is leveraging four of its locations throughout the region to manufacture and deliver all the products to the project site.

And, like Smith-Midland, CP&P is manufacturing some of its products using special methods. The RCP being installed on the project contains an epoxy coating on the interior of the pipe. The intent is to ensure longevity due to the pipe's location within a tidal area.

"Knowing that our products are under and adjacent to the major corridors of Hampton Roads is incredibly important," Plucinski said. "It brings our employees a sense of pride being involved in a project of this scope – the generational importance of the work means a lot to them."

FAR-REACHING IMPACT

Thanks in large part to the use of a wide assortment of precast concrete products, the HRBT Expansion project is slated to improve the lives of hundreds of thousands of travelers in the region when work is completed. From MSE walls to RCP, sound walls, piles, beams, girders and tunnel segments, precast is everywhere within the work taking place, along with impressive technology that makes the project a historic one for both Virginia and the U.S.

"VDOT's mission is to 'Keep Virginia Moving,'" Banas said.
"Every single one of us uses this facility, so we are acutely aware of the challenges it currently faces. To know that we are going to make the lives of our neighbors and others throughout the commonwealth better is an amazing feeling.

"It puts a smile on my face to know that we have the opportunity to do this."



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GRUBBE TALKS PRECAST CONCRETE ON CAPITOL HILL

Former NPCA President and CEO Fred Grubbe in May traveled to Washington, D.C., to meet with congressional members and staff on Capitol Hill and at FEMA to advance the interests of the precast concrete industry.

Discussions centered around workforce development, legislative and private sector initiatives, Buy America, labor agreements and the implementation of the Infrastructure Investment and Jobs Act. Grubbe also shared how precast concrete's resiliency and sustainability are ideal for projects designed to combat weather- and climaterelated disasters.

Individual meetings were held with U.S. Rep. Burgess Owens (R-Utah), chairman of the Higher Education and Workforce Development Subcommittee, and staff members from the following offices:

- ▶ Susan Bonamici (D-Ore.)
- Lori Chavez-DeRemer (R-Ore.)
- Virginia Foxx (R-N.C.)
- Sam Graves (R-Mo.)
- Lucy McBath (D-Ga.)
- ► G.T. Thompson (R-Pa.)
- Sharrod Brown (D-Ohio)
- Lindsay Graham (R-S.C.)
- Rick Scott (R-Fla.)
- ▶ FEMA assistant administrator Pamela Williams

Senior staff member of the Senate Committee on Environment and Public Works Lauren Baker said precast concrete's adaptability is ideal for federal project specifications, and with 693,000 manufacturing jobs open across the United States, it is imperative that people be trained and encouraged to fill those positions.



Former NPCA President and CEO Fred Grubbe (right) met with U.S. Rep. Burgess Owens (R-Utah) as part of a trip to Washington, D.C., to discuss precast concrete and advocate for workforce development on the federal level.

NPCA is working through staff and its members to address these concerns, but support also is needed from the federal government through legislation and policy initiatives.

58TH ANNUAL CONVENTION

NPCA staff members are working diligently toward another great Annual Convention, this time in Oklahoma City.

Join us as the 58th NPCA Annual Convention brings together company owners and top-level managers for association business, executive training and a look into the future. In addition to a top-flight educational program, the event includes the exhibit hall, committee meetings, special networking events, awards presentations, the election of new officers and the Closing Celebration.

Register for the event and book your hotel at Precast.org/Convention.

NPCA COMMITTEES

The NPCA Board of Directors during its Spring Board Meeting adopted terminology for committees that define each committee's charge and scope. The Board also updated the committee membership policy to provide more flexibility for member participation.

Changes include the opportunity to expand membership, removal of term limits and added opportunities for Associate members to chair committees. The goal of these changes is to allow more members to participate on committees in ways that suit their skill sets and interests.

The Board also approved the creation of a vice chair position for each committee. This position is presented to the Chair-Elect for approval.

The new committee calendar sets the final meeting of a committee's term and the first meeting of the new term simultaneously at the Annual Convention. The intent is for committees finishing up their business for the year to share that information with the incoming committee.

Finally, the Board approved the formation of the Alternative Materials Advisory Council, which joins the Research and Development Advisory Council as a special workgroup that reports directly to the Board. The Alternative Materials Advisory Council will address challenges presented by alternative materials such as plastic, steel and wood, as well as identify opportunities to showcase precast concrete's benefits over such materials.

NPCA FOUNDATION SCHOLARSHIP WINNERS

For more than three decades, the NPCA Foundation has provided educational scholarships to students enrolled in civil engineering,







Madelyn Heckert



Alexis Hider



Cheyenne Wimsatt



Rashida Wilson

architectural and construction-related curricula. Undergraduates are eligible to receive up to \$20,000, while the Daneen S. Barbour Graduate Scholarship is a one-time award of \$5,000.

Here are the NPCA scholarship winners for 2023:

UNDERGRADUATE SCHOLARSHIPS

- ▶ **German Laiton**, Olivet Nazarene University. Civil engineering and architectural engineering. Sponsored by Concrete Sealants.
- ▶ **Madelyn Heckert**, Portland State University. Civil engineering. Sponsored by Oldcastle Infrastructure.
- ▶ **Alexis Hider**, Rowan University. Civil engineering. Sponsored by Northeast Precast.
- **Hans Stelpflug**, University of Wisconsin-Stout. Construction. Sponsored by Wieser Form Fabrication.
- **Cheyenne Wimsatt**, University of Louisville. Civil engineering. Sponsored by S&M Precast.

DANEEN S. BARBOUR GRADUATE SCHOLARSHIP

Rashida Wilson, Louisiana State University. Construction science. Sponsored by ALP Supply.

CONCRETE CANOE

NPCA and its staff helped bring another successful Concrete Canoe to life, this time at the University of Wisconsin-Platteville.

The ASCE Concrete Canoe National Competition provides students with an opportunity to gain hands-on practical experience while testing their skills with concrete mix designs and project management skills. Known as the "America's

Cup of Civil Engineering," the competition began in 1988 and combines engineering excellence, hydrodynamic design and racing technique.

NPCA Director of Outreach and Technical Education Claude Goguen served as the lead judge, and NPCA provided 10 \$500 scholarships to teams to help offset construction costs. Joining Goguen in Platteville were Vice President of Operations and Governance Marti Harrell along with Education and Workforce Development Manager Andi Pierce.

The NPCA Foundation was an event sponsor, and the Foundation Board met during the weekend.

The top-five finishers at this year's event were:

- 1. Cal Poly-San Luis Obispo
- 2. Youngstown State
- 3. Florida
- 4. Laval (Canada)
- 5. Western Kentucky

Cal Poly-SLO entered as the event's defending champion, earning the school's seventh overall victory.

> NPCA Director of Outreach and Technical Education Claude Goguen inspects entries in the ASCE Concrete Canoe National Competition. Goquen served as the lead judge.

NPCA ON THE ROAD

ACI SPRING CONVENTION San Francisco – April 1-5

Goguen and Director of Technical Resources Hugh Martin, P.E., participated in various committees and attended meetings to remain informed on

developments that affect the precast concrete industry.

Goguen moderated a two-hour session titled. "An Overview of ACI 350 Code Changes for Environmental Engineering Concrete Structure," that included presentations on the code changes. Goguen is a member of ACI E702 Designing Concrete Structures Committee.

The pair also used this opportunity to network with other engineers, contractors, educators, manufacturers and material representatives.

PRECAST CONCRETE OF VIRGINIA ANNUAL MEETING Richmond, Va. - May 1-4

Senior Director of Membership and Regulatory Services Chris Frederick and

Goguen were invited to attend the

NPCA Affiliate member's annual meeting, which helped mark the group's 30th year as an association.

Goguen spoke on **Environmental Product** Declarations, and Frederick updated the more than 40 PCAV members on NPCA's work within the industry.

AMERICAN SOCIETY OF HIGHWAY ENGINEERS Atlanta - June 7-11

Vice President of Marketing and Communications Tom Rodak joined Frederick at the ASHE National Conference. NPCA's exhibit promoted the benefits of precast concrete in transportation and highway applications.

Rodak and Frederick met with ASHE engineers to help them promote a safe, efficient and sustainable transportation system.

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For possible inclusion, send your press releases and photos to jfrollo@precast.org.



Ed Hatcher

HATCHER RETIRES FROM HIAB USA

Hiab USA recently announced the retirement of Ed Hatcher, its product support specialist. Hatcher had been with

Hiab for more than 29 years, including sales, service and product support, with an extensive background in articulated cranes and almost 40 years in the industry.

Hatcher served on the NPCA Safety Committee. He also was one of the founding members of the Articulating Crane Council of North America and served as president during the time of the National Commission for the Certification of Crane Operators Task Force, which developed the certification program for articulated crane operators.

ECC ACQUIRES MARKS METAL TECHNOLOGY

Environmental Containment
Corporation recently acquired Marks
Metal Technology, a metal fabricator
based in Clackamas, Ore. ECC, which
announced its formation in October
2022 as a collaboration between Superior
Concrete and National Precast, will
maintain the staff and operations in the
company's 49,000-square-foot facility in
the heart of the Portland, Ore., market.

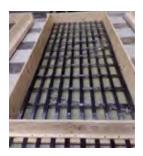
ECC offers stormwater containment

products with cast-in-place detention vaults, precast ponds and precast vaults. Its Hybrid Vault solution also includes complete, permit-ready sealed structural drawings and calculations, manufacturing, delivery and final site installation.

NORTHEAST PRECAST CHANGE IN LEADERSHIP

Northeast Precast announced that several long-standing employees have accepted new leadership positions, effective June 1.

Owners John and Lorie Ruga are now CEO and COO, respectively. Mark Gorgas has stepped into the position of president. Justin Wigglesworth was promoted to vice president. Previously, Wigglesworth had led field operations and steel fabrication with a hand in plant operations.



WEAV3D OFFERS LIGHTWEIGHT, COMPOSITE LATTICE

Atlantabased WEAV3D Inc. has developed

a composite reinforcement lattice that is one-tenth the weight of 10-meter steel rebar. WEAV3D lattices are resistant to corrosion and provide reinforcing performance. Testing was conducted in collaboration with structural engineering firm Entuitive and a university partner. The resulting data showed the ability of slabs reinforced with WEAV3D lattice to exceed the strength of slabs reinforced with steel rebar.

Other construction and infrastructure applications for WEAV3D reinforcement lattices include double tees, cable trench systems, underground drainage inlets and catch basins, utility enclosures and vaults, enclosure lids and manhole covers.

CARBONCURE'S MONKMAN RECEIVES ACI FOUNDATION INNOVATION AWARD

CarbonCure Technologies Senior Vice President of Technology Development Dr. Sean Monkman was awarded the Jean-Claude Roumain Innovation in Concrete Award at the ACI Concrete Convention in San Francisco. The award recognizes individuals who have contributed to original developments in concrete production or have used concrete in innovative ways to contribute to a sustainable built environment.

Monkman has spent more than 25 years working in concrete materials, including 15 years researching and advancing carbon utilization and mineralization technologies at CarbonCure, developing numerous patents and peer-reviewed articles. Under his leadership, the CarbonCure R&D team enabled the transformation of CarbonCure's ready mix technology into a commercial product now used in hundreds of concrete plants

worldwide to support sustainability and improved profitability through cement reductions.



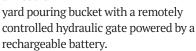
TAYLOR MACHINE WORKS ANNOUNCES ELECTRIC FORKLIFT

Taylor Machine Works recently released its 36,000-pound ZH-360L heavy-lift electric truck.

The ZH-360L is powered by permanent magnet synchronous electric motors and American manufactured NMC batteries. It also features an advanced E-axle that utilizes regenerative braking to assist with battery recharge during operation. It can lift 36,000 pounds on a 48-inch loadcenter and operate uninterrupted through an average duty-cycle eight-hour shift. Recharge time is 1½ hours.

BESSER INTRODUCES POURING BUCKET MODEL

Besser Company recently introduced a 2-cubic-



The pouring buckets are built with a lightweight construction to allow for easier handling and easily can be handled with a crane or a forklift. Three discharge options are available: manual, pneumatic and hydraulic, which can be operated via remote.

MONARCH BRANDS JOINS HOSPECO BRANDS GROUP

Hospeco Brands Group recently announced a merger with Monarch Brands, wholesalers and manufacturers of microfiber, commercial laundry linen, institutional textiles and wiping products. The move expands Hospeco Brands Group's offering of wiping solutions and microfiber.

Established in 1947, Monarch Brands is headquartered in Philadelphia and delivers textiles from manufacturers located in Asia, Europe and Central America. All key management and sales staff will remain with Monarch Brands.



Ann Branham

EMH PROMOTES BRANHAM TO NATIONAL SALES MANAGER

Engineered Material Handling has promoted Ann Branham to national sales manager. Branham

leads a sales team that is responsible for handling, processing and releasing all standard equipment orders to production.

Branham's responsibilities include quoting new equipment projects as well as managing and overseeing customer service and order processing.

Branham has worked for EMH since 1994. She has experience in installation and service, electrical assembly and control panel wiring. She held positions as sales and customer service associate and inside sales manager prior to her promotion.

ALL ADDS 9 TADANO RTS

The ALL Family of Companies is adding nine rough terrain cranes to its rental fleet. The new RTs from Tadano range in capacities from 35 tons to 80 tons. Included in the package are two 35-ton GR-350XL, four 55-ton GR-550XL, and three 80-ton GR-800XL-4.

All are two-axle machines for maximum maneuverability and efficiency. The five-

section, full-power telescoping booms allow for multiple tasks while maximum boom lengths start at 101.7 feet for the 35-ton units, go up to 113.9 feet for the 55-ton and 154.2 feet for the 80-ton cranes.

HOLCIM US HELPS REDUCE CARBON COUNT

Holcim US's ECOPact low-carbon concrete is being used extensively in the Denver, Colorado Springs and Pueblo markets, bringing a reported 39% drop climate-changing carbon emissions, 11% of which are attributed to the embodied carbon of materials and construction.

Studies have shown that compared to standard concrete, ECOPact can reduce embodied carbon of building materials by 30% to 90%.



Barry Bauer



Steve Draginis



Shawn Vickers

AFINITAS FORMS ACCESSORIES SALES DIVISIONS

Barry Bauer will lead Afinitas' new sales team as the vice president of sales for forming/concrete accessories. Bauer joined Afinitas in late April, bringing considerable experience from his time at Forterra (now Rinker) where he served as vice president of commercial and national director of sales for Bio Clean. Bauer previously worked for Oldcastle Stormwater Solutions and **Foley Products** Company.

Afinitas also welcomed two new sales managers

to the forming/concrete accessories sales team: Steve Draginis and Shawn Vickers.

Draginis will handle the Upper Midwest region and brings more than 20 years of experience in the construction and contracting markets.

Vickers worked for Amifast since 2006. At Amifast, he worked in a number of areas, including sales, operations and product sourcing.



COMBILIFT PREMIERES COMBI-CUBE

Combilift recently debuted its newest forklift, the COMBi-CUBE,

an electric model that enhances handling and offers additional driver comfort.

The driver's position in the center of the

cab offers enhanced room, visibility and a telescopic, adjustable steering column. Combilift's large rear wheel and rubber tires also give it grip in about any terrain.

SKAKO CONCRETE MOVES TO PENNSYLVANIA

SKAKO Concrete recently moved its U.S. headquarters from San Diego to Allentown, Pa., placing it closer to its North American customer base.

The transition also moves operations closer to the European headquarters, strengthening the company as a whole because of reduced time differences, said Scott Zolotsky, director of operations at SKAKO Concrete.

MASTER BUILDER SOLUTIONS NAMES CHRISTENSEN PRESIDENT

Dr. Bruce J. Christensen was named

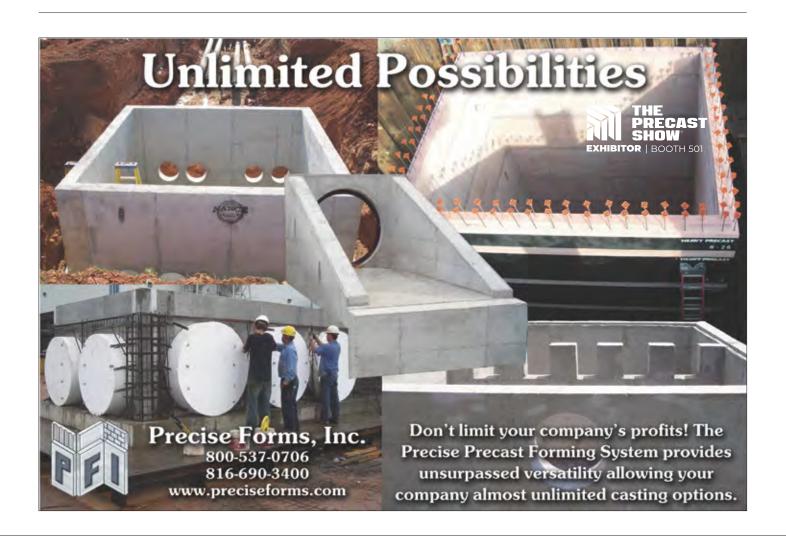


Bruce Christensen

President of
Master Builders
Solutions in the
United States
and Canada. He
succeeds Brian
Denys, who
was the former
President of MBCC
Group Americas.
Christensen

has spent 30 years working in various functions within the company in North America, Asia and Europe. He most recently held the role of senior vice president of business management, where he led the commercial side of the admixtures business.

Christensen has a Ph.D. in materials and engineering from Northwestern University.



Calendar of Events





OCT. 12-14, 2023 **NPCA 58th ANNUAL** CONVENTION

Omni Oklahoma City Hotel Oklahoma City, Okla.



FEB. 8-10, 2024 THE PRECAST SHOW 2024

Colorado Convention Center Denver, Colo.



SEPT. 26-28, 2024 **NPCA 59th ANNUAL CONVENTION**

JW Marriott Tucson Starr Pass Resort & Spa Tucson, Ariz.

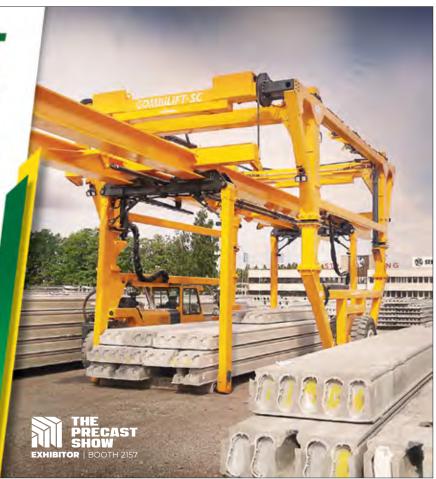


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Round Base Chairs 1.5" - 2", 2.5" - 3", 3.5" - 4" & 5" - 5.5"



Mesh Chairs 1", 1.5", 2" & 3"



Stackable Bolsters (44") .75", 1", 1.25", 1.5", 1.75", 2", 2.25", 2.5", 2.75", 3", 3.5", 4", 4.5" & 5"



Beam Bolster Uppers (44") 1", 1.5", 2", 2.5", 3", 3.5", 4", 4.5" & 5"

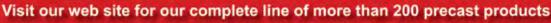


X-Chairs 0.5", 0.75", 1", 1.5" & 2"



Pyramid Wire Clips 0.75, 1", 1.25, 1.5" & 2"







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Buyer's Guide

LOOKING FOR SUPPLIES AND EQUIPMENT?
YOU'VE COME TO THE RIGHT PLACE. THIS
BUYER'S GUIDE PROVIDES A COMPREHENSIVE
LIST OF SUPPLIERS OF THE PRODUCTS AND
SERVICES USED BY PRECAST CONCRETE
MANUFACTURERS.

SUPPLIERS

An alphabetical listing of NPCA Associate members begins on the following page. Use this section to view all products and services offered by each company.

PRODUCTS

To search for a specific product, please turn to page 105 to find the companies that offer that product.

Many of these companies will be exhibiting at The Precast Show 2024, scheduled for Feb. 8-10, 2024, in Denver. Whether or not you plan to attend The Precast Show, you also can find a complete list of products and services on NPCA's website at precast.org. Just click on the link labeled "Find Precast Products & Supplies" and select "Supplier." Then select a product from the dropdown menu for a complete list of NPCA Associate members offering that particular product along with contact information and website addresses.

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| Chemicals | 108 |
| Concrete Accessories | 110 |
| Concrete - Raw Materials | 113 |
| Consulting Services | 114 |
| Delivery Equipment | 114 |
| Forms/Molds | 114 |
| Franchisor/Licensor of Product Systems | 117 |
| Gaskets/Sealers | 117 |
| Hollow Core Equipment | 118 |
| Management Tools & Other Services | 118 |
| Masonry Wall Material and Accessories | 121 |
| Material Handling | 121 |
| Plant Equipment | 122 |
| Reinforcement | 127 |
| Safety Equipment | 128 |
| Software Services | 129 |
| Surface Preparation | 129 |
| Systems | 129 |
| Testing Services | 130 |
| Veneer | 130 |
| Wire Processing Equipment | 130 |

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MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
R-E-D Industrial Products LLC, Grove City, PA
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ

MIC Protection

AS3 Precast Sales LLC, Lexington, KY Chryso Inc., Rockwall, TX Concrete Sealants Inc., Tipp City, OH MAPEI Corporation, Deerfield Beach, FL Master Builders Solutions, Cleveland, OH Penetron, East Setauket, NY RussTech Inc., Louisville, KY Xypex Chemical Corp., Richmond, Canada

Other Admixtures - Chemical

Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Euclid Chemical Co., Cleveland, OH
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Omya Inc., Cincinnati, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
R-E-D Industrial Products LLC, Grove City, PA
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Specification Products Inc., Noblesville, IN
Trinic LLC, Kirkwood, NY
Wagman Metal Products Inc., York, PA
Xypex Chemical Corp., Richmond, Canada

Set Retarding Admixtures

Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Euclid Chemical Co., Cleveland, OH
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Trinic LLC, Kirkwood, NY

Strength Enhancing Admixtures

APM LLC, Ottawa, IL Blue Fiber Group Inc., Newark, DE Chryso Inc., Rockwall, TX Concrete Sealants Inc., Tipp City, OH MAPEI Corporation, Deerfield Beach, FL Master Builders Solutions, Cleveland, OH Nycon Corp., Bristol, PA R-E-D Industrial Products LLC, Grove City, PA Trinic LLC, Kirkwood, NY Wagman Metal Products Inc., York, PA

Superplasticizing Admixtures

Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Euclid Chemical Co., Cleveland, OH
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
Russ Tech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Smooth-On Inc., Macungie, PA
Trinic LLC, Kirkwood, NY

Viscosity Modifying Admixtures

APM LLC, Ottawa, IL
Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Concrete Sealants Inc., Tipp City, OH
Euclid Chemical Co., Cleveland, OH
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Trinic LLC, Kirkwood, NY

Water Reducing Admixtures

Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Euclid Chemical Co., Cleveland, OH
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Premiere Concrete Admixtures LLC, Pioneer, OH
Russ Tech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Trinic LLC, Kirkwood, NY
Wagman Metal Products Inc., York, PA

Admixtures - Mineral

Concrete Robotics GmbH, Kassel, Germany Haarup North America Inc., Ridgefield, WA MAPEI Corporation, Deerfield Beach, FL Master Builders Solutions, Cleveland, OH Omya Inc., Cincinnati, OH R-E-D Industrial Products LLC, Grove City, PA RussTech Inc., Louisville, KY Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA

Abrasives

Abrasives Inc., Glen Ullin, ND Cyclonaire, York, NE R-E-D Industrial Products LLC, Grove City, PA TruAbrasives by Strategic Materials, Holmes, PA

Fly Ash

Cyclonaire, York, NE
Eco Material Technologies, South Jordan, UT
Eco Material Technologies, Taylorsville, GA
Ozinga Cement, Mokena, IL
R-E-D Industrial Products LLC, Grove City, PA
Separation Technologies LLC, Flemington, WV
Specification Products Inc., Noblesville, IN

Ground Granulated Blast Furnace Slag

Cyclonaire, York, NE Ozinga Cement, Mokena, IL R-E-D Industrial Products LLC, Grove City, PA

Metakaolin

Chryso and GCP, Alpharetta, GA Master Builders Solutions, Cleveland, OH R-E-D Industrial Products LLC, Grove City, PA Sika Corporation, Lyndhurst, NJ Trinic LLC, Kirkwood, NY

Other Admixtures - Mineral

Blue Fiber Group Inc., Newark, DE
Buzzi Unicem USA, Carmel, IN
Chryso and GCP, Alpharetta, GA
Concrete Robotics GmbH, Kassel, Germany
Master Builders Solutions, Cleveland, OH
Omya Inc., Cincinnati, OH
R-E-D Industrial Products LLC, Grove City, PA
RussTech Inc., Louisville, KY
Smooth-On Inc., Macungie, PA
TruAbrasives by Strategic Materials, Holmes, PA
Wagman Metal Products Inc., York, PA

Silica Fume

Chryso and GCP, Alpharetta, GA
Chryso Inc., Rockwall, TX
Eco Material Technologies, Taylorsville, GA
MAPEI Corporation, Deerfield Beach, FL
Master Builders Solutions, Cleveland, OH
Ozinga Cement, Mokena, IL
R-E-D Industrial Products LLC, Grove City, PA
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Trinic LLC, Kirkwood, NY

Batching Equipment

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH Columbia Machine Inc., Vancouver, WA EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA IMER Group, Southlake, TX IntelliBatch by Egan Company, Champlin, MN J. McCoy Equipment Ltd., Port Perry, Canada Jonel Engineering, Fullerton, CA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Standley Batch Systems Inc., Cape Girardeau, MO Texaloy Foundry, Floresville, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Walter Cleaning Systems USA Inc., Charlotte, NC

Aggregate/Water Heating & Concrete Curing

Advanced Concrete Technologies Inc., Greenland, NH
CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom
EquipPro Distributors LLC, New Braunfels, TX
IntelliBatch by Egan Company, Champlin, MN
Kraft Curing Systems Inc., Fairless Hills, PA
Mixer Systems Inc., Pewaukee, WI
PA-PO Industrial Systems LLC, New Braunfels, TX
Pathfinder Systems, Holland, MI
Polarmatic Ltd., Cincinnati, OH
SIMEM America Corp., San Antonio, TX
Sioux Corporation, Beresford, SD
Standley Batch Systems Inc., Cape Girardeau, MO
Tecwill Canada Inc., Toronto, Canada
Voeller Mixers, Port Washington, WI

Batch Plants

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Clearstream Wastewater Systems Inc., Lumberton, TX Cleco Manufacturing, Hudson, NH Columbia Machine Inc., Vancouver, WA Concrete Robotics GmbH, Kassel, Germany Del Zotto Products Inc., Wrenshall, MN Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA IMER Group, Southlake, TX Industrial Services International LLC, Williamsport, MD iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Krinkle Apps, Aurora, CO
Liebherr USA Co., Newport News, VA
MCT Group, Reno, NV
Mel C. Marshall Industrial Consultants Inc., Delta, Canada Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI ProAll - A Terex Brand, Olds, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Strong Products Inc., Quincy, MI Tecwill Canada Inc., Toronto, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Walter Cleaning Systems USA Inc., Charlotte, NC

Batching/Mixing Controls

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Clearstream Wastewater Systems Inc., Lumberton, TX Cleco Manufacturing, Hudson, NH Columbia Machine Inc., Vancouver, WA Cyclonaire, York, NE Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA Hydronix, Harbor Springs, MI IMER Group, Southlake, TX Industrial Services International LLC Williamsport MD IntelliBatch by Egan Company, Champlin, MN iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Jonel Engineering, Fullerton, CA MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Mixer Systems Inc., Pewaukee, WI MPAQ Automation Inc., Mississauga, Canada Ohio Electric Control Inc., Ashland, OH PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Strong Products Inc., Quincy, MI Tecwill Canada Inc., Toronto, Canada Topwerk America Inc., Conroe, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Batchwater Heating & Cooling

Elematic Inc., Brookfield, WI
EquipPro Distributors LLC, New Braunfels, TX
IntelliBatch by Egan Company, Champlin, MN
Kraft Curing Systems Inc., Fairless Hills, PA
PA-PO Industrial Systems LLC, New Braunfels, TX
Pathfinder Systems, Holland, MI
Polarmatic Ltd., Cincinnati, OH
SIMEM America Corp., San Antonio, TX
Sioux Corporation, Beresford, SD
Standley Batch Systems Inc., Cape Girardeau, MO
Tecwill Canada Inc., Toronto, Canada
Vince Hagan Company, Sunnyvale, TX
Voeller Mixers, Port Washington, WI

Computer Hardware/Software (Mix Design and Batching)

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Chryso and GCP, Alpharetta, GA Columbia Machine Inc., Vancouver, WA Cyclonaire, York, NE Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA IMER Group, Southlake, TX IntelliBatch by Egan Company, Champlin, MN iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Jonel Engineering, Fullerton, CA MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Mixer Systems Inc., Pewaukee, WI MPAQ Automation Inc., Mississauga, Canada Ohio Electric Control Inc., Ashland, OH PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Tecwill Canada Inc., Toronto, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI

Concrete Mixers (Other)

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Concrete Robotics GmbH, Kassel, Germany Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI

Conveyors

Advanced Concrete Technologies Inc., Greenland, NH AIRMATIC Inc., Malvern, PA Besser Company, Alpena, MI Clearstream Wastewater Systems Inc., Lumberton, TX Columbia Machine Inc., Vancouver, WA Cyclonaire, York, NE Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA IMER Group, Southlake, TX iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada JADCO Manufacturing Inc., Harmony, PA Martin Engineering, Neponset, IL MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Slab Innovation Inc., St-Hubert, Canada Standley Batch Systems Inc., Cape Girardeau, MO TASSCO, Birmingham, AL Tecwill Canada Inc., Toronto, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Fiber Doser

Advanced Concrete Technologies Inc., Greenland, NH Chryso and GCP, Alpharetta, GA EquipPro Distributors LLC, New Braunfels, TX FORTA Concrete Fiber, Grove City, PA J. McCoy Equipment Ltd., Port Perry, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Solomon Colors, Springfield, IL Tecwill Canada Inc., Toronto, Canada Voeller Mixers, Port Washington, WI

Mixer Liners

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Columbia Machine Inc., Vancouver, WA Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA habermann materials GmbH, Witten, Germany Industrial Services International LLC, Williamsport, MD J. McCoy Equipment Ltd., Port Perry, Canada JADCO Manufacturing Inc., Harmony, PA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Standley Batch Systems Inc., Cape Girardeau, MO TASSCO, Birmingham, AL TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Mixer Wear Parts

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA habermann materials GmbH, Witten, Germany Industrial Services International LLC, Williamsport, MD JADCO Manufacturing Inc., Harmony, PA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI Pathfinder Systems, Holland, MI SIMEM America Corp., San Antonio, TX Standley Batch Systems Inc., Cape Girardeau, MO TASSCO, Birmingham, AL Tecwill Canada Inc., Toronto, Canada TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Mixers/Pans

Advanced Concrete Technologies Inc., Greenland, NH BN Products USA, Wickenburg, AZ Columbia Machine Inc., Vancouver, WA Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX EZG Manufacturing, Waterford, OH Haarup North America Inc., Ridgefield, WA IMER Group, Southlake, TX Industrial Services International LLC, Williamsport, MD iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada JADCO Manufacturing Inc., Harmony, PA Liebherr USA Co., Newport News, VA MCT Group, Reno, NV
Mel C. Marshall Industrial Consultants Inc., Delta, Canada
Mixer Systems Inc., Pewaukee, WI
PA-PO Industrial Systems LLC, New Braunfels, TX
Pathfinder Systems, Holland, MI Sicoma North America Inc., Clearwater, FL Standley Batch Systems Inc., Cape Girardeau, MO TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Mobile Batching Plants

Advanced Concrete Technologies Inc., Greenland, NH Concrete Robotics GmbH, Kassel, Germany EquipPro Distributors LLC, New Braunfels, TX EZG Manufacturing, Waterford, OH IMER Group, Southlake, TX Liebherr USA Co., Newport News, VA MCT Group, Reno, NV PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI ProAll - A Terex Brand, Olds, Canada Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Tecwill Canada Inc., Toronto, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI

Other Batching Equipment

Advanced Concrete Technologies Inc., Greenland, NH Bekaert Corporation, Marietta, GA Besser Company, Alpena, MI Chryso and GCP, Alpharetta, GA Columbia Machine Inc., Vancouver, WA Concrete Robotics GmbH, Kassel, Germany Cyclonaire, York, NE Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX habermann materials GmbH, Witten, Germany Industrial Services International LLC, Williamsport, MD IntelliBatch by Egan Company, Champlin, MN iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada JADCO Manufacturing Inc., Harmony, PA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI ProAll - A Terex Brand, Olds, Canada Putzmeister America Inc., Sturtevant, WI Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Sioux Corporation, Beresford, SD Skako Concrete Inc., Coopersburg, PA Solomon Colors, Springfield, IL Standley Batch Systems Inc., Cape Girardeau, MO Tecwill Canada Inc., Toronto, Canada TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Walter Cleaning Systems USA Inc., Charlotte, NC

Other Mixer Products

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI BHS - Sonthofen Inc., Charlotte, NC BN Products USA, Wickenburg, AZ Columbia Machine Inc., Vancouver, WA Concrete Robotics GmbH, Kassel, Germany Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX EZG Manufacturing, Waterford, OH Haarup North America Inc., Ridgefield, WA habermann materials GmbH, Witten, Germany IMER Group, Southlake, TX Industrial Services International LLC, Williamsport, MD JADCO Manufacturing Inc., Harmony, PA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI ProAll - A Terex Brand, Olds, Canada Putzmeister America Inc., Sturtevant, WI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Strong Products Inc., Quincy, MI Tecwill Canada Inc., Toronto, Canada TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Topwerk America Inc., Conroe, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI Walter Cleaning Systems USA Inc., Charlotte, NC

Planetary Mixers

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA
IMER Group, Southlake, TX
Industrial Services International LLC, Williamsport, MD
J. McCoy Equipment Ltd., Port Perry, Canada Liebherr USA Co., Newport News, VA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Tecwill Canada Inc., Toronto, Canada TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Topwerk America Inc., Conroe, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Walter Cleaning Systems USA Inc., Charlotte, NC

Twin Shaft Mixers

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI BHS - Sonthofen Inc., Charlotte, NC Concrete Robotics GmbH, Kassel, Germany Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX IMER Group, Southlake, TX Industrial Services International LLC, Williamsport, MD J. McCoy Equipment Ltd., Port Perry, Canada Liebherr USA Co., Newport News, VA MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI Pathfinder Systems, Holland, MI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Standley Batch Systems Inc., Cape Girardeau, MO Tecwill Canada Inc., Toronto, Canada TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX
Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Walter Cleaning Systems USA Inc., Charlotte, NC

Used Batching Equipment

Del Zotto Products Inc., Wrenshall, MN EquipPro Distributors LLC, New Braunfels, TX iwi Concrete Equipment Group, Norcross, GA PA-PO Industrial Systems LLC, New Braunfels, TX ProAll - A Terex Brand, Olds, Canada SIMEM America Corp., San Antonio, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI

Chemicals

A-Lok Products Inc., Tullytown, PA
ALP Supply, Fairless Hills, PA
Cresset Chemical Co., Weston, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
Master Builders Solutions, Cleveland, OH
Norweco Inc., Norwalk, OH
Nox-Crete Inc., Omaha, NE
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
Specification Products Inc., Noblesville, IN
Volatile Free Inc., Brookfield, WI
White Cap LP, Norcross, GA

Cleaning Agents

A-Lok Products Inc., Tullytown, PA Ankem Inc., Irving, TX Buildtech Sourcing LLC, Boynton Beach, FL Contractors Materials Co./MMI, Cincinnati, OH Cresset Chemical Co., Weston, OH CWolf Industries LLC, Houston, TX Dayton Superior Corp., Miamisburg, OH Hill and Griffith Co., Indianapolis, IN ICC Distribution Group, Des Moines, IA Nox-Crete Inc., Omaha, NE Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH RoMix Inc., Euless, TX Solomon Colors, Springfield, IL SpecChem LLC, Kansas City, MO Specification Products Inc., Noblesville, IN Trinic LLC, Kirkwood, NY Wagman Metal Products Inc., York, PA White Cap LP, Norcross, GA

Coatings

AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA APM LLC, Ottawa, IL Chemline Inc., Saint Louis, MO Concrete Sealants Inc., Tipp City, OH Contractors Materials Co./MMI, Cincinnati, OH Coopers Creek Chemical Corp., West Conshohocken, PA Cresset Chemical Co., Weston, OH ErgonArmor, Flowood, MS Euclid Chemical Co., Cleveland, OH Fister Quarries Group Inc. & Fister Inc., Batavia, IL ICC Distribution Group, Des Moines, IA Isotec International, Canton, GA Nawkaw Inc., Bogart, GA Nox-Crete Inc., Omaha, NE Nyacol® Nano Technologies Inc., Ashland, MA Penetron, East Setauket, NY RoMix Inc., Euless, TX RussTech Inc., Louisville, KY Sealing Systems Inc., Loretto, MN Sika Corporation, Lyndhurst, NJ SpecChem LLC, Kansas City, MO Thermion Inc., Poulsbo, WA Trinic LLC, Kirkwood, NY Volatile Free Inc., Brookfield, WI Wagman Metal Products Inc., York, PA White Cap LP, Norcross, GA Xypex Chemical Corp., Richmond, Canada

Concrete Stains & Pigments

Chryso and GCP, Alpharetta, GA
Contractors Materials Co./MMI, Cincinnati, OH
Euclid Chemical Co., Cleveland, OH
ICC Distribution Group, Des Moines, IA
Nawkaw Inc., Bogart, GA
Nox-Crete Inc., Omaha, NE
Sika Corporation, Lyndhurst, NJ
Smooth-On Inc., Macungie, PA
Solomon Colors, Springfield, IL
Trinic LLC, Kirkwood, NY
White Cap LP, Norcross, GA

Construction Chemicals

A-Lok Products Inc., Tullytown, PA
Chryso Inc., Rockwall, TX
Contractors Materials Co./MMI, Cincinnati, OH
Cresset Chemical Co., Weston, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
Hill and Griffith Co., Indianapolis, IN
ICC Distribution Group, Des Moines, IA
Master Builders Solutions, Cleveland, OH
Nox-Crete Inc., Omaha, NE
RoMix Inc., Euless, TX
RussTech Inc., Louisville, KY
Sika Corporation, Lyndhurst, NJ
SpecChem LLC, Kansas City, MO
Strong Products Inc., Quincy, MI
Wagman Metal Products Inc., York, PA
White Cap LP, Norcross, GA

Curing Compounds

Buildtech Sourcing LLC, Boynton Beach, FL
Chryso Inc., Rockwall, TX
Concrete Sealants Inc., Tipp City, OH
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Hill and Griffith Co., Indianapolis, IN
MAPEI Corporation, Deerfield Beach, FL
Nox-Crete Inc., Omaha, NE
RussTech Inc., Louisville, KY
Smooth-On Inc., Macungie, PA
SpecChem LLC, Kansas City, MO
Specification Products Inc., Noblesville, IN
Trinic LLC, Kirkwood, NY
White Cap LP, Norcross, GA

Dust Control Products

Concrete Sealants Inc., Tipp City, OH
Contractors Materials Co./MMI, Cincinnati, OH
Elematic Inc., Brookfield, WI
Euclid Chemical Co., Cleveland, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
MCT Group, Reno, NV
RoMix Inc., Euless, TX
RussTech Inc., Louisville, KY
White Cap LP, Norcross, GA

In-Form Surface Retarders

Chryso and GCP, Alpharetta, GA Fister Quarries Group Inc. & Fister Inc., Batavia, IL

Lubricants

A-Lok Products Inc., Tullytown, PA
Chryso and GCP, Alpharetta, GA
Concrete Sealants Inc., Tipp City, OH
Hamilton Kent LLC, Winchester, TN
Hill and Griffith Co., Indianapolis, IN
M.A. Industries Inc., Peachtree City, GA
MAPEI Corporation, Deerfield Beach, FL
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
ROMix Inc., Euless, TX
Strong Products Inc., Quincy, MI
White Cap LP, Norcross, GA

Other Chemicals

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Ankem Inc., Irving, TX Chem-Trend LP, Howell, MI Chryso and GCP, Alpharetta, GA Chryso Inc., Rockwall, TX Cresset Chemical Co., Weston, OH Dayton Superior Corp., Miamisburg, OH Eco Material Technologies, South Jordan, UT Euclid Chemical Co., Cleveland, OH Fister Quarries Group Inc. & Fister Inc., Batavia, IL Hamilton Kent LLC, Winchester, TN Hill and Griffith Co., Indianapolis, IN ICC Distribution Group, Des Moines, IA Isotec International, Canton, GA Jet Inc., Cleveland, OH Master Builders Solutions, Cleveland, OH Nox-Crete Inc., Omaha, NE Nyacol® Nano Technologies Inc., Ashland, MA Premiere Concrete Admixtures LLC. Pioneer, OH Press-Seal Corporation, Fort Wayne, IN RoMix Inc., Euless, TX RussTech Inc., Louisville, KY Strong Products Inc., Quincy, MI Volatile Free Inc., Brookfield, WI Wagman Metal Products Inc., York, PA White Cap LP, Norcross, GA

Pigments

Chryso and GCP, Alpharetta, GA
Contractors Materials Co./MMI, Cincinnati, OH
Euclid Chemical Co., Cleveland, OH
Master Builders Solutions, Cleveland, OH
Omya Inc., Cincinnati, OH
Sika Corporation, Lyndhurst, NJ
Smooth-On Inc., Macungie, PA
Solomon Colors, Springfield, IL
Trinic LLC, Kirkwood, NY
White Cap LP, Norcross, GA

Release Agents

Afinitas Concrete Accessories, Mediapolis, IA Afinitas Equipment and Automation, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Ankem Inc., Irving, TX Buildtech Sourcing LLC, Boynton Beach, FL Chem-Trend LP, Howell, MI Chryso and GCP, Alpharetta, GA Chryso Inc., Rockwall, TX Clearstream Wastewater Systems Inc., Lumberton, TX Contractors Materials Co./MMI, Cincinnati, OH Cresset Chemical Co., Weston, OH CWolf Industries LLC, Houston, TX Dayton Superior Corp., Miamisburg, OH ErgonArmor, Flowood, MS Fister Quarries Group Inc. & Fister Inc., Batavia, IL Hill and Griffith Co., Indianapolis, IN Isotec International, Canton, GA MAPEI Corporation, Deerfield Beach, FL Master Builders Solutions, Cleveland, OH Nox-Crete Inc., Omaha, NE Precise Forms Inc., Bates City, MO RoMix Inc., Euless, TX Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA Solomon Colors, Springfield, IL SpecChem LLC, Kansas City, MO Strong Products Inc., Quincy, MI Trinic LLC, Kirkwood, NY Wagman Metal Products Inc., York, PA Western Forms Inc., Kansas City, MO White Cap LP, Norcross, GA

Rust Preventive Chemicals

A-Lok Products Inc., Tullytown, PA
ALP Supply, Fairless Hills, PA
Ankem Inc., Irving, TX
Contractors Materials Co./MMI, Cincinnati, OH
Cresset Chemical Co., Weston, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Hill and Griffith Co., Indianapolis, IN
ICC Distribution Group, Des Moines, IA
Nox-Crete Inc., Omaha, NE
ROMIx Inc., Euless, TX
Sika Corporation, Lyndhurst, NJ
White Cap LP, Norcross, GA

Sealants

Chemicals

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA AS3 Precast Sales LLC, Lexington, KY Chryso and GCP, Alpharetta, GA Chryso Inc., Rockwall, TX Clearstream Wastewater Systems Inc., Lumberton, TX Concrete Sealants Inc., Tipp City, OH Contractors Materials Co./MMI, Cincinnati, OH Cresset Chemical Co., Weston, OH CWolf Industries LLC, Houston, TX Dayton Superior Corp., Miamisburg, OH Del Zotto Products Inc., Wrenshall, MN ErgonArmor, Flowood, MS Euclid Chemical Co., Cleveland, OH Fister Quarries Group Inc. & Fister Inc., Batavia, IL Hill and Griffith Co., Indianapolis, IN ICC Distribution Group, Des Moines, IA Isotec International, Canton, GA Mel C. Marshall Industrial Consultants Inc., Delta, Canada Nox-Crete Inc., Omaha, NE Penetron, East Setauket, NY Polylok Inc. ZABEL, Wallingford, CT Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Premiere Concrete Admixtures LLC, Pioneer, OH Press-Seal Corporation, Fort Wayne, IN RoMix Inc., Euless, TX RussTech Inc., Louisville, KY Sealing Systems Inc., Loretto, MN Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA Solomon Colors, Springfield, IL Specification Products Inc., Noblesville, IN Trelleborg Pipe Seals Milford, Milford, NH Trinic LLC, Kirkwood, NY Universal Polymer & Rubber Ltd., Middlefield, OH Wagman Metal Products Inc., York, PA White Cap LP, Norcross, GA

Waterproofing

AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA AS3 Precast Sales LLC, Lexington, KY Chemline Inc., Saint Louis, MO Chryso Inc., Rockwall, TX Concrete Sealants Inc., Tipp City, OH Contractors Materials Co./MMI, Cincinnati, OH ErgonArmor, Flowood, MS Euclid Chemical Co., Cleveland, OH ICC Distribution Group, Des Moines, IA MAPEI Corporation, Deerfield Beach, FL Nox-Crete Inc., Omaha, NE Penetron, East Setauket, NY Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OF Premiere Concrete Admixtures LLC, Pioneer, OH RussTech Inc., Louisville, KY Sika Corporation, Lyndhurst, NJ SpecChem LLC, Kansas City, MO White Cap LP Norcross, GA Xypex Chemical Corp., Richmond, Canada

Concrete Accessories

AGRU America Inc., Georgetown, SC
A-Lok Products Inc., Tullytown, PA
ALP Supply, Fairless Hills, PA
Blackthorn LLC, Clayton, OH
Cresset Chemical Co., Weston, OH
CV International Plastics Inc., Chateauguay, Canada
Dayton Superior Corp., Miamisburg, OH
Deslauriers Inc., La Grange Park, IL
Hoot Systems LLC, Lake Charles, LA
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Leviat, Riverview, FL
LTM Concrete, Denver, CO
PF3 Global, Gulfport, MS
Texaloy Foundry, Floresville, TX
Vollert Anlagenbau GmbH, Weinsberg, BadenWürttemberg, Germany
Walter Cleaning Systems USA Inc., Charlotte, NC

Access Control- Electric Locks/Keyless Entry/Power Supplies

Integrated Entry Solutions, Niles, OH

ADA Components

Contractors Materials Co./MMI, Cincinnati, OH Integrated Entry Solutions, Niles, OH Neenah Foundry Co., Neenah, WI Ohio Gratings Inc., Canton, OH Tuf-Tite Inc., Lake Zurich, IL U.S. Foundry & Manufacturing Corp., Medley, FL White Cap LP, Norcross, GA

Adjustment Risers and Extensions

Capitol Foundry of VA Inc., Virginia Beach, VA
D & L Supply Co. Inc., Lindon, UT
EJ, East Jordan, MI
Hamilton Kent LLC, Winchester, TN
Infiltrator Water Technologies, Old Saybrook, CT
Mel C. Marshall Industrial Consultants Inc., Delta, Canada
Neenah Foundry Co., Neenah, WI
RimRiser, Vancouver, WA
SIP Industries, Houston, TX
Tuf-N-Lite, Hamilton, OH
U.S. Foundry & Manufacturing Corp., Medley, FL

Aluminum Hatch Covers

American Infrastructure and Metal Works, Fort Worth, TX Ohio Gratings Inc., Canton, OH

Anchors/Fasteners

Afinitas Concrete Accessories, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA American Infrastructure and Metal Works, Fort Worth, TX American Step Co. Inc., Griffin, GA Barsplice Products Inc., Dayton, OH Blackthorn LLC, Clayton, OH Buildtech Sourcing LLC, Boynton Beach, FL CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH D & L Supply Co. Inc., Lindon, UT Dayton Superior Corp., Miamisburg, OH Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN HD Williams Co., New Castle, IN iwi Concrete Equipment Group, Norcross, GA Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL Pennsylvania Insert Corp., Royersford, PA PF3 Global, Gulfport, MS Polylok Inc. ZABEL, Wallingford, CT Press-Seal Corporation, Fort Wayne, IN Schlusselbauer North America LLC, Lebanon, TN Sika Corporation, Lyndhurst, NJ Tuf-N-Lite, Hamilton, OH White Cap LP, Norcross, GA

Bonding

American Infrastructure and Metal Works, Fort Worth, TX
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
Leviat, Riverview, FL
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Sika Corporation, Lyndhurst, NJ
SpecChem LLC, Kansas City, MO
White Cap LP, Norcross, GA

Brick Embed Systems

Custom Rock Formliner, St. Paul, MN

Builders Hardware & Accessories

BlueLinx Corporation, Marietta, GA
Buildtech Sourcing LLC, Boynton Beach, FL
Integrated Entry Solutions, Niles, OH
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Nox-Crete Inc., Omaha, NE
Tuf-N-Lite, Hamilton, OH
White Cap LP, Norcross, GA

Cable Racks

Afinitas Concrete Accessories, Mediapolis, IA American Infrastructure and Metal Works, Fort Worth, TX Inwesco Inc., Fort Worth, TX Madison Steel Inc., Atlanta, GA Underground Devices Inc., Northbrook, IL

Composite Insulated Wall Panels

Tuf-N-Lite, Hamilton, OH

Concrete/Grout Pumps

ALP Supply, Fairless Hills, PA EquipPro Distributors LLC, New Braunfels, TX EZG Manufacturing, Waterford, OH IMER Group, Southlake, TX Putzmeister America Inc., Sturtevant, WI Ratec America Corporation, Clearwater, FL

Custom Steel Fabrication

Afinitas Concrete Accessories, Mediapolis, IA ALP Supply, Fairless Hills, PA American Infrastructure and Metal Works, Fort Worth, TX Avermann Group, Osnabrueck, Niedersachsen, Germany Contractors Materials Co./MMI, Cincinnati, OH D & L Supply Co. Inc., Lindon, UT Del Zotto Products Inc., Wrenshall, MN Deslauriers Inc., La Grange Park, IL EJ, East Jordan, MI Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN HD Williams Co., New Castle, IN Inwesco Inc., Fort Worth, TX JADCO Manufacturing Inc., Harmony, PA Marks Metal Technology, Clackamas, OR MCT Group, Reno, NV MSP Structures Inc., Granby, Canada Norwalk Precast Molds Inc., Norwalk, OH Ohio Gratings Inc., Canton, OH Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Ratec America Corporation, Clearwater, FL RimRiser, Vancouver, WA StelCrete Industries Ltd., Welland, Canada TASSCO, Birmingham, AL Tuf-N-Lite, Hamilton, OH Vince Hagan Company, Sunnyvale, TX

Detectable Warning Plates (DWP)

SIP Industries, Houston, TX

Domestic Utility Anchors

ALP Supply, Fairless Hills, PA American Step Co. Inc., Griffin, GA Dayton Superior Corp., Miamisburg, OH PF3 Global, Gulfport, MS

Doors - Access Panels & Hatches

AIRMATIC Inc., Malvern, PA
American Infrastructure and Metal Works, Fort Worth, TX
D & L Supply Co. Inc., Lindon, UT
EJ, East Jordan, MI
Integrated Entry Solutions, Niles, OH
Inwesco Inc., Fort Worth, TX
Neenah Foundry Co., Neenah, WI
Ohio Gratings Inc., Canton, OH
RimRiser, Vancouver, WA
U.S. Foundry & Manufacturing Corp., Medley, FL

Doors - Aluminum

American Infrastructure and Metal Works, Fort Worth, TX
Capitol Foundry of VA Inc., Virginia Beach, VA
CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom
D & L Supply Co. Inc., Lindon, UT
EJ, East Jordan, MI
Integrated Entry Solutions, Niles, OH
Inwesco Inc., Fort Worth, TX
Nystrom Inc., Minneapolis, MN
Ohio Gratings Inc., Canton, OH
Pennsylvania Insert Corp., Royersford, PA
U.S. Foundry & Manufacturing Corp., Medley, FL
U.S.F. Fabrication Inc., Hialeah, FL

Doors - Corrosion Resistant/Stainless/ FRP/Aluminum

American Infrastructure and Metal Works, Fort Worth, TX D & L Supply Co. Inc., Lindon, UT Integrated Entry Solutions, Niles, OH Ohio Gratings Inc., Canton, OH

Doors - Steel/Bullet/Blast/Sound Rated

American Infrastructure and Metal Works, Fort Worth, TX D & L Supply Co. Inc., Lindon, UT Integrated Entry Solutions, Niles, OH Ohio Gratings Inc., Canton, OH Pennsylvania Insert Corp., Royersford, PA

Drop Anchors

American Infrastructure and Metal Works, Fort Worth, TX American Step Co. Inc., Griffin, GA BN Products USA, Wickenburg, AZ Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL Tuf-N-Lite, Hamilton, OH

Duct Terminators

CONAC, Concrete Accessories of GA Inc., Duluth, GA Leviat, Riverview, FL M.A. Industries Inc., Peachtree City, GA Pennsylvania Insert Corp., Royersford, PA

Effluent Filters

Jet Inc., Cleveland, OH Mel C. Marshall Industrial Consultants Inc., Delta, Canada Polylok Inc. ZABEL, Wallingford, CT Tuf-Tite Inc., Lake Zurich, IL

Effluent Pumps

Ashland Water Group, Ashland, OH Clearstream Wastewater Systems Inc., Lumberton, TX Infiltrator Water Technologies, Old Saybrook, CT Jet Inc., Cleveland, OH Mel C. Marshall Industrial Consultants Inc., Delta, Canada Polylok Inc. ZABEL, Wallingford, CT

Embeds - Galvanized Welded

ALP Supply, Fairless Hills, PA American Infrastructure and Metal Works, Fort Worth, TX PF3 Global, Gulfport, MS Tuf-N-Lite, Hamilton, OH

Embeds - Painted Welded

American Infrastructure and Metal Works, Fort Worth, TX Tuf-N-Lite, Hamilton, OH

Embeds - Plain Welded

ALP Supply, Fairless Hills, PA American Infrastructure and Metal Works, Fort Worth, TX Tuf-N-Lite, Hamilton, OH

Epoxy-Coated Products

American Step Co. Inc., Griffin, GA
Barsplice Products Inc., Dayton, OH
Contractors Materials Co./MMII, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Leviat, Riverview, FL
Re-Steel Supply Co. Inc., Eddystone, PA
StelCrete Industries Ltd., Welland, Canada
Trelleborg Pipe Seals Milford, Milford, NH
Tuf-N-Lite, Hamilton, OH
White Cap LP, Norcross, GA

Fiberglass Products

A-Lok Products Inc., Tullytown, PA
ALP Supply, Fairless Hills, PA
Blackthorn LLC, Clayton, OH
Blue Fiber Group Inc., Newark, DE
Contractors Materials Co./MMI, Cincinnati, OH
Integrated Entry Solutions, Niles, OH
Leviat, Riverview, FL
Nycon Corp., Bristol, PA
Press-Seal Corporation, Fort Wayne, IN
Re-Steel Supply Co. Inc., Eddystone, PA
SFTec Inc., Dorval, Canada
Trelleborg Pipe Seals Milford, Milford, NH
Tuf-N-Lite, Hamilton, OH

Foundation Anchors

Afinitas Concrete Accessories, Mediapolis, IA ALP Supply, Fairless Hills, PA Buildtech Sourcing LLC, Boynton Beach, FL Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN Sika Corporation, Lyndhurst, NJ StelCrete Industries Ltd., Welland, Canada Tuf-N-Lite, Hamilton, OH White Cap LP, Norcross, GA

Frames & Grates

Afinitas Concrete Accessories, Mediapolis, IA American Infrastructure and Metal Works, Fort Worth, TX Capitol Foundry of VA Inc., Virginia Beach, VA D & L Supply Co. Inc., Lindon, UT EJ, East Jordan, MI Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN Inwesco Inc., Fort Worth, TX Madison Steel Inc., Atlanta, GA Marks Metal Technology, Clackamas, OR Neenah Foundry Co., Neenah, WI Ohio Gratings Inc., Canton, OH RimRiser, Vancouver, WA SIP Industries, Houston, TX Strong Products Inc., Quincy, MI Tuf-N-Lite, Hamilton, OH U.S. Foundry & Manufacturing Corp., Medley, FL U.S.F. Fabrication Inc., Hialeah, FL

Frames & Grates - Adjustment Riser Rings

A-Lok Products Inc., Tullytown, PA
American Infrastructure and Metal Works, Fort Worth, TX
Capitol Foundry of VA Inc., Virginia Beach, VA
D & L Supply Co. Inc., Lindon, UT
EJ, East Jordan, MI
Neenah Foundry Co., Neenah, WI
Ohio Gratings Inc., Canton, OH
Polylok Inc. ZABEL, Wallingford, CT
RimRiser, Vancouver, WA
SIP Industries, Houston, TX
Tuf-N-Lite, Hamilton, OH
U.S. Foundry & Manufacturing Corp., Medley, FL

Inserts

Afinitas Concrete Accessories, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA American Step Co. Inc., Griffin, GA Barsplice Products Inc., Dayton, OH Blackthorn LLC, Clayton, OH Clearstream Wastewater Systems Inc., Lumberton, TX CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH CWolf Industries LLC, Houston, TX Dayton Superior Corp., Miamisburg, OH Hamilton Kent LLC, Winchester, TN JVI Inc., Lincolnwood IL Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL M.A. Industries Inc., Peachtree City, GA Pennsylvania Insert Corp., Royersford, PA PF3 Global, Gulfport, MS Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN RimRiser, Vancouver, WA

Insulation

BlueLinx Corporation, Marietta, GA Contractors Materials Co./MMI, Cincinnati, OH iwi Concrete Equipment Group, Norcross, GA Plasti-Fab EPS Product Solutions, Lebanon, OH Sika Corporation, Lyndhurst, NJ Tuf-N-Lite, Hamilton, OH

Liners

AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA Chemline Inc., Saint Louis, MO Contractors Materials Co./MMI, Cincinnati, OH Custom Rock Formliner, St. Paul, MN Doric Products, Marshall, IL ErgonArmor, Flowood, MS habermann materials GmbH, Witten, Germany Industrial Services International LLC, Williamsport, MD JADCO Manufacturing Inc., Harmony, PA LondonBoulder Big Block, Monticello, MN Strike Products, Cannon Falls, MN Strong Products Inc., Quincy, MI Sylvan Precast Systems, Portland, OR TASSCO, Birmingham, AL TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX Trelleborg Pipe Seals Milford, Milford, NH Verti-Crete LLC, Bluffdale, UT

Afinitas Concrete Accessories, Mediapolis, IA

Afinitas Forming Systems, New Hampton, IA

Magnets

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Elematic Inc., Brookfield, WI Fister Quarries Group Inc. & Fister Inc., Batavia, IL Hamilton Form Co., Fort Worth, TX Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL M.A. Industries Inc., Peachtree City, GA Newcastle Supply LLC, Indianapolis, IN Nox-Crete Inc., Omaha, NE Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pappada Gino Di Pappada Massimo, Compiano, Italy Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN Ratec America Corporation, Clearwater, FL Strike Products, Cannon Falls, MN Superior Walls of America Ltd., New Holland, PA Sylvan Precast Systems, Portland, OR

Manhole Rings and Covers

Weckenmann Anlagentechnik GmbH & Co. KG,

TLK Precision, Fountaintown, IN

Dormettingen, Germany

American Infrastructure and Metal Works, Fort Worth, TX
Capitol Foundry of VA Inc., Virginia Beach, VA
D & L Supply Co. Inc., Lindon, UT
EJ, East Jordan, MI
Hamilton Kent LLC, Winchester, TN
HD Williams Co., New Castle, IN
Inwesco Inc., Fort Worth, TX
Neenah Foundry Co., Neenah, WI
RimRiser, Vancouver, WA
SIP Industries, Houston, TX
Strike Products, Cannon Falls, MN
U.S. Foundry & Manufacturing Corp., Medley, FL

Manhole Steps

Afinitas Concrete Accessories, Mediapolis, IA
American Infrastructure and Metal Works, Fort Worth, TX
American Step Co. Inc., Griffin, GA
D & L Supply Co. Inc., Lindon, UT
Inwesco Inc., Fort Worth, TX
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Lane International Corp., Tualatin, OR
Leviat, Riverview, FL
M.A. Industries Inc., Peachtree City, GA
Mel C. Marshall Industrial Consultants Inc., Delta, Canada
Neenah Foundry Co., Neenah, WI
Schlusselbauer North America LLC, Lebanon, TN
Strong Products Inc., Quincy, MI
U.S. Foundry & Manufacturing Corp., Medley, FL
Western Forms Inc., Kansas City, MO

Manhole/Pipe Liners

Afinitas Equipment and Automation, Mediapolis, IA AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA APM LLC, Ottawa, IL. Concrete Sealants Inc., Tipp City, OH Press-Seal Corporation, Fort Wayne, IN Schlusselbauer North America LLC, Lebanon, TN Strike Products, Cannon Falls, MN Strong Products Inc., Quincy, MI Trelleborg Pipe Seals Milford, Milford, NH

Membrane Liners - MIC Protective

A-Lok Products Inc., Tullytown, PA Concrete Sealants Inc., Tipp City, OH ErgonArmor, Flowood, MS

Membranes

AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA Concrete Sealants Inc., Tipp City, OH Contractors Materials Co./MMI, Cincinnati, OH ErgonArmor, Flowood, MS Sika Corporation, Lyndhurst, NJ

Other Concrete Accessories

Afinitas Concrete Accessories, Mediapolis, IA AGRU America Inc., Georgetown, SC AIRMATIC Inc., Malvern, PA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA American Step Co. Inc., Griffin, GA Barsplice Products Inc., Dayton, OH Bekaert Corporation, Marietta, GA Blackthorn LLC, Clayton, OH BN Products USA, Wickenburg, AZ Buildtech Sourcing LLC, Boynton Beach, FL Chryso and GCP, Alpharetta, GA CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH Cresset Chemical Co., Weston, OH CV International Plastics Inc., Chateauguay, Canada D & L Supply Co. Inc., Lindon, UT Dayton Superior Corp., Miamisburg, OH Del Zotto Products Inc., Wrenshall, MN Fister Quarries Group Inc. & Fister Inc., Batavia, IL Hoot Systems LLC, Lake Charles, LA JVI Inc., Lincolnwood, IL Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL LTM Concrete, Denver, CO M.A. Industries Inc., Peachtree City, GA MCT Group, Reno, NV New Steel Distributors International, Atlanta, GA Nox-Crete Inc., Omaha, NE Nystrom Inc., Minneapolis, MN Ohio Electric Control Inc., Ashland, OH Paragon Products, Mount Pleasant, IA Pennsylvania Insert Corp., Royersford, PA PF3 Gĺobal, Gulfport, MS Plasti-Fab EPS Product Solutions, Lebanon, OH Polylok Inc. ZABEL, Wallingford, CT POPIT Inc., Langhorne, PA Precise Forms Inc., Bates City, MO Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN Ratec America Corporation, Clearwater, FL RimRiser, Vancouver, WA SFTec Inc., Dorval, Canada SIP Industries, Houston, TX StelCrete Industries Ltd., Welland, Canada Strike Products, Cannon Falls, MN Strong Products Inc., Quincy, MI Texaloy Foundry, Floresville, TX Thermion Inc., Poulsbo, WA Tuf-Tite Inc., Lake Zurich, IL Volatile Free Inc., Brookfield, WI Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Walter Cleaning Systems USA Inc., Charlotte, NC Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Panel Pads

White Cap LP, Norcross, GA

Afinitas Concrete Accessories, Mediapolis, IA ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH CV International Plastics Inc., Chateauguay, Canada D & L Supply Co. Inc., Lindon, UT Dayton Superior Corp., Miamisburg, OH Deslauriers Inc., La Grange Park, IL Doka The Formwork Experts, Kenilworth, NJ Fister Quarries Group Inc. & Fister Inc., Batavia, IL JVI Inc., Lincolnwood, IL Landcon/Starcon Lifting Anchors, Thornhill, Canada Leviat, Riverview, FL LTM Concrete, Denver, CO M.A. Industries Inc., Peachtree City, GA Paragon Products, Mount Pleasant, IA Polylok Inc. ZABEL, Wallingford, CT Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH

Patching & Repair

ALP Supply, Fairless Hills, PA
APM LLC, Ottawa, IL
Buildtech Sourcing LLC, Boynton Beach, FL
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Leviat, Riverview, FL
Nox-Crete Inc., Omaha, NE
Penetron, East Setauket, NY
Sika Corporation, Lyndhurst, NJ
SpecChem LLC, Kansas City, MO
TASSCO, Birmingham, AL
Trelleborg Pipe Seals Milford, Milford, NH
White Cap LP, Norcross, GA
Xypex Chemical Corp., Richmond, Canada

Prestress Hardware & Accessories

ALP Supply, Fairless Hills, PA
Buildtech Sourcing LLC, Boynton Beach, FL
D & L Supply Co. Inc., Lindon, UT
Dayton Superior Corp., Miamisburg, OH
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Leviat, Riverview, FL
LTM Concrete, Denver, CO
Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,
Italy
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Ratec America Corporation, Clearwater, FL
StaalXLLC, Chicago, IL

Pulling Irons

Afinitas Concrete Accessories, Mediapolis, IA
American Infrastructure and Metal Works, Fort Worth, TX
American Step Co. Inc., Griffin, GA
CONAC, Concrete Accessories of GA Inc., Duluth, GA
Contractors Materials Co./MMI, Cincinnati, OH
Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN
Inwesco Inc., Fort Worth, TX
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Lane International Corp., Tualatin, OR
Leviat, Riverview, FL
M.A. Industries Inc., Peachtree City, GA
Marks Metal Technology, Clackamas, OR
Pennsylvania Insert Corp., Royersford, PA
PF3 Global, Gulfport, MS

Rebar Couplers & Terminators

ALP Supply, Fairless Hills, PA Buildtech Sourcing LLC, Boynton Beach, FL Dayton Superior Corp., Miamisburg, OH StelCrete Industries Ltd., Welland, Canada Tuf-N-Lite, Hamilton, OH

Rebar Ties/Clips Tools

AIRMATIC Inc., Malvern, PA
ALP Supply, Fairless Hills, PA
BN Products USA, Wickenburg, AZ
CONAC, Concrete Accessories of GA Inc., Duluth, GA
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
iwi Concrete Equipment Group, Norcross, GA
LTM Concrete, Denver, CO
MAX USA Corp., Plainview, NY
New Steel Distributors International, Atlanta, GA
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
SKEW Accessories b.v., 7384 DL Wilp, Netherlands
Tuf-N-Lite, Hamilton, OH

Restrooms/Partitions/Accessories

Integrated Entry Solutions, Niles, OH

Security Devices

Clearstream Wastewater Systems Inc., Lumberton, TX Neenah Foundry Co., Neenah, WI

Septic Tank Accessories

AGRU America Inc., Georgetown, SC A-Lok Products Inc., Tullytown, PA American Step Co. Inc., Griffin, GA Ashland Water Group, Ashland, OH Clearstream Wastewater Systems Inc., Lumberton, TX Del Zotto Products Inc., Wrenshall, MN Hoot Systems LLC, Lake Charles, LA Infiltrator Water Technologies, Old Saybrook, CT Jet Inc., Cleveland, OH Mel C. Marshall Industrial Consultants Inc., Delta, Canada Norweco Inc., Norwalk, OH Ohio Electric Control Inc., Ashland, OH Polylok Inc. ZABEL, Wallingford, CT Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN Trelleborg Pipe Seals Milford, Milford, NH Tuf-Tite Inc., Lake Zurich, IL

Shims

ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH D & L Supply Co. Inc., Lindon, UT Dayton Superior Corp., Miamisburg, OH Deslauriers Inc., La Grange Park, IL Fister Quarries Group Inc. & Fister Inc., Batavia, IL JVI Inc., Lincolnwood, IL Leviat, Riverview, FL M.A. Industries Inc., Peachtree City, GA Paragon Products, Mount Pleasant, IA Polylok Inc. ZABEL, Wallingford, CT Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH RimRiser, Vancouver, WA Sika Corporation, Lyndhurst, NJ Tuf-N-Lite, Hamilton, OH

Spacers - Concrete

Afinitas Concrete Accessories, Mediapolis, IA
A-Lok Products Inc., Tullytown, PA
ALP Supply, Fairless Hills, PA
CONAC, Concrete Accessories of GA Inc., Duluth, GA
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Elematic Inc., Brookfield, WI
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Molenaar North America Inc., Dacula, GA
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
RimRiser, Vancouver, WA
White Cap LP, Norcross, GA

Spacers - Metal

Afinitas Concrete Accessories, Mediapolis, IA
ALP Supply, Fairless Hills, PA
American Infrastructure and Metal Works, Fort Worth, TX
Avermann Group, Osnabrueck, Niedersachsen, Germany
CONAC, Concrete Accessories of GA Inc., Duluth, GA
Contractors Materials Co./MMI, Cincinnati, OH
CV International Plastics Inc., Chateauguay, Canada
D & L Supply Co. Inc., Lindon, UT
Dayton Superior Corp., Miamisburg, OH
Eastern States Steel Corp., Upper Saddle River, NJ
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Leviat, Riverview, FL
Madison Steel Inc., Atlanta, GA
New Steel Distributors International, Atlanta, GA

Afinitas Concrete Accessories, Mediapolis, IA

A-Lok Products Inc., Tullytown, PA

ALP Supply, Fairless Hills, PA

Spacers - Plastic

RimRiser, Vancouver, WA

White Cap LP, Norcross, GA

Avermann Group, Osnabrueck, Niedersachsen, Germany Blackthorn LLC, Clayton, OH Clearstream Wastewater Systems Inc., Lumberton, TX CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH CV International Plastics Inc., Chateauguay, Canada CWolf Industries LLC Houston TX Dayton Superior Corp., Miamisburg, OH Fister Quarries Group Inc. & Fister Inc., Batavia, IL iwi Concrete Equipment Group, Norcross, GA Leviat, Riverview, FL LTM Concrete, Denver, CO Mel C. Marshall Industrial Consultants Inc., Delta, Canada New Steel Distributors International, Atlanta, GA Paragon Products, Mount Pleasant, IA Polylok Inc. ZABEL, Wallingford, CT Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH RimRiser, Vancouver, WA Strike Products, Cannon Falls, MN Underground Devices Inc., Northbrook, IL White Cap LP, Norcross, GA

Stair Nosings and Treads

American Infrastructure and Metal Works, Fort Worth, TX D & L Supply Co. Inc., Lindon, UT Nystrom Inc., Minneapolis, MN Ohio Gratings Inc., Canton, OH

Structural Beam Supports/Components

ALP Supply, Fairless Hills, PA
American Infrastructure and Metal Works, Fort Worth, TX
Bekaert Corporation, Marietta, GA
Buildtech Sourcing LLC, Boynton Beach, FL
D & L Supply Co. Inc., Lindon, UT
MCT Group, Reno, NV
Plasti-Fab EPS Product Solutions, Lebanon, OH
Polylok Inc. ZABEL, Wallingford, CT
StelCrete Industries Ltd., Welland, Canada

Structural Load Bearings

ALP Supply, Fairless Hills, PA D & L Supply Co. Inc., Lindon, UT

Thermal Breaks

Tuf-N-Lite, Hamilton, OH

Thermal Shear Connectors

Dayton Superior Corp., Miamisburg, OH

Trash Racks/Grating Assemblies

Afinitas Concrete Accessories, Mediapolis, IA
American Infrastructure and Metal Works, Fort Worth, TX
Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN
Inwesco Inc., Fort Worth, TX
Ohio Gratings Inc., Canton, OH
StormRax by Plastic Solutions Inc., Winchester, VA

Vents/Louvers - Fixed & Operable/Storm & Vandal Resistant

Afinitas Concrete Accessories, Mediapolis, IA D & L Supply Co. Inc., Lindon, UT Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN Integrated Entry Solutions, Niles, OH Ohio Gratings Inc., Canton, OH Polylok Inc. ZABEL, Wallingford, CT

Wear Castings

D & L Supply Co. Inc., Lindon, UT JADCO Manufacturing Inc., Harmony, PA TASSCO, Birmingham, AL TEKA North America Inc., Chesapeake, VA Texaloy Foundry, Floresville, TX

Wind Storm (FBC/FEMA) Opening Components

Integrated Entry Solutions, Niles, OH

Concrete - Raw Materials

Omya Inc., Cincinnati, OH
OTB Materials Corp. (Outside the Box Materials), Dalton,
GA
RE-D Industrial Products LLC, Grove City, PA
Smooth-On Inc., Macunqie, PA

Aggregates - Manufactured

Eco Material Technologies, Taylorsville, GA Fister Quarries Group Inc. & Fister Inc., Batavia, IL Heidelberg Materials, Irving, TX Omya Inc., Cincinnati, OH R-E-D Industrial Products LLC, Grove City, PA

Aggregates - Natural

Clearstream Wastewater Systems Inc., Lumberton, TX Fister Quarries Group Inc. & Fister Inc., Batavia, IL Heidelberg Materials, Irving, TX Omya Inc., Cincinnati, OH

Blended Cement

Concrete Robotics GmbH, Kassel, Germany Cyclonaire, York, NE Heidelberg Materials, Irving, TX OTB Materials Corp. (Outside the Box Materials), Dalton, GA R-E-D Industrial Products LLC, Grove City, PA Smooth-On Inc., Macungie, PA

Cement

Buzzi Unicem USA, Carmel, IN Clearstream Wastewater Systems Inc., Lumberton, TX Cyclonaire, York, NE Heidelberg Materials, Irving, TX LafargeHolcim, Chicago, IL OTB Materials Corp. (Outside the Box Materials), Dalton, GA Ozinga Cement, Mokena, IL R-E-D Industrial Products LLC, Grove City, PA

Lightweight Aggregates - Natural

Fister Quarries Group Inc. & Fister Inc., Batavia, IL

Lightweight Synthetic Particles

ALP Supply, Fairless Hills, PA LafargeHolcim, Chicago, IL

Other Concrete Raw Materials

Concrete Robotics GmbH, Kassel, Germany Heidelberg Materials, Irving, TX LafargeHolcim, Chicago, IL Magneco/Metrel Inc., Deerfield, IL Omya Inc., Cincinnati, OH R-E-D Industrial Products LLC, Grove City, PA Smooth-On Inc., Macungie, PA

Consulting Services

Concrete Engineering Solutions, Mountain Top, PA Cranes 101, Bellingham, MA Forklift Exchange Inc., Chicago, IL OVERTON Safety Training Inc., Hillsboro, OR

Crane and Rigging Related Inspections

Cranes 101, Bellingham, MA Doka The Formwork Experts, Kenilworth, NJ Forklift Exchange Inc., Chicago, IL Irving Equipment LLC, Tiffin, OH Precast Concrete Concepts LLC, Lewisville, NC

Crane and Rigging Related Training

Cranes 101, Bellingham, MA Irving Equipment LLC, Tiffin, OH OVERTON Safety Training Inc., Hillsboro, OR Precast Concrete Concepts LLC, Lewisville, NC

Marketing

Buildtech Sourcing LLC, Boynton Beach, FL Matt Childs Engineering, Flower Mound, TX Precast Concrete Concepts LLC, Lewisville, NC

Retaining Wall Design & Evaluation

Doka The Formwork Experts, Kenilworth, NJ Precast Concrete Concepts LLC, Lewisville, NC

Safety and Health Related Services

Cranes 101, Bellingham, MA Fisher Phillips LLP, Charlotte, NC OVERTON Safety Training Inc., Hillsboro, OR Precast Insurance, Tuttle, OK

Delivery Equipment

A-Lok Products Inc., Tullytown, PA
Forklift Exchange Inc., Chicago, IL
Hiab USA, Perrysburg, OH
Irving Equipment LLC, Tiffin, OH
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Palfinger North America, Niagara Falls, Canada
PA-PO Industrial Systems LLC, New Braunfels, TX
Vollert Anlagenbau GmbH, Weinsberg, BadenWürttemberg, Germany
Wells Concrete (Spancrete Machinery Division),
Waukesha, WI

Other Delivery Equipment

Advanced Concrete Technologies Inc., Greenland, NH A-Lok Products Inc., Tullytown, PA Forklift Exchange Inc., Chicago, IL Hiab USA, Perrysburg, OH Irving Equipment LLC, Tiffin, OH Palfinger North America, Niagara Falls, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Tucker's Machine & Steel Service Inc., Leesburg, FL Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha. WI

Rigging Equipment

ALP Supply, Fairless Hills, PA CONAC, Concrete Accessories of GA Inc., Duluth, GA Cranes 101, Bellingham, MA Elematic Inc., Brookfield, WI Forklift Exchange Inc., Chicago, IL

Trailer Mounted Cranes

BIK Boom Trucks, Milford, MA Cranes 101, Bellingham, MA Fascan International Inc., Baltimore, MD Forklift Exchange Inc., Chicago, IL Hiab USA, Perrysburg, OH Irving Equipment LLC, Tiffin, OH QMC Cranes LLC, Sparks, NV

Trailers

Clearstream Wastewater Systems Inc., Lumberton, TX Forklift Exchange Inc., Chicago, IL Irving Equipment LLC, Tiffin, OH

Truck Equipment & Boom Unloaders

BIK Boom Trucks, Milford, MA Forklift Exchange Inc., Chicago, IL

Truck Mounted Cranes

BIK Boom Trucks, Milford, MA Clearstream Wastewater Systems Inc., Lumberton, TX Cranes 101, Bellingham, MA Del Zotto Products Inc., Wrenshall, MN Fascan International Inc., Baltimore, MD Forklift Exchange Inc., Chicago, IL Hiab USA, Perrysburg, OH Irving Equipment LLC, Tiffin, OH Palfinger North America, Niagara Falls, Canada QMC Cranes LLC, Sparks, NV

Trucks

BIK Boom Trucks, Milford, MA Clearstream Wastewater Systems Inc., Lumberton, TX Forklift Exchange Inc., Chicago, IL Irving Equipment LLC, Tiffin, OH

Used Delivery Equipment

BIK Boom Trucks, Milford, MA Clearstream Wastewater Systems Inc., Lumberton, TX Del Zotto Products Inc., Wrenshall, MN Forklift Exchange Inc., Chicago, IL Hiab USA, Perrysburg, OH Irving Equipment LLC, Tiffin, OH iwi Concrete Equipment Group, Norcross, GA

Forms/Molds

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Besser Company, Alpena, MI Betonblock, Stompetoren, Netherlands Blackthorn LLC, Clayton, OH Cleco Manufacturing, Hudson, NH Coote Engineering Ltd., Co. Tyrone, United Kingdom Dayton Superior Corp., Miamisburg, OH Doka The Formwork Experts, Kenilworth, NJ Hamilton Form Co., Fort Worth, TX Helser Industries, Tualatin, OR ISKCO/Toyota Forms, North Little Rock, AR Isotec International, Canton, GA J. McCoy Equipment Ltd., Port Perry, Canada Norwalk Precast Molds Inc., Norwalk, OH Nox-Crete Inc., Omaha, NE Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pathfinder Systems, Holland, MI Precise Forms Inc., Bates City, MO Smooth-On Inc., Macungie, PA Stone Strong Systems, Omaha, NE Strong Products Inc., Quincy, MI Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Volatile Free Inc., Brookfield, WI Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Wall-Ties & Forms Inc., Shawnee, KS Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Western Forms Inc., Kansas City, MO Wieser Form Fabrication, Menomonie, WI

Accessories - Forms/Molds

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Betonblock, Stompetoren, Netherlands Buildtech Sourcing LLC, Boynton Beach, FL CONAC, Concrete Accessories of GA Inc., Duluth, GA Deslauriers Inc., La Grange Park, IL Doka The Formwork Experts, Kenilworth, NJ EFCO Corp., Des Moines, IA Elematic Inc., Brookfield, WI Fister Quarries Group Inc. & Fister Inc., Batavia, IL Gilman Brothers Company (The), Gilman, CT Hamilton Form Co., Fort Worth, TX Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands LondonBoulder Big Block, Monticello, MN Marks Metal Technology, Clackamas, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Norwalk Precast Molds Inc., Norwalk, OH Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Pennsylvania Insert Corp., Royersford, PA Precast Concrete Concepts LLC, Lewisville, NC Ratec America Corporation, Clearwater, FL Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Tuf-N-Lite, Hamilton, OH

Weckenmann Anlagentechnik GmbH & Co. KG,

Chamfer Strips

Dormettingen, Germany

Afinitas Concrete Accessories, Mediapolis, IA ALP Supply, Fairless Hills, PA Besser Company, Alpena, MI Blackthorn LLC, Clayton, OH CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Deslauriers Inc., La Grange Park, IL Fister Quarries Group Inc. & Fister Inc., Batavia, IL Fitzgerald Formliners, Santa Ana, CA Hamilton Form Co., Fort Worth, TX Hamilton Kent LLC, Winchester, TN Helser Industries, Tualatin, OR Marks Metal Technology, Clackamas, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Newcastle Supply LLC, Indianapolis, IN Nox-Crete Inc., Omaha, NE Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pappada Gino Di Pappada Massimo, Compiano, Italy Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Ratec America Corporation, Clearwater, FL Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA Sylvan Precast Systems, Portland, OR TLK Precision, Fountaintown, IN Tuf-N-Lite, Hamilton, OH Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Custom Forms

Afinitas Equipment and Automation, Mediapolis, IA Afinitas Forming Systems, New Hampton, IA A-Lok Products Inc., Tullytown, PA American Progress Group Corp., Chicago, IL Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Blackthorn LLC, Clayton, OH Buildtech Sourcing LLC, Boynton Beach, FL Chemline Inc., Saint Louis, MO Clearstream Wastewater Systems Inc., Lumberton, TX Cleco Manufacturing, Hudson, NH Coote Engineering Ltd., Co. Tyrone, United Kingdom Custom Rock Formliner, St. Paul, MN D & L Supply Co. Inc., Lindon, UT Deslauriers Inc., La Grange Park, IL Doka The Formwork Experts, Kenilworth, NJ Doka The Formwork Experts, Renilworth, NJ EFCO Corp., Des Moines, IA Elematic Inc., Brookfield, WI GCI Pipe Products Inc., Shawnee, KS Gilman Brothers Company (The), Gilman, CT Hamilton Form Co., Fort Worth, TX Helser Industries, Tualatin, OR Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands ISKCO/Toyota Forms, North Little Rock, AR Isotec International, Canton, GA iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Marks Metal Technology, Clackamas, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain MSP Structures Inc., Granby, Canada Norwalk Precast Molds Inc., Norwalk, OH Nox-Crete Inc., Omaha, NE Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy

Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Polylok Inc. ZABEL, Wallingford, CT Precise Forms Inc., Bates City, MO Ratec America Corporation, Clearwater, FL RimRiser, Vancouver, WA Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Stone Strong Systems, Omaha, NE Strong Products Inc., Quincy, MI Superior Walls of America Ltd., New Holland, PA Sylvan Precast Systems, Portland, OR Topwerk America Inc., Conroe, TX Trigard, Danville, IL Tucker's Machine & Steel Service Inc., Leesburg, FL Tuf-N-Lite, Hamilton, OH Ultra-Span Technologies Inc., Winnipeg, Canada Verti-Crete LLC, Bluffdale, UT Volatile Free Inc., Brookfield, WI Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany
Wells Concrete (Spancrete Machinery Division), Waukesha, WI Western Forms Inc., Kansas City, MO

Wieser Form Fabrication, Menomonie, WI

Dry-Cast Forms

Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, IL Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH Coote Engineering Ltd., Co. Tyrone, United Kingdom Del Zotto Products Inc., Wrenshall, MN Doka The Formwork Experts, Kenilworth, NJ EFCO Corp., Des Moines, IA GCI Pipe Products Inc., Shawnee, KS Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Industrial Services International LLC, Williamsport, MD ISKCO/Toyota Forms, North Little Rock, AR Isotec International, Canton, GA iwi Concrete Equipment Group, Norcross, GA Mel C. Marshall Industrial Consultants Inc., Delta, Canada Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Norwalk Precast Molds Inc., Norwalk, OH Pathfinder Systems, Holland, MI RimRiser, Vancouver, WA Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Strong Products Inc., Quincy, MI Teksam ApS, Hanstholm, Denmark Topwerk America Inc., Conroe, TX Tuf-N-Lite, Hamilton, OH Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha, WI Wieser Form Fabrication, Menomonie, WI

Formliners

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Avermann Group, Osnabrueck, Niedersachsen, Germany Chemline Inc., Saint Louis, MO Contractors Materials Co./MMI, Cincinnati, OH CornerStone Wall Solutions Inc., Calgary, Canada Custom Rock Formliner, St. Paul, MN Dayton Superior Corp., Miamisburg, OH Euclid Chemical Co., Cleveland, OH Fitzgerald Formliners, Santa Ana, CA
Industrial Services International LLC, Williamsport, MD Isotec International, Canton, GA LondonBoulder Big Block, Monticello, MN Plasti-Fab EPS Product Solutions, Lebanon, OH Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Strong Products Inc., Quincy, MI Sylvan Precast Systems, Portland, OR Tuf-N-Lite, Hamilton, OH Verti-Crete LLC, Bluffdale, UT Volatile Free Inc., Brookfield, WI White Cap LP, Norcross, GA

Formliners - Architectural

Chemline Inc., Saint Louis, MO Fister Quarries Group Inc. & Fister Inc., Batavia, IL Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany

Tuf-N-Lite, Hamilton, OH

Forms - Wet-Cast

Afinitas Forming Systems, New Hampton, IA
A-Lok Products Inc., Tullytown, PA
American Progress Group Corp., Chicago, IL
Besser Company, Alpena, MI
Buildtech Sourcing LLC, Boynton Beach, FL
Chemline Inc., Saint Louis, MO
Cleco Manufacturing, Hudson, NH
CornerStone Wall Solutions Inc., Calgary, Canada
Deslauriers Inc., La Grange Park, IL
EFCO Corp., Des Moines, IA
Gilman Brothers Company (The), Gilman, CT
Hamilton Form Co., Fort Worth, TX
Helser Industries, Tualatin, OR
Humarbo Machinery B.V., Vaassen, Gelderland, Holland,
Netherlands
LondonBoulder Big Block, Monticello, MN
Marks Metal Terchoplomy, Clackamas, OR

Netherlands
LondonBoulder Big Block, Monticello, MN
Marks Metal Technology, Clackamas, OR
Moldtech S.L., Alcalá de Guadaíra, Seville, Spain
Norwalk Precast Molds Inc., Norwalk, OH
Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,
Italy

Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Precise Forms Inc., Bates City, MO Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Topwerk America Inc., Conroe, TX

Tuf-N-Lite, Hamilton, OH Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Forms/Molds - Other

A-Lok Products Inc., Tullytown, PA

ALP Supply, Fairless Hills, PA American Progress Group Corp., Chicago, IL Besser Company, Alpena, MI Blackthorn LLC, Clayton, OH Buildtech Sourcing LLC, Boynton Beach, FL Chemline Inc., Saint Louis, MO Elematic Inc., Brookfield, WI Gilman Brothers Company (The), Gilman, CT Helser Industries, Tualatin, OR Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Marks Metal Technology, Clackamas, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Norwalk Precast Molds Inc., Norwalk, OH Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Precise Forms Inc., Bates City, MO

Pappada Gino Drappada wassinio, Complano, Italy Pathfinder Systems, Holland, MI Precise Forms Inc., Bates City, MO Ratec America Corporation, Clearwater, FL Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Tuf-N-Lite, Hamilton, OH Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Forms/Molds - Used

Deslauriers Inc., La Grange Park, IL Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands iwi Concrete Equipment Group, Norcross, GA LondonBoulder Big Block, Monticello, MN Tuf-N-Lite, Hamilton, OH

Forms-Wet/Dry-Cast Adjustable Rubber Gasketed Box Culvert

American Progress Group Corp., Chicago, IL Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH EFCO Corp., Des Moines, IA Elematic Inc., Brookfield, WI Helser Industries, Tualatin, OR Marks Metal Technology, Clackamas, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Pathfinder Systems, Holland, MI Smooth-On Inc., Macungie, PA

Hole Formers

Afinitas Concrete Accessories, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH Del Zotto Products Inc., Wrenshall, MN Deslauriers Inc., La Grange Park, IL Formcrete Fiberglass Products Inc., Seminole, OK Gilman Brothers Company (The), Gilman, CT Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands ISKCO/Toyota Forms, North Little Rock, AR Lane International Corp., Tualatin, OR Marks Metal Technology, Clackamas, OR Norwalk Precast Molds Inc., Norwalk, OH Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Polylok Inc. ZABEL, Wallingford, CT Precise Forms Inc., Bates City, MO Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN RimRiser, Vancouver, WA Schlusselbauer North America LLC, Lebanon, TN Strike Products, Cannon Falls, MN Strong Products Inc., Quincy, MI U.S.F. Fabrication Inc., Hialeah, FL Wieser Form Fabrication, Menomonie, WI

Magnet Chamfers

Afinitas Concrete Accessories, Mediapolis, IA Afinitas Forming Systems, New Hampton, IA ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Elematic Inc., Brookfield, WI Fister Quarries Group Inc. & Fister Inc., Batavia, IL Newcastle Supply LLC, Indianapolis, IN Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Pappada Gino Di Pappada Massimo, Compiano, Italy Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Ratec America Corporation, Clearwater, FL Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Sylvan Precast Systems, Portland, OR TLK Precision, Fountaintown, IN Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Magnetic Rail-Form Systems

Afinitas Forming Systems, New Hampton, IA Blackthorn LLC, Clayton, OH Contractors Materials Co./MMI, Cincinnati, OH Elematic Inc., Brookfield, WI Hamilton Form Co., Fort Worth, TX Helser Industries, Tualatin, OR Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pappada Gino Di Pappada Massimo, Compiano, Italy Pathfinder Systems, Holland, MI Ratec America Corporation, Clearwater, FL Smooth-On Inc., Macungie, PA SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Sylvan Precast Systems, Portland, OR TLK Precision, Fountaintown, IN Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Ornamental Rubber Molds

Chemline Inc., Saint Louis, MO
Custom Rock Formliner, St. Paul, MN
Isotec International, Canton, GA
J. McCoy Equipment Ltd., Port Perry, Canada
Smooth-On Inc., Macungie, PA
Stone Strong Systems, Omaha, NE
Strong Products Inc., Quincy, MI
Volatile Free Inc., Brookfield, WI

Overlay Form Plywood

BlueLinx Corporation, Marietta, GA Sylvan Precast Systems, Portland, OR Tuf-N-Lite, Hamilton, OH

Retarder Paper

Fister Quarries Group Inc. & Fister Inc., Batavia, IL

Reveal Strips

ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH Contractors Materials Co./MMI, Cincinnati, OH Dayton Superior Corp., Miamisburg, OH Deslauriers Inc., La Grange Park, IL Fister Quarries Group Inc. & Fister Inc., Batavia, IL Fitzgerald Formliners, Santa Ana, CA Hamilton Form Co., Fort Worth, TX Newcastle Supply LLC, Indianapolis, IN Nox-Crete Inc., Omaha, NE Pappada Gino Di Pappada Massimo, Compiano, Italy Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Ratec America Corporation, Clearwater, FL Smooth-On Inc., Macungie, PA Sylvan Precast Systems, Portland, OR TLK Precision, Fountaintown, IN Tuf-N-Lite, Hamilton, OH Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Franchisor/Licensor of

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Easi-Set Worldwide, Midland, VA Lodestar Structures Inc., Kingston, Canada Norweco Inc., Norwalk, OH PF3 Global, Gulfport, MS Pretek Group, Bellbrook, OH Stone Strong Systems, Omaha, NE StormTrap, Romeoville, IL Superior Walls of America Ltd., New Holland, PA

Anti-Terrorism Barriers

Easi-Set Worldwide, Midland, VA

Architectural Cladding Panels

Concrete Robotics GmbH Kassel Germany Easi-Set Worldwide, Midland, VA MCT Group, Reno, NV

Articulating Concrete Block

Porous Technologies LLC, Gorham, ME

Ballistic Barriers

Concrete Robotics GmbH, Kassel, Germany Easi-Set Worldwide, Midland, VA

Blast Walls

Earth Wall Products LLC, Smyrna, GA Easi-Set Worldwide, Midland, VA

Commercial Retaining Walls

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskev, MI CornerStone Wall Solutions Inc., Calgary, Canada LondonBoulder Big Block, Monticello, MN Porous Technologies LLC, Gorham, ME Pretek Group, Bellbrook, OH ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN

Electric Vehicle Charging Foundation

ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN

Entrance Defenses

Easi-Set Worldwide, Midland, VA

Erosion Control Products

Easi-Set Worldwide, Midland, VA Precast Concrete Concepts LLC, Lewisville, NC

Erosion Control/Revetment Block

Precast Concrete Concepts LLC, Lewisville, NC

Fire Walls

Easi-Set Worldwide, Midland, VA Lodestar Structures Inc., Kingston, Canada

Geosynthetics

Earth Wall Products LLC, Smyrna, GA

Head Walls/Wing Walls

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Earth Wall Products LLC, Smyrna, GA Porous Technologies LLC, Gorham, ME Precast Concrete Concepts LLC, Lewisville, NC Pretek Group, Bellbrook, OH ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN

Highway Safety Barriers

Earth Wall Products LLC, Smyrna, GA Easi-Set Worldwide, Midland, VA

Light Pole Bases

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Deslauriers Inc., La Grange Park, IL ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN

Perimeter Defenses

American Progress Group Corp., Chicago, IL Easi-Set Worldwide, Midland, VA

Precast Bridge and Culvert Systems

American Progress Group Corp., Chicago, IL Precast Concrete Concepts LLC, Lewisville, NC Pretek Group, Bellbrook, OH

Precast Buildings

Aleandri SpA, Charlotte, NC American Progress Group Corp., Chicago, IL Easi-Set Worldwide, Midland, VA Lodestar Structures Inc., Kingston, Canada MCT Group, Reno, NV Ratec America Corporation, Clearwater, FL Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany

Residential Pavers/Slabs

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI Porous Technologies LLC, Gorham, ME

Residential Retaining Walls

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI CornerStone Wall Solutions Inc., Calgary, Canada Earth Wall Products LLC, Smyrna, GA Precast Concrete Concepts LLC, Lewisville, NC ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN

Retaining Wall Systems

American Progress Group Corp., Chicago, IL Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI CornerStone Wall Solutions Inc., Calgary, Canada LondonBoulder Big Block, Monticello, MN Precast Concrete Concepts LLC, Lewisville, NC Pretek Group, Bellbrook, OH Ratec America Corporation, Clearwater, FL ReCon Wall Systems/LPB - A Division of ReCon, Coon Rapids, MN Stone Strong Systems, Omaha, NE Verti-Crete LLC, Bluffdale, UT

Sound Absorptive Noise Walls

Easi-Set Worldwide, Midland, VA Ratec America Corporation, Clearwater, FL

Specialty Wall Structures

American Progress Group Corp., Chicago, IL Earth Wall Products LLC, Smyrna, GA Easi-Set Worldwide, Midland, VA Lodestar Structures Inc., Kingston, Canada Precast Concrete Concepts LLC, Lewisville, NC

Storm Safe Rooms

Fasi-Set Worldwide Midland VA Lodestar Structures Inc., Kingston, Canada Precast Insurance, Tuttle, OK Ratec America Corporation, Clearwater, FL Western Forms Inc., Kansas City, MO

Stormwater Management Systems

Lodestar Structures Inc., Kingston, Canada Precast Concrete Concepts LLC, Lewisville, NC Retain-It LLC, Granby, CT StormRax by Plastic Solutions Inc., Winchester, VA StormTrap, Romeoville, IL

Structural Wall Panels

Aleandri SpA, Charlotte, NC American Progress Group Corp., Chicago, IL Doka The Formwork Experts, Kenilworth, NJ Lodestar Structures Inc., Kingston, Canada Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,

Precast Concrete Concepts LLC, Lewisville, NC Ratec America Corporation, Clearwater, FL Ultra-Span Technologies Inc., Winnipeg, Canada

Vehicle Barriers

Easi-Set Worldwide, Midland, VA Neenah Foundry Co., Neenah, WI

Gaskets/Sealers

A-Lok Products Inc., Tullytown, PA AS3 Precast Sales LLC, Lexington, KY Blackthorn LLC, Clayton, OH Hamilton Kent LLC, Winchester, TN Mar Mac Construction Products, McBee, SC Press-Seal Corporation, Fort Wayne, IN Universal Polymer & Rubber Ltd., Middlefield, OH

External Joint Wrap

A-Lok Products Inc., Tullytown, PA AS3 Precast Sales LLC, Lexington, KY Concrete Sealants Inc., Tipp City, OH FranArmor Flowood MS Hamilton Kent LLC, Winchester, TN Mar Mac Construction Products, McBee, SC Polylok Inc. ZABEL, Wallingford, CT Press-Seal Corporation, Fort Wayne, IN Sealing Systems Inc., Loretto, MN Trelleborg Pipe Seals Milford, Milford, NH

External Sealing Bands

Hamilton Kent LLC, Winchester, TN Mar Mac Construction Products, McBee, SC Press-Seal Corporation, Fort Wayne, IN Sealing Systems Inc., Loretto, MN Trelleborg Pipe Seals Milford, Milford, NH

Gaskets

A-Lok Products Inc., Tullytown, PA
AS3 Precast Sales LLC, Lexington, KY
Blackthorn LLC, Clayton, OH
Clearstream Wastewater Systems Inc., Lumberton, TX
Del Zotto Products Inc., Wrenshall, MN
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Hamilton Kent LLC, Winchester, TN
Leviat, Riverview, FL
Mar Mac Construction Products, McBee, SC
Mel C. Marshall Industrial Consultants Inc., Delta, Canada
Polylok Inc. ZABEL, Wallingford, CT
Press-Seal Corporation, Fort Wayne, IN
Sika Corporation, Lyndhurst, NJ
Trelleborg Pipe Seals Milford, Milford, NH
Tuf-Tite Inc., Lake Zurich, IL
Universal Polymer & Rubber Ltd., Middlefield, OH

Mastic

AS3 Precast Sales LLC, Lexington, KY
Clearstream Wastewater Systems Inc., Lumberton, TX
Concrete Sealants Inc., Tipp City, OH
Del Zotto Products Inc., Wrenshall, MN
ErgonArmor, Flowood, MS
Hamilton Kent LLC, Winchester, TN
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Press-Seal Corporation, Fort Wayne, IN
Sealing Systems Inc., Loretto, MN
Trelleborg Pipe Seals Milford, MIH

Other Gaskets/Sealers

AGRU America Inc., Georgetown, SC
ALP Supply, Fairless Hills, PA
AS3 Precast Sales LLC, Lexington, KY
Blackthorn LLC, Clayton, OH
Clearstream Wastewater Systems Inc., Lumberton, TX
Concrete Sealants Inc., Tipp City, OH
ErgonArmor, Flowcod, MS
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
Hamilton Kent LLC, Winchester, TN
Leviat, Riverview, FL
Mar Mac Construction Products, McBee, SC
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Press-Seal Corporation, Fort Wayne, IN
Trelleborg Pipe Seals Milford, Milford, NH

Pipe-to-Manhole Connectors

A-Lok Products Inc., Tullytown, PA
AS3 Precast Sales LLC, Lexington, KY
Blackthorn LLC, Clayton, OH
Hamilton Kent LLC, Winchester, TN
Leviat, Riverview, FL
Press-Seal Corporation, Fort Wayne, IN
Schlusselbauer North America LLC, Lebanon, TN
Trelleborg Pipe Seals Milford, Milford, NH

Preformed Hydrophilic Waterstops

AS3 Precast Sales LLC, Lexington, KY
Concrete Sealants Inc., Tipp City, OH
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH

Preformed Joint Materials (Sealers)

A-Lok Products Inc., Tullytown, PA
AS3 Precast Sales LLC, Lexington, KY
Concrete Sealants Inc., Tipp City, OH
ErgonArmor, Flowood, MS
Hamilton Kent LLC, Winchester, TN
Mar Mac Construction Products, McBee, SC
Mel C. Marshall Industrial Consultants Inc., Delta, Canada
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Press-Seal Corporation, Fort Wayne, IN
Sealing Systems Inc., Loretto, MN
Sika Corporation, Lyndhurst, NJ
Trelleborg Pipe Seals Milford, Milford, NH
Universal Polymer & Rubber Ltd., Middlefield, OH

Prelube Gaskets

AS3 Precast Sales LLC, Lexington, KY Hamilton Kent LLC, Winchester, TN Press-Seal Corporation, Fort Wayne, IN

PVC Waterstops

ALP Supply, Fairless Hills, PA
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH

Hollow Core Equipment

Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Wells Concrete (Spancrete Machinery Division), Waukesha. WI

Hollow Core Extruder

American Progress Group Corp., Chicago, IL Elematic Inc., Brookfield, WI Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha. WI

Hollow Core Lifting Devices

American Progress Group Corp., Chicago, IL
Combilift, Greensboro, NC
Coote Engineering Ltd., Co. Tyrone, United Kingdom
Elematic Inc., Brookfield, WI
Shuttlelift, Sturgeon Bay, WI
Slab Innovation Inc., St-Hubert, Canada
Ultra-Span Technologies Inc., Winnipeg, Canada
Weckenmann Anlagentechnik GmbH & Co. KG,
Dormettingen, Germany
Wells Concrete (Spancrete Machinery Division),
Waukesha, WI

Hollow Core Pallet Cleaner

American Progress Group Corp., Chicago, IL
Coote Engineering Ltd., Co. Tyrone, United Kingdom
Ultra-Span Technologies Inc., Winnipeg, Canada
Weckenmann Anlagentechnik GmbH & Co. KG,
Dormettingen, Germany
Wells Concrete (Spancrete Machinery Division),
Waukesha, WI

Hollow Core Pallets

American Progress Group Corp., Chicago, IL
Coote Engineering Ltd., Co. Tyrone, United Kingdom
Hamilton Form Co., Fort Worth, TX
Helser Industries, Tualatin, OR
Ultra-Span Technologies Inc., Winnipeg, Canada
Weckenmann Anlagentechnik GmbH & Co. KG,
Dormettingen, Germany

Hollow Core Saws

American Progress Group Corp., Chicago, IL Elematic Inc., Brookfield, WI Ultra-Span Technologies Inc., Winnipeg, Canada Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Hollow Core Tarp

Elematic Inc., Brookfield, WI Kraft Curing Systems Inc., Fairless Hills, PA Ultra-Span Technologies Inc., Winnipeg, Canada Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division),

Wells Concrete (Spancrete Machinery Division), Waukesha, Wi

Management Tools & Other Services

BASYS Processing, Lenexa, KS
Dayton Superior Corp., Miamisburg, OH
Forney LP, Zelienople, PA
Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,
Italy
OVERTON Safety Training Inc., Hillsboro, OR
STACK-IT, Edmonds, WA
Titan 3000 Precast Management System,
Red Bank, NJ
Vollert Anlagenbau GmbH, Weinsberg, BadenWürttemberg, Germany
Weckenmann Anlagentechnik GmbH & Co. KG,
Dormettingen, Germany
Wells Concrete (Spancrete Machinery Division),

2D/3D Drafting and Modeling Software

Allplan Inc., Lincoln, NE
Applied Systems Associates Inc., Murrysville, PA
Buildtech Sourcing LLC, Boynton Beach, FL
Dayton Superior Corp., Miamisburg, OH
Eriksson Software Inc., Temple Terrace, FL
Pinnacle Infotech Inc., Sugar Land, TX
Precision Precast Solutions Private Limited,
Pune, India
Trimble Inc., Kennesaw, GA

Appraisal Services

Waukesha, WI

iwi Concrete Equipment Group, Norcross, GA

Architectural/Structural Precast Caulking

C&C Restoration Services Inc., Hillsboro, TX
Concrete Sealants Inc., Tipp City, OH
Fister Quarries Group Inc. & Fister Inc., Batavia, IL
MAPEI Corporation, Deerfield Beach, FL
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH

Architectural/Structural Precast Cleaning

C&C Restoration Services Inc., Hillsboro, TX RoMix Inc., Euless, TX Wagman Metal Products Inc., York, PA

Architectural/Structural Precast Restoration

C&C Restoration Services Inc., Hillsboro, TX MAPEI Corporation, Deerfield Beach, FL

Architectural/Structural Precast Sealing

C&C Restoration Services Inc., Hillsboro, TX Concrete Sealants Inc., Tipp City, OH MAPEI Corporation, Deerfield Beach, FL Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Wagman Metal Products Inc., York, PA

Computer Software - Take Off/Production Inventory

Allplan Inc., Lincoln, NE American Progress Group Corp., Chicago, IL Applied Systems Associates Inc., Murrysville, PA Buildtech Sourcing LLC, Boynton Beach, FL Concrete Vision, Grand Haven, MI Dayton Superior Corp., Miamisburg, OH Delta Specialty Precast Concrete Engineers, Endwell, NY Elematic Inc., Brookfield, WI Eriksson Software Inc., Temple Terrace, FL FBE Associates Inc., Bay City, MI Idencia Inc., Manchester, NH IntelliBatch by Egan Company, Champlin, MN Krinkle Apps, Aurora, CO MCT Group, Reno, NV Offsight Inc., San Francisco, CA Ohio Electric Control Inc., Ashland, OH Pinnacle Infotech Inc., Sugar Land, TX Precast Concrete Concepts LLC, Lewisville, NC Precision Precast Solutions Private Limited, Pune. India RIB Software, Vienna, Austria Scale-Tron Inc., Dollard des Ormeaux, Canada Schlusselbauer North America LLC, Lebanon, TN STACK-IT, Edmonds, WA Titan 3000 Precast Management System, Red Bank, NJ Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Credit Card Processing

BASYS Processing, Lenexa, KS Clearstream Wastewater Systems Inc., Lumberton, TX

Decorative Apparel

Cintas, Mason, OH

Employee Timekeeping Software

Clearstream Wastewater Systems Inc., Lumberton, TX Concrete Vision, Grand Haven, MI Offsight Inc., San Francisco, CA

Employment Services

Cintas, Mason, OH ConcreteCareers.com, Atlanta, GA Precast Jobs LLC, Palmerton, PA United Employment Group Inc., Allentown, PA

Engineering Consulting Firms

EquipPro Distributors LLC, New Braunfels, TX Hanson Professional Services Inc., Springfield, IL Matt Childs Engineering, Flower Mound, TX Precast Concrete Concepts LLC, Lewisville, NC Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Engineering Services

Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA A-Lok Products Inc., Tullytown, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Coote Engineering Ltd., Co. Tyrone, United Kingdom Dayton Superior Corp., Miamisburg, OH Delta Specialty Precast Concrete Engineers, Endwell, NY DeVita, Greenville, SC Elematic Inc., Brookfield, WI Eriksson Technologies Inc., Temple Terrace, FL Gary K. Munkelt & Associates LLC, Souderton, PA Hanson Professional Services Inc., Springfield, IL Helix Steel, Ann Arbor, MI IntelliBatch by Egan Company, Champlin, MN J. McCoy Equipment Ltd., Port Perry, Canada Leviat, Riverview, FL Matt Childs Engineering, Flower Mound, TX MSP Structures Inc., Granby, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Pinnacle Infotech Inc., Sugar Land, TX Precast Concrete Concepts LLC, Lewisville, NC Precision Precast Solutions Private Limited Pune. India Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Press-Seal Corporation, Fort Wayne, IN Pretek Group, Bellbrook, OH Ratec America Corporation, Clearwater, FL RBA Audit LLC, Nashville, TN RIB Software, Vienna, Austria RimRiser, Vancouver, WA SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada Standley Batch Systems Inc., Cape Girardeau, MO StormTrap, Romeoville, IL Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Engineering Services by Manufacturers

Afinitas Forming Systems, New Hampton, IA Blue Fiber Group Inc., Newark, DE EquipPro Distributors LLC, New Braunfels, TX FDE Hydro, Chelmsford, MA Matt Childs Engineering, Flower Mound, TX Precast Concrete Concepts LLC, Lewisville, NC Wells Concrete (Spancrete Machinery Division), Waukesha. WI

Environmental Consulting

Clearstream Wastewater Systems Inc., Lumberton, TX Concrete Robotics GmbH, Kassel, Germany Hanson Professional Services Inc., Springfield, IL Krinkle Apps, Aurora, CO Matt Childs Engineering, Flower Mound, TX Volker Würschum Consulting and Development GmbH & Co. KG, Ostfildern, Germany

Equipment Leasing/Financing

Export-Import Bank of the United States, Washington, DC Forklift Exchange Inc., Chicago, IL

Equipment Maintenance & Repair

Advanced Concrete Technologies Inc., Greenland, NH A-Lok Products Inc., Tullytown, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI BIK Boom Trucks, Milford, MA Clearstream Wastewater Systems Inc., Lumberton, TX Elematic Inc., Brookfield, WI Forklift Exchange Inc., Chicago, IL IntelliBatch by Egan Company, Champlin, MN Irving Equipment LLC, Tiffin, OH mbk Maschinenbau GmbH, Kisslegg, Germany PA-PO Industrial Systems LLC, New Braunfels, TX RIB Software, Vienna, Austria Skako Concrete Inc., Coopersburg, PA Texaloy Foundry, Floresville, TX Ultra-Span Technologies Inc., Winnipeg, Canada W.P. Hilts & Co., Roanoke, VA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

ERP System

American Progress Group Corp., Chicago, IL Concrete Vision, Grand Haven, MI RIB Software, Vienna, Austria Trimble Inc., Kennesaw, GA

Fleet Management

Cranes 101, Bellingham, MA Hyster Company, Greenville, NC MPAQ Automation Inc., Mississauga, Canada Precast Concrete Concepts LLC, Lewisville, NC

Industrial Video Production

Precast Concrete Concepts LLC, Lewisville, NC

Insurance

Brown & Brown Inc., Conshohocken, PA Clearstream Wastewater Systems Inc., Lumberton, TX Cottingham and Butler, Dubuque, IA Export-Import Bank of the United States, Washington, DC Precast Insurance, Tuttle, OK

Inventory Control Systems

Applied Systems Associates Inc., Murrysville, PA Concrete Vision, Grand Haven, MI Elematic Inc., Brookfield, WI Idencia Inc. Manchester NH InfoSight Corporation, Chillicothe, OH IntelliBatch by Egan Company, Champlin, MN MCT Group, Reno, NV Mi-Jack Products, Hazel Crest, IL Precast Concrete Concepts LLC, Lewisville, NC Scale-Tron Inc., Dollard des Ormeaux, Canada STACK-IT, Edmonds, WA Titan 3000 Precast Management System, Red Bank, NJ Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Legal Services

Cranes 101, Bellingham, MA Fisher Phillips LLP, Charlotte, NC

Logistic Solution

American Progress Group Corp., Chicago, IL Precast Concrete Concepts LLC, Lewisville, NC RIB Software, Vienna, Austria

Other Management Tools

Cintas, Mason, OH
Clearstream Wastewater Systems Inc., Lumberton, TX
Doka The Formwork Experts, Kenilworth, NJ
Export-Import Bank of the United States, Washington, DC
InfoSight Corporation, Chillicothe, OH
IntelliBatch by Egan Company, Champlin, MN
LafargeHolcim, Chicago, IL
Precast Concrete Concepts LLC, Lewisville, NC
Precast Insurance, Tuttle, OK
RIB Software, Vienna, Austria
Titan 3000 Precast Management System,
Red Bank, NJ
Ultra-Span Technologies Inc., Winnipeg, Canada
Vollert Anlagenbau GmbH, Weinsberg, Baden-

Plant Design Services

Württemberg, Germany

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Buildtech Sourcing LLC, Boynton Beach, FL Columbia Machine Inc., Vancouver, WA Concrete Robotics GmbH, Kassel, Germany Coote Engineering Ltd., Co. Tyrone, United Kingdom Elematic Inc., Brookfield, WI Hanson Professional Services Inc., Springfield, IL ISKCO/Toyota Forms, North Little Rock, AR iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Matt Childs Engineering, Flower Mound, TX mbk Maschinenbau GmbH, Kisslegg, Germany MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, PA-PO Industrial Systems LLC, New Braunfels, TX Precast Concrete Concepts LLC, Lewisville, NC Ratec America Corporation, Clearwater, FL RIB Software, Vienna, Austria
SIMEM America Corp., San Antonio, TX
Skako Concrete Inc., Coopersburg, PA
SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Standley Batch Systems Inc., Cape Girardeau, MO Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany W.P. Hilts & Co., Roanoke, VA Weckenmann Anlagentechnik GmbH & Co. KG,

Plant Relocation Services

Dormettingen, Germany

Waukesha, WI

Columbia Machine Inc., Vancouver, WA PA-PO Industrial Systems LLC, New Braunfels, TX Precast Concrete Concepts LLC, Lewisville, NC Ratec America Corporation, Clearwater, FL SIMEM America Corp., San Antonio, TX W.P. Hilts & Co., Roanoke, VA

Wells Concrete (Spancrete Machinery Division),

Precast Concrete Erection - Architectural

Eriksson Technologies Inc., Temple Terrace, FL FDE Hydro, Chelmsford, MA Precast Concrete Concepts LLC, Lewisville, NC Trimble Inc., Kennesaw, GA WEAV3D Inc., Norcross, GA

Precast Concrete Erection - Structural

Eriksson Technologies Inc., Temple Terrace, FL FDE Hydro, Chelmsford, MA Precast Concrete Concepts LLC, Lewisville, NC Trimble Inc., Kennesaw, GA

Precast Concrete Erection Services - Other

C&C Restoration Services Inc., Hillsboro, TX Precast Concrete Concepts LLC, Lewisville, NC

Precast Pavement Consulting

Avermann Group, Osnabrueck, Niedersachsen, Germany Precast Concrete Concepts LLC, Lewisville, NC RIB Software, Vienna, Austria Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Production, Planning and Scheduling System (PPS)

American Progress Group Corp., Chicago, IL
Applied Systems Associates Inc., Murrysville, PA
Concrete Vision, Grand Haven, MI
Precast Concrete Concepts LLC, Lewisville, NC
RIB Software, Vienna, Austria
STACK-IT, Edmonds, WA
Trimble Inc., Kennesaw, GA
Wells Concrete (Spancrete Machinery Division),
Waukesha. WI

Publications

Concrete Products (Semco Publishing), Denver, CO CPI - Worldwide (ad-media GmbH), Canton, GA

Quality Control Software

Buildtech Sourcing LLC, Boynton Beach, FL Concrete Vision, Grand Haven, MI Doka The Formwork Experts, Kenilworth, NJ Elematic Inc., Brookfield, WI Forney LP, Zelienople, PA Idencia Inc., Manchester, NH IntelliBatch by Egan Company, Champlin, MN Kraft Curing Systems Inc., Fairless Hills, PA Krinkle Apps, Aurora, CO MCT Group, Reno, NV Offsight Inc., San Francisco, CA Precast Concrete Concepts LLC, Lewisville, NC RIB Software, Vienna, Austria Scale-Tron Inc., Dollard des Ormeaux, Canada STACK-IT, Edmonds, WA Titan 3000 Precast Management System, Red Bank, NJ Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Reinforcement Modeling Software

Allplan Inc., Lincoln, NE American Progress Group Corp., Chicago, IL Applied Systems Associates Inc., Murrysville, PA Blue Fiber Group Inc., Newark, DE Dayton Superior Corp., Miamisburg, OH Precision Precast Solutions Private Limited, Pune, India Trimble Inc., Kennesaw, GA

Retrofitting

Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands IntelliBatch by Egan Company, Champlin, MN mbk Maschinenbau GmbH, Kisslegg, Germany Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH RIB Software, Vienna, Austria

Avermann Group, Osnabrueck, Niedersachsen, Germany

RFID Systems

Concrete Vision, Grand Haven, MI
Idencia Inc., Manchester, NH
InfoSight Corporation, Chillicothe, OH
IntelliBatch by Egan Company, Champlin, MN
J. McCoy Equipment Ltd., Port Perry, Canada
Krinkle Apps, Aurora, CO
Mi-Jack Products, Hazel Crest, IL
Precast Concrete Concepts LLC, Lewisville, NC
RIB Software, Vienna, Austria
Wells Concrete (Spancrete Machinery Division),
Waukesha, WI

Shipping Services

King of Freight LLC, Wichita, KS LafargeHolcim, Chicago, IL Merge Freight, Atlanta, GA

Software for Construction

Applied Systems Associates Inc., Murrysville, PA Dayton Superior Corp., Miamisburg, OH Doka The Formwork Experts, Kenilworth, NJ Elematic Inc., Brookfield, WI Forney LP, Zelienople, PA Offsight Inc., San Francisco, CA Precast Concrete Concepts LLC, Lewisville, NC RIB Software, Vienna, Austria Trimble Inc., Kennesaw, GA

Specialty Design Software.

Allplan Inc., Lincoln, NE Eriksson Software Inc., Temple Terrace, FL LafargeHolcim, Chicago, IL Precision Precast Solutions Private Limited, Pune, India

Sustainability Consulting

CarbonBuilt Inc., Torrance, CA Doka The Formwork Experts, Kenilworth, NJ Elematic Inc., Brookfield, WI Hanson Professional Services Inc., Springfield, IL Precast Concrete Concepts LLC, Lewisville, NC

Technical Managerial Consulting American Progress Group Corp., Chicago, IL

Avermann Group, Osnabrueck, Niedersachsen, Germany Buildtech Sourcing LLC, Boynton Beach, FL Delta Specialty Precast Concrete Engineers, Endwell, NY iwi Concrete Equipment Group, Norcross, GA Precast Concrete Concepts LLC, Lewisville, NC STACK-IT, Edmonds, WA Titan 3000 Precast Management System, Red Bank, NJ Ultra-Span Technologies Inc., Winnipeg, Canada Volker Würschum Consulting and Development GmbH & Co. KG, Ostfildern, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Masonry Wall Materials

Concrete Maintenance & Cleaning

Buildtech Sourcing LLC, Boynton Beach, FL RoMix Inc., Euless, TX

Concrete Masonry Adhesive

AS3 Precast Sales LLC, Lexington, KY Tuf-N-Lite, Hamilton, OH

Control Joint Materials

AS3 Precast Sales LLC, Lexington, KY Chemline Inc., Saint Louis, MO

Wall Reinforcing, Ties and Anchors

Buildtech Sourcing LLC, Boynton Beach, FL Doka The Formwork Experts, Kenilworth, NJ JADCO Manufacturing Inc., Harmony, PA Tuf-N-Lite, Hamilton, OH

Waterproofing Coatings, Membranes, **Bonding Agents and Patching Mortars**

AS3 Precast Sales LLC, Lexington, KY Buildtech Sourcing LLC, Boynton Beach, FL Chemline Inc., Saint Louis, MO Concrete Sealants Inc., Tipp City, OH OTB Materials Corp. (Outside the Box Materials), Dalton,

Material Handling

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Blackthorn LLC, Clayton, OH EMH Inc., Valley City, OH EquipPro Distributors LLC, New Braunfels, TX Forklift Exchange Inc., Chicago, IL Gar-Bro Manufacturing Co., Heber Springs, AR Hiab USA, Perrysburg, OH Hyster Company, Greenville, NC Hyundai Material Handling, Norcross, GA Kenco Corp., Ligonier, PA LafargeHolcim, Chicago, IL Landcon/Starcon Lifting Anchors, Thornhill, Canada Mi-Jack Products, Hazel Crest, IL Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, OVERTON Safety Training Inc., Hillsboro, OR Palfinger North America, Niagara Falls, Canada Pathfinder Systems, Holland, MI Probst Inc., Franksville, WI Shuttlelift, Sturgeon Bay, WI Slab Innovation Inc., St-Hubert, Canada Standley Batch Systems Inc., Cape Girardeau, MO Taylor Machine Works Inc., Louisville, MS Topwerk America Inc., Conroe, TX Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Concrete Buckets

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Forming Systems, New Hampton, IA Avermann Group, Osnabrueck, Niedersachsen, Germany Clearstream Wastewater Systems Inc., Lumberton, TX Coote Engineering Ltd., Co. Tyrone, United Kingdom Del Zotto Products Inc., Wrenshall, MN Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX EZG Manufacturing, Waterford, OH Forklift Exchange Inc., Chicago, IL Gar-Bro Manufacturing Co., Heber Springs, AR iwi Concrete Equipment Group, Norcross, GA Kenco Corp., Ligonier, PA MCT Group, Reno, NV Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Norwalk Precast Molds Inc., Norwalk, OH Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI Ratec America Corporation, Clearwater, FL Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Strong Products Inc., Quincy, MI Tecwill Canada Inc., Toronto, Canada Ultra-Span Technologies Inc., Winnipeg, Canada Voeller Mixers, Port Washington, WI Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Walter Cleaning Systems USA Inc., Charlotte, NC Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Concrete Carts

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA Clearstream Wastewater Systems Inc., Lumberton, TX Elematic Inc., Brookfield, WI EMH Inc., Valley City, OH Gar-Bro Manufacturing Co., Heber Springs, AR IMER Group, Southlake, TX MCT Group, Reno, NV Norwalk Precast Molds Inc., Norwalk, OH Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Strong Products Inc., Quincy, MI Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Voeller Mixers, Port Washington, WI Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Conveyor Systems

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Clearstream Wastewater Systems Inc., Lumberton, TX Columbia Machine Inc., Vancouver, WA Coote Engineering Ltd., Co. Tyrone, United Kingdom Cyclonaire, York, NE Elematic Inc., Brookfield, WI Equipment Depot, Mt. Laurel, NJ EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands iwi Concrete Equipment Group, Norcross, GA J. McCoy Equipment Ltd., Port Perry, Canada Martin Engineering, Neponset, IL MCT Group, Reno, NV Mixer Systems Inc., Pewaukee, WI Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI Schlusselbauer North America LLC, Lebanon, TN Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Standley Batch Systems Inc., Cape Girardeau, MO TASSCO, Birmingham, AL TASSCO, Birimighani, AL
Topwerk America Inc., Conroe, TX
Ultra-Span Technologies Inc., Winnipeg, Canada
Vince Hagan Company, Sunnyvale, TX
Voeller Mixers, Port Washington, WI
Vollert Anlagenbau GmbH, Weinsberg, Baden Württemberg, Germany W.P. Hilts & Co., Roanoke, VA Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Cranes & Boom Trucks

BIK Boom Trucks, Milford, MA Clearstream Wastewater Systems Inc., Lumberton, TX Combilift, Greensboro, NC Cranes 101, Bellingham, MA Del Zotto Products Inc., Wrenshall, MN EMH Inc., Valley City, OH Equipment Depot, Mt. Laurel, NJ Fascan International Inc., Baltimore, MD Forklift Exchange Inc., Chicago, IL Hiab USA, Perrysburg, OH Irving Equipment LLC, Tiffin, OH Konecranes Lift Trucks, Houston, TX Liebherr USA Co., Newport News, VA Mi-Jack Products, Hazel Crest, IL Palfinger North America, Niagara Falls, Canada Putzmeister America Inc., Sturtevant, WI QMC Cranes LLC, Sparks, NV Schlusselbauer North America LLC Lebanon TN Shuttlelift, Sturgeon Bay, WI Strong Products Inc., Quincy, MI

Cranes & Hoists

BIK Boom Trucks, Milford, MA Capco Crane & Hoist Inc., Rowley, MA Cranes 101, Bellingham, MA Forklift Exchange Inc., Chicago, IL Pathfinder Systems, Holland, MI

Excavators

Clearstream Wastewater Systems Inc., Lumberton, TX Cranes 101, Bellingham, MA Forklift Exchange Inc., Chicago, IL Hyundai Material Handling, Norcross, GA Kenco Corp., Ligonier, PA Liebherr USA Co., Newport News, VA

Forklifts

BIK Boom Trucks, Milford, MA
Clearstream Wastewater Systems Inc., Lumberton, TX
Combilift, Greensboro, NC
Cranes 101, Bellingham, MA
Equipment Depot, Mt. Laurel, NJ
Forklift Exchange Inc., Chicago, IL
Hiab USA, Perrysburg, OH
Hyster Company, Greenville, NC
Hyundai Material Handling, Norcross, GA
Konecranes Lift Trucks, Houston, TX
Mi-Jack Products, Hazel Crest, IL
Palfinger North America, Niagara Falls, Canada
Taylor Machine Works Inc., Louisville, MS

Front-End Loaders

Clearstream Wastewater Systems Inc., Lumberton, TX Cranes 101, Bellingham, MA Forklift Exchange Inc., Chicago, IL Liebherr USA Co., Newport News, VA

Lifting Products

Afinitas Concrete Accessories, Mediapolis, IA Afinitas Equipment and Automation, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Act Supply, Fames Fills, FA
American Step Co. Inc., Griffin, GA
Avermann Group, Osnabrueck, Niedersachsen, Germany
Combilift, Greensboro, NC
CONAC, Concrete Accessories of GA Inc., Duluth, GA Contractors Materials Co./MMI, Cincinnati, OH Conte Engineering Ltd., Co. Tyrone, United Kingdom Cranes 101, Bellingham, MA D & L Supply Co. Inc., Lindon, UT Elematic Inc., Brookfield, WI EMH Inc., Valley City, OH Equipment Depot, Mt. Laurel, NJ Fascan International Inc., Baltimore, MD Forklift Exchange Inc., Chicago, IL Gar-Bro Manufacturing Co., Heber Springs, AR Gensco Equipment, Toronto, Canada Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN habermann materials GmbH, Witten, Germany Hamilton Kent LLC, Winchester, TN Hiab USA, Perrysburg, OH Hyster Company, Greenville, NC Hyundai Material Handling, Norcross, GA Irving Equipment LLC, Tiffin, OH J. McCoy Equipment Ltd., Port Perry, Canada Kenco Corp., Ligonier, PA
Konecranes Lift Trucks, Houston, TX
LafargeHolcim, Chicago, IL
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Lane International Corp., Tualatin, OR Leviat, Riverview, FL MCT Group, Reno, NV Mi-Jack Products, Hazel Crest, IL Palfinger North America, Niagara Falls, Canada Pennsylvania Insert Corp., Royersford, PA Polylok Inc. ZABEL, Wallingford, CT Probst Inc., Franksville, WI Ratec America Corporation, Clearwater, FL Schlusselbauer North America LLC, Lebanon, TN Shuttlelift, Sturgeon Bay, WI SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada Taylor Machine Works Inc., Louisville, MS
Tucker's Machine & Steel Service Inc., Leesburg, FL
Ultra-Span Technologies Inc., Winnipeg, Canada
Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Other Material Handling

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA American Step Co. Inc., Griffin, GA Avermann Group, Osnabrueck, Niedersachsen, Germany Blackthorn LLC, Clayton, OH Capco Crane & Hoist Inc., Rowley, MA Clearstream Wastewater Systems Inc., Lumberton, TX Columbia Machine Inc., Vancouver, WA Combilift, Greensboro, NC Cranes 101, Bellingham, MA Cyclonaire, York, NE Equipment Depot, Mt. Laurel, NJ EquipPro Distributors LLC, New Braunfels, TX Forklift Exchange Inc., Chicago, IL Gar-Bro Manufacturing Co., Heber Springs, AR Hiab USA, Perrysburg, OH Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Hyster Company, Greenville, NC J. McCoy Equipment Ltd., Port Perry, Canada Kenco Corp., Ligonier, PA Lane International Corp., Tualatin, OR Martin Engineering, Neponset, IL mbk Maschinenbau GmbH, Kisslegg, Germany MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Mi-Jack Products, Hazel Crest, IL Palfinger North America, Niagara Falls, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Probst Inc., Franksville, WI Putzmeister America Inc., Sturtevant, WI Shuttlelift, Sturgeon Bay, WI Sicoma North America Inc., Clearwater, FL SIMEM America Corp., San Antonio, TX Standley Batch Systems Inc., Cape Girardeau, MO Taylor Machine Works Inc., Louisville, MS Tucker's Machine & Steel Service Inc., Leesburg, FL Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany
Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Sideloaders

Cavaion Baumann USA, Brookville, OH Combilift, Greensboro, NC Forklift Exchange Inc., Chicago, IL

Skidsters

Clearstream Wastewater Systems Inc., Lumberton, TX Forklift Exchange Inc., Chicago, IL

Used Material Handling Equipment

BIK Boom Trucks, Milford, MA
Equipment Depot, Mt. Laurel, NJ
EquipPro Distributors LLC, New Braunfels, TX
Forklift Exchange Inc., Chicago, IL
Hiab USA, Perrysburg, OH
Irving Equipment LLC, Tiffin, OH
iwi Concrete Equipment Group, Norcross, GA
mbk Maschinenbau GmbH, Kisslegg, Germany
Mi-Jack Products, Hazel Crest, IL
Taylor Machine Works Inc., Louisville, MS
Ultra-Span Technologies Inc., Winnipeg, Canada

Wheel Loaders

Combilift, Greensboro, NC Forklift Exchange Inc., Chicago, IL Hyundai Material Handling, Norcross, GA Kenco Corp., Ligonier, PA Liebherr USA Co., Newport News, VA

Plant Equipment

A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH EquipPro Distributors LLC, New Braunfels, TX FMS USA, Greenville, SC Hamilton Form Co., Fort Worth, TX IMER Group, Southlake, TX IntelliBatch by Egan Company, Champlin, MN MCT Group, Reno, NV
Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, NA-PO Industrial Systems LLC, New Braunfels, TX Slab Innovation Inc., St-Hubert, Canada Standley Batch Systems Inc., Cape Girardeau, MO Texaloy Foundry, Floresville, TX Topwerk America Inc., Conroe, TX Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Aggregate Heating and Cooling

Advanced Concrete Technologies Inc., Greenland, NH EquipPro Distributors LLC, New Braunfels, TX IntelliBatch by Egan Company, Champlin, MN Kraft Curing Systems Inc., Fairless Hills, PA PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Polarmatic Ltd., Cincinnati, OH SIMEM America Corp., San Antonio, TX Sioux Corporation, Beresford, SD Standley Batch Systems Inc., Cape Girardeau, MO Voeller Mixers, Port Washington, WI

Automated Production Equipment

Afinitas Equipment and Automation, Mediapolis, IA Afinitas Forming Systems, New Hampton, IA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom Cleco Manufacturing, Hudson, NH Columbia Machine Inc., Vancouver, WA Concrete Robotics GmbH, Kassel, Germany Coote Engineering Ltd., Co. Tyrone, United Kingdom Cyclonaire, York, NE EquipPro Distributors LLC, New Braunfels, TX IntelliBatch by Egan Company, Champlin, MN mbk Maschinenbau GmbH, Kisslegg, Germany MEP SpA, Reana del Rojale, UD, Italy MPAQ Automation Inc., Mississauga, Canada Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI Ratec America Corporation, Clearwater, FL RIB Software, Vienna, Austria Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Teksam ApS, Hanstholm, Denmark Topwerk America Inc., Conroe, TX Trimble Inc., Kennesaw, GA Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-

Württemberg, Germany

Dormettingen, Germany

Waukesha, WI

Walter Cleaning Systems USA Inc., Charlotte, NC

Weckenmann Anlagentechnik GmbH & Co. KG,

Wells Concrete (Spancrete Machinery Division),

Wieser Form Fabrication, Menomonie, WI

122 **precast TODAY** | Q3 2023

Waukesha, WI

Wells Concrete (Spancrete Machinery Division),

Block & Paver Machines

Besser Company, Alpena, MI iwi Concrete Equipment Group, Norcross, GA Pathfinder Systems, Holland, MI

Block Plants

Besser Company, Alpena, MI
CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom
Columbia Machine Inc., Vancouver, WA
Industrial Services International LLC, Williamsport, MD
iwi Concrete Equipment Group, Norcross, GA
MCT Group, Reno, NV
PA-PO Industrial Systems LLC, New Braunfels, TX
Pathfinder Systems, Holland, MI
Rod Chomper Inc., Holland, MI
SIMEM America Corp., San Antonio, TX
Standley Batch Systems Inc., Cape Girardeau, MO
Texaloy Foundry, Floresville, TX
Topwerk America Inc., Conroe, TX
W.P. Hilts & Co., Roanoke, VA

Cage Welding Machines

American Progress Group Corp., Chicago, IL apilion machines + services GmbH, Kehl/Rhein, Baden-Württemberg, Germany
Del Zotto Products Inc., Wrenshall, MN
mbk Maschinenbau GmbH, Kisslegg, Germany
MEP SpA, Reana del Rojale, UD, Italy
SKEW Accessories b.v., 7384 DL Wilp, Netherlands
Topwerk America Inc., Conroe, TX
Ultra-Span Technologies Inc., Winnipeg, Canada

Afinitas Equipment and Automation, Mediapolis, IA

Concrete Brick Machines

Besser Company, Alpena, MI Pathfinder Systems, Holland, MI

Concrete Reclaiming/Recycling

Advanced Concrete Technologies Inc., Greenland, NH Columbia Machine Inc., Vancouver, WA Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Gensco Equipment, Toronto, Canada Liebherr USA Co., Newport News, VA Matec Industries, High Point, NC MCT Group, Reno, NV SIMEM America Corp., San Antonio, TX Tecwill Canada Inc., Toronto, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI Water Treatment Solutions Inc., Hampton, NH

Concrete Slab Machines

American Progress Group Corp., Chicago, IL
Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,
Italy
Pathfinder Systems, Holland, MI
SOMMER Precast Technology, Altheim, BadenWürttemberg, Germany
Weckenmann Anlagentechnik GmbH & Co. KG,
Dormettingen. Germany

Concrete Testing Equipment

Afinitas Equipment and Automation, Mediapolis, IA
ALP Supply, Fairless Hills, PA
Clearstream Wastewater Systems Inc., Lumberton, TX
Doka The Formwork Experts, Kenilworth, NJ
Forney LP, Zelienople, PA
Hamilton Kent LLC, Winchester, TN
iwi Concrete Equipment Group, Norcross, GA
MCT Group, Reno, NV
MESA Systems Co., Stonington, CT
Myers Construction Materials Testing Equipment,
Scarborough, ME
Sicoma North America Inc., Clearwater, FL
Topwerk America Inc., Conroe, TX
White Cap LP, Norcross, GA

Concrete/Masonry Saws

American Progress Group Corp., Chicago, IL CWolf Industries LLC, Houston, TX Elematic Inc., Brookfield, WI IMER Group, Southlake, TX Myers Construction Materials Testing Equipment, Scarborough, ME Ultra-Span Technologies Inc., Winnipeg, Canada White Cap LP, Norcross, GA

Curing Blankets

Afinitas Equipment and Automation, Mediapolis, IA ALP Supply, Fairless Hills, PA
CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom Chameleon Innovations, Pointe-Claire, Canada Contractors Materials Co./MMI, Cincinnati, OH Elematic Inc., Brookfield, WI iwi Concrete Equipment Group, Norcross, GA Kraft Curing Systems Inc., Fairless Hills, PA Mel C. Marshall Industrial Consultants Inc., Delta, Canada Pathfinder Systems, Holland, MI Sika Corporation, Lyndhurst, NJ Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany White Cap LP, Norcross, GA

Curing Systems

Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI CarbonBuilt Inc., Torrance, CA CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom Columbia Machine Inc., Vancouver, WA Contractors Materials Co./MMI, Cincinnati, OH Elematic Inc., Brookfield, WI Industrial Services International LLC, Williamsport, MD iwi Concrete Equipment Group, Norcross, GA Kraft Curing Systems Inc., Fairless Hills, PA MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Polarmatic Ltd., Cincinnati, OH R-E-D Industrial Products LLC, Grove City, PA Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Sioux Corporation, Beresford, SD SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Standley Batch Systems Inc., Cape Girardeau, MO Topwerk America Inc., Conroe, TX Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG,

Dormettingen, Germany

Waukesha, WI

Wells Concrete (Spancrete Machinery Division),

Diamond Cutting Products

CWolf Industries LLC, Houston, TX Myers Construction Materials Testing Equipment, Scarborough, ME Press-Seal Corporation, Fort Wayne, IN Probst Inc., Franksville, WI Trelleborg Pipe Seals Milford, Milford, NH Wagman Metal Products Inc., York, PA White Cap LP, Norcross, GA

Drilling/Coring Machinery

CWolf Industries LLC, Houston, TX
Elematic Inc., Brookfield, WI
Myers Construction Materials Testing Equipment,
Scarborough, ME
Press-Seal Corporation, Fort Wayne, IN
RimRiser, Vancouver, WA
Teksam ApS, Hanstholm, Denmark
Topwerk America Inc., Conroe, TX
Trelleborg Pipe Seals Milford, Milford, NH
White Cap LP, Norcross, GA

Dry-Cast Equipment

Afinitas Equipment and Automation, Mediapolis, IA Besser Company, Alpena, MI CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom Cleco Manufacturing, Hudson, NH Coote Engineering Ltd., Co. Tyrone, United Kingdom Del Zotto Products Inc., Wrenshall, MN Elematic Inc., Brookfield, WI Gar-Bro Manufacturing Co., Heber Springs, AR GCI Pipe Products Inc., Shawnee, KS Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands iwi Concrete Equipment Group, Norcross, GA Mel C. Marshall Industrial Consultants Inc., Delta, Canada Pathfinder Systems, Holland, MI Schlusselbauer North America LLC, Lebanon, TN Slab Innovation Inc., St-Hubert, Canada Teksam ApS, Hanstholm, Denmark Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha, WI Wieser Form Fabrication, Menomonie, WI

Dust Control Equipment

Advanced Concrete Technologies Inc., Greenland, NH AIRMATIC Inc., Malvern, PA Besser Company, Alpena, MI Columbia Machine Inc., Vancouver, WA Cyclonaire, York, NE Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX iwi Concrete Equipment Group, Norcross, GA MCT Group, Reno, NV PA-PO Industrial Systems LLC, New Braunfels, TX SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada Standley Batch Systems Inc., Cape Girardeau, MO Ultra-Span Technologies Inc., Winnipeg, Canada Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Elevators

Advanced Concrete Technologies Inc., Greenland, NH EquipPro Distributors LLC, New Braunfels, TX MCT Group, Reno, NV PA-PO Industrial Systems LLC, New Braunfels, TX SIMEM America Corp., San Antonio, TX Standley Batch Systems Inc., Cape Girardeau, MO Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Finishing Machines

Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano,

Pathfinder Systems, Holland, MI Ratec America Corporation, Clearwater, FL SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Weckenmann Anlagentechnik GmbH & Co. KG,

Dormettingen, Germany Wells Concrete (Spancrete Machinery Division),

Hydraulic Products

Waukesha, WI

Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Gensco Equipment, Toronto, Canada Irving Equipment LLC, Tiffin, OH Paul Jacks USA LLC, Miami, FL Rod Chomper Inc., Holland, MI Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Vince Hagan Company, Sunnyvale, TX Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Industrial HEPA Vacuum Cleaning Systems

Truebite Inc., Vestal, NY White Cap LP, Norcross, GA

Industrial Liquid Vacuum Cleaning Systems

Pathfinder Systems, Holland, MI Truebite Inc., Vestal, NY White Cap LP, Norcross, GA

Kiln Doors

Afinitas Equipment and Automation, Mediapolis, IA Besser Company, Alpena, MI iwi Concrete Equipment Group, Norcross, GA Pathfinder Systems, Holland, MI

Ladders

American Infrastructure and Metal Works, Fort Worth, TX American Step Co. Inc., Griffin, GA D & L Supply Co. Inc., Lindon, UT Doka The Formwork Experts, Kenilworth, NJ EquipPro Distributors LLC, New Braunfels, TX Lane International Corp., Tualatin, OR MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada Pennsylvania Insert Corp., Royersford, PA Standley Batch Systems Inc., Cape Girardeau, MO U.S.F. Fabrication Inc., Hialeah, FL Vince Hagan Company, Sunnyvale, TX White Cap LP, Norcross, GA

Large Format Machines

American Progress Group Corp., Chicago, IL

Lintel Machinery

Coote Engineering Ltd., Co. Tyrone, United Kingdom Pathfinder Systems, Holland, MI SIMEM America Corp., San Antonio, TX Teksam ApS, Hanstholm, Denmark Topwerk America Inc., Conroe, TX Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Machine Maintenance Supplies

Afinitas Equipment and Automation, Mediapolis, IA Industrial Services International LLC, Williamsport, MD mbk Maschinenbau GmbH, Kisslegg, Germany Pathfinder Systems, Holland, MI Texaloy Foundry, Floresville, TX Topwerk America Inc., Conroe, TX Walter Cleaning Systems USA Inc., Charlotte, NC Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Measurement Equipment

Afinitas Equipment and Automation, Mediapolis, IA A-Lok Products Inc., Tullytown, PA AS3 Precast Sales LLC, Lexington, KY Clearstream Wastewater Systems Inc., Lumberton, TX Hamilton Kent LLC. Winchester, TN IntelliBatch by Egan Company, Champlin, MN MESA Systems Co., Stonington, CT Paul Jacks USA LLC. Miami. FL Scale-Tron Inc., Dollard des Ormeaux, Canada Vince Hagan Company, Sunnyvale, TX Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Moisture Probes

Advanced Concrete Technologies Inc., Greenland, NH Besser Company, Alpena, MI Columbia Machine Inc., Vancouver, WA Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Haarup North America Inc., Ridgefield, WA Hydronix, Harbor Springs, MI IntelliBatch by Egan Company, Champlin, MN iwi Concrete Equipment Group, Norcross, GA Jonel Engineering, Fullerton, CA Liebherr USA Co., Newport News, VA MCT Group, Reno, NV MESA Systems Co., Stonington, CT MPAQ Automation Inc., Mississauga, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Polarmatic Ltd., Cincinnati, OH Scale-Tron Inc., Dollard des Ormeaux, Canada SIMEM America Corp., San Antonio, TX Skako Concrete Inc., Coopersburg, PA Standley Batch Systems Inc., Cape Girardeau, MO Tecwill Canada Inc., Toronto, Canada Texaloy Foundry, Floresville, TX Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Other Plant Equipment

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA Afinitas Forming Systems, New Hampton, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Blackthorn LLC, Clayton, OH Columbia Machine Inc., Vancouver, WA EBS Ink-Jet Systems USA Inc., Libertyville, IL Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX FMS USA, Greenville, SC Haarup North America Inc., Ridgefield, WA Hamilton Form Co., Fort Worth, TX Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Hyster Company, Greenville, NC InfoSight Corporation, Chillicothe, OH ISKCO/Toyota Forms, North Little Rock, AR Martin Engineering, Neponset, IL mbk Maschinenbau GmbH, Kisslegg, Germany MCT Group, Reno, NV Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI Putzmeister America Inc., Sturtevant, WI Shuttlelift, Sturgeon Bay, WI SIMEM America Corp., San Antonio, TX Sioux Corporation, Beresford, SD Solimar Pneumatics, Minneapolis, MN SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Standley Batch Systems Inc., Cape Girardeau, MO Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Walter Cleaning Systems USA Inc., Charlotte, NC Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Other Welding Equipment

Waukesha, WI

Clearstream Wastewater Systems Inc., Lumberton, TX Eurobend GmbH, Nürnberg, Germany mbk Maschinenbau GmbH, Kisslegg, Germany MEP SpA, Reana del Rojale, UD, Italy SKEW Accessories b.v., 7384 DL Wilp, Netherlands Ultra-Span Technologies Inc., Winnipeg, Canada

Wells Concrete (Spancrete Machinery Division),

Wieser Form Fabrication, Menomonie, WI

Overhead Delivery Systems

Advanced Concrete Technologies Inc., Greenland, NH Afinitas Equipment and Automation, Mediapolis, IA A-Lok Products Inc., Tullytown, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Columbia Machine Inc., Vancouver, WA Combilift, Greensboro, NC Coote Engineering Ltd., Co. Tyrone, United Kingdom Cranes 101, Bellingham, MA Elematic Inc., Brookfield, WI $\label{eq:continuous} \textit{EquipPro Distributors LLC}, \textit{New Braunfels}, \textit{TX}$ Gar-Bro Manufacturing Co., Heber Springs, AR IMER Group, Southlake, TX MCT Group, Reno, NV Mel C. Marshall Industrial Consultants Inc., Delta, Canada PA-PO Industrial Systems LLC, New Braunfels, TX Putzmeister America Inc., Sturtevant, WI Shuttlelift, Sturgeon Bay, WI Sicoma North America Inc., Clearwater, FL Skako Concrete Inc., Coopersburg, PA Ultra-Span Technologies Inc., Winnipeg, Canada Voeller Mixers, Port Washington, WI Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany

Pallets

American Progress Group Corp., Chicago, IL
Avermann Group, Osnabrueck, Niedersachsen, Germany
Besser Company, Alpena, MI
Coote Engineering Ltd., Co. Tyrone, United Kingdom
Elematic Inc., Brookfield, WI
Hamilton Form Co., Fort Worth, TX
Humarbo Machinery B.V., Vaassen, Gelderland, Holland,
Netherlands
Industrial Services International LLC, Williamsport, MD

Afinitas Equipment and Automation, Mediapolis, IA

iwi Concrete Equipment Group, Norcross, GA Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Pathfinder Systems, Holland, MI

Pathfinder Systems, Holland, MI Pennsylvania Insert Corp., Royersford, PA Ratec America Corporation, Clearwater, FL Schlusselbauer North America LLC, Lebanon, TN SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-

Württemberg, Germany
Weckenmann Anlagentechnik GmbH & Co. KG,
Dornettingen, Germany

Dormettingen, Germany Western Forms Inc., Kansas City, MO

Paving Products Machinery

Afinitas Equipment and Automation, Mediapolis, IA
Besser Company, Alpena, MI
CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom
Columbia Machine Inc., Vancouver, WA
Contractors Materials Co./MMI, Cincinnati, OH
FMS USA, Greenville, SC
Humarbo Machinery B.V., Vaassen, Gelderland, Holland,
Netherlands
iwi Concrete Equipment Group, Norcross, GA

Pigment Metering Dispensers

Probst Inc., Franksville, WI

Topwerk America Inc., Conroe, TX

Advanced Concrete Technologies Inc., Greenland, NH

Pipe and Manhole Machines

Afinitas Equipment and Automation, Mediapolis, IA Besser Company, Alpena, MI
Coote Engineering Ltd., Co. Tyrone, United Kingdom Del Zotto Products Inc., Wrenshall, MN
GCI Pipe Products Inc., Shawnee, KS
Matt Childs Engineering, Flower Mound, TX
Pathfinder Systems, Holland, MI
Schlusselbauer North America LLC, Lebanon, TN
Teksam ApS, Hanstholm, Denmark
Texaloy Foundry, Floresville, TX
Topwerk America Inc., Conroe, TX

Portable Cutters & Benders

AIRMATIC Inc., Malvern, PA BN Products USA, Wickenburg, AZ CWolf Industries LLC, Houston, TX FMS USA, Greenville, SC Gensco Equipment, Toronto, Canada iwi Concrete Equipment Group, Norcross, GA MAX USA Corp., Plainview, NY Rod Chomper Inc., Holland, MI White Cap LP, Norcross, GA Wieser Form Fabrication, Menomonie, WI

Post-tensioning Jacks

ALP Supply, Fairless Hills, PA Elematic Inc., Brookfield, WI Gensco Equipment, Toronto, Canada Leviat, Riverview, FL Paul Jacks USA LLC, Miami, FL SIMEM America Corp., San Antonio, TX Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Power Tools

AIRMATIC Inc., Malvern, PA BN Products USA, Wickenburg, AZ Clearstream Wastewater Systems Inc., Lumberton, TX CWolf Industries LLC, Houston, TX Gensco Equipment, Toronto, Canada MAX USA Corp., Plainview, NY mbk Maschinenbau GmbH, Kisslegg, Germany Rattle Stick Concrete Tools, Roseville, CA Rod Chomper Inc., Holland, MI White Cap LP, Norcross, GA

Prestress Jacks

Waukesha, WI

ALP Supply, Fairless Hills, PA

Gensco Equipment, Toronto, Canada Hamilton Form Co., Fort Worth, TX Leviat, Riverview, FL Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Italy Paul Jacks USA LLC, Miami, FL SIMEM America Corp., San Antonio, TX Wells Concrete (Spancrete Machinery Division),

Retractable Enclosures

CDS Curing, Stoke-on-Trent, Staffordshire, United Kingdom Chameleon Innovations, Pointe-Claire, Canada EquipPro Distributors LLC, New Braunfels, TX Kraft Curing Systems Inc., Fairless Hills, PA Pathfinder Systems, Holland, MI Polarmatic Ltd., Cincinnati, OH

Scales

Columbia Machine Inc., Vancouver, WA
EquipPro Distributors LLC, New Braunfels, TX
MCT Group, Reno, NV
Myers Construction Materials Testing Equipment,
Scarborough, ME
PA-PO Industrial Systems LLC, New Braunfels, TX
Scale-Tron Inc., Dollard des Ormeaux, Canada
SIMEM America Corp., San Antonio, TX
Vince Hagan Company, Sunnyvale, TX

Shearlines

FMS USA, Greenville, SC Gensco Equipment, Toronto, Canada KRB Machinery Co., Wrightsville, PA mbk Maschinenbau GmbH, Kisslegg, Germany Rod Chomper Inc., Holland, MI

Shock/Vibration/Impact Control Devices

White Cap LP, Norcross, GA

Shop Supplies

AIRMATIC Inc., Malvern, PA A-Lok Products Inc., Tullytown, PA CWolf Industries LLC, Houston, TX

Sign/Stencil Machine

Bren Inc., College Grove, TN Clearstream Wastewater Systems Inc., Lumberton, TX EBS Ink-Jet Systems USA Inc., Libertyville, IL InfoSight Corporation, Chillicothe, OH Schlusselbauer North America LLC, Lebanon, TN

Silos

Advanced Concrete Technologies Inc., Greenland, NH AIRMATIC Inc., Malvern, PA Clearstream Wastewater Systems Inc., Lumberton, TX Columbia Machine Inc., Vancouver, WA Cyclonaire, York, NE Del Zotto Products Inc., Wrenshall, MN EquipPro Distributors LLC, New Braunfels, TX iwi Concrete Equipment Group, Norcross, GA Liebherr USA Co., Newport News, VA MCT Group, Reno, NV PA-PO Industrial Systems LLC, New Braunfels, TX Pathfinder Systems, Holland, MI SIMEM America Corp., San Antonio, TX Solimar Pneumatics, Minneapolis, MN Standley Batch Systems Inc., Cape Girardeau, MO Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Source-Capture Concrete Tools

Wagman Metal Products Inc., York, PA

Specialty Tools

A-Lok Products Inc., Tullytown, PA BN Products USA, Wickenburg, AZ EBS Ink-Jet Systems USA Inc., Libertyville, IL Gensco Equipment, Toronto, Canada Martin Engineering, Neponset, IL MAX USA Corp., Plainview, NY Probst Inc., Franksville, WI Rattle Stick Concrete Tools, Roseville, CA RimRiser, Vancouver, WA ROMIX Inc., Euless, TX Truebite Inc., Vestal, NY

Sprayers

Afinitas Equipment and Automation, Mediapolis, IA A-Lok Products Inc., Tullytown, PA ALP Supply, Fairless Hills, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Contractors Materials Co./MMI, Cincinnati, OH Cresset Chemical Co., Weston, OH CWolf Industries LLC, Houston, TX Del Zotto Products Inc., Wrenshall, MN Fister Quarries Group Inc. & Fister Inc., Batavia, IL Haarup North America Inc., Ridgefield, WA Hill and Griffith Co., Indianapolis, IN Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Nox-Crete Inc., Omaha, NE Pappada Gino Di Pappada Massimo, Compiano, Italy RoMix Inc., Euless, TX Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Wagman Metal Products Inc., York, PA Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany White Cap LP, Norcross, GA

Stationary Cutters & Benders

AIRMATIC Inc., Malvern, PA American Progress Group Corp., Chicago, IL CWolf Industries LLC, Houston, TX FMS USA, Greenville, SC Gensco Equipment, Toronto, Canada iwi Concrete Equipment Group, Norcross, GA KRB Machinery Co., Wrightsville, PA mbk Maschinenbau GmbH, Kisslegg, Germany Rod Chomper Inc., Holland, MI Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada

Steel Production Pallets

iwi Concrete Equipment Group, Norcross, GA Pathfinder Systems, Holland, MI

Stencil Inks/Plant Markers

Bren Inc., College Grove, TN Clearstream Wastewater Systems Inc., Lumberton, TX EBS Ink-Jet Systems USA Inc., Libertyville, IL InfoSight Corporation, Chillicothe, OH

Stencil Materials & Accessories

Bren Inc., College Grove, TN Clearstream Wastewater Systems Inc., Lumberton, TX InfoSight Corporation, Chillicothe, OH

Stirrup Benders

Afinitas Concrete Accessories, Mediapolis, IA American Progress Group Corp., Chicago, IL Eurobend GmbH, Nürnberg, Germany Gensco Equipment, Toronto, Canada KRB Machinery Co., Wrightsville, PA mbk Maschinenbau GmbH, Kisslegg, Germany MEP SpA, Reana del Rojale, UD, Italy Rod Chomper Inc., Holland, MI Ultra-Span Technologies Inc., Winnipeg, Canada

Strand Pushing Machine

American Progress Group Corp., Chicago, IL Elematic Inc., Brookfield, WI Gensco Equipment, Toronto, Canada Pappada Gino Di Pappada Massimo, Compiano, Italy Paul Jacks USA LLC, Miami, FL Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Tilt-up Equipment

Avermann Group, Osnabrueck, Niedersachsen, Germany Coote Engineering Ltd., Co. Tyrone, United Kingdom Del Zotto Products Inc., Wrenshall, MN Elematic Inc., Brookfield, WI Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Irving Equipment LLC, Tiffin, OH Leviat, Riverview, FL mbk Maschinenbau GmbH, Kisslegg, Germany Paragon Products, Mount Pleasant, IA Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Putzmeister America Inc., Sturtevant, WI Ratec America Corporation, Clearwater, FL Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany White Cap LP, Norcross, GA

Tumblers

Besser Company, Alpena, MI iwi Concrete Equipment Group, Norcross, GA

Used Plant Equipment

Del Zotto Products Inc., Wrenshall, MN EquipPro Distributors LLC, New Braunfels, TX Gensco Equipment, Toronto, Canada Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands

iwi Concrete Equipment Group, Norcross, GA mbk Maschinenbau GmbH, Kisslegg, Germany Ultra-Span Technologies Inc., Winnipeg, Canada Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Vibrating Tables

Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA American Progress Group Corp., Chicago, IL Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Cleco Manufacturing, Hudson, NH Coote Engineering Ltd., Co. Tyrone, United Kingdom CWolf Industries LLC, Houston, TX Del Zotto Products Inc., Wrenshall, MN Denver Concrete Vibrator, Denver, CO Elematic Inc., Brookfield, WI Humarbo Machinery B.V., Vaassen, Gelderland, Holland, ISKCO/Toyota Forms, North Little Rock, AR iwi Concrete Equipment Group, Norcross, GA Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pathfinder Systems, Holland, MI

Ratec America Corporation, Clearwater, FL Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX Slab Innovation Inc., St-Hubert, Canada SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany Teksam ApS, Hanstholm, Denmark Ultra-Span Technologies Inc., Winnipeg, Canada Vollert Anlagenbau GmbH, Weinsberg, Baden-Württemberg, Germany Weckenmann Anlagentechnik GmbH & Co. KG, Dormettingen, Germany Wieser Form Fabrication, Menomonie, WI

Vibrators - External

Afinitas Concrete Accessories, Mediapolis, IA Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Clearstream Wastewater Systems Inc., Lumberton, TX Coote Engineering Ltd., Co. Tyrone, United Kingdom CWolf Industries LLC, Houston, TX Del Zotto Products Inc., Wrenshall, MN Denver Concrete Vibrator, Denver, CO Elematic Inc., Brookfield, WI Hamilton Form Co., Fort Worth, TX ISKCO/Toyota Forms, North Little Rock, AR iwi Concrete Equipment Group, Norcross, GA Martin Engineering, Neponset, IL Moldtech S.L., Alcalá de Guadaíra, Seville, Spain MSP Structures Inc., Granby, Canada Pathfinder Systems, Holland, MI Rattle Stick Concrete Tools, Roseville, CA Schlusselbauer North America LLC, Lebanon, TN SIMEM America Corp., San Antonio, TX SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany W.P. Hilts & Co., Roanoke, VA

Vibrators - Internal

Afinitas Concrete Accessories, Mediapolis, IA Afinitas Equipment and Automation, Mediapolis, IA AIRMATIC Inc., Malvern, PA Avermann Group, Osnabrueck, Niedersachsen, Germany Besser Company, Alpena, MI Blackthorn LLC, Clayton, OH Clearstream Wastewater Systems Inc., Lumberton, TX Coote Engineering Ltd., Co. Tyrone, United Kingdom CWolf Industries LLC, Houston, TX Denver Concrete Vibrator, Denver, CO Elematic Inc., Brookfield, WI ISKCO/Toyota Forms, North Little Rock, AR iwi Concrete Equipment Group, Norcross, GA Northrock Industries Inc., Bohemia, NY Oztec Industries Inc., Port Washington, N Pathfinder Systems, Holland, MI Rattle Stick Concrete Tools, Roseville, CA Schlusselbauer North America LLC, Lebanon, TN SOMMER Precast Technology, Altheim, Baden-Württemberg, Germany White Cap LP, Norcross, GA

Wall Machines

Humarbo Machinery B.V., Vaassen, Gelderland, Holland, Netherlands Pathfinder Systems, Holland, MI

Water Heaters

IntelliBatch by Egan Company, Champlin, MN iwi Concrete Equipment Group, Norcross, GA Kraft Curing Systems Inc., Fairless Hills, PA Polarmatic Ltd., Cincinnati, OH Sioux Corporation, Beresford, SD Vince Hagan Company, Sunnyvale, TX Voeller Mixers, Port Washington, WI W.P. Hilts & Co., Roanoke, VA

Wire Mesh Resistance Welding Equipment

Afinitas Equipment and Automation, Mediapolis, IA American Progress Group Corp., Chicago, Il apilion machines + services GmbH, Kehl/Rhein, Baden-Württemberg, Germany Eurobend GmbH, Nürnberg, Germany mbk Maschinenbau GmbH, Kisslegg, Germany Topwerk America Inc., Conroe, TX Ultra-Span Technologies Inc., Winnipeg, Canada White Cap LP, Norcross, GA

Wire Tiers

AIRMATIC Inc., Malvern, PA BN Products USA, Wickenburg, AZ

Reinforcement

Adelphia Metals Inc., Cherry Hill, NJ
ALP Supply, Fairless Hills, PA
Basalt Engineering LLC, Winchester, VA
Basalt Engineering LLC, Winchester, VA
Bekaert Corporation, Marietta, GA
Contractors Materials Co./MMI, Cincinnati, OH
Dayton Superior Corp., Miamisburg, OH
Euclid Chemical Co., Cleveland, OH
FORTA Concrete Fiber, Grove City, PA
HD Williams Co., New Castle, IN
Insteel Wire Products, Mount Airy, NC
Master Builders Solutions, Cleveland, OH
MAX USA Corp., Plainview, NY
mbk Maschinenbau GmbH, Kisslegg, Germany
Numesh Inc., Laval, Canada
Sika Corporation, Lyndhurst, NJ

Bright Basic Wire

Bekaert Corporation, Marietta, GA Contractors Materials Co./MMI, Cincinnati, OH Davis Wire Corp., Irwindale, CA Insteel Wire Products, Mount Airy, NC King Steel Corp., Grand Blanc, MI Laurel Steel, Burlington, Canada Liberty Engineered Wire Products Inc., Upper Sandusky, ОН Madison Steel Inc., Atlanta, GA National Wire LLC, Conroe, TX Numesh Inc., Laval, Canada Oklahoma/Iowa Steel & Wire Co., Madill, OK =StaalXLLC, Chicago, IL StelCrete Industries Ltd., Welland, Canada Tuf-N-Lite, Hamilton, OH Worth Steel, Alsip, IL

Cellulose Fiber & Dispensing Equipment

Solomon Colors, Springfield, IL

Fiber Reinforcement - AR Glass

ALP Supply, Fairless Hills, PA
Basalt Engineering LLC, Winchester, VA
Blue Fiber Group Inc., Newark, DE
Nycon Corp., Bristol, PA
Precast Concrete Concepts LLC, Lewisville, NC
R-E-D Industrial Products LLC, Grove City, PA
SFTec Inc., Dorval, Canada
Smooth-On Inc., Macungie, PA
Trinic LLC, Kirkwood, NY

Fiber Reinforcement - Blended

ALP Supply, Fairless Hills, PA
Basalt Engineering LLC, Winchester, VA
Bekaert Corporation, Marietta, GA
Euclid Chemical Co., Cleveland, OH
FiberWorx/Monahan Filaments, Arcola, IL
FORTA Concrete Fiber, Grove City, PA
Master Builders Solutions, Cleveland, OH
Nycon Corp., Bristol, PA
Precast Concrete Concepts LLC, Lewisville, NC
Premiere Concrete Admixtures LLC, Pioneer, OH
STTec Inc., Dorval, Canada
Sika Corporation, Lyndhurst, NJ

Fiber Reinforcement - Steel

ALP Supply, Fairless Hills, PA

=Basalt Engineering LLC, Winchester, VA

Buildtech Sourcing LLC, Boynton Beach, FL

Euclid Chemical Co., Cleveland, OH

FiberWorx/Monahan Filaments, Arcola, IL

Helix Steel, Ann Arbor, MI

Madison Steel Inc., Atlanta, GA

Master Builders Solutions, Cleveland, OH

Nycon Corp., Bristol, PA

Precast Concrete Concepts LLC, Lewisville, NC

Premiere Concrete Admixtures LLC, Pioneer, OH

SFTec Inc., Dorval, Canada

Sika Corporation, Lyndhurst, NJ

Fiber Reinforcement - Synthetic

ALP Supply, Fairless Hills, PA Basalt Engineering LLC, Winchester, VA Bekaert Corporation, Marietta, GA Blue Fiber Group Inc., Newark, DE Chryso and GCP, Alpharetta, GA Euclid Chemical Co., Cleveland, OH FiberWorx/Monahan Filaments, Arcola, IL FORTA Concrete Fiber, Grove City, PA Master Builders Solutions, Cleveland, OH Precast Concrete Concepts LLC, Lewisville, NC Premiere Concrete Admixtures LLC, Pioneer, OH R-E-D Industrial Products LLC, Grove City, PA SafeTCrete, Little Rock, AR SFTec Inc., Dorval, Canada Sika Corporation, Lyndhurst, NJ Smooth-On Inc., Macungie, PA Trelleborg Pipe Seals Milford, Milford, NH

Nonmetallic Reinforcement - Grids and Rebar

ALP Supply, Fairless Hills, PA
Basalt Engineering LLC, Winchester, VA
Blue Fiber Group Inc., Newark, DE
Buildtech Sourcing LLC, Boynton Beach, FL
Contractors Materials Co./MMI, Cincinnati, OH
Nycon Corp., Bristol, PA
Re-Steel Supply Co. Inc., Eddystone, PA
SafeTCrete, Little Rock, AR
V-ROD USA Inc., Kernersville, NC
WEAV3D Inc., Norcross, GA
White Cap LP, Norcross, GA

Rebar - Conventional Steel

Afinitas Concrete Accessories, Mediapolis, IA
Basalt Engineering LLC, Winchester, VA
BlueLinx Corporation, Marietta, GA
Contractors Materials Co./MMI, Cincinnati, OH
Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN
Harris Supply Solutions, Seattle, WA
HD Williams Co., New Castle, IN
Madison Steel Inc., Atlanta, GA
mbk Maschinenbau GmbH, Kisslegg, Germany
StaalXLLC, Chicago, IL
Tuf-N-Lite, Hamilton, OH

Rebar - Epoxy-Coated

Basalt Engineering LLC, Winchester, VA Contractors Materials Co./MMI, Cincinnati, OH Harris Supply Solutions, Seattle, WA Tuf-N-Lite, Hamilton, OH

Rebar - Fabricated

Afinitas Concrete Accessories, Mediapolis, IA
American Progress Group Corp., Chicago, IL
Basalt Engineering LLC, Winchester, VA
Blue Fiber Group Inc., Newark, DE
Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN
Harris Supply Solutions, Seattle, WA
HD Williams Co., New Castle, IN
MEP SpA, Reana del Rojale, UD, Italy
StaalXLLC, Chicago, IL
Tuf-N-Lite, Hamilton, OH
WEAV3D Inc., Norcross, GA

Rebar - Galvanized

Adelphia Metals Inc., Cherry Hill, NJ Afinitas Concrete Accessories, Mediapolis, IA Barsplice Products Inc., Dayton, OH Basalt Engineering LLC, Winchester, VA Bekaert Corporation, Marietta, GA Contractors Materials Co./MMI, Cincinnati, OH Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN King Steel Corp., Grand Blanc, MI Landcon/Starcon Lifting Anchors, Thornhill, Canada Laurel Steel, Burlington, Canada Liberty Engineered Wire Products Inc., Upper Sandusky, Numesh Inc., Laval, Canada Oklahoma/Iowa Steel & Wire Co., Madill, OK Re-Steel Supply Co. Inc., Eddystone, PA StelCrete Industries Ltd., Welland, Canada Trimble Inc., Kennesaw, GA Tuf-N-Lite, Hamilton, OH White Cap LP, Norcross, GA

Rebar - Stainless Steel

Adelphia Metals Inc., Cherry Hill, NJ
Afinitas Concrete Accessories, Mediapolis, IA
Barsplice Products Inc., Dayton, OH
Basalt Engineering LLC, Winchester, VA
Contractors Materials Co./MMI, Cincinnati, OH
Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN
Madison Steel Inc., Atlanta, GA
MEP SpA, Reana del Rojale, UD, Italy
Re-Steel Supply Co. Inc., Eddystone, PA
StelCrete Industries Ltd., Welland, Canada
Trimble Inc., Kennesaw, GA
White Cap LP, Norcross, GA

Reinforcement - Other

HD Williams Co., New Castle, IN Nycon Corp., Bristol, PA SFTec Inc., Dorval, Canada

Reinforcing Bars - Basalt

Basalt Engineering LLC, Winchester, VA Buildtech Sourcing LLC, Boynton Beach, FL

Reinforcing Bars - Fiberglass

Adelphia Metals Inc., Cherry Hill, NJ ALP Supply, Fairless Hills, PA Basalt Engineering LLC, Winchester, VA Blue Fiber Group Inc., Newark, DE Buildtech Sourcing LLC, Boynton Beach, FL Contractors Materials Co./MMI, Cincinnati, OH Harris Supply Solutions, Seattle, WA Leviat, Riverview, FL Nycon Corp., Bristol, PA Re-Steel Supply Co. Inc., Eddystone, PA SALIT Specialty Rebar, Buffalo, NY SFTec Inc., Dorval, Canada StelCrete Industries Ltd., Welland, Canada Trinic LLC, Kirkwood, NY Tuf-N-Lite, Hamilton, OH V-ROD USA Inc., Kernersville, NC WEAV3D Inc., Norcross, GA

Reinforcing Bars - Steel

Adelphia Metals Inc., Cherry Hill, NJ Afinitas Concrete Accessories, Mediapolis, IA Applied Systems Associates Inc., Murrysville, PA Barsplice Products Inc., Dayton, OH Basalt Engineering LLC, Winchester, VA Bekaert Corporation, Marietta, GA BlueLinx Corporation, Marietta, GA Clearstream Wastewater Systems Inc., Lumberton, TX Contractors Materials Co./MMI, Cincinnati, OH Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN Harris Supply Solutions, Seattle, WA HD Williams Co., New Castle, IN King Steel Corp., Grand Blanc, MI Landcon/Starcon Lifting Anchors, Thornhill, Canada Laurel Steel, Burlington, Canada Leviat, Riverview, FL mbk Maschinenbau GmbH, Kisslegg, Germany MEP SpA, Reana del Rojale, UD, Italy New Steel Distributors International, Atlanta, GA Numesh Inc., Laval, Canada Nycon Corp., Bristol, PA Oklahoma/Iowa Steel & Wire Co., Madill, OK Re-Steel Supply Co. Inc., Eddystone, PA Rod Chomper Inc., Holland, MI SALIT Specialty Rebar, Buffalo, NY StaalXLLC, Chicago, IL StelCrete Industries Ltd., Welland, Canada Trimble Inc., Kennesaw, GA Tuf-N-Lite, Hamilton, OH Worth Steel, Alsip, IL

Reinforcing Plastic Bar Connectors

Afinitas Concrete Accessories, Mediapolis, IA
Contractors Materials Co./MMI, Cincinnati, OH
New Steel Distributors International, Atlanta, GA
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Tuf-N-Lite, Hamilton, OH
White Cap LP, Norcross, GA

Stainless Steel Mesh

Afinitas Concrete Accessories, Mediapolis, IA
Basalt Engineering LLC, Winchester, VA
BlueLinx Corporation, Marietta, GA
Contractors Materials Co./MMI, Cincinnati, OH
Liberty Engineered Wire Products Inc., Upper Sandusky,
OH
MEP SpA, Reana del Rojale, UD, Italy
StelCrete Industries Ltd., Welland, Canada
Trimble Inc., Kennesaw, GA

Strand

ALP Supply, Fairless Hills, PA Insteel Wire Products, Mount Airy, NC King Steel Corp., Grand Blanc, MI Madison Steel Inc., Atlanta, GA Staal XLLC, Chicago, IL Trinic LLC, Kirkwood, NY

Strand - Epoxy-Coated

Adelphia Metals Inc., Cherry Hill, NJ
Harris Supply Solutions, Seattle, WA
King Steel Corp., Grand Blanc, MI
Landcon/Starcon Lifting Anchors, Thornhill, Canada
Laurel Steel, Burlington, Canada
Liberty Engineered Wire Products Inc., Upper Sandusky,
OH
Oklahoma/Iowa Steel & Wire Co., Madill, OK
Re-Steel Supply Co. Inc., Eddystone, PA
StelCrete Industries Ltd., Welland, Canada

Strand - Galvanized

Madison Steel Inc., Atlanta, GA

Welded Wire Reinforcement

Adelphia Metals Inc., Cherry Hill, NJ Afinitas Concrete Accessories, Mediapolis, IA A-Lok Products Inc., Tullytown, PA American Progress Group Corp., Chicago, IL Bekaert Corporation, Marietta, GA Clearstream Wastewater Systems Inc., Lumberton, TX Contractors Materials Co./MMI, Cincinnati, OH Davis Wire Corp., Irwindale, CA Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN Harris Supply Solutions, Seattle, WA HD Williams Co., New Castle, IN Insteel Wire Products, Mount Airy, NC Keysteel Corp., New Caney, TX King Steel Corp., Grand Blanc, MI Laurel Steel, Burlington, Canada Leviat, Riverview, FL Liberty Engineered Wire Products Inc., Upper Sandusky, Madison Steel Inc., Atlanta, GA mbk Maschinenbau GmbH, Kisslegg, Germany MEP SpA, Reana del Rojale, UD, Italy National Wire LLC, Conroe, TX New Steel Distributors International, Atlanta, GA Numesh Inc., Laval, Canada

Welded Wire Reinforcement - Epoxy-Coated

Oklahoma/Iowa Steel & Wire Co., Madill, OK Re-Steel Supply Co. Inc., Eddystone, PA SALIT Specialty Rebar, Buffalo, NY

StelCrete Industries Ltd., Welland, Canada

StaalXLLC, Chicago, IL

Tuf-N-Lite, Hamilton, OH

Contractors Materials Co./MMI, Cincinnati, OH Insteel Wire Products, Mount Airy, NC Keysteel Corp., New Caney, TX National Wire LLC, Conroe, TX Numesh Inc., Laval, Canada Tuf-N-Lite, Hamilton, OH

Welded Wire Reinforcement - Galvanized

Contractors Materials Co./MMI, Cincinnati, OH Davis Wire Corp., Irwindale, CA Insteel Wire Products, Mount Airy, NC Keysteel Corp., New Caney, TX Madison Steel Inc., Atlanta, GA National Wire LLC, Conroe, TX Tuf-N-Lite, Hamilton, OH

Welded Wire Reinforcement Pipe Fabric

Insteel Wire Products, Mount Airy, NC
Laurel Steel, Burlington, Canada
Liberty Engineered Wire Products Inc., Upper Sandusky,
OH
Madison Steel Inc., Atlanta, GA
mbk Maschinenbau GmbH, Kisslegg, Germany
National Wire LLC, Conroe, TX
Numesh Inc., Laval, Canada
Oklahoma/Iowa Steel & Wire Co., Madill, OK

Davis Wire Corp., Irwindale, CA

Wire Reinforcement

Adelphia Metals Inc., Cherry Hill, NJ Afinitas Concrete Accessories, Mediapolis, IA A-Lok Products Inc., Tullytown, PA Bekaert Corporation, Marietta, GA Clearstream Wastewater Systems Inc. Lumberton TX Contractors Materials Co./MMI, Cincinnati, OH Davis Wire Corp., Irwindale, CA Haala Industries Inc. (Part of Afinitas), Sleepy Eye, MN HD Williams Co., New Castle, IN Insteel Wire Products, Mount Airy, NC Keysteel Corp., New Caney, TX Laurel Steel, Burlington, Canada Leviat, Riverview, FL Liberty Engineered Wire Products Inc., Upper Sandusky, Madison Steel Inc., Atlanta, GA mbk Maschinenbau GmbH, Kisslegg, Germany National Wire LLC, Conroe, TX New Steel Distributors International, Atlanta, GA Numesh Inc., Laval, Canada

Safety Equipment

Oklahoma/Iowa Steel & Wire Co., Madill, OK

Polylok Inc. ZABEL, Wallingford, CT

SALIT Specialty Rebar, Buffalo, NY

StaalXLLC, Chicago, IL

Trimble Inc., Kennesaw, GA

Tuf-N-Lite, Hamilton, OH

Re-Steel Supply Co. Inc., Eddystone, PA

StelCrete Industries Ltd., Welland, Canada

White Cap LP, Norcross, GA

Cabinets, Cans, Drums

White Cap LP, Norcross, GA

Clothing

Ankem Inc., Irving, TX Cintas, Mason, OH CWolf Industries LLC, Houston, TX ROMix Inc., Euless, TX White Cap LP, Norcross, GA

Ergonomic Support

CWolf Industries LLC, Houston, TX White Cap LP, Norcross, GA

Eye & Face Protection

AIRMATIC Inc., Malvern, PA Ankem Inc., Irving, TX Clearstream Wastewater Systems Inc., Lumberton, TX CWolf Industries LLC, Houston, TX ROMix Inc., Euless, TX White Cap LP, Norcross, GA

First Aid

Cintas, Mason, OH Clearstream Wastewater Systems Inc., Lumberton, TX CWolf Industries LLC, Houston, TX ROMix Inc., Euless, TX White Cap LP, Norcross, GA

Hearing & Head Protection

AIRMATIC Inc., Malvern, PA Ankem Inc., Irving, TX Clearstream Wastewater Systems Inc., Lumberton, TX CWolf Industries LLC, Houston, TX ROMix Inc., Euless, TX White Cap LP, Norcross, GA

White Cap LP, Norcross, GA

Other Safety Equipment

Ankem Inc., Irving, TX BN Products USA, Wickenburg, AZ Deslauriers Inc., La Grange Park, IL KIRK Key Interlock Company LLC, North Canton, OH Paragon Products. Mount Pleasant. IA Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Taylor Machine Works Inc., Louisville, MS U.S.F. Fabrication Inc., Hialeah, FL

Walter Cleaning Systems USA Inc., Charlotte, NC White Cap LP, Norcross, GA

Respiratory Protection

Ankem Inc., Irving, TX CWolf Industries LLC, Houston, TX RoMix Inc., Euless, TX White Cap LP, Norcross, GA

Safety Programs

Cintas, Mason, OH Cranes 101, Bellingham, MA Fisher Phillips LLP, Charlotte, NC OVERTON Safety Training Inc., Hillsboro, OR White Cap LP, Norcross, GA

Silica Dust Collectors

AIRMATIC Inc., Malvern, PA Chameleon Innovations, Pointe-Claire, Canada Voeller Mixers, Port Washington, WI White Cap LP, Norcross, GA

Spill Control

White Cap LP, Norcross, GA

oftware Servic

Forney LP, Zelienople, PA Offsight Inc., San Francisco, CA Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, OTB Materials Corp. (Outside the Box Materials), Dalton, RIB Software, Vienna, Austria

Slab Innovation Inc., St-Hubert, Canada Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Automated Plant Control System

American Progress Group Corp., Chicago, IL Elematic Inc., Brookfield, WI Hydronix, Harbor Springs, MI IntelliBatch by Egan Company, Champlin, MN MCT Group, Reno, NV Moldtech S.L., Alcalá de Guadaíra, Seville, Spain MPAQ Automation Inc., Mississauga, Canada Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pathfinder Systems, Holland, MI RIB Software, Vienna, Austria

Advanced Concrete Technologies Inc., Greenland, NH

Scale-Tron Inc., Dollard des Ormeaux, Canada Skako Concrete Inc., Coopersburg, PA Slab Innovation Inc., St-Hubert, Canada Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

Manufacturing Execution System (MES)

American Progress Group Corp., Chicago, IL Elematic Inc., Brookfield, WI Offsight Inc., San Francisco. CA OTB Materials Corp. (Outside the Box Materials), Dalton, RIB Software, Vienna, Austria

Modular Construction

American Progress Group Corp., Chicago, IL FDE Hydro, Chelmsford, MA Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Offsight Inc., San Francisco, CA RIB Software, Vienna, Austria StormTrap, Romeoville, IL

Precast Concrete Production

Advanced Concrete Technologies Inc., Greenland, NH

American Progress Group Corp., Chicago, IL Concrete Vision, Grand Haven, MI Elematic Inc., Brookfield, WI Eriksson Technologies Inc., Temple Terrace, FL Krinkle Apps, Aurora, CO MCT Group, Reno, NV Moldtech S.L., Alcalá de Guadaíra, Seville, Spain Olmet Italy S.R.L. Unipersonale, Signoressa di Trevignano, Pathfinder Systems, Holland, MI Precast Concrete Concepts LLC, Lewisville, NC RIB Software, Vienna, Austria Scale-Tron Inc., Dollard des Ormeaux, Canada Slab Innovation Inc., St-Hubert, Canada Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division),

Robot & Machine Control

Waukesha, WI

American Progress Group Corp., Chicago, IL Pathfinder Systems, Holland, MI RIB Software, Vienna, Austria Slab Innovation Inc., St-Hubert, Canada Trimble Inc., Kennesaw, GA Wells Concrete (Spancrete Machinery Division), Waukesha, WI

GMA Garnet (USA) Corp., The Woodlands, TX TruAbrasives by Strategic Materials, Holmes, PA

Blast Abrasives

Fister Quarries Group Inc. & Fister Inc., Batavia, IL GMA Garnet (USA) Corp., The Woodlands, TX TruAbrasives by Strategic Materials, Holmes, PA White Cap LP, Norcross, GA

Blast Equipment

GMA Garnet (USA) Corp., The Woodlands, TX Truebite Inc., Vestal, NY

Rough Finishing on Concrete/Concrete

GMA Garnet (USA) Corp., The Woodlands, TX Wagman Metal Products Inc., York, PA

EquipPro Distributors LLC, New Braunfels, TX Walter Cleaning Systems USA Inc., Charlotte, NC

Energy Management

Doka The Formwork Experts, Kenilworth, NJ EquipPro Distributors LLC, New Braunfels, TX FDE Hydro, Chelmsford, MA Hanson Professional Services Inc., Springfield, IL

Other Systems

Aster Brands: Redi-Rock International, Rosetta Hardscapes, and Pole Base, Petoskey, MI EquipPro Distributors LLC, New Braunfels, TX Infiltrator Water Technologies, Old Saybrook, CT IntelliBatch by Egan Company, Champlin, MN KIRK Key Interlock Company LLC, North Canton, OH Polylok Inc. ZABEL, Wallingford, CT Pretek Group, Bellbrook, OH Sika Corporation, Lyndhurst, NJ SIMEM America Corp., San Antonio, TX

Slurry Treatment Solutions

EquipPro Distributors LLC, New Braunfels, TX Full Circle Water, Saint Joseph, MN Wagman Metal Products Inc., York, PA

Solid Waste Collection - Semi Underground

Avermann Group, Osnabrueck, Niedersachsen, Germany EquipPro Distributors LLC, New Braunfels, TX Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH

Solid Waste Collection - Solid Waste Containers

Avermann Group, Osnabrueck, Niedersachsen, Germany EquipPro Distributors LLC, New Braunfels, TX Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH

Stormwater Treatment

EquipPro Distributors LLC, New Braunfels, TX Matec Industries, High Point, NC Porous Technologies LLC, Gorham, ME Preco® Concrete Accessories (Brand of DCA Construction Products LLC), Garrettsville, OH Retain-It LLC, Granby, CT StormTrap, Romeoville, IL Water Treatment Solutions Inc., Hampton, NH

Sustainable Building Products

CarbonBuilt Inc., Torrance, CA Elematic Inc., Brookfield, WI EquipPro Distributors LLC, New Braunfels, TX Hamilton Kent LLC. Winchester, TN Infiltrator Water Technologies, Old Saybrook, CT Sika Corporation, Lyndhurst, NJ

Wastewater Treatment

Clearstream Wastewater Systems Inc., Lumberton, TX
Ecological Tanks Inc., Downsville, LA
EquipPro Distributors LLC, New Braunfels, TX
Full Circle Water, Saint Joseph, MN
Infiltrator Water Technologies, Old Saybrook, CT
Jet Inc., Cleveland, OH
Matec Industries, High Point, NC
Norweco Inc., Norwalk, OH
Polylok Inc. ZABEL, Wallingford, CT
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
ROMIX Inc., Euless, TX
SIMEM America Com. San Antonio TX

ROMIX Inc., Euless, TX
SIMEM America Corp., San Antonio, TX
StormTrap, Romeoville, IL

Wagman Metal Products Inc., York, PA Water Treatment Solutions Inc., Hampton, NH

Water Recycling Systems

Advanced Concrete Technologies Inc., Greenland, NH
Columbia Machine Inc., Vancouver, WA
Elematic Inc., Brookfield, WI
EquipPro Distributors LLC, New Braunfels, TX
Full Circle Water, Saint Joseph, MN
Matec Industries, High Point, NC
MCT Group, Reno, NV
Norweco Inc., Norwalk, OH
PA-PO Industrial Systems LLC, New Braunfels, TX
Preco® Concrete Accessories (Brand of DCA Construction
Products LLC), Garrettsville, OH
Retain-It LLC, Granby, CT
SIMEM America Corp., San Antonio, TX
Voeller Mixers, Port Washington, WI
Volker Würschum Consulting and Development GmbH &
Co. KG, Ostfildern, Germany

Testing Services

Water Treatment Solutions Inc., Hampton, NH

A-Lok Products Inc., Tullytown, PA Forney LP, Zelienople, PA

Calibration Services

Doka The Formwork Experts, Kenilworth, NJ

Concrete Test Cylinder Molds

ALP Supply, Fairless Hills, PA
American Step Co. Inc., Griffin, GA
Deslauriers Inc., La Grange Park, IL
Doka The Formwork Experts, Kenilworth, NJ
iwi Concrete Equipment Group, Norcross, GA
Kraft Curing Systems Inc., Fairless Hills, PA
Krinkle Apps, Aurora, CO
M.A. Industries Inc., Peachtree City, GA
Myers Construction Materials Testing Equipment,
Scarborough, ME
Paragon Products, Mount Pleasant, IA

Concrete Testing Services

Doka The Formwork Experts, Kenilworth, NJ Forney LP, Zelienople, PA Krinkle Apps, Aurora, CO Myers Construction Materials Testing Equipment, Scarborough, ME Trinic LLC. Kirkwood, NY

Other Testing Services

A-Lok Products Inc., Tullytown, PA Cyclonaire, York, NE Deslauriers Inc., La Grange Park, IL Fister Quarries Group Inc. & Fister Inc., Batavia, IL M.A. Industries Inc., Peachtree City, GA Nox-Crete Inc., Omaha, NE Premiere Concrete Admixtures LLC, Pioneer, OH

Vacuum Products

Krinkle Apps, Aurora, CO Trelleborg Pipe Seals Milford, Milford, NH

Watertightness Testing Services

Concrete Robotics GmbH, Kassel, Germany Concrete Sealants Inc., Tipp City, OH Krinkle Apps, Aurora, CO Schlusselbauer North America LLC, Lebanon, TN

Veneer

Thin Brick

ALP Supply, Fairless Hills, PA Custom Rock Formliner, St. Paul, MN Fitzgerald Formliners, Santa Ana, CA Slab Innovation Inc., St-Hubert. Canada

Wire Processing Equipment

Accessories & Tooling

Drawing Technology Inc., Rockford, IL

Butt Welders

Drawing Technology Inc., Rockford, IL

In-Line Wire Drawers

Drawing Technology Inc., Rockford, IL

Mechanical Descalers

Drawing Technology Inc., Rockford, IL

Mini-Mill Wire Drawing & Recoiling Systems

Drawing Technology Inc., Rockford, IL

Payoff Equipment

Drawing Technology Inc., Rockford, IL

Press Feeders

Drawing Technology Inc., Rockford, IL

Rebuilding Service

Drawing Technology Inc., Rockford, IL

Roll Type Straightener

Drawing Technology Inc., Rockford, IL

Straightening and Cutting Machines

apilion machines + services GmbH, Kehl/Rhein, Baden-Württemberg, Germany Drawing Technology Inc., Rockford, IL Eurobend GmbH, Nürnberg, Germany FMS USA, Greenville, SC Gensco Equipment, Toronto, Canada KRB Machinery Co., Wrightsville, PA mbk Maschinenbau GmbH, Kisslegg, Germany Paul Jacks USA LLC, Miami, FL

Wire Deforming

Drawing Technology Inc., Rockford, IL

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