



www.PCIMidwest.org

focus

winter 15

Precast Concrete is a Perfect Parking Solution



Precast concrete is the perfect solution for parking structures because it arrives at the site ready for installation and does not require protection from rain, sun, snow, wind, or extreme temperatures. This saves time and money and reduces the potential for change orders due to winter conditions.

Precast concrete is the best choice for projects that require an expedited construction schedule

on tight sites. Precast concrete is one of the fastest building systems available, and is manufactured offsite minimizing project site disturbance, while maximizing quality. It is typically erected with a crane and a relatively small crew, which allows for construction within a small footprint and minimizes disruption to the surrounding area.

Precast concrete offers an incredible array of aesthetics options, whether

your parking structure needs to blend in with the surrounding environment, or stand out from the crowd. Precast concrete systems also allow for a more open parking deck compared to cast-in-place structures and doesn't require intermediate columns within the parking area. This improves visibility and security of users.

Precast concrete is the perfect choice for parking solutions!

Mike Johnsrud, Executive Director

Phone: 952-806-9997

Fax: 952-806-9998

Aksarben Village Parking Garage

This five story parking structure features 934 parking stalls and was constructed along with the new Pacific Life Building Expansion in Aksarben Village. It was important for the garage to compliment the Aksarben Village aesthetics while being completed in a tight timeframe. Precast allowed the design team to take advantage of its aesthetic versatility and efficiency to meet the goals of a durable, low maintenance structure.

The parking structure was built using precast double-tees, inverted-tee beams, columns, lightwalls, spandrels, stair units, and wall panels. The exterior spandrels were lightly

sandblasted to match the precast incorporated on other buildings in the area. The 740 precast pieces were erected in only 10 weeks.



www.coreslab.com



Owner: **Pacific Life** • Architect: **Holland Basham Architects, Omaha, NE** • Structural Engineer: **AGA Consulting, Minneapolis, MN** • Contractor: **McNeil Company Builders, Omaha, NE** • Location: **Omaha, NE**

Heritage Parking Ramp

The Heritage Parking Garage features 300 spaces. It is a four-level pre-cast structure that re-used existing foundation from previous garage and is set up for horizontal expansion.

Desman was hired to provide architectural and engineering services for the design of Sioux City's new Heritage Parking Garage. The garage is located in the heart of the downtown area. It primarily serves as event parking for the neighborhood convention center and multiplex theater. It also serves day time infrastructure parking for office and nearby business uses. The garage sits on a site that at one time was demolished to make way for the newer facility. Desman was able to salvage and use the existing foundations as a cost and time saving advantage.

The architectural façade utilized brick, cast stone and terracotta accents in keeping with the context and charm of the historic downtown area.

From Sioux City Mayor Bob Scott: "The Heritage Parking Ramp has provided the City of Sioux City with an attractive alternative to the traditional cookie cutter parking facility. The parking ramps help to alleviate parking concerns in the popular Historic 4th

Street area of Sioux City. Design elements were included to allow the ramp to complement the area."



www.gagebrothers.com



Architect and Engineer: **Desman Associates** • Contractor: **WA Klinger** • Location: **Sioux City, Iowa** • Photo Credit: **Gage Brothers**

Baldwin Medical Center

Precast Panels Save Time, Budget

The Baldwin Area Medical Center project is a \$33 million new health care facility in Baldwin, WI. It is being built to provide a facility that will better meet the needs of the growing community. Located at the corner of Hwy 63 and I-94, the 107,000 sq.ft. building will include an emergency department, three operating rooms, 15 inpatient beds, and clinic facilities including radiology, rehabilitation, lab, and pharmacy. A fitness center is planned as a future addition.

The early collaboration process utilized by the Project Team led to expedient and efficient decisions that directly benefited BAMC. In their original investigation process, the team considered utilizing a steel pan system with poured concrete for the striking two-story Frank Lloyd Wright inspired structure. However, after careful consideration, the material choice was precast hollowcore concrete plank.

Hollowcore was selected in lieu of a cast-in-place system because of its speed of installation, its ability to span longer distances without support, and the fact that no form work was required. It meant that the project could proceed far more quickly than it would have with poured concrete. This helped the nonprofit medical center stay within their budget.

In addition to hollowcore, County Materials provided some solid precast slabs due to loading requirements of some of the structural members. They provided support for the roof and in areas with longer spans.

One challenging aspect to the project was that the design included a lot of high ceiling elevations and mechanical penetrations for equipment such as exhaust fans and roof vents. Because the slabs were poured off site, all penetrations needed to be

located prior to the pour. 3D Building Information Modeling (BIM) was used to determine the precise location of penetrations prior to casting the 95,000 sq. ft. of precast hollowcore panels used in the project. These openings were cut at the facility before hauling the panels to the job site. Not one

application was misaligned, which was a testament to the smooth cooperation that took place between the design, construction, and fabrication teams.



www.countymaterials.com



Architect: **Kahler Slater, Inc.** • Contractor: **Boldt Construction** • Location: **Baldwin, WI** • Photo Credit: **County Materials Corp.**

Podium Style Structures

When most building designers think about precast concrete parking, they often think about utilizing precast/prestressed double-tees for large-scale ramps. However, another popular style of precast design involves using hollow core plank, beams and columns to create a podium.

Podium style structures are increasingly being used in multi-family housing, senior living and mixed-use projects. Podium structures utilize precast hollow core plank, precast beams and precast columns to provide a level of parking underneath a structure. Podium construction structurally transfers wood framing from upper levels to the foundation.

Precast is often extended past the main level of flooring to provide an additional level of retail on the main level, while still providing fire separation to the levels above. Code in these types of structures require a 2-3 hour fire rating between residential living space and

vehicle storage. Precast concrete design, using a podium structure, solves these issues inherently.



Quality Concrete Solutions
since 1897

www.molin.com



Photo Credits: **Erik Molin, Molin Concrete**

VA Hospital Parking Ramp

With the growing need to provide medical services for veterans, the VA needed additional parking. With limited space available on the grounds, the only solution was to go up by building a ramp. Construction began April 1, 2013; the ramp opened March 17, 2014 - six months ahead of schedule. The \$10 million project has 520 spaces including 100 designated for handicapped-vehicle usage. It is designated for patient only use during regular work day hours Monday – Friday.

On opening day visitors to the VA were able to utilize 640 more parking spots than they had during construction. Employee parking increased by 64 spots and patient parking increased by 346 spots with this new parking plan. In addition to 100 spaces designated for handicapped accessible vehicles, there are spaces for 11 vans and 14 motorcycles.

The precaster supplied this 140,500 sf, three supported level ramp with the unique feature of vertical architectural precast lite walls on the exterior in lieu of traditional horizontal spandrels in order to better match the surrounding buildings. During the design phase, Leo A Daly was tasked with analyzing three different construction methods: 1) cast-in-place with precast on the

exterior, 2) a hybrid combination of steel and precast and 3) a total precast ramp. In the end, the total precast ramp was selected. The general contractor was Division 21 of St Paul, a Veteran-owned business, which used 30 subcontractors.



www.wellsconcrete.com



Owner: **Department of Veterans Affairs** • General Contractor: **Division 21** • Architect and Structural Engineer: **Leo A Daly** • Location: **Minneapolis, MN**

Perceptive Software Headquarters

This four-story precast office building serves as the headquarters for Perceptive Software. A key project challenge was to create a truly innovative office solution for a truly innovative software company.

As the first building in an extensive new multi-building development, this company headquarters building anchors and sets the tone for an urban context within what is generically referred to as this City's 'City Center Development'. It is a contemporary crossover between art, architecture and urban presence, and is a LEED certified campus-style complex. The two buildings (attached by an atrium essentially making them one single large "L" shaped building), are traditional in architectural style with stone and brick detailing, with a four-story glass atrium where they meet at the corner to then frame the street. Upon initial approach of the building, a very large scale architectural precast logo is used to create a monumental entrance and accentuate the overall theme. Slotted windows shape monumental entrances.

From a precast standpoint: A unique aspect of this project is the sheer level of detail on the exterior facade. While there was a lot of repetition, the amount of bump-outs and form work on this project was extensive. A combination of precast thin brick was used with exposed acid etch finish (and glass openings) to make up the overall look.

Another pivotal component of this project's success was the consolidation of pieces. The precaster got on board early as a design build partner and worked with the design team to consolidate the pieces by 75%. Changing to large wall panels with punched

openings provided tremendous cost and schedule savings. The team worked together to determine the optimum design solution.

The project as a whole "Succeeded beyond the wildest expectations of anyone," indicated the architect's leading design principal who continued. "Looking at it, you can't

tell it's not (a full) brick. This allowed us to get a traditional looking building, complying within the rigid urban design guidelines of the 'City Center Development.'"



www.enterpriseprecast.com



Owner: **Lexmark, Lenexa, KS** • General Contractor: **JE Dunn Construction, Kansas City, MO** • Architect: **Klover Architects, Overland Park, KS** • Photographer: **Jacia Phillips Photography, Olathe, KS** • Location: **Lenexa, KS**

Learn & Earn Half Day Seminars

Learn precast and earn continuing education credits!



Lateral Loads and Precast Concrete Design - Part II.

This half-day seminar is dedicated to the design of precast and prestressed concrete buildings for lateral loads generated by wind and earthquake ground motion provisions. The seminar provides an overview of lateral force resisting systems for precast and prestressed concrete structures. The seminar includes the calculation of member forces for a typical five-story office building located in the Midwest. Design procedures and calculations for typical members in the building are presented.



Lateral Loads and Precast Concrete Design – Part I.

This half-day seminar is dedicated to the design of precast and prestressed concrete buildings for lateral loads generated by wind and earthquake ground motions. The seminar provides an overview of lateral load determination for precast concrete buildings, including both architectural and structural precast concrete. The seminar includes a brief history of wind and seismic lateral loads in building codes in the United States in conformance with IBC 2009, ASCE 7-05, and ACI 318-08. Numerical examples are presented for a typical five-story office building located in the Midwest.



Total Precast Concrete Design.

Learn the advantages of a total precast building system during this half-day seminar. Strategies such as increased efficiency and shorter construction schedules of “dual use” structural and exterior cladding systems will be presented, as well as guidelines for the design and detailing of architecturally finished exterior walls, concrete tees, hollowcore plank, and precast concrete stairs. Integration of HVAC systems, building code requirements, and total precast’s potential contribution toward LEED certification will also be discussed.



Designing Precast Concrete Parking Structures.

Learn how to design and detail precast concrete parking structures during this half-day seminar. Advantages such as decreased construction time, efficiencies of combining a variety of exterior finishes with exposed structural members, and precast concrete’s potential contribution toward LEED certification will be discussed. Integration of HVAC systems, building code requirements, long-term durability, ramp and vehicle circulation types, safety, and maintenance issues will also be presented.

Continuing education credits are available for these presentations. All Half Day Seminars are 3.5 hours long and are approved for AIA HSW 3.5 LU. A certificate for 3.5 PDH is also available. Contact PCI Midwest at 952-806-9997 or e-mail mike@pcimidwest.org for more information on how you can participate.

About PCI Midwest

PCI Midwest serves Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota and Western Wisconsin. Formerly the Midwest Precast Association, the organization was first incorporated in 2003. Its mission is to promote the use of precast/prestressed concrete, to further educate the construction industry about precast/prestressed concrete, and to expand and nurture relationships between industry-related individuals and companies.

PCI Midwest Officers

Chairman: John Arehart, Enterprise Precast

Vice Chairman: John Saccoman, Molin Concrete Products Co.

Treasurer: Gregg Jacobson, Wells Concrete

Secretary: Todd Culp, Coreslab Structures

At Large North: Jim Houtman, Fabcon

At Large South: Adam Petersen, PDM Precast

Contact PCI Midwest

PCI Midwest

PO Box 386324 - Bloomington, MN 55438

www.pcidmidwest.org

952-806-9997 (Phone)

952-806-9998 (Fax)

Mike Johnsrud, President and Executive Director

mike@pcimidwest.org

612-760-6101 (Cell)

Margaret Mills, Administrative Assistant

margaret@pcimidwest.org

651-423-4737 (Office)

Learn & Earn Box Lunches

PCI Midwest provides continuing education programs on a variety of topics. These programs are easily tailored to conference room or classroom lunch programs. Architects and engineers can learn about precast concrete hollow-core floors and walls, architectural precast concrete, precast parking structures, glass fiber reinforced concrete, high performance precast concrete and much, much more. Contact mike@pcimidwest.org to request a program for you or your company.

The following programs are prepared and ready for presentation. Please allow a minimum of two- to three-weeks from the date of your submission to the date of your requested presentation.

Discover High Performance Precast (Credits: 1.0) Recent code changes, increasing sustainability requirements, and a challenging economy are just some of the factors increasing demand for high-performance structures. However, high performance is not business-as-usual. The concept of 'high-performance' encompasses sustainability; however, it goes beyond a 'this-or-that' approach by requiring optimization of all relevant attributes for a project on a life cycle basis. This presentation will explain what high performance structures are, and how precast concrete can help you achieve your high performance project goals. The presentation also covers the basics of precast concrete, its applications, finishes, etc.

Artist's Palette: The Aesthetic Versatility of Precast Concrete (Credits: 1.0) The aesthetics of a structure are very important, as it is what most people identify with. High performance materials should provide aesthetic versatility in order to efficiently meet a structure's architectural requirements. Precast concrete provides incredible aesthetic versatility from providing multiple colors and textures, to developing shapes, forms and very ornate details. Precast can also simulate or be veneered with natural materials providing all of their beauty, but with the added speed, durability, many other benefits of precast. This presentation will provide an overview of the many finishes available with precast concrete, along with methodologies for achieving them. We will also discuss combining multiple finishes into single panels, veneers and embedded materials, selection of mix designs, approaches to achieving colors, proper specification, and procedures to ensure expectations are aligned.



High Performance Precast Concrete Envelope Systems (Credits: 1.0) A structure's envelope has considerable impact on its overall performance, as highlighted by recent code changes. The envelope not only serves as a barrier between the outside environment and conditioned space, but also as a part of the aesthetic expression for the structure. It must also serve as a protective shield against environmental forces. High-performance building envelopes can help reduce the overall energy consumption of a structure throughout the structure's life, and maintain and protect its interior environment and occupants. This presentation addresses what high performance building envelopes are, as well as key elements to their performance. It will discuss how to use precast concrete wall systems to meet the latest code requirements such as continuous insulation and air barriers, and include topics such as moisture management, thermal mass effect and how to calculate effective R-values, integration with other building systems, and more. This session will also touch on the idea of resilience. A structure must be able to resist environmental forces, such as high winds and earthquakes in order to protect life and fulfill its intended purpose. Case studies are used to highlight information presented.

Designing Precast Concrete School Buildings (Credits: 1.0) After attending this presentation, participants will be able to: Discuss how different Precast/Prestressed components are used in school designs Use the aesthetic features of precast to create structures to meet the unique needs of schools Understand the Precast design process

Designing with Precast/Prestressed Hollow-Core Concrete (Credits: 1.0) This course instructs participants about hollow-core products and how to design and build utilizing hollow-core floors and walls. Participants also learn about the inherent fire resistance of hollow-core, a major life-safety consideration. After this program, participants will be able to: Identify the different precast, prestressed hollow-core concrete systems Explain the benefits of using precast, prestressed hollow-core concrete Discuss the benefits of using hollow-core concrete with owners and other designers.

Parking Garage Design and Construction (Credits: 1.0) In this course, participants are instructed in improving security and lighting in parking structures and the inherent safety issues. They are also instructed in architectural treatment options for

facades which can make garages more aesthetically pleasing. Participants will also discuss ways to avoid parking structure leakage. From this course, they will be able to use a construction procedure to avoid this leakage.

Precast Housing Structures (Credits: 1.0) In this program, participants will discuss precast, prestressed concrete in the housing market. Precast, prestressed concrete provides long clear spans, shallow cross sections, high load capacities, high durability, compatibility with block, steel and cast-in-place concrete, and attractive appearance. Also learn how owners and residents benefit from low maintenance, two- or four-hour fire ratings, lower fire insurance rates, and strong acoustical control. After this program, participants will be able to: Identify the different precast concrete systems used in housing Explain the benefits of using precast concrete in housing structures Utilize precast concrete structures to benefit clients with fire suppression and environmental issues.

Precast Industrial Structures Design & Construction (Credits: 1.0) Box lunch attendees will learn the key benefits of precast, prestressed components and see the advantages of an integrated design approach.

Precast Stadiums Design & Construction (Credits: 1.0) Box lunch attendees will learn how working with your precast, prestressed specialist at the earliest stages of design can mean a winning combination of advantages for your next stadium. These include flexibility of design, including long spans; high quality of manufactured products; versatility; high-performance, durable materials; and speed of construction because precast components can be erected quickly once they arrive at the site. After attending this program, participants will be able to: Identify the different precast, prestressed concrete systems used in stadium designs Explain the benefits of using precast, prestressed concrete in stadiums Discuss the benefits of PCI-certified precast producers

Precast/Prestressed Concrete 101 (Credits: 1.50) Participants will explore building design solutions using precast and prestressed concrete products. They will learn what precast, prestressed concrete products are, how they are manufactured, including structural theory of prestressing, and quality assurance procedures. They will learn about the industry certification program (PCI) of plants, people and performance. Participants will explore numerous examples of architectural and structural concrete solutions for numerous building markets. They will explore a variety of architectural finishes and how each is created in terms of color, form and texture. They will explore common structural solutions using prestressed concrete products and explore integrated solutions; realizing the full potential of loadbearing architectural precast units. The session will end with an overview of industry support available to the design community, including published and electronic media and a question and answer session.

Precast/Prestressed Plant Tour (Credits: 2.0) Attendees will observe firsthand how designs and engineering



details are executed in the precast manufacturing process. They will also observe the entire precast and prestressed manufacturing process from engineering and connections, forms set-up, casting and finishing. Attendees will gain a better understanding of precast and prestressed capabilities and related quality issues. Attendees will learn how precast fits within the entire building system and how to specify precast concrete accurately and safely.

Sustainable Building Design Using Precast Concrete

(Credits: 1.0) After this presentation, participants will understand the following concepts: (1) The key to sustainable building lies in long-life, adaptable, low-energy design. (2) The earth's resources are best conserved if the service life of a building is prolonged. (3) Using precast concrete in buildings conserves energy and resources during and after construction because of the following characteristics of precast concrete: (a) The materials used in precast buildings are natural, renewable, and locally available. (b) Water and materials used in precast buildings are often recyclable and recycled. (c) Indoor and outdoor air quality are improved in precast buildings because less (or no) VOC-based preservatives and paints are required, and because of the thermal mass qualities of precast concrete.

Total Precast Structures (Credits: 1.0) After this program, participants will be more familiar with what a total precast concrete structure is, how a total precast structure can benefit a project, and what components are used to construct a total precast structure. Participants will also learn how to manage a successful project.

Architectural Precast Production & Application

(Credits: 1.0) In this program, students will learn about the practical application of a wide variety of architectural precast solutions. The discussion will include design choices and cost considerations.

Associate Members

Architectural Polymers, Inc.,

1220 Little Gap Road
Palmerton, PA 18071
610-824-3322
www.apformliner.com
Marshall Walters
marshall@apformliner.com

Ash Grove Cement

Dave Suchorski 913-205-8146
dave.suchorski@ashgrove.com

Beton-Stahl, Inc.

2003 O'Neil Rd
Hudson, WI 54016
715-808-0213
www.beton-stahl.com
Corey Leith
info@beton-stahl.com

Bob's Sparkle Wash

1135 114th Lane NW
Coon Rapids, MN 55448
www.sparklewashcmn.com
Rep: Bob Walters 612-325-1125
Rep: Scott Walters 612-328-5797
Rep: Mark Joslyn 612-290-7109

Cheesebrough Brokerage Inc.

448 Lilac Street
Lino Lakes, MN 55014
Rep: Patrick Cheesebrough
651-717-6060

The Consulting Engineers Group, Inc.

16302 Pleasantville Rd, Suite 200
San Antonio, TX 78233
www.cegengineers.com
Rep: Larbi Sennour, PhD, PE, SE
210-637-0977 ext. 225

Dynamic Color Solutions

2024 S. Lenox Street
Milwaukee, WI 53207
www.dynamiccolorsolutions.com
414-769-2585

e.Construct.USA, LLC

11823 Arbor Street, Suite 200
Omaha, NE 68144
www.econstruct.us
402-884-9998

Elematic

19745 Sommer Drive
Brookfield, WI 53045
www.elematic.com
262-798-9777

Endicott Thin Brick & Tile LLC

PO Box 645
Fairbury, NE 68352
www.endicott.com
Rep: Dean Schmidt 402-729-3315
Rep: Dalton Holtzen 402-729-3315

Fister Quarries Group

1150 Lyon Road
Batavia, IL 60510
www.fisterquarries.com
800-542-7393

Fitzgerald Formliners

1500 E Chestnut Ave, Santa Ana, CA 92701
www.formliners.com
Edward Fitzgerald 714-547-6710

GCC of America

600 S Cherry St. #1000
Glendale, CO 80246
www.gccusa.com

GRT Admixtures

2978 Center Court, Eagan, MN 55121
www.grtinc.com
651-454-4151
Travis Collins: Travis@grtinc.com

Hamilton Form Company

7009 Midway
Fort Worth, TX 76118
www.hamiltonform.com
817-590-2111
sales@hamiltonform.com

Helser Industries

10750 SW Tualatin Road, PO Box 1569,
Tualatin, OR 97062
503-692-6909

Insteel Wire Products

1373 Boggs Dr
Mt. Airy, NC 27030
www.insteel.com
800-334-9504
Rep: Randy Plitt
rplitt@insteel.com

Iowa Steel & Wire Company

1500 W Van Buren, PO Box 156,
Centerville, IA 52544
www.okbrandwire.com
800-325-5118

JVI Inc.

169 N Hampshire
Elmhurst, IL 60126
www.jvi-inc.com

Lafarge North America

855 Apollo Road
Eagan, MN 55121
www.lafarge-na.com
Phone: 800-437-5980
Main Contact: Dave Meyer

Landwehr Construction

PO Box 1086
St. Cloud, MN 56302
www.landwehrconstruction.com
800-446-1284
Rep: Paul Nelson 507-380-9423

Lehigh Cement

12300 Dupont Avenue South
Burnsville, MN 55337
www.lehighcement.com
Rep: Dave Grausam

Masonry & Precast Specialty Services

726 N Frontier Rd
Papillion, NE 68046
www.masonryprecast.com
402-306-6004
Craig Christensen

METROBRICK

1201 Millerton Street SE
Canton, OH 44707
www.metrothinbrick.com
Rep: Dianne Young 888-325-3945

Mixer Systems Inc.

190 Simmons Ave, Pewaukee, WI 53072
www.mixersystems.com
Stephen Nelson 262-691-3100
steven@mixersystems.com

Nox-Crete Products Group

1444 S 20th St, Omaha, NE 68108
www.nox-crete.com
Jeff Bishop 402-401-0506
jbishop@nox-crete.com

Shuttlelift

49 E Yew Street
Sturgeon Bay, WI 54235
www.shuttlelift.com
920-743-8650

Sika Corporation

1515 Titanium Drive
Ottawa, IL 61350
www.usa.sika.com
Andy Pearson 920-655-7600
pearson.andy@us.sika.com

Splice Sleeve North America, Inc.

38777 W Six Mile Rd #205
Livonia, MI 48152
www.splicesleeve.com
877-880-3230
Rep: Toshi Yamanishi

Standley Batch Systems, Inc.

PO Box 800,
Cape Girardeau, MO 653702-0800
www.standleybatch.com

Structural Engineering Associates, Inc.

1000 Walnut, Suite 1570
Kansas City, MO 64106
www.seassociates.com
816-421-1042
Main Contact: Kelley Gipple

Sumiden Wire Products Corp.

710 Marshall Stuart Drive,
Dickson, TN 37055
www.sumidenwire.com
Matt Speedy 614-537-5988

Thermomass

1000 Technology Drive,
Boone, IA 50036
www.thermomass.com
800-232-1748
Rep: Brad Nessel

THiN-Wall

210 N. 13th Street
Seward, NE 68434
www.thin-wall.com
800-869-0359

Topping Out, Inc.

5910 S 27th Street,
Omaha, NE 68107
www.daviserection.com
402-731-7484

US Formliner

370 Commerce Blvd, Athens, GA 30606
www.usformliner.com
Ray Clark 706-549-6787

WR Grace Co

Dan Beskar 952-905-0085
daniel.a.beskar@grace.com

Producer Members

Key:

**Architectural
Structural**
Bridge – Transportation

| | Architectural Precast | Architectural Trim | Beams/Columns | Wall Panels | Poles | Hollow-core Slabs | Single Tees | Double Tees | Stadium Seats | Modular Cells | Soundwalls | Piles | Boxed Beams/Slabs | I Beams/Girders |
|--|-----------------------|--------------------|---------------|-------------|-------|-------------------|-------------|-------------|---------------|---------------|------------|-------|-------------------|-----------------|
| Advanced Precast Co. (Mike Decker) Farley, IA, 563-744-3909 • www.advancedprecastcompany.com | • | | | • | | | | | | | | | | |
| Concrete Industries, Inc. (Randy Schultz) Lincoln, NE, 402-434-1800 • www.concreteindustries.com | | | • | • | | • | | • | • | | | • | | • |
| Coreslab Structures (Kansas) Inc. (Mark Simpson) Kansas City, KS, 913-287-5725 • www.coreslab.com | | | | | | | | | | | • | • | • | • |
| Coreslab Structures (Missouri) Inc. (Michael Saint) Marshall, MO, 660-886-3306 • www.coreslab.com | • | | • | • | | | • | • | • | | | | • | • |
| Coreslab Structures (Omaha) Inc. (Todd Culp) Bellevue, NE, 402-291-0733 • www.coreslab.com | • | • | • | • | | | | • | • | • | • | • | • | • |
| County Materials Corp. Roberts, WI (Steve Hoelsing, 800-289-2569) • Bonne Terre, MO (Scott Boma, 573-358-2773) • www.countymaterials.com | • | • | • | • | | • | | | • | • | • | • | • | • |
| Crest Precast Concrete, Inc. (Gary Mader) La Crescent, MN, 507-895-2342 • www.crestprecastconcrete.com | • | • | | • | | | | | | | • | | • | |
| CreteX Concrete Products, Inc. (Joel Mich) Maple Grove, MN, 763-545-7473 • www.creteconcreteproducts.com | | | | | • | | | | | | • | • | • | • |
| Enterprise Precast Concrete, Inc. Omaha, NE (Shawn Wentworth) 402.895.3848 • Overland Park, KS (Dirk McClure) 913-312-5616 • www.enterpriseprecast.com | • | • | | • | | | | | | | | | | |
| Fabcon Savage, MN (Jim Houtman) 952-890-4444 Columbus, OH, Mahoney City, PA and Pleasanton, KS - www.fabcon-usa.com | | | | • | | | | | | | • | • | | |
| Gage Brothers Concrete Products, Inc. (Tom Kelley) Sioux Falls, SD, 605-336-1180 • www.gagebrothers.com | • | • | • | • | | • | | • | • | | • | | | • |
| Mid America Precast, Inc. (Rod Tanner) Fulton, MO, 573-642-6400 • www.midamericaprecast.com | • | • | • | • | • | | | | | • | | | | |
| Molin Concrete Products Co. (John Saccoman) Lino Lakes, MN, 651-786-7722 • www.molin.com | | | • | • | | • | | | • | | | | | |
| MPC Enterprises, Inc. (Don Bieghler Jr.) Mt. Pleasant, IA, 319-986-2226 • www.mpcent.com | • | • | • | • | • | | • | • | • | • | • | | | |
| PDM Precast, Inc. (Adam Petersen) Des Moines, IA, 515-243-5118 • www.pdmprecast.com | • | | • | • | | • | • | • | • | | | | | |
| Prestressed Casting Co. (David Robertson) Springfield, MO, 417-869-7350 • www.prestressedcasting.com | • | | • | • | | | • | • | • | | • | | | |
| Prestressed Concrete (Rod Nicholson) Newton, KS, 316-283-2277 • www.prestressedconcreteinc.com | • | | • | • | | | • | • | • | | • | • | • | • |
| Stress-Cast Inc (Jim Markle) Assaria, KS, 785-667-3905 | | | | • | | • | | | | | | | | |
| Wells Concrete Wells, MN, Albany, MN and Maple Grove, MN (Spencer Kubat, 800-658-7049) • Grand Forks, ND (Mike Mortenson, 800-732-4261) • www.wellsconcrete.com | • | • | • | • | | • | | • | • | | • | | • | |