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Here is a list of upcoming webinars:

- September 28 & 30
Designing Sustainable Military Structures (1 HSW/SD Credit)
- October 26 & 28
Designing and Building Sustainable K-12 Schools (1 HSW/SD Credit)
- November 30 & December 2
Precast Concrete – Providing Aesthetic Versatility in Color, Form, and Texture
- Coming Soon (Date TBD)
Sustainable Design and Construction of Building Envelopes

To register and for more information visit www.pci.org and click the Webinars icon on the Homepage.

Registration

All attendees are required to register in advance. Visit www.pci.org, click the Webinars icon, and simply click the appropriate link and follow the directions. You will be required to log in at the appropriate date and time to participate in your webinar.



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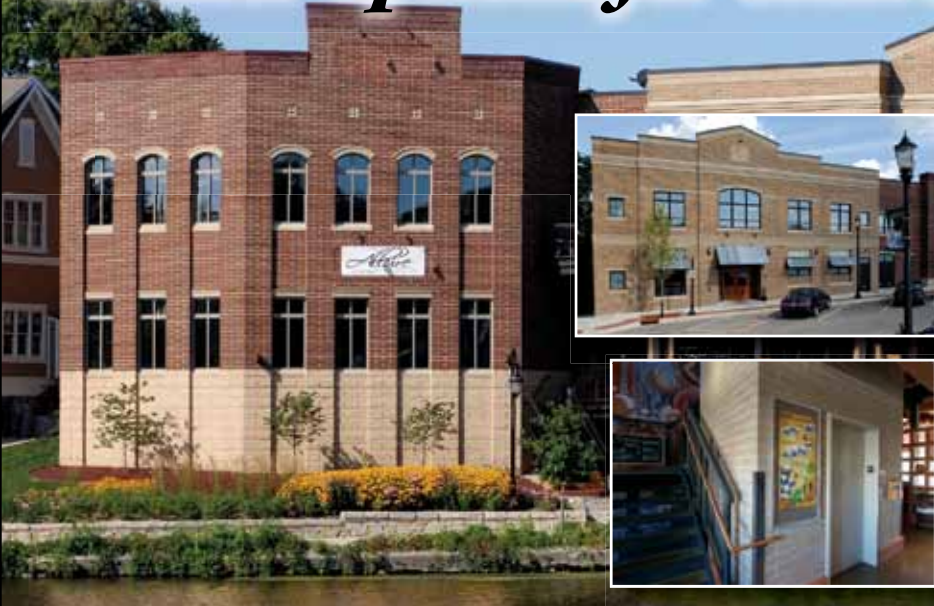
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INNOVATIVE SOLUTIONS WITH PRECAST



Best School (K-12)



Grand Prairie ISD
Dubiski Career High School
Grand Prairie, TX
Architect: Corgan Associates, Inc.

Innovative precast concrete exterior simulates blocks of veined, chiseled natural shell stone



Best Office Building



MetWest One
at MetWest International
Tampa, FL
Architect: tvsdesign

Self-structure capability of precast facilitated the signature parapet cap without the use of additional structural steel support framing



Honorable Mention



Indiana University Memorial Stadium
North End Zone Addition
Bloomington, IN
Architect: Ratio Architects, Inc.

Precast concrete formliners were used to impart a split-faced limestone-like texture into the concrete to emulate giant blocks of quarry limestone



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Photography by William Zbaren

— p. 11

Feature

Winning Designs

48th Annual PCI Design Awards



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Departments

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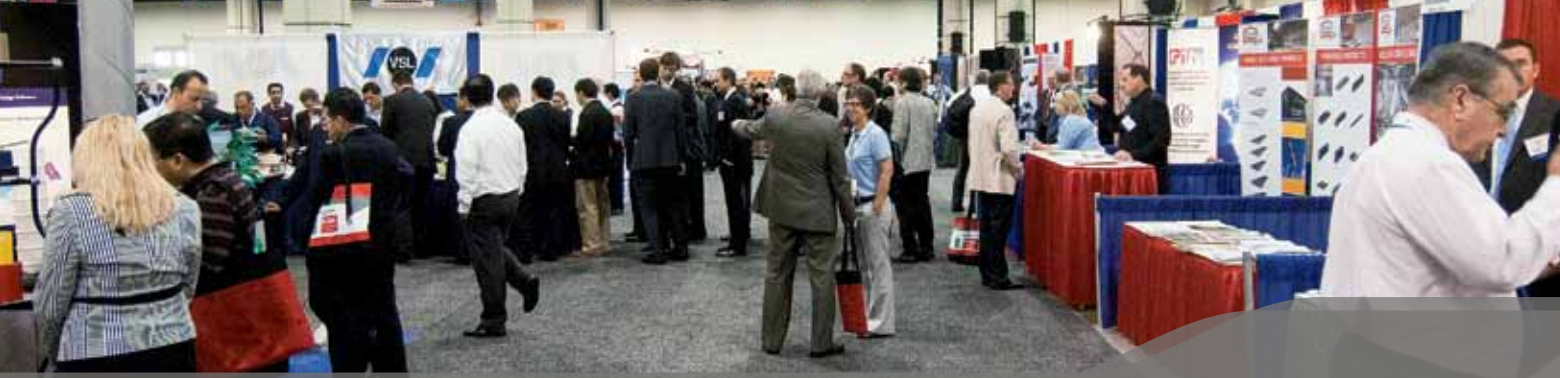
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State-by-state directory of PCI-certified plants, including a guide to product groups and categories for reference in upcoming projects

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State-by-state directory of PCI-qualified & PCI-certified erectors, including a guide to erector classification and a guide specification for reference in projects

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For more information visit www.pci.org and click on the WOC icon or contact Brian Miller at bmiller@pci.org.


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Industry Trends – set your mind free

Highlight at Design Awards



Brian Miller,
P.E., LEED AP
Executive editor
bmiller@pci.org

Ironically, the one thing that is constant in our world is change. Over the past couple of years, most of the change affecting our industry has resulted from the economic downturn. Now more than ever, we are challenged to do more with less, reducing costs and providing more value for our customers' investment. Competition is fierce, and projects and funding scarce. Additionally, other factors, such as sustainability, social trends, and the rate at which advancement drives obsolescence, have changed how we design and build. The combination of these changes makes the design and construction processes more challenging today than ever before.

Often, during times of economic pressure, companies are inspired to improve, redesign, and innovate. This past year, we have seen innovation flourish. In this issue of *Ascent*, we showcase the winning projects from the 48th annual PCI Design Awards competition, where new ideas are abundant—from designing solar arrays to help power a building to incredible combinations of color, form, and texture to match or stand out from the surrounding environment. These projects show how some architects, engineers, and owners are using precast concrete to overcome some of the aforementioned challenges. From basket weaves to seashells, there is a lot to see. There is even precast concrete that was made without using Portland cement. Enjoy!

For more information and pictures on the 2010 winning projects, visit www.pci.org and click on the 2010 Design Awards Winners icon on the home page. The 49th Annual PCI Design Awards Call for Entries will open in January 2011. We look forward to your entry!



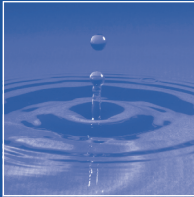
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ASCENT On the cover: Announcing the 2010 PCI Design Awards winners (see page 11)

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LAPD Police Administration Building - Los Angeles, CA

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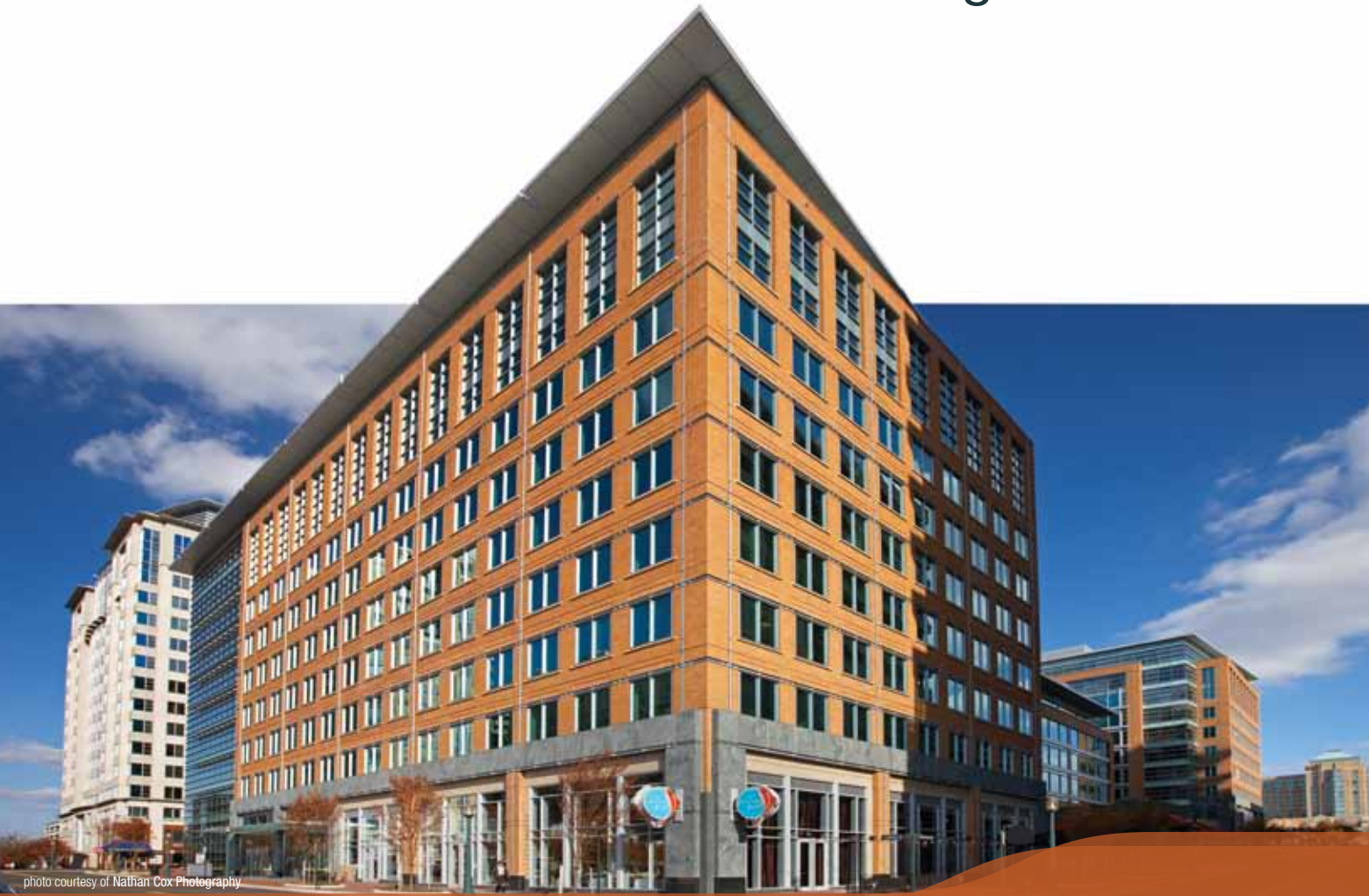


photo courtesy of Nathan Cox Photography

Call for Entries opening in **January, 2011** no entry fee

entry deadline **May 23, 2011**

visit **www.pci.org** and click on **“2010 Design Awards Winners”**

for more information



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Contact **Jennifer Peters**, jpeters@pci.org or
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Smart Solutions

The 2010 PCI Design Award winners prove that versatility, reliability, and the right price make precast concrete the material of choice for projects across the country.

Precast concrete is being embraced by designers looking for ways to reduce costs and accelerate schedules while delivering beautiful, durable structures. The Precast/Prestressed Concrete Institute (PCI) celebrates the best and most innovative of these structures in its 2010 PCI Design Award competition.

This year's winners took advantage of the versatility and cost-effectiveness of precast concrete to deliver innovative and attractive solutions for a range of structure types while addressing time and budget constraints. The decision to go with precast concrete also enabled this year's winners to solve myriad project challenges, including constrained job sites, tsunami-force waves, and high-crime work sites that demanded quick, secure construction.

From breathtaking bridges and chic hotels to affordable housing units and a teen homeless shelter, the 2010 award recipients cover the gamut of practical, affordable, and attractive designs, proving once again that precast concrete is always a smart choice.

The 48th annual Design Awards Competition, sponsored by PCI, features 30 winners in categories that include transportation, housing, commercial structures, industrial designs, specialized projects, and special awards. The award-winning projects represent an array of structure types, including subcategories in Best Public Institution, Best Multi-Family Buildings, and Best Main Spans, as well as spotlight awards for the Best Sustainable Design, Best All Precast Solution, and two Harry H. Edwards award winners.

The following pages showcase the projects selected by the Design Awards Competition juries. The honors will be presented to representatives of each project during PCI's Committee Days and Membership Conference Awards Banquet, held Friday, September 24, 2010, in Chicago.



Courtesy of PCI

Buildings jury (from left)

Stuart Howard, FRAIC
President elect
Royal Architectural Institute of Canada
Ottawa, ON, Canada

Katie Gerfen
Senior editor
Architect magazine
Washington, D.C.

Gregory Georgis
President
Georgis Design + Development
Rockford, Ill.

**Walter Hainsfurther, FAIA
(standing left)**
President
Kurtz Associates Architects
Des Plaines, Ill.

**Jay Longo, R.A., AIA, LEED AP
(standing right)**
Senior associate
Gensler
Chicago, Ill.



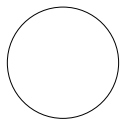
Courtesy of PCI

Bridges jury (from left)

Myint Lwin, P.E., S.E.
Director of the Office of Bridge Technology
Federal Highway Administration
Washington, D.C.

Ralph Anderson, P.E., S.E.
Bureau chief, Bridges & Structures
Illinois Department of Transportation
Springfield, Ill.

Vijay Chandra, P.E., S.E.
Senior vice president and director of Structures
PB Americas Inc.



48th Annual PCI Design Awards

Special Awards

Sustainable Design Award

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Lino Lakes, Minn. 13

All-Precast Solution Award

Payne County Jail & Courthouse Renovation, Stillwater, Okla. 14

Harry H. Edwards Award

Missoula Federal Credit Union Russell Street Branch, Missoula, Mont. 15

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GSK Data Center, Upper Providence, Pa. 16

Best Multifamily

AIREA, Mexico City, Mexico 17

Nouvelle at Natick Residence, Natick, Mass. 18

Rosa Parks Apartments, Chicago, Ill. 19

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American Pharmacists Association, Washington, D.C. 20

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Chicago, Ill. 23

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Calgary International Airport Parkade P2 and Departures Roadway
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Sustainable Design

Missoula Federal Credit Union Russell Street Branch, Missoula, Mont. 35

All-Precast Solution

Calgary International Airport Parkade P2 and Departures Roadway,
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Custom Solutions

Train Terminal Forum Buenavista, Mexico City, Mexico 39

Lewis and Clark Memorial Tower, Hartford, Ill. 40

Sustainable Design Award

Molin Engineering & Drafting Office Building

Lino Lakes, Minn.

Owner Molin Concrete Products Co., Lino Lakes, Minn.

Architect Professional Design Group Inc., Northfield, Minn.

Engineer of Record Professional Design Group Inc., Northfield, Minn.

Contractor Kraus-Anderson Construction Co., Minneapolis, Minn.

Precaster Molin Concrete Products Co., Lino Lakes, Minn.

Precast Specialty Engineer Molin Concrete Products Co., Lino Lakes, Minn.

Project Cost \$1.7 million

When Molin Concrete Products needed a new office building, the owner saw it as an opportunity to prove that precast concrete building products can be used to create sustainable buildings with stylish good looks and environmentally sensitive attributes.

To achieve energy efficiency and natural lighting, designers used insulated precast concrete wall panels, which allowed for flexibility in sizing window openings to provide daylight throughout the building. Precast concrete sunshades were used to reduce solar heat in the offices, and a white roofing membrane installed over the precast concrete roof slabs reflects heat, keeping interior temperatures cooler.

To further improve the building's sustainable profile, the precast concrete elements contain an average of 36% replacement of portland cement with fly ash—more than double the current concrete industry levels—reducing the CO₂ off-gassing during concrete curing.

"In a precast fabrication plant, the concrete mix design can be controlled and adhered to at a much higher level of accuracy, allowing a higher amount of fly ash, which greatly reduces the effects of CO₂," says Miles Britz, project architect for the Professional Design Group.

These precast concrete components contributed to eight LEED points on the project.

"This project shows that good design and environment goals are interdependent," Britz says. "When done together, they create an attractive, energy-efficient, environmentally responsible, and healthy place to work."

Judges' Comments

What really caught our attention on this particular project was the contribution of precast to the sustainable strategies. The energy loads could be reduced because of the tight building envelope and the thermal mass of the precast. Its integration with the daylight harvesting system on both the walls and the roof planks was really key and was something special and unique about this building. The manufacturing company that built this project now has a showcase. Their customers and everyone else can see that they not only practice sustainable design, but actually implement it as well.

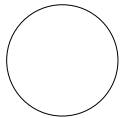


Photo courtesy of Molin Concrete Products Co.

Best Prison/Jail/Correctional Facility/ All-Precast Solution Award **Payne County Jail and Courthouse Renovation** Stillwater, Okla.

Owner Payne County Facilities Authority, Stillwater, Okla.

Architect BKL Inc., Tulsa, Okla.

Engineer of Record BKL Inc., Tulsa, Okla.

Contractor Lambert Construction, Stillwater, Okla.

Precaster Coreslab Structures (OKLA), Oklahoma City, Okla.

Precast Specialty Engineer Salmons PC, Albuquerque, N.Mex.

Project Cost \$17 million

Designers of the new Payne County Jail in Stillwater, Okla., faced visual, spatial, and budgetary challenges in designing this 62,000 ft² (5800 m²) facility. The structure had to fit into a tight 160 ft × 150 ft (49 m × 46 m) site, the design had to complement the architecture of the adjacent courthouse and county building, and the cost had to fit the city's \$17 million budget.

The designers met these challenges by configuring a vertical design that placed all of the administrative functions on the ground floor with the inmate cells, dayrooms, and exercise spaces. The mechanical space is housed in the four stories above, says Chad Devarenne, project manager for Coreslab Structures.

Each set of stacked cells on each side of the two-story dayroom is framed with several different precast, prestressed concrete elements, including 10 in. (250 mm) hollow-core slabs; 6 in. (150 mm) solid flat slabs; and 6 in., 8 in. (200 mm), and 12 in. (300 mm) flat-slab wall panels. The adjacent exercise rooms are framed with flat-slab wall panels and 24-in.-deep (600 mm) prestressed concrete floor double-tees. Two-story mechanical chases were constructed behind the bank of cells, creating access for maintenance personnel that does not require them to enter the secured area.

"The ability to combine structural, mechanical, electrical, and insulating capability within the architectural load-bearing exterior wall panels contributed significantly to the reduced project budget," Devarenne says.

Judges' Comments

The jury was very impressed with the wide variety of products used on this building. We were also particularly impressed by the thought that went into the sequencing and erection process that was required because of the complex framing needed to meet the functional requirements. Because of the limited size of the site, and the difficulties of erection, precast was an ideal solution for this project.

APS



Photo courtesy of Kirk McClendon

Harry H. Edwards Award/ Sustainable Design Honorable Mention **Missoula Federal Credit Union** Missoula, Mont.

Owner Missoula Federal Credit Union, Missoula, Mont.

Architect MacArthur, Means & Wells, Architects, Missoula, Mont.

Engineer of Record Beaudette Consulting Engineers Inc., Missoula, Mont.

Contractor Gordon Construction Inc., Missoula, Mont.

Precaster Missoula Concrete Construction, Missoula, Mont.

Precast Specialty Engineer Beaudette Consulting Engineers Inc., Missoula, Mont.

Project Cost \$3 million



Photo courtesy of Luke Jackson, MMW Architects

The Missoula Federal Credit Union has achieved a sustainability milestone. It is the first building in the world in which all of the concrete used was made with 100% recycled content.

The owners of this project wanted their new branch office to be as environmentally responsible as possible, and designers achieved that goal through the use of a concrete product made without portland cement. Site-cast footings, foundation walls, floor slabs, precast concrete beams, exterior wall panels, coping, sills, and lintels all use this concrete mixture, which uses 100% fly-ash and recycled-glass aggregate.

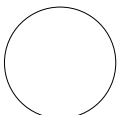
Because it was a pioneering use of the material, the local city building jurisdiction required a complicated sign-off process and detailed documentation to approve the mixture. The project team worked with a concrete-mixture design engineer to ensure that the material met the necessary standards, and testing was completed by a lab through Montana State University.

“We had virtually no difficulty with the precast elements,” says John Wells, principal for MacArthur, Means & Wells. “The regulated, uniform building units produced in the controlled environment of the precast plant helped the project team gain approval for this unique concrete mix.”

Thanks to the use of this innovative material, the Russell Street Branch is the first new building in Montana to receive LEED-NC platinum certification and has demonstrated that precast concrete can deliver the highest level of sustainability in a building solution.

Judges' Comments

The credit union used a very unique mix design for the precast concrete. The jury was very impressed with the fact that the concrete was made using 100% fly ash and recycled glass and thought it was very innovative for this reason. They were pioneers in this particular mix design, which is a great contribution to sustainable design. They had to maintain focus and diligence to accomplish this, and this particular precast manufacturer was willing to do that and stay the course through all the intensive engineering and design. This project is a great credit to what a precaster's ingenuity can contribute towards meeting sustainability goals.



Owner GlaxoSmithKline Inc.

Architect Jacobs, St. Louis, Mo.

Engineer of Record Jacobs, St. Louis, Mo.

Contractor Jacobs Field Services N.A., Conshohocken, Pa.

Precaster Oldcastle Precast Building Systems, Edgewood, Md.

Precast Specialty Engineer Oldcastle Precast Building Systems, Edgewood, Md.

Best Manufacturing Facility **GSK Data Center** Upper Providence, Pa.



Photo © Joseph M. Kitchen

Marking an entry to a corporate campus, this facility centralizes a number of functions into a flagship facility that strives to redefine the company standard in efficiency and sustainability. The design incorporates many materials and technologies serving as a test facility for many sustainable approaches that the client hopes to make a permanent part of its future building programs. A specific effort is being directed toward the design and implementation of systems and assemblies that can operate with greater efficiency and lesser impact.

The use of simple geometries and the articulation of exterior materials provide myriad opportunities towards the expression of the typical industrial 'big box.' Inhabited spaces are marked by the use of windows and an open environment, filled with natural light and optimizing views of surrounding wooded areas. In response to the site, the building is organized as a split-level with the Entry Pavilion at the mid-level. The ground level will house all of the staff work and break areas, as well as highly secure support areas. The upper level is used in its entirety for state-of-the-art data processing technologies and their support. The project's extremely tight schedule dictated the use of architectural precast concrete panels in order to take advantage of its straightforward modularity, early start to shop drawings, quality control concerns and speed of erection. Interplay of ribbed and smooth panels was utilized to break down the visual mass of such a large project, adding significant visual interest to all of the facility's facades. The ability to emulate the color and texture of the existing campus's masonry buildings freed the design team to explore the use of form-liners to create deep shadows that contrast smooth, crisp surfaces. In early collaboration with the precaster, the team developed a system of 74 smooth and ribbed panel sizes, ranging from 10'x46' to 10'x4', which were further detailed to include 14 different types of embeds required by the engineering disciplines. Additionally, the precaster's relative proximity to the site allowed significant advantages for controlling the quality of the product. Originally specified as structural precast, the precaster pushed the quality to PCI 117, providing a higher level of finish that allowed the design team to carry the material into the lobby as an accent as well as treat it as a focal element in views from the interior.

MA

JUDGES' COMMENTS

The jury really liked this data center because the building itself is very simple. However, they've used the precast in such a way as to make the material look more complex, by articulating it and adding ribbing to it. The judges liked how the precast incorporated deep reveals and architectural ornament at different scales as it repeated itself across the facade. Also, the interval concrete color really made it an attractive winner for us.

Best Multifamily, Cowinner

AIREA

Mexico City, Mexico

Owner VIDARQ, Mexico City, Mexico

Architect VIDARQ, Mexico City, Mexico

Engineer of Record Postensa, Mexico City, Mexico

Contractor VIDARQ, Mexico City, Mexico

Precaster Pretecsa, S.A. de C.V., Atizapan de Zaragoza, Estado de Mexico

Precast Specialty Engineer Pretecsa, S.A. de C.V., Atizapan de Zaragoza, Estado de Mexico

Project Cost \$27.5 million



Photo courtesy of PRETECSA Archive

VIDARQ Architects took advantage of the chameleon-like nature of precast concrete when they designed the AIREA 12-story apartment building in Mexico City, Mexico.

The owners wanted a building that appeared light and airy while delivering a sturdy construction, says Abraham Cherem, CEO of VIDARQ. The challenge was to find a way to incorporate the durability and cost benefits of precast concrete into a design that naturally integrated windows into the structure.

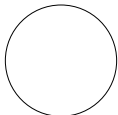
To achieve this goal, the precast concrete panels were designed to lightly underline the facade, hiding the windows and becoming the framing system.

“The precast elements evolved to combine architectural white chiseled concrete as a framing structure, giving the precast a translucent look,” Cherem says.

Overlooking the city’s largest park, the apartment structure features two deluxe towers designed with architectural precast concrete panels that were carefully crafted to avoid a negative environmental visual impact.

JUDGES’ COMMENTS

The judges liked how the precast was very light and airy and how it emphasized the classic nature of the material. It created deep shadow lines and reveals across the whole building, providing some shading to the facade, and really was a great statement for an apartment building in the south. The precast elements lent themselves well to its urban location, and the warm climate that the building was in. We felt it was regionally very appropriate. The detailing in the precast really reinforced everything from massing to its regional awareness. All the way down to the details it was just a very solid project.



Best Multifamily, Cowinner Nouvelle at Natick Residence Natick, Mass.

Owner General Growth Properties, Chicago, Ill.

Architect ADD Inc., Boston, Mass.

Engineer of Record McNamara Salvia, Boston, Mass.

Contractor Dimeo Construction, Providence, R.I.

Precaster BPDL Inc., Alma, QC, Canada



Photo courtesy of ADD Inc.

Designers of the Nouvelle at Natick residence used color, curvature, and light to create a natural yet urban addition to the reinvented mall in Natick, Mass.

A key design goal was to find an inexpensive yet durable facade material that was suitable for the suburban housing market, explains ADD architect Tamara Roy, AIA, LEED AP. Precast concrete fit the bill; however, the designers first had to devise a strategy to deliver the systematic, repetitive logic that could accommodate the irregular building shape, corners, and balconies.

The design includes a curved north building and a rectangular south building with a linking bridge. A glowing drop-off with a curving orange plaster wall welcomes visitors and residents to the condominiums.

They achieved the design goals through the use of three precast concrete patterns that were assembled to create a natural sense of variation that reflects the color scheme of the nearby wetlands.

"The precast concrete panels allowed us to create beautiful detail at the window frames and textured surfaces that resemble terra cotta's color variations, yet with a more economical material," Roy says. "And the design team's ability to organize a complex building into pieces that appear to have organic variation but are actually only three versions of the same pattern was a real achievement."

MF

JUDGES' COMMENTS

The jury enjoyed how this project used a variety of different precast finishes in order to break down the mass of this large apartment complex. We enjoyed the tight reveals; taut, flat color across the facade; as well as the mottled finishes and variety of different textures the precast was able to achieve. They utilized a number of different building heights, shapes, colors, material palettes, and aggregates. The structure, when viewed as a whole, really shows many different uses of precast material and, frankly, how it can be used to provide a real sense of scale to projects.

Best Multifamily, Cowinner Rosa Parks Apartments Chicago, Ill.

Owner Rosa Parks Limited Partnership, Chicago, Ill.

Architect Landon Bone Baker Architects, Chicago, Ill.

Engineer of Record GFGR Inc., Chicago, Ill.

Contractor Humboldt Construction Co., Chicago, Ill.

Precaster Prestress Engineering Co. LLC, Prairie Grove, Ill.

Precast Specialty Engineer Prestress Engineering Co. LLC, Prairie Grove, Ill.

Project Cost \$22.6 million



Photo courtesy of Mark Ballogg, Ballogg Photography



Photo courtesy of Mark Ballogg, Ballogg Photography

As an affordable housing development, the Rosa Parks Apartment buildings in the West Humboldt Park neighborhood of Chicago, Ill., needed to be economical to build and sustainable for long-term operation and maintenance. They also had to offer a contemporary design that would fit in with the existing neighborhood.

“We needed a straightforward design with a limited number of parts and as few complicated details as possible,” says Peter Landon, principal of Landon Bone Baker Architects.

It was also necessary for the project, which includes 8 buildings on 21 city lots, to be built quickly to minimize the risks of working in a high-crime neighborhood. Landon saw precast concrete as a solution to these challenges.

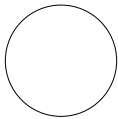
“In tough neighborhoods, where security during construction is critical, precast allowed us to place the panels, install windows and doors, and secure the building quickly and with minimal weather setbacks,” he says.

The design features a system of precast concrete, exterior load-bearing wall panels and bays that are thermally isolated from the interior with a steel frame and exterior metal panel system connected to the outside of the insulation. The design proved to be tight and energy efficient, thanks to the large panels that reduced exterior joints. An efficient floor plan with only two window types and clean and simple interiors completed the design.

“Now we have a group of new, solidly built buildings providing the neighborhood residents with hope that their community will be a good and safe place to live,” Landon says.

JUDGES' COMMENTS

This is a very classic, urban, modern, brownstone appearance where the precast was utilized to bring a real sense of warmth to this building. The entrant called this “an active neighborhood” and said that “security was a big issue on the construction site.” One of the things that they credited precast with was the ability to get the panels up and the windows and doors installed quickly. This allowed for the units to be buttoned up with relatively few delays and could make the construction site secure.



Owner American Pharmacists Association, Washington, D.C.

Architect Hartman-Cox Architects LLP, Washington, D.C.

Engineer of Record Thornton Tomasetti Group, Washington, D.C.

Contractor Tishman Construction, Washington, D.C.

Project Cost \$60 million

Best Office Building: Mid-Rise American Pharmacists Association Washington, D.C.



Photo courtesy of Bryan Becker

When a project site is a national historic landmark, every detail must be painstakingly considered. By using precast concrete on the American Pharmacists Association building on the National Mall in Washington, D.C., designers were able to complete a renovation and addition, increasing the building's size 20 times, while retaining its historic identity and presence.

"The control of color and finish was particularly important due to the proximity of the historic structure and the National Mall," says D. Graham Davidson, FAIA, partner at Hartman-Cox.

Hartman-Cox chose precast concrete for the facade because it allowed them to respond to the color and intricate detail elements of the original structure and to incorporate plane changes, belt courses, cornices, and window surrounds, all within the not-for-profit institution's budget constraints.

The facade of the addition extends symmetrically on either side and above the existing building to create a background fabric for the historic structure and the context of Constitution Avenue, maintaining and reinforcing the integrity of the John Russell Pope Building.

The precast concrete also accommodated the blast resistance required for the structure, Davidson says. "Precast concrete provided the design flexibility, consistency, and sustainability we were looking for."

JUDGES' COMMENTS

The building sits on the Mall in Washington, D.C., a very prominent location surrounded by historic buildings, and the architect integrated the new precast elements with the historic buildings in a seamless manner. Perhaps the best compliment was that we really couldn't tell where the existing building ended and the new building picked up. This really demonstrates the aesthetic ability of precast to match existing materials and details very well.

Best Office Building: High-Rise MetWest One at MetWest International Tampa, Fla.

Owner Metropolitan Life Insurance Co./
MetLife Real Estate Investments, Tampa, Fla.

Architect tvsdesign, Atlanta, Ga.

Engineer of Record
Walter P. Moore and Associates Inc., Atlanta, Ga.

Contractor Skanska Building USA Inc., Tampa

Precaster Gate Precast Co., Kissimmee, Fla.

Precast Specialty Engineer Precast Design Solutions, Concord, ON, Canada

Tvsdesign's innovative use of steel and precast concrete set the design tone for the new 31-acre (13 ha) mixed-use development in Tampa, Fla.

The 10-story, 265,800 ft² (24,690 m²) MetWest One office building features a steel structure that supports exterior precast concrete and a punched opening grid of aluminum and glass window wall fenestration. Precast concrete extensions at selected window head and sill locations provide a play of sunlight and shadows on the building surfaces.

Perhaps the most compelling aspect of the design is the use of precast concrete in the building's signature parapet, with its floating thin horizontal slab expression that captures daylight reflections from the roof and at night provides a lighted cap to the building.

The parapet created unique engineering design challenges for the precast concrete contractor, Gate Precast, not only in its dimensional size and connection method but also in its configuration, which required cantilevered wings at each end.

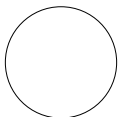
The effort was worth it, however, says David Fulmer, senior associate at tvsdesign. "The precast cap over the tower serves as a signature form by day for the office building and a beacon at night for the overall development."

JUDGES' COMMENTS

What the jury really gravitated towards on this building was the very delicate application of precast on the exterior of the building. The relationship between the precast elements and the glazing was done in a very airy and free way. The entire structure is based on a precast system from the columns to the floor slabs to the exterior, and we thought it was a very unique application of a 100% precast building.



Photo courtesy of David Fulmer/TVS Design



Best Public/Institutional Building (up to 10,000 ft²), Cowinner Cultural and Community Center Pointe-Valaine Otterburn Park, QC, Canada

Owner City of Otterburn Park, QC, Canada

Architect Smith Vigeant Architectes, Montreal, QC

Engineer of Record EGP Group, Montreal, QC

Contractor EBC - Progest Construction, Montreal, QC

Precaster Armtec/Groupe Tremca, Saint-Jean-sur-Richelieu, QC

Precast Specialty Engineer Armtec/Groupe Tremca, Saint-Jean-sur-Richelieu, QC

Project Cost \$2.2 million



Yves Beaulieu, photographer

As a social, cultural, and recreational center, the pavilion unifies beach, riverwalk, and picnic area, just off a historical road, into a healthy expression of community development. This new building includes an exhibit and meeting hall of 200-seat capacity, a smaller 12 person meeting room, an office and support space. At the lower level, it provides storage space for canoes, kayaks and recreational material, a workshop, lockers and showers for the users/cyclists.

The city was eager to support a sustainable project as a reflection of the community's values. The collegial design approach (IDP) permitted an open and fluid process of conception. Environmental impacts were analyzed at several levels including the immediacy of personal comfort, the health of the community and the reduction of ecological footprint. The LEED-NC Gold criteria were integrated as a base reference standard.

Poured concrete was first considered for the exterior walls and main floor structure, but the cost was overwhelming. The optimum solution was to use recuperated, insulated precast concrete panels from a deconstructed retail store, which covered approximately 40% of the exterior wall surfaces. Slight modifications were made to meet the architectural design for a seamless integration. The installation was quite simple and easy. Most of the panels were cut and installed vertically to respect an alignment with the curtain wall.

Besides elevating the thermal mass inertia, the panels along with recuperated masonry provide a resistant warm finish. Radiant floors (precast and concrete slab) finished with a clear sealant reduce the use of additional flooring materials and provide a healthy and efficient form of heating.

JUDGES' COMMENTS

This cultural center was another big hit with the jury. In addition to being a beautiful project, it has a very strong sustainable agenda. Using legal standards as a baseline for the project, they constructed a building that was heavy on the reuse of materials. The panels were taken from an existing retail big-box store and then repurposed into this really exciting design with great use of natural light, great balance between the windows and the precast, and being able to reuse those panels made it incredibly sustainable, which really caught the judges' eye.

PI

Best Public/Institutional Building (up to 10,000 ft²), Cowinner Teen Living Programs Chicago, Ill.

Owner Teen Living Programs, Chicago, Ill.

Architect Hartshorne Plunkard Architecture, Chicago, Ill.

Engineer of Record Fisher + Partners, Chicago, Ill.

Contractor Summit Design+Build, Chicago, Ill.

Precaster Lombard Architectural Precast Products Co., Alsip, Ill.

Precaster Mid-States Concrete Industries, South Beloit, Ill.

Project Cost \$2.8 million

This Teen Homeless Shelter and Community Center provides a safe environment, tools, and encouragement for homeless youths in Chicago, Ill., who strive for independence while maintaining a connection with the community. Pro-bono architectural services were provided for the new three-story center, which includes housing, education, counseling, health care, and life skills training.

The precast concrete and glass envelope provides modern amenities within a warm and friendly interior. This facility has 24 individual bedrooms for the residents along with an emergency shelter for younger children, community rooms, a teaching kitchen, teen lounge, computer lab, and library.

Private and group living has proved to be a successful environment for the young residents as they receive the basic needs of food, shelter, and clothing.

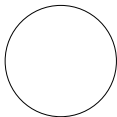
Precast concrete was used to create a warm, welcoming and durable new residential facility. The exposed interior precast concrete walls reduced the amount of drywall needed and the potential for mold. Also, using precast concrete for the structural and architectural systems of the structure shortened the overall construction schedule and will provide a low maintenance façade.

JUDGES' COMMENTS

Overall, this project was a huge favorite for the jury. It has a fantastic story behind it. A building like this has a budget of which everyone has to be mindful. Precast was able to give them a long-term solution with a good life cycle that allows the building to be kept up over the years and remain a center for the community. The different reveals and depths of the panels give the facade a lot of texture and interest that is not often a part of a public building. This adds a feeling of warmth and importance to the building and the community.



2010 © Patsy McEnroe Photography



Best Public/Institutional Building (10,000 ft²+), Cowinner Caltrans District 3 Office Building Marysville, Calif.

Owner State of California Department of General Services, West Sacramento, Calif.

Architect AC Martin Partners, Los Angeles, Calif.

Engineer of Record Elglekirk & Sabol Consulting, Los Angeles, Calif.

Contractor Turner Construction Co., Sacramento, Calif.

Precaster Clark Pacific, West Sacramento, Calif.

Precast Specialty Engineer Clark Pacific, West Sacramento, Calif.

Project Cost \$65.6 million

The recently completed \$65 million Caltrans state office building is a shining example of how an all-precast concrete solution brings cost efficiency and extraordinary results to a project.

The 230,000 ft² (21,000 m²), five-story office building, which was designed for a LEED silver rating, houses 800 employees and features a 200-seat auditorium, meeting spaces, public counters, and loftlike open offices with high ceilings and abundant natural lighting.

The project was a design-build competition, and the design team of Turner Construction and architect AC Martin brought precaster Clark Pacific on early in the process to help develop a cost-effective all-precast system. The precast concrete design beat the two competing steel structures and was the only one of the three designs to meet the mandated stipulated sum while delivering the program laid out by the state.

"The precast structural system piqued our interest, especially because of the shorter construction period required," says Richard Myren, project director of the California Department of General Services.

This cost-effective approach eliminated the need for fireproofing and a secondary facade system; sped up the construction schedule; and, through the additional application of the structurally resilient precast hybrid moment frame, helped deliver the wide-open and well-lit interior spaces that are the hallmarks of this project.

Carey McLeod, lead architect for AC Martin, agrees. "The total-precast design was the right solution for the right price to meet the user's needs."

JUDGES' COMMENTS

The judges appreciated the use of the hybrid frame on this building, as well as the use of different types of brick inlaid, sandblasted and acid-etched precast. The fact that the whole structure was precast and the general story around the building really attracted our attention to the entry. I especially liked the variety of the precast, the fact that they mixed all the different types of detailing with the brick.



photography by: ART GRAY

Best Public/Institutional Building (10,000 ft²+), Cowinner **LAPD Police Administration Building** Los Angeles, Calif.

Owner City of Los Angeles, Calif.

Architect AECOM / Roth+Shepard Joint Venture, Los Angeles, Calif.

Engineer of Record Nabih Youssef & Associates, Los Angeles, Calif.

Contractor Tutor-Saliba, Sylmar, Calif.

Precaster Coreslab Structures (L.A.) Inc., Perris, Calif.

Project Cost \$243 million



Photo courtesy of Phil Felten/Coreslab Structures (L.A.) Inc.

The Los Angeles Police Administration Building was built to replace the nearly 60-year-old former headquarters of the city police department. The main design goals for the police department were to manifest their desire for increased transparency and at the same time maintain a secure and safe environment for the building's users and visitors.

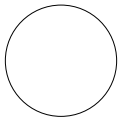
Taking advantage of required setbacks and the building's geometry, each side of the site was given its own character. Use of precast concrete products played a key role in achieving this effect for each side of the building. A terraced civic plaza facing city hall was made possible by the diagonal geometry of the tower in combination with recessing the main mass of the building away from the street frontage.

A linear park was formed along the west side with a group of precast concrete bench seating areas and planters augmented by a series of sculptures. A nearly 1-acre park is situated on the south side of the site, facing a large residential project across the street.

A contemplative rooftop garden containing a memorial to officers fallen in the line of duty is raised above street level on the east side of the site.

JUDGES' COMMENTS

This police headquarters really resonated with the jury because the precast was used in a variety of different ways. It serves both as a frame for the glass structures as well as sort of a structural scrim that's interspersed with glass. It's a great, sustainable project because of its life-cycle abilities, so we thought it was one of the best projects that we saw overall.



Best Parking Structure (0–999 cars) Morr Transfer Garage Kansas City, Mo.

Owner

DST Realty, Kansas City, Mo.

Architect

360 Architects, Kansas City, Mo.

Engineer of Record

Bob D. Campbell & Co., Kansas City, Mo.

Contractor

J. E. Dunn, Kansas City, Mo.

Precaster

IPC Inc., Des Moines, Iowa

Precast Specialty Engineer

Structural Engineering Associates Inc.,
Kansas City, Mo.

Project Cost

\$4.7 million



Photo courtesy of 360 Architects

The distinctive facade of this railroad-themed parking structure in Kansas City, Mo., cleverly demonstrates the flexibility of precast concrete for unexpected design choices. Complimenting the adjacent railroad hub, the Morr Transfer Garage features actual wooden railway ties on its facade set in a framework of steel attached to a naturally tinted architectural total frame precast concrete structure.

The decision to use precast concrete helped designers overcome significant project challenges, including tight site logistics and serious scheduling issues, says Dirk McClure, regional sales manager of IPC Inc. The jobsite was sandwiched between an operational railroad track and a street preparing to undergo construction, giving the team little time or space in which to maneuver.

"Precast concrete's just-in-time delivery and speedy erection allowed the garage to achieve substantial completion in time to hit the city's target date to commence work on the street, avoiding the complicated coordination of two major projects happening simultaneously," McClure says.

The project team also faced challenges setting the corner columns due to their size and number of pockets, recessed areas, and reveals. To get them in place, the columns were tilted slightly as the spandrels were set into place, then deflected back to plumb.

"The team took their time getting the first couple of columns just right," McClure says. "Once those were set, the rest of the precast installation went remarkably quickly and smoothly."

JUDGES' COMMENTS

What the jury found really most innovative about this project was the combination of the man-made precast structure with the natural structure of the wood, which turned out to be a really elegant and beautifully detailed fit. It's always a real dilemma, how to mix wood with other materials, and we think they did a very good job here. The precast really lent itself to making articulated connections between dissimilar materials, and this project really came off well. It doesn't look like a parking garage when you first look at it. It looks like a much more complex building. Precast is a very versatile aesthetic material that works well with other natural materials and that is highlighted by this project.

Best Parking Structure (1000+ cars), Cowinner Halifax International Airport Parking Garage Enfield, NS, Canada

Owner

Halifax Airport Authority, Enfield, NS, Canada

Architect

NORR Ltd., Architects Engineers Planners
Toronto, ON, Canada

Engineer of Record

BMR Structural Engineering, Halifax, NS

Contractor

Three C's Contractors Ltd., Lower Sackville, NS

Precaster

Strescon Ltd., Bedford, NS

Precast Specialty Engineer

NORR Ltd., Architects Engineers Planners
Toronto, Ontario

Project Cost

\$41.6 million



Photo courtesy of PCI

Building an open-air, 2000-space parking structure at the Halifax International Airport during the inclement weather of the winter months presented many operational challenges for the designers. Passenger disruptions, weather-related delays, and the impact to cost and schedule were all obstacles they had to address to keep the project on track.

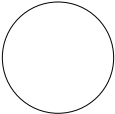
They overcame these obstacles by choosing a precast concrete solution.

"Precast concrete quickly became the obvious choice for reasons of cost, clear spans, quality control, and speed of construction," says Rolfe Kaartinen, vice president of transportation for NORR Ltd.

The structural flexibility of precast concrete enabled designers to open the east elevation of the garage toward the airport terminal, while the use of precast concrete and double-tees provided natural ventilation and an abundance of natural light. The north and south walls were designed with solid structural shear elements in a basket-weave design.

To minimize disruption to travelers, the delivery and erection of precast concrete elements were staged and coordinated so that delivery trucks remained on-site for no more than 10 minutes during peak airport hours.

"This could only have been achieved by employing precast concrete, which allowed for off-site manufacturing and immediate off-loading at delivery," Kaartinen says.



JUDGES' COMMENTS

The jury liked the way that precast gave the project flexibility to have some really interesting forms. It allowed for this kind of basket-weave articulation. It's a facade that can only be completed using precast concrete. There's no other material that could possibly be used in the same way. It creates a very innovative and dynamic structure that sort of pushes the envelope of what people think of as being possible with precast concrete. It serves as a good example of the flexibility and fluidity of the material.

Best Parking Structure (1000+ cars), Cowinner /All Precast Solution Honorable Mention

Calgary International Airport Parkade P2 and Departures Roadway Extension

Calgary, AB, Canada

Owner Calgary Airport Authority, Calgary, AB, Canada

Architect Gibbs Gage Architects, Calgary, AB, Canada

Engineer of Record Read Jones Christoffersen Ltd., Calgary, AB, Canada

Contractor EllisDon Construction Services Inc., Calgary, AB, Canada

Precaster Armtec, Calgary, AB, Canada

Precast Specialty Engineer Armtec, Calgary, AB, Canada

Project Cost \$76 million

When Read Jones Christoffersen set out to design a new parking structure and elevated roadway extension for the bustling Calgary International Airport, they knew that an all-precast concrete solution was the best choice. The same team had designed the airport's previous parking expansion structure and they knew the benefits that precast concrete would bring to the project.

"Using precast concrete helped to control costs, improve schedule, and minimize impact on existing operations," says Ken Laustsen, principal for Read Jones Christoffersen.

This open-air precast concrete parking structure is four parking bays wide with a footprint of 90,000 ft² (8000 m²). The stairwells, stairs, elevator shaft, and lobby, as well as the two spiral ramps, are all constructed of precast concrete.

Sustainability and passive security features include 18 m (59 ft) clear span precast pretopped double-tees to maximize views of the parking decks, sightline view holes through precast shear walls, and glass-enclosed exterior precast stairwells to maximize day lighting and security.

Laustsen notes that in the previous parking structure addition the stair shafts and spiral ramps were cast-in-place concrete, which proved to be a hindrance on the overall schedule. Choosing an all-precast solution shortened the schedule to a mere 1½ months and reduced disruptions.

"Conservatively, several months of construction time was saved by using precast concrete for the spiral ramps rather than cast-in-place," he says.

JUDGES' COMMENTS

This seven-story parking structure is very intriguing because of its use of an all-precast structure. Holding nearly 2000 parking spaces, the entire structure, including a complex circular helix ramp, was built out of precast concrete. This was very impressive. It showcases precast's flexibility and durability and is a great choice to stand up to the all the wear and tear that such a parking structure will get over time.

PS



Photo courtesy of Roy Doms/Lightworks Photography

Best Retail/Mixed-Use Building

Elysian Chicago, Ill.

Owner First Elysian Properties, Chicago, Ill.

Architect Lucien Lagrange Architects, Chicago, Ill.

Engineer of Record Halvorson and Partners, Chicago, Ill.

Contractor McHugh Construction, Chicago, Ill.

Precast Specialty Engineer Curtain Wall Design Consultants, Dallas, Tex.

Project Cost \$182.5 million



When Lucien Lagrange Architects designed the Elysian, a luxury 60-story hotel and residential tower, they wanted to create a luxurious setting that would stand out as an icon of elegance in Chicago's posh Gold Coast neighborhood.

They chose architectural precast concrete panels to create a richly articulated entry courtyard that signals the high quality of this new hotel brand. The precast panels create deep reveals reminiscent of stone joinery and detailing, while decorative cornices, urns, and copings work together to create an elegance of century-old design and craftsmanship.

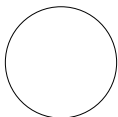
"Precast was the best exterior cladding material for this project because of the high-quality finish we were able to achieve," says Heather Weed Niehoff, principal of Lucien Lagrange Architects. "The panelization allowed us to create a cost-effective design that met the intricate custom details we were looking for."

The design team also used precast concrete at the ground floor of the building, where one would usually think of using stone, because the level of detailing and the fine finish surface they were able to achieve perfectly mimics the look of natural stone, she adds. "You can walk right up to the material, touch it, and it has the richness and solidity of a fine limestone finish."

JUDGES' COMMENTS

The building is a very tall, slender building in an urban environment; however, it is done in a way where the limestone is cast in a very classical, French manner that actually brings a reasonable sense of scale to such a tall urban building. The judges enjoyed this entry immensely. The streetscape was beautiful. The scale of the windows and the proportions of the building overall were really outstanding. The precast did a fantastic job of mimicking limestone. The owner was able to get the look they desired, without the higher cost.

Photography by William Zbaren



Best School (K-12) Grand Prairie ISD Dubiski Career High School Grand Prairie, Tex.

Owner

Grand Prairie ISD, Grand Prairie, Tex.

Architect

Corgan Associates Inc., Dallas, Tex.

Engineer of Record

L. A. Fuess Partners, Dallas, Tex.

Contractor

Lincoln Builders Inc., Fort Worth, Tex.

Precaster

Gate Precast Co., Hillsboro, Tex.

Precast Specialty Engineer

Stehler Structural Engineering
Shoreview, Minn.

Project Cost

\$45 million



Photo courtesy of Gate Precast Co.

This project is a 2,000 student capacity Career and Technology High School. The four-story, 260,000-square-foot structure is specifically designed to accommodate the unique programmatic needs of this type of high school, including specific career track diploma programs. The high school is located on a 23 acre site and is a very prominent structure that is visible for miles in either direction.

Precast was used on the south and west sides of the building to buffer highway noise for occupants and also provide thermal mass on those exposures. The architect wanted an exterior that looked like large blocks of natural shell stone chiseled out of the ground and stood up in place. Architectural precast was chosen because of its ability to conform to an unlimited amount of design options including durability, sustainability (real shellstone fades over time), waterproofing, and economy.

The project exemplifies community collaboration to the fullest extent and is the result of years of planning and coordination. The decision to use precast concrete helped in completing the entire project without a change order, on time, and on budget.

SC

JUDGES' COMMENTS

The jury loved the story of the seashells and the fossils being integrated into the precast form liners, weaving in an educational story to the building. The overall design was exquisite in all the different uses of the finish from large panels to small panels across the facade.

Owner CSU San Bernardino, San Bernardino, Calif.

Architect LPA Inc., Irvine, Calif.

Engineer of Record LPA Inc., Irvine, Calif.

Contractor Barnhart Inc., Riverside, Calif.

Precaster Clark Pacific, Fontana, Calif.

Precast Specialty Engineer Clark Pacific, Fontana, Calif.

Project Cost \$40.8 million

Best School (University) College of Education, CSU San Bernardino San Bernardino, Calif.



Photo courtesy of Costea Photography Inc.

The CSU San Bernardino Desert in the Garden project is at the base of the San Bernardino Mountains, where the edge of campus erodes into the high desert terrain of Southern California. Although it is located in the desert, most of the campus is covered in a blanket of green lawn and shrubs.

Taking cues from the environmental context and small pockets of indigenous planting material found at the entries to campus, the new building carves 5 acres out of the garden to promote a natural desert habitat. This landscape and the irrigation system is connected to a natural site aquifer providing 100% of the project's irrigation needs.

Glass-fiber-reinforced concrete (GFRC) panels were selected because of their sustainable features. In addition, the GFRC panels' flexibility in the production process allowed for an expressive exterior. The GFRC panels were cast in a 300' radial concave pattern and give an elegant, high-quality finish to the entrance wall. The shape of the entrance wall diverts the Santa Ana winds to create a protected student entry and scholastic gallery. The different textures achieved with the GFRC help give scale to the project and reinforce the building's narrative and function.

JUDGES' COMMENTS

This building is a college of education that's set out in the desert, and it was really interesting how they used precast. The designers were able to create a very nice curve and balance of windows and solid spaces using precast concrete. There's some very interesting detailing in the precast that makes it look like a very rich material palette. It was an exciting building for us to look at.

SC

Best Single-Family Home

PREtTyFAB

Jersey City, N.J.

Owner

Denise Carpenter, Jersey City, N.J.

Architect

GRO Architects PLLC, New York, N.Y.

Engineer of Record

GRO Architects PLLC, New York, N.Y.

Contractor

Octagon Construction, Carteret, N.J.

Precast Specialty Engineer

Kercher Engineering Inc., Newark, Del.

Project Cost

\$265,000



Photo courtesy of GRO Architects

Prefabricated homes have become a hot trend in sustainable design, and PREtTyFAB proves the benefits that precast concrete brings to this energy-efficient design development.

These easy, low-cost housing options bridge the schism between green design and economic viability, and precast concrete is a natural part of the solution. The PREtTyFAB prototype in Jersey City is a 1600 ft² residence that prioritizes geometry to optimize solar collection, drainage, and passive heating and cooling while adhering to a modest budget.

Key to the successful design of the home was finding a manufacturer to produce panels to accommodate the small scale of the project. GRO Architects worked with a local manufacturer of basement foundation walls who customized his precast panels for use in exterior applications with multiple stacks and specialized geometry. Company owner John Ruga ultimately formed Northeast Precast, which now specializes in making small precast concrete insulated panels that can be used as high-energy performance structural walls between which the small structure is framed.

The result is a home that is 30% more energy efficient than a typical house, according to Richard Garber and Nicole Robertson, principals at GRO Architects. "The PREtTyFAB house represents the first of many of these kinds of houses—as a viable, green, and modern alternative to typical urban infill housing seen in Jersey City."

HO

JUDGES' COMMENTS

This single family housing prototype was developed as a low cost solution, and can be deployed in any number of infill situations. One thing that really resonated with the jury was how they used insulated precast concrete wall panels for the structural support, as well as part of the aesthetics. These walls provided great energy performance and allowed for quick construction. This is a great example of how precast can be used in smaller projects, such as single family housing, to meet budget and sustainability goals.

Owner Virginia Polytechnic Institute & State University, Blacksburg, Va.

Architect Cannon Design, Baltimore, Md.

Engineer of Record Cannon Design, Grand Island, N.Y.

Contractor The Whiting-Turner Contracting Co.,
Charlotte, N.C.

Precaster Smith-Midland Corp., Midland, Va.

Precast Specialty Engineer
Charles Engineering Co., Greensboro, N.C.

Project Cost \$20 million

Best Stadium Virginia Tech, Hahn Hurst Basketball Practice Center Blacksburg, Va.



Photo courtesy of Hahn Hurst Basketball Practice Facility

The new 49,000 ft² (4600 m²) Hahn Hurst Basketball Practice Center at Virginia Tech University had to do more than just give athletes a place to play.

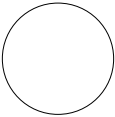
"We needed a wow factor as we pursue players who can compete on the court and in the classroom," says head men's basketball coach Seth Greenberg. "The new basketball practice facility is that wow factor."

The exterior of the facility, which includes two full-length basketball courts, offices, spacious locker rooms, and an Olympic weight room, features 6-in.-thick (150 mm) steel-reinforced architectural precast concrete panels with a buff limestone finish. Custom imprints of basketballs, logos, and an 1872 seal were cast into the panels to heighten the visual appeal.

"The precast concrete panels offered a number of advantages over other types of construction," says Matthew Smith, vice president of sales for Smith-Midland. "The aesthetic flexibility of the panels gave designers unlimited options in terms of textures, colors, and finishes."

And because the panels are manufactured in a plant environment, they can be erected quickly, lowering construction costs and allowing for a faster schedule. Smith notes that 160 of the precast panels were so large—34 ft × 11 ft (10 m × 3 m)—that they were delivered one panel per truck.

"The large size enabled the accelerated erection schedule of just one month," Smith adds.



JUDGES' COMMENTS

One of the things that we really liked about this project is the fact that it showcases the plasticity and versatility of precast concrete. In addition to being a well-designed building, it showcases several options for imprinting precast including an 1872 seal for the university as well as the Virginia Tech logo and basketballs that identify the use of the arena. One of the other things that was great was the precast was able to be finished in a sort of buff finish that mimics or dialogues with the limestone used in the other buildings on campus. This really helped it to blend and work with the rest of the campus fabric.

Best Custom Solution

British Telecom America Parking Lot Tracking System

El Segundo, Calif.

Owner

British Telecom, El Segundo, Calif.

Architect

El Solutions, San Rafael, Calif.

Engineer of Record

Nakaki Bashaw, Irvine, Calif.

Contractor

El Solutions, San Rafael, Calif.

Precaster

Mid-State Precast, Corcoran, Calif.

Precast Specialty Engineer

Mid-State Precast, Corcoran, Calif.

Project Cost

\$6 million



Photos courtesy of Mid-State Precast

The new British Telecom America parking lot tracking system combines solar energy with prestressed, precast concrete to create a durable, environmentally friendly design that reduces the cost and maintenance requirements of going solar.

The 500 KW-AC solar photovoltaic system at the BT headquarters in El Segundo, Calif., is among the largest of its type in southern California, and is the first to use long-span, prestressed, precast structures for mounting.

Generally, photovoltaic systems are constructed out of steel. However, the escalated cost of steel made this approach cost-prohibitive, explains Dave Dieter, president of Mid-State Precast. Working closely with the engineer, Mid-State was able to convert the project from steel to precast concrete by designing, engineering, and constructing a prestressed concrete solution that met the client's budget, quality, and schedule goals.

"Use of precast for the mounting structure was 15% to 20% lower in cost than steel mounts, and the smooth, natural concrete finish does not require the annual maintenance that steel structures need to keep a quality finish in the salt air environment," says Dieter. "This project is a showcase for an innovative use of precast."

JUDGES' COMMENTS

What we really liked about this project was the very innovative use of precast concrete. The idea was to create a solar array with nearly 2000 solar panels in a parking structure. The structure was made entirely out of precast concrete with very, very slim and elegant columns that support the photovoltaic arrays on the top. One reason they used precast concrete was that it was more economical than steel. Another benefit of using precast was the fact that the installation was located in southern California in a salt air environment, and the precast was far more durable than other materials would be. Precast will be able to stand up to the elements.

Sustainable Design, Honorable Mention

Missoula Federal Credit Union Russell Street Branch

Missoula, Mont.

Owner Missoula Federal Credit Union, Missoula, Mont.

Architect MacArthur, Means & Wells, Architects, Missoula, Mont.

Engineer of Record Beaudette Consulting Engineers Inc., Missoula, Mont.

Contractor Gordon Construction Inc., Missoula, Mont.

Precaster Missoula Concrete Construction, Missoula, Mont.

Precast Specialty Engineer Beaudette Consulting Engineers Inc., Missoula, Mont.

Project Cost \$3 million



Photo courtesy of Luke Jackson, MMW Architects

All-Precast Solution, Honorable Mention

Calgary International Airport Parkade P2 and Departures Roadway Extension

Calgary, AB, Canada



Photo courtesy of Roy Ooms/Lightworks Photography

Owner Calgary Airport Authority, Calgary, AB, Canada

Architect Gibbs Gage Architects, Calgary, AB

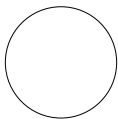
Engineer of Record Read Jones Christoffersen Ltd., Calgary, AB

Contractor EllisDon Construction Services Inc., Calgary, AB

Precaster Armtec, Calgary, AB

Precast Specialty Engineer Armtec, Calgary, AB

Project Cost \$76 million



Best Parking Structure (0–999 cars), Honorable Mention **Lancaster Newspapers Parking Garage** Lancaster, Pa.

Owner Lancaster Newspapers, Lancaster, Pa.

Architect Greenfield Architects Ltd., Lancaster, Pa.

Engineer of Record Providence Engineering Corp., Lancaster, Pa.

Contractor High Construction Co., Lancaster, Pa.

Precaster High Concrete Group LLC, Denver, Pa.

Project Cost \$11.1 million



Photo courtesy of High Concrete Group LLC.

Best Parking Structure (1000+ cars), Honorable Mention **Whitby GO Station Multilevel Parking Facility** Whitby, ON, Canada



Photo courtesy of Finn O'Hara Photography

Owner Metrolinx GO Transit, Toronto, ON, Canada

Architect IBI Group, Toronto, ON

Engineer of Record Read Jones Christoffersen, Toronto, ON

Contractor Kenaidan Contracting Ltd., Mississauga, ON

Precaster Pre-Con Inc., Brampton, ON

Precast Specialty Engineer Pre-Con Inc., Brampton, ON

Project Cost \$32 million

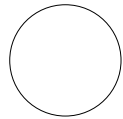
Best Public/Institutional Building, Honorable Mention **Mexico City Church of Jesus Christ of Latter-Day Saints** Mexico City, Mexico



Photo courtesy of PRETECSA Archive

Owner Church of Jesus Christ of Latter-Day Saints, Salt Lake City, Utah
Architect Valentiner Crane Brunjes Onyon Architects, Salt Lake City, Utah
Engineer of Record Reaveley Engineers & Associates Inc., Salt Lake City, Utah
Contractor Jacobsen Construction, Salt Lake City, Utah
Precaster Preteca S.A. de C.V., Atizapan de Zaragoza, Estado de Mexico
Precaster Specialty Engineer Preteca S.A. de C.V., Atizapan de Zaragoza, Estado de Mexico
Project Cost About \$6 million

Best Retail/Mixed-Use Building, Honorable Mention **Midtown Crossing at Turner Park** Omaha, Neb.



Owner Mutual of Omaha, Omaha, Neb.
Architect Holland Basham Architects, Omaha, Neb.
Engineer of Record Nielsen-Baumert Engineering, Omaha, Neb.
Contractor The Weitz Co., Omaha, Neb.
Precaster Enterprise Precast Concrete Inc., Omaha, Neb.
Precast Specialty Engineer Enterprise Precast Concrete Inc., Omaha, Neb.
Project Cost \$325 million



Photo courtesy of Scholz Images Inc.

Best School (K–12), Honorable Mention
**John Clancy Elementary
School for the Arts**
Kenner, La.

Owner Jefferson Parish Public School System, Harvey, La.

Architect Burgdahl & Graves A.I.A. Architects, Gretna, La.

Engineer of Record Ellis Engineering LLC, New Orleans, La.

Contractor Ragusa Construction LLC, Independence, La.

Precaster Fibrebond Corp., Minden, La.

Precast Specialty Engineer Morphy & Makofsky Inc., New Orleans, La.

Project Cost \$3.5 million



Photo: Will Crocker/Courtesy of Fibrebond Corp.

Best School (K–12), Honorable Mention
Blue Valley Academy
Overland Park, Kans.

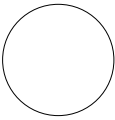


Photo courtesy of Dirk McClure of IPC Inc.

Owner Blue Valley School District Number 229, Overland Park, Kans.

Architect Gould Evans Associates, Kansas City, Mo.

Architect HTK Architects, Overland Park, Kan.

Engineer of Record Structural Engineering Associates Inc., Kansas City

Contractor Orr Construction, Raytown, Mo.

Precaster IPC Inc., Des Moines, Iowa

Precast Specialty Engineer IPC Inc., Des Moines, Mo.

Project Cost \$5.9 million

Indiana University Memorial Stadium North End Zone Addition Bloomington, Ind.

- Owner** Indiana University, Bloomington, Ind.
- Architect** Ratio Architects Inc., Indianapolis, Ind.
- Engineer of Record** Fink, Roberts & Petrie Inc., Indianapolis, Ind.
- Contractor** Pepper Construction Co. of Indiana LLC, Indianapolis, Ind.
- Precaster** Gate Precast Co., Winchester, Ky.
- Precast Specialty Engineer** CSD, Milwaukee, Wis.
- Project Cost** \$21.5 million



Photo courtesy of MV2 Photography

Best Custom Solution, Honorable Mention Train Terminal Forum Buenavista Mexico City, Mexico, D.F.

- Owner** GICSA, Mexico City, Mexico
- Architect** RTKL Arrchitects, Chicago, Ill.
- Engineer of Record** INPRESA, Mexico City, Mexico
- Contractor** GICSA , Mexico City, Mexico
- Precaster** INPRESA, Mexico City, Mexico
- Precast Specialty Engineer** INPRESA, Mexico City, Mexico
- Project Cost** \$13.8 million

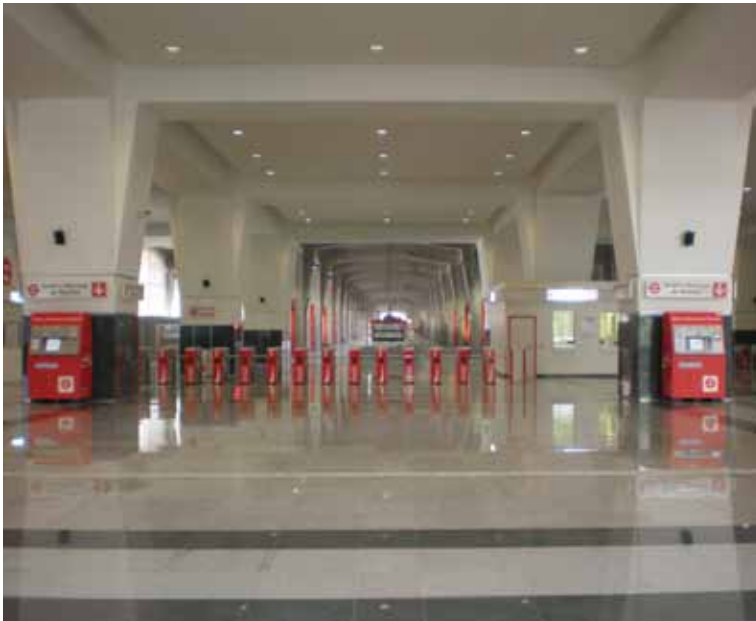
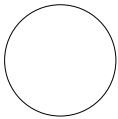


Photo courtesy of INPRESA



Best Custom Solutions, Honorable Mention Lewis and Clark Memorial Tower Hartford, Ill.

Owner Village of Hartford, Ill.

Architect KAI Design & Build, Saint Louis, Mo.

Engineer of Record SSE Inc., Saint Louis, Mo.

Contractor Green Building Systems, Alton, Ill.

Precaster High Concrete Group LLC, Springboro, OH

Precast Specialty Engineer THP Limited Inc., Cincinnati, Ohio

Project Cost \$4.8 million



Photo courtesy of THP Ltd., KAI Design & Build, High Concrete Group

5

HAMILTON FORM CREATES FUNCTION

CASE STUDY

SELF-STRESSING ARCHITECTURAL CASTING TABLE



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*Greg Elliott, Vice President of Manufacturing
Shockey Precast Group*

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Sliding jacking plates

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PCI-Certified Plants

(as of August 2010)

When it comes to quality, why take chances? When you need precast or precast, prestressed concrete products, choose a PCI-Certified plant. You'll get confirmed capability—a proven plant with a quality-assurance program you can count on.

Whatever your needs, working with a PCI plant that is certified in the product groups it produces will benefit you and your project.

- You'll find easier identification of plants prepared to fulfill special needs.
- You'll deal with established producers—many certified for more than 30 years.
- Using quality products, construction crews can get the job done right the first time, keeping labor costs down.
- Quality products help construction proceed smoothly, expediting project completion.

Guide Specification

To be sure that you are getting the full benefit of the PCI Plant Certification Program, use the following guide specification for your next project:

“Manufacturer Qualification: The precast concrete manufacturing plant shall be certified by the Precast/Prestressed Concrete Institute Plant Certification Program. Manufacturer shall be certified at time of bidding. Certification shall be in the following product group(s) and category(ies): [Select appropriate groups and categories (AT or A1), (B1,2,3, or 4), (C1,2,3, or 4), (G)].”

Product Groups and Categories

The PCI Plant Certification Program is focused around four groups of products, designated A, B, C, and G. Products in Group A are audited to the standards in MNL-117. Products in Groups B and C are audited to the standards in MNL-116. Products in Group G are audited according to the standards in MNL-130. The standards referenced above are found in the following manuals:

- MNL-116 *Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products*
- MNL-117 *Manual for Quality Control for Plants and Production of Architectural Precast Concrete*
- MNL-130 *Manual for Quality Control for Plants and Production of Glass-Fiber-Reinforced Concrete Products*

Within Groups A, B, and C are categories that identify product types and the product capability of the individual plant. The categories reflect similarities in the ways in which the products are produced. In addition, categories in Groups A, B, and C are listed in ascending order. In other words, a plant certified to produce products in Category C4 is automatically certified for products in the preceding Categories C1, C2, and C3. A plant certified to produce products in Category B2 is automatically qualified for Category B1 but not Categories B3 or B4.

Please note for Group B, Category B1: Some precast concrete products such as highway median barriers, box culverts, and three-sided arches are not automatically included in routine plant audits. They may be included at the request of the precaster or if required by the project specifications.

GROUPS

GROUP A – Architectural Products

Category AT – Architectural Trim Units

Wet-cast, nonprestressed products with a high standard of finish quality and of relatively small size that can be installed with equipment of limited capacity such as sills, lintels, coping, cornices, quoins, medallions, bollards, benches, planters, and pavers.

Category A1 – Architectural Cladding and Load-Bearing Units

Precast or precast, prestressed concrete building elements such as exterior cladding, load-bearing and non-load-bearing wall panels, spandrels, beams, mullions, columns, column covers, and miscellaneous shapes. This category includes Category AT.

GROUP B – Bridges

Category B1 – Precast Concrete Bridge Products

Mild-steel-reinforced precast concrete elements that include some types of bridge beams or slabs, sheet piling, pile caps, retaining-wall elements, parapet walls, sound barriers, and box culverts.

Category B2 – Prestressed Miscellaneous Bridge Products

Any precast, prestressed element excluding superstructure beams. Includes piling, sheet piling, retaining-wall elements, stay-in-place bridge deck panels, and products in Category B1.

Category B3 – Prestressed Straight-Strand Bridge Members

Includes all superstructure elements such as box beams, I-beams, bulb-tees, stemmed members, solid slabs, full-depth bridge deck slabs, and products in Categories B1 and B2.

Category B4 – Prestressed Deflected-Strand Bridge Members

Includes all products covered in Categories B1, B2, and B3.

GROUP BA – Bridge Products with an Architectural Finish

These products are the same as those in the categories within Group B, but they are produced with an architectural finish. They will have a form, machine, or special finish. Certification for Group BA production supersedes Group B in the same category. For instance, a plant certified to produce products in Category B2A is also certified to produce products in Categories B1, B1A, and B2 (while it is not certified to produce any products in B3A or B4A).

GROUP C – Commercial (Structural)

Category C1 – Precast Concrete Products

Mild-steel-reinforced precast concrete elements including sheet piling, pile caps, piling, retaining-wall elements, floor and roof slabs, joists, stairs, seating members, columns, beams, walls, spandrels, etc.

Category C2 – Prestressed Hollow-Core and Repetitive Products

Standard shapes made in a repetitive process prestressed with straight strands. Included are hollow-core slabs, railroad ties, flat slabs, poles, wall panels, and products in Category C1.

Category C3 – Prestressed Straight-Strand Structural Members

Includes stemmed members, beams, columns, joists, seating members, and products in Categories C1 and C2.

Category C4 – Prestressed Deflected-Strand Structural Members

Includes stemmed members, beams, joists, and products in Categories C1, C2, and C3.

GROUP CA – Commercial Products with an Architectural Finish

These products are the same as those in the categories within Group C, but they are produced with an architectural finish. They will have a form, machine, or special finish. Certification for Group CA production supersedes Group C in the same category. For instance, a plant certified to produce products in Category C2A is also certified to produce products in C1, C1A, and C2 (while it is not certified to produce any products in Groups C3 or C4A).

Group G – Glass-Fiber-Reinforced Concrete (GFRC)

These products are reinforced with glass fibers that are randomly dispersed throughout the product and are made by spraying a cement/sand slurry onto molds. This produces thin-walled, lightweight cladding panels.

ALABAMA

Gate Precast Company, Monroeville (251) 575-2803 _____ A1, C1A
Hanson Pipe and Precast Southeast, Birmingham (205) 663-4681 _____ B4, C4
Standard Concrete Products, Theodore (251) 443-1113 _____ B4, C2

ARIZONA

Coreslab Structures (ARIZ) Inc., Phoenix (602) 237-3875 _____ A1, B3, C4A
CXT Concrete Ties, Tucson (520) 644-5703 _____ C2
TPAC, Phoenix (602) 262-1360 _____ A1, B4, C4A

ARKANSAS

Coreslab Structures (ARK) Inc., Conway (501) 329-3763 _____ C4, A

CALIFORNIA

Bethlehem Construction, Inc., Shafter (661) 391-9704 _____ C3A
Clark Pacific, Fontana (909) 823-1433 _____ A1, C3A, G
Clark Pacific, West Sacramento (916) 371-0305 _____ A1, C3A
Clark Pacific, Woodland (916) 371-0305 _____ B3, C3
Con-Fab California Corporation, Lathrop (209) 249-4700 _____ B4, C4
Coreslab Structures (L.A.) Inc., Perris (951) 943-9119 _____ A1, B4, C4A
Hanson Structural Precast, Irwindale (626) 962-8751 _____ C4
Hanson Structural Precast, San Diego (619) 423-9030 _____ C4
Mid-State Precast, L.P., Corcoran (559) 992-8180 _____ A1, C3A
Pomeroy Corporation, Perris (951) 657-6093 _____ B4, C2
StructureCast, Bakersfield (661) 833-4490 _____ C1A
Walters & Wolf Precast, Fremont (510) 226-5162 _____ A1, G
Willis Construction Co., Inc., San Juan Bautista (831) 623-2900 _____ A1, C1, G

COLORADO

EnCon Colorado, Denver (303) 287-4312 _____ B4, C2
Flatiron Constructors, Inc., Longmont (303) 485-4050 _____ B1
Plum Creek Structures, Littleton (303) 471-1569 _____ B4, C3
Rocky Mountain Prestress, Inc., Denver (303) 480-1111 _____ B4, C4
Rocky Mountain Prestress, Inc., Denver (303) 480-1111 _____ A1, C3A
Rocla Concrete Tie, Inc., Denver (303) 296-3505 _____ C2
Stresscon Corporation, Colorado Springs (719) 390-5041 _____ A1, B4, C4A
Stresscon Corporation, Dacono (303) 659-6661 _____ C4

CONNECTICUT

Blakeslee Prestress Inc., Branford (203) 481-5306 _____ A1, B4, C4A
Coreslab Structures (CONN) Inc., Thomaston (860) 283-8281 _____ A1, B1, C1
Oldcastle Precast, Inc./dba Rotondo Precast, Avon (860) 673-3291 _____ B2, C1A
United Concrete Products Inc., Yalesville (203) 269-3119 _____ B3, C2

DELAWARE

Concrete Building Systems of Delaware, Inc.,
Delmar (302) 846-3645 _____ B3, C4
Rocla Concrete Tie, Inc., Bear (302) 836-5304 _____ C2

FLORIDA

CDS Manufacturing Inc., Gretna (850) 875-4651 _____ B4
Cement Industries, Inc., Fort Myers (239) 332-1440 _____ B3, C3
Colonial Construction Company, Inc., Placida (941) 698-4180 _____ C2
Coreslab Structures (MIAMI) Inc., Medley (305) 823-8950 _____ A1, C4A
Coreslab Structures (ORLANDO) Inc., Orlando (407) 855-3191 _____ C2
Coreslab Structures (TAMPA) Inc., Tampa (813) 626-1141 _____ B3, C3A
Dura-Stress, Inc., Leesburg (800) 342-9239 _____ A1, B4A, C4A
Finrock Industries, Inc., Orlando (407) 293-4000 _____ A1, C4A
Florida Precast Industries, Inc., Sebring (863) 655-1515 _____ B4, C4
Florida Rock and Sand Prestress Precast Co., Inc.,
Florida City (305) 247-9611 _____ B3, C3
Florida Rock and Sand Prestress Precast Co., Inc.,
Miami (305) 247-9611 _____ B2
Gate Concrete Products Company, Jacksonville (904) 757-0860 _____ B4, C4
Gate Precast Company, Kissimmee (407) 847-5285 _____ A1
Metromont Corporation, Bartow (863) 440-5400 _____ C3
South Eastern Prestressed Concrete, Inc.,
West Palm Beach (561) 793-1177 _____ B3, C3
Stabil Concrete Products, LLC, St. Petersburg (727) 321-6000 _____ A1
Standard Concrete Products, Inc., Tampa (813) 831-9520 _____ B4, C3
Stress-Con Industries, Inc., Fort Myers (239) 390-9200 _____ B2, C2
Structural Prestressed Industries, Medley (305) 556-6699 _____ C4

GEORGIA

Atlanta Structural Concrete Co., Buchanan (770) 646-1888 _____ C4A
ConArt Precast, LLC, Cobb (229) 853-5000 _____ A1, AT, C3
Coreslab Structures (ATLANTA) Inc., Jonesboro (770) 471-1150 _____ C3A
Gulf Coast Pre-Stress, Inc., Jonesboro (228) 234-7866 _____ B4

Metromont Corporation, Hiram (770) 943-8688 _____ A1, C4A
Standard Concrete Products, Inc., Atlanta (404) 792-1600 _____ B4
Standard Concrete Products, Inc., Savannah (912) 233-8263 _____ B4, C4
Tindall Corporation, Conley (800) 849-6383 _____ C4A
Tindall Corporation, Conley (800) 849-6383 _____ C2A

HAWAII

GPRM Prestress, LLC, Kapolei (808) 682-6000 _____ A1, B3, C4
GPRM Prestress, LLC, Puunene (808) 682-6000 _____ C4

IDAHO

Hanson Structural Precast Eagle, Caldwell (208) 454-8116 _____ A1, B4, C4
Teton Prestress Concrete, LLC., Idaho Falls (208) 523-6410 _____ B4, C3

ILLINOIS

ATMI Precast, Aurora (630) 896-4679 _____ A1, C3A
Avan Precast Concrete Products, Lynwood (708) 757-6200 _____ A1, C3
County Materials Corporation, Champaign (217) 352-4181 _____ B3, B3-IL
County Materials Corporation, Salem (618) 548-1190 _____ A1, B4, B4-IL, C4
Dukane Precast, Inc., Aurora (630) 355-8118 _____ A1, C3
Illini Concrete Company of Illinois, LLC, Tremont (309) 925-5290 _____ B3, B3-IL
Illini Precast, LLC, Marseilles (708) 562-7700 _____ B4, B4-IL, C3
Lombard Architectural Precast Products Co., Alsip (708) 389-1060 _____ A1
Mid-States Concrete Industries, South Beloit (608) 364-1072 _____ B3, B3-IL, C3
Prestress Engineering Corporation, Blackstone (815) 586-4239 _____ B4, B4-IL, C4
Spancrete of Illinois, Inc., Crystal Lake (815) 459-5580 _____ C2
St. Louis Prestress, Inc., Glen Carbon (618) 656-8934 _____ B3, B3-IL, C3

INDIANA

ATMI Indy, LLC, Greenfield (317) 891-6280 _____ A1, C2A
Coreslab Structures (INDIANAPOLIS) Inc.,
Indianapolis (317) 353-2118 _____ A1, C4A
Hoosier Precast LLC, Salem (812) 883-4665 _____ B3, C1A
Precast Specialties, Inc., Monroeville (260) 623-6131 _____ A1
StresCore, Inc., South Bend (574) 233-1117 _____ C2

IOWA

Andrews Prestressed Concrete, Inc., Clear Lake (641) 357-5217 _____ B4, C4
IPC, Inc., Des Moines (515) 243-5118 _____ C4
IPC, Inc., Iowa Falls (515) 243-5118 _____ A1, B4, B4-IL, C4A
MPC Enterprises, Inc., Mount Pleasant (319) 986-2226 _____ A1, C3A

KANSAS

Coreslab Structures (KANSAS) Inc., Kansas City (913) 287-5725 _____ B4, C4
IPC, Inc., Pleasanton (913) 352-8800 _____ C3
Prestressed Concrete, Inc., Newton (316) 283-2277 _____ A1, B4, C4
Stress-Cast, Inc., Assaria (785) 667-3905 _____ C3A
Waffle-Crete International, Inc., Hays (785) 625-3486 _____ C3A

KENTUCKY

Bristol Group, Inc., Lexington (859) 233-9050 _____ C1
de AM - RON Building Systems LLC, Owensboro (270) 684-6226 _____ C3
Gate Precast Company, Winchester (859) 744-9481 _____ A1
Prestress Services Industries LLC, Lexington (859) 299-0461 _____ A1, B4, C4A
Prestress Services Industries LLC, Lexington (260) 724-7117 _____ B4, C4A
Prestress Services Industries LLC, Melbourne (859) 441-0068 _____ B4, C3

LOUISIANA

Boykin Brothers, Inc./Louisiana Concrete Products,
Baton Rouge (225) 753-8722 _____ A1, B4, C3A
F-S Prestress, LLC, Princeton (318) 949-2444 _____ B4, C3
Fibrebond Corporation, Minden (318) 377-1030 _____ A1, C1A

MAINE

Oldcastle Precast, Auburn (207) 784-9144 _____ B2, C1

MARYLAND

Atlantic Metrocast, Inc., LaPlata (301) 870-3289 _____ B3, C1
Larry E. Knight, Inc., Glyndon (410) 833-7800 _____ C2
Oldcastle Precast Building Systems Div., Edgewood (410) 612-1213 _____ A1, C3A

MASSACHUSETTS

Oldcastle Precast, Inc./dba Rotondo Precast, Rehoboth (508) 336-7600 _____ B4, C4
Unistress Corporation, Pittsfield (413) 499-1441 _____ A1, B4, C4A
Vynorius Prestress, Inc., Salisbury (978) 462-7765 _____ B2, C2

MICHIGAN

Grand River Infrastructure, Inc., Grand Rapids (616) 534-9645 _____ **B4, C1**
International Precast Solution, LLC, River Rouge (313) 843-0073 **A1, B3, C3**
Kerkstra Precast Inc., Grandville (800) 434-5830 _____ **A1, B1, C3A**
National Precast, Inc., Roseville (586) 294-6430 _____ **A1, C3A**
National Precast Structural, Inc., Shelby (586) 247-1201 _____ **B1A, C3A**
Nucon Schokbeton / Stress-Con Industries, Inc.,
Kalamazoo (269) 381-1550 _____ **A1, B4, C3A**
Stress-Con Industries, Inc., Detroit (313) 873-4711 _____ **B3, C3**
Stress-Con Industries, Inc., Saginaw (989) 239-2447 _____ **B4, C3**

MINNESOTA

Crete Concrete Products North, Inc., Elk River (763) 545-7473 _____ **B4, C2**
Fabcon, Savage (800) 727-4444 _____ **C3A**
Hanson Structural Precast Midwest, Inc.,
Maple Grove (763) 425-5555 _____ **A1, C4A**
Molin Concrete Products Co., Lino Lakes (651) 786-7722 _____ **C3A**
Wells Concrete Products, Albany (320) 845-2299 _____ **A1, C3A**
Wells Concrete Products Co., Wells (507) 553-3138 _____ **A1, C4A**

MISSISSIPPI

F-S Prestress, LLC, Hattiesburg (601) 268-2006 _____ **B4, C4**
Gulf Coast Pre-Stress, Inc., Pass Christian (228) 452-9486 _____ **B4, C4**
J.J. Ferguson Prestress-Precast Company, Inc.,
Greenwood (662) 453-5451 _____ **B4**
Jackson Precast, Inc., Jackson (601) 321-8787 _____ **A1, C2A**
Rotondo Weirich Enterprises, Inc., Yazoo City (215) 256-7940 _____ **C1**
Tindall Corporation, Moss Point (228) 435-0160 _____ **A1, C4A**

MISSOURI

Coreslab Structures (MISSOURI) Inc., Marshall (660) 886-3306 **A1, B4, C4A**
County Materials Corporation, Bonne Terre (573) 358-2773 _____ **B4**
Mid America Precast, Inc., Fulton (573) 642-6400 _____ **A1, B1, C1**
Prestressed Casting Company, Ozark (417) 581-7009 _____ **C4**
Prestressed Casting Company, Springfield (417) 869-1263 _____ **A1, C3A**

MONTANA

Missoula Concrete Construction, Missoula (406) 549-9682 _____ **A1, B3, C3**
Montana Prestressed Concrete, Billings (605) 718-4111 _____ **B4, C3**

NEBRASKA

Concrete Industries, Inc., Lincoln (402) 434-1800 _____ **B4, C4A**
Coreslab Structures (OMAHA) Inc., LaPlatte (402) 291-0733 _____ **A1, B4, C4A**
CXT, Inc., Grand Island (308) 382-5400 _____ **C2**
Enterprise Precast Concrete, Inc., Omaha (402) 895-3848 _____ **A1**
Stonco, Inc., Omaha (402) 556-5544 _____ **A1**

NEW HAMPSHIRE

Architectural Cladding Systems, Inc., Hollis (603) 889-6310 _____ **G**
Newstress Inc., Epsom (603) 736-9348 _____ **B3, C3**

NEW JERSEY

High Concrete Group LLC, Buena (856) 697-3600 _____ **C3**
Jersey Precast Corp., Hamilton Township (609) 689-3700 _____ **B4, C4**
Precast Systems, Inc., Allentown (609) 208-1987 _____ **B4, C4**

NEW MEXICO

Castillo Prestress, Belen (505) 864-0238 _____ **B4, C4**
Coreslab Structures (ALBUQUERQUE) Inc.,
Albuquerque (505) 247-3725 _____ **A1, B4, C4A**
Ferri Concrete Structures, Inc., Albuquerque (505) 344-8823 _____ **A1, C4A**

NEW YORK

David Kucera Inc., Gardiner (845) 255-1044 _____ **A1, G**
Lakelands Concrete Products, Inc., Lima (585) 624-1990 _____ **A1, B3A, C3A**
Oldcastle Precast Building Systems Div.,
South Bethlehem (518) 767-2116 _____ **B3, C3A**
The Fort Miller Co., Inc., Greenwich (518) 695-5000 _____ **B1, C1**
The L.C. Whitford Materials Co., Inc., Wellsville (585) 593-2741 _____ **B3, C3**

NORTH CAROLINA

Gate Precast Company, Oxford (919) 603-1633 _____ **A1, C2**
International Precast Inc., Siler City (919) 742-3132 _____ **C1**
Metromont Corporation, Charlotte (704) 372-1080 _____ **A1, C3**
Prestress of the Carolinas, Charlotte (704) 587-4273 _____ **B4, C4**
S & G Prestress Company, Leland (910) 397-6255 _____ **B4**

S & G Prestress Company, Wilmington (910) 763-7702 _____ **B4, C3**
Utility Precast, Inc., Concord (704) 721-0106 _____ **B3A**

NORTH DAKOTA

Wells Concrete, Grand Forks (701) 772-6687 _____ **C4A**

OHIO

DBS Prestress of Ohio, Huber Heights (937) 878-8232 _____ **C2**
Fabcon LLC, Grove City (614) 875-8601 _____ **C3A**
High Concrete Group LLC, Springboro (937) 748-2412 _____ **A1, C3A**
KSA, Sciotoville (740) 776-3238 _____ **C2**
Mack Industries, Inc., Valley City (330) 483-3111 _____ **C2**
Prestress Services Industries LLC, Grove City (614) 871-2900 _____ **B4**
Sidley Precast, Thompson (440) 298-3232 _____ **A1, C4A**
United Precast, Inc., Mt. Vernon (800) 366-8740 _____ **B4, C3**
United Precast, Inc., Mt. Vernon (740) 393-1121 _____ **B3, C1**

OKLAHOMA

Coreslab Structures (OKLA) Inc. (Plant No.1),
Oklahoma City (405) 632-4944 _____ **A1, C4A**
Coreslab Structures (OKLA) Inc. (Plant No.2),
Oklahoma City (405) 672-2325 _____ **B4, C1**
Coreslab Structures (TULSA) Inc., Tulsa (918) 438-0230 _____ **B4, C4**
Tulsa Dynaspan, Inc., Broken Arrow (918) 258-1549 _____ **A1, C3**

OREGON

Knife River Corporation, Harrisburg (541) 995-6327 _____ **A1, B4, C4**
R.B. Johnson Co., McMinnville (503) 472-2430 _____ **B4**

PENNSYLVANIA

Castcon Stone, Inc., Saxonburg (724) 352-2200 _____ **B1, C1A**
Concrete Safety Systems, LLC, Bethel (717) 933-4107 _____ **B1, C1**
Conewago Precast Building Systems, Hanover (717) 632-7722 _____ **A1, C2A**
Dutchland, Inc., Gap (717) 442-8282 _____ **C3**
Fabcon East, LLC, Mahanoy City (570) 773-2480 _____ **C3A**
Hanson Pipe & Precast, Pottstown (610) 970-2216 _____ **B1A, C1A**
High Concrete Group LLC, Denver (717) 336-9300 _____ **A1, C3A**
J & R Slaw, Inc., Lehighton (610) 852-2020 _____ **A1, B4, C3**
Newcrete Products, Roaring Spring (814) 224-2121 _____ **B4, C4**
Nitterhouse Concrete Products, Inc., Chambersburg (717) 267-4505 _____ **A1, C4A**
Northeast Prestressed Products, LLC, Cressona (570) 385-2352 _____ **B4, C3**
Pittsburgh Flexicore Company, Inc., Donore (724) 379-6800 _____ **C2**
Say-Core, Inc., Portage (814) 736-8018 _____ **C2**
Sidley Precast, Youngwood (724) 755-0205 _____ **C3**
Technopref Industries Inc., Royersford Plant,
Royersford (450) 569-8043 _____ **B1, C1**
Top Roc Newcrete Products Company, Erie (814) 838-2011 _____ **B4**
U.S. Concrete Precast Group Mid-Atlantic,
Middleburg (570) 837-1774 _____ **A1, C2A**
Universal Concrete Products Corporation, Stowe (610) 323-0700 _____ **A1, C3A**

SOUTH CAROLINA

Florence Concrete Products, Inc., Sumter (803) 775-4372 _____ **B4, C3A**
Metromont Corporation, Greenville (864) 295-0295 _____ **A1, C4A**
Tekna Corporation, Charleston (843) 853-9118 _____ **B4, C2**
Tindall Corporation, Fairforest (864) 576-3230 _____ **A1, C4A**

SOUTH DAKOTA

Gage Brothers Concrete Products Inc., Sioux Falls (605) 336-1180 _____ **A1, B4, C4A**

TENNESSEE

Construction Products, Inc. of Tennessee, Jackson (731) 668-7305 _____ **B4, C4**
Gate Precast Company, Ashland City (615) 792-4871 _____ **A1**
Metromont Corporation, LaVergne (615) 793-3393 _____ **A1, C4A**
Mid South Prestress, LLC, Pleasant View (615) 746-6606 _____ **C3**
Prestress Services Industries of TN, LLC, Memphis (901) 775-9880 _____ **B4, C3**
Ross Prestressed Concrete, Inc., Bristol (423) 323-1777 _____ **B4, C3**
Ross Prestressed Concrete, Inc., Knoxville (865) 524-1485 _____ **B4, C4**
Sequatchie Concrete Service, Inc., Knoxville (423) 867-4510 _____ **C2**
Southeast Precast Corporation, Knoxville (865) 524-3615 _____ **A1**

TEXAS

Coreslab Structures (TEXAS) Inc., Cedar Park (512) 250-0755 _____ **A1, C4A**
CXT, Inc., Hillsboro (254) 580-9100 _____ **B1, C1**
Enterprise Concrete Products, LLC, Dallas (214) 631-7006 _____ **B3, C3**
Gate Concrete Products Company, Pearland (281) 485-3273 _____ **C2**
Gate Precast Company, Hillsboro (254) 582-7200 _____ **A1**
GFRC Cladding Systems, LLC, Garland (972) 494-9000 _____ **G**

Heldenfels Enterprises, Inc., Corpus Christi (361) 883-9334 _____ **B4, C4**
Heldenfels Enterprises, Inc., San Marcos (512) 396-2376 _____ **B4, C4**
Lowe Precast, Inc., Waco (254) 776-9690 _____ **A1, C3A**
Manco Structures, Ltd., Schertz (210) 690-1705 _____ **B4, C4A**
MobilGreen Precast, LLC, Midland (612) 801-3600 _____ **C4**
North American Precast Company, San Antonio (210) 509-9100 _____ **A1, C4A**
Rocla Concrete Tie, Inc., Amarillo (806) 383-7071 _____ **C2**
Tindall Corporation, San Antonio (210) 248-2345 _____ **C2A**

UTAH

EnCon Utah, LLC, Tooele (435) 843-4230 _____ **A1, B4, C3A**
Hanson Structural Precast Eagle, Salt Lake City (801) 966-1060 _____ **A1, B4, C4A, G**
Harper Precast, Salt Lake City (801) 326-1016 _____ **B1, C1**
Owell Precast LLC, Bluffdale (801) 571-5041 _____ **B1, C3**

VERMONT

Dailey Precast, Shaftsbury (802) 442-4418 _____ **A1, B4A, C3A**
J. P. Carrara & Sons, Inc., Middlebury (802) 388-6363 _____ **A1, B4A, C3A**
S.D. Ireland Companies, South Burlington (802) 658-0201 _____ **A1**

VIRGINIA

Atlantic Metrocast, Inc., Portsmouth (757) 397-2317 _____ **B4, C3**
Bayshore Concrete Products Corporation,
 Cape Charles (757) 331-2300 _____ **B4, C4**
Bayshore Concrete Products/Chesapeake, Inc.,
 Chesapeake (757) 549-1630 _____ **B4, C3**
Coastal Precast Systems, LLC, Chesapeake (757) 545-5215 _____ **A1, B4, C3**
Metromont Corporation, Richmond (804) 222-8111 _____ **A1, C3A**
Mid-Atlantic Precast LLC, King George (540) 775-2275 _____ **C2**
Rockingham Precast, Inc., Harrisonburg (540) 433-8282 _____ **B4, C3**
Smith-Midland Corporation, Midland (540) 439-3266 _____ **A1, B2, C3**
The Shockey Precast Group, Fredericksburg (540) 898-1221 _____ **A1, C3A**
The Shockey Precast Group, Winchester (540) 667-7700 _____ **A1, C4A**
Tindall Corporation, Petersburg (804) 861-8447 _____ **A1, C4A**

WASHINGTON

Bellingham Marine Industries, Inc., Ferndale (360) 676-2800 _____ **B3, C2**
Bethlehem Construction, Inc., Cashmere (509) 782-1001 _____ **B1, C3A**
Central Pre-Mix Prestress Co., Spokane (509) 533-0267 _____ **A1, B4, C4**
Concrete Technology Corporation, Tacoma (253) 383-3545 _____ **B4, C4**
CXT, Inc., Spokane (509) 921-8716 _____ **B1**
CXT, Inc., Spokane (509) 921-7878 _____ **C2**
EnCon Northwest, LLC, Camas (360) 834-3459 _____ **B1**
EnCon Washington, LLC, Puyallup (253) 846-2774 _____ **B1, C2**
Wilbert Precast, Inc., Yakima (509) 248-1984 _____ **B3, C3**

WEST VIRGINIA

Carr Concrete Corporation, Waverly (304) 464-4441 _____ **B4, C3**
Eastern Vault Company, Inc., Princeton (304) 425-8955 _____ **B3, C3**

WISCONSIN

Advance Cast Stone Co., Inc., Random Lake (920) 994-4381 _____ **A1**
County Materials Corporation, Eau Claire (800) 729-7701 _____ **B4**
County Materials Corporation, Roberts (800) 426-1126 _____ **B4, C3**
International Concrete Products, Inc., Germantown (262) 242-7840 _____ **A1, C1**
MidCon Products, Inc., Hortonville (920) 779-4032 _____ **A1, C1**
Spancrete Industries, Inc., Waukesha (414) 290-9000 _____ **A1, B2A, C3A**
Spancrete, Inc., Green Bay (920) 494-0274 _____ **B4, C4**
Spancrete, Inc., Valders (920) 775-4121 _____ **A1, C3A**
Stonecast Products, Inc., Germantown (262) 253-6600 _____ **A1**

CANADA

ALBERTA

Armtec Limited Partnership, Calgary (403) 248-3171 _____ **CodeA1, B4, C4**
P. Kruger Concrete Products, Ltd., Edmonton (780) 438-2072 _____ **A1, C1**

BRITISH COLUMBIA

Armtec Limited Partnership, Richmond (604) 278-9766 _____ **A1, B4, C3**

MANITOBA

Armtec Limited Partnership, Winnipeg (204) 338-9311 _____ **B4, C3A**
Lafarge Canada Inc., Winnipeg (204) 958-6381 _____ **C2**

NEW BRUNSWICK

Strescon Limited, Saint John (506) 633-8877 _____ **A1, B4, C4A**

NOVA SCOTIA

Strescon Limited, Bedford (902) 494-7400 _____ **A1, B4, C4**

ONTARIO

Artex Systems Inc., Concord (905) 669-1425 _____ **A1**
Global Precast INC, Maple (905) 832-4307 _____ **A1**
Prestressed Systems, Inc., Windsor (519) 737-1216 _____ **B4, C4**

QUEBEC

Betons Prefabriques du Lac Inc., Alma (418) 668-6161 _____ **A1, C3, G**
Betons Prefabriques du Lac, Inc., Alma (418) 668-6161 _____ **A1, C1**
Betons Prefabriques Trans. Canada Inc.,
 St. Eugene De Grantham (819) 396-2624 _____ **A1, B4, C3A**
Prefab De Beauce, Sainte-Marie De Beauce (418) 387-7152 _____ **A1, C3**
Saramac Inc., Terrebonne (450) 966-1000 _____ **A1**
Schokbeton Quebec, Inc., St. Eustache (450) 473-6831 _____ **A1, B4A, C3**

MEXICO

PRETECSA, S.A. DE C.V., Atizapan De Zaragoza (000) 000-0000 _____ **A1, G**
Willis De Mexico S.A. de C.V., Tecate _____ **A1, C1, G**

PCI-Qualified & PCI-Certified Erectors

(as of August 2010)

When it comes to quality, why take chances? When you need precast or precast, prestressed concrete products, choose a PCI-Qualified/Certified Erector. You'll get confirmed capability with a quality assurance program you can count on.

Whatever your needs, working with an erector who is PCI qualified/certified in the structure categories listed will benefit you and your project.

- You'll find easier identification of erectors prepared to fulfill special needs.
- You'll deal with established erectors.
- Using a PCI-Qualified/Certified Erector is the first step toward getting the job done right the first time, thus keeping labor costs down.
- PCI-Qualified/Certified erectors help construction proceed smoothly, expediting project completion.

Guide Specification

To be sure that you are getting an erector from the PCI Field

Certification Program, use the following guide specification for your next project:

"Erector Qualification: The precast concrete erector shall be fully qualified or certified by the Precast/Prestressed Concrete Institute (PCI) prior to the beginning of any work at the jobsite. The precast concrete erector shall be qualified or certified in Structure Category(ies): [Select appropriate groups and categories S1 or S2 and/or A1]."

Erector Classifications

The PCI Field Certification Program is focused around three erector classifications. The standards referenced are found in the following manuals:

MNL-127 *Erector's Manual - Standards and Guidelines for the Erection of Precast Concrete Products*

MNL-132 *Erection Safety Manual for Precast and Prestressed Concrete*

GROUPS

Category S1 - Simple Structural Systems

This category includes horizontal decking members (e.g., hollow-core slabs on masonry walls), bridge beams placed on cast-in-place abutments or piers, and single-lift wall panels.

Category S2 - Complex Structural Systems

This category includes everything outlined in Category S1 as well as total-precast, multi-product structures (vertical and horizontal members combined) and single- or multistory load-bearing members (including those with architectural finishes).

Category A - Architectural Systems

This category includes non-load-bearing cladding and GFRC products, which may be attached to a supporting structure.

Certified erectors are listed in blue.

ARIZONA

Coreslab Structures (ARIZ), Inc., Phoenix (602) 237-3875 **S2, A**
TPAC, Phoenix (602) 262-1360 **S2, A**

ARKANSAS

Coreslab Structures (ARK) Inc., Conway (501) 329-3763 **S2**

CALIFORNIA

Coreslab Structures (L.A.), Inc., Perris (951) 943-9119 **S2, A**
Walters & Wolf Precast, Fremont (510) 226-9800 **A**

COLORADO

Colorado Fabricators & Constructors, Inc., Centennial (303) 471-9902 **S2**
Gibbons Erectors, Inc., Parker (303) 841-0457 **S2**
Mehring Welding & Erection, Penrose (719) 372-6607 **S2**
Rocky Mountain Prestress, Denver (303) 480-1111 **S2**
S. F. Erectors Inc., Elizabeth (303) 646-6411 **S2**

CONNECTICUT

Blakeslee Prestress, Inc., Branford (203) 481-5306 **S2**
Jacobs Engineering & Construction, LLC, New Haven (203) 389-4300 **S2, A**

FLORIDA

All Florida Erectors and Welding, Inc., Apopka (407) 880-3717 **S2, A**
Concrete Erectors, Inc., Altamonte Springs (407) 862-7100 **S2**
Finrock Industries, Inc., Orlando (407) 293-4000 **S2**
Florida Precast Industries, Sebring (863) 655-1515 **S2, A**
Gate Precast Erection Co., Jacksonville (904) 757-0860 **S2, A**
James Toffoli Construction Company, Inc., Fort Myers (239) 479-5100 **S2**
Pre-Con Construction of Tampa Inc., Tampa (813) 626-2545 **S2, A**

Randy J. Mellor Construction, Inc., Nokomis (941) 321-1826 **S1**
Solar Erectors U. S. Inc., Medley (305) 825-2514 **S2, A**
Southeast Tilt-Wall Erectors, Inc., Geneva (407) 349-3545 **S1**
Specialty Concrete Services, Inc., Altoona (352) 669-8888 **S2, A**
Summit Erectors, Inc., Jacksonville (904) 783-6002 **S2, A**

GEORGIA

ConArt, Inc., Cobb (229) 853-5000 **S2, A**
Precision Stone Setting Co., Inc., Hiram (770) 439-1068 **S2, A**
Rutledge & Son's, Woodstock (770) 592-0380 **S2**

ILLINOIS

Creative Erectors, LLC, Rockford (815) 229-8303 **S1**
Mid-States Concrete Industries, South Beloit (800) 236-1072 **S2**
Spancrete of Illinois, Inc., Crystal Lake (815) 459-5580 **S2**

INDIANA

National Steel Erectors, Inc., Indianapolis (317) 481-0388 **A**
Sofco Erectors, Inc., Indianapolis (317) 352-9680 **S2, A**
Stres Core Inc., South Bend (574) 233-1117 **S1**

IOWA

Cedar Valley Steel, Inc., Cedar Rapids (319) 373-0291 **S2**
Topping Out Inc. / dba Northwest Steel Erection, Grimes (515) 202-8307 **S2**

KANSAS

Carl Harris Co., Inc., Wichita (316) 267-8700 **S2**
Topping Out Inc. / dba Davis Erection Kansas City, Kansas City (913) 208-2857 **S2**

MAINE

American Aerial Services, Inc., Falmouth (207) 797-8987 _____ S2
Cianbro Corporation, Pittsfield (207) 679-2435 _____ S2
Reed & Reed, Inc., Woolwich (207) 443-9747 _____ S2, A

MARYLAND

E & B Erectors, Inc., Pasadena (410) 360-7800 _____ S2, A
E.E. Marr Erectors, Inc., Baltimore (410) 837-1641 _____ S2, A
EDI, Inc., Upper Marlboro (301) 568-4585 _____ S1, A
L.R. Willson & Sons, Inc., Gambriels (410) 987-5414 _____ S2, A
Mid Atlantic Precast Erectors, Inc., Baltimore (410) 837-1641 _____ A
Oldcastle Building Systems Div. / Project Services,
 Baltimore (518) 767-2116 _____ S2, A

MASSACHUSETTS

Concrete Structures, Inc., Marshfield (781) 837-1931 _____ S1, A
Prime Steel Erecting, Inc., North Billerica (978) 671-0111 _____ S2

MICHIGAN

Alpha Omega Development, Saginaw (989) 399-9436 _____ S2
American Erectors Inc., Waterford (248) 674-0060 _____ S2, A
Assemblers Precast & Steel Services, Inc., Saline (734) 429-1358 _____ S2, A
Devon Contracting, Inc., Detroit (313) 965-3455 _____ S2
G2 Inc., Cedar Springs (616) 696-9581 _____ S2, A
Kerkstra Precast Inc., Grandville (616) 224-6176 _____ S2
Moyle Construction, Houghton (906) 482-3000 _____ S1
Pioneer Construction Inc., Grand Rapids (616) 247-6966 _____ S2

MINNESOTA

Amerect, Inc., Newport (651) 459-9909 _____ A
Molin Concrete Products Company, Lino Lakes (651) 786-7722 _____ S2
Wells Concrete Products Co., Wells (507) 553-3138 _____ S2, A

MISSISSIPPI

Bracken Construction Company, Inc., Jackson (601) 922-8413 _____ A

MISSOURI

Acme Erectors, Inc., St Louis (314) 647-1923 _____ S2
J. E. Dunn Construction Company, Kansas City (816) 474-8600 _____ S2, A
Prestressed Casting Co., Springfield (417) 869-7350 _____ S2, A

NEBRASKA

Concrete Industries, Inc., Lincoln (402) 434-1800 _____ S2
Topping Out Inc. / dba Davis Erection Lincoln, Lincoln (402) 610-1866 _____ S2
Topping Out Inc. / dba Davis Erection Omaha, Omaha (402) 306-2012 _____ S2

NEW HAMPSHIRE

American Steel & Precast Erectors, Inc., Greenfield (603) 547-6311 _____ S2, A

NEW JERSEY

Car-Win Construction, Eastampton (800) 352-1523 _____ S2, A
J. L. Erectors, Inc., Blackwood (856) 232-9400 _____ S2, A
JEMCO-Erectors, Inc., Shamong (609) 268-0332 _____ S2, A
Jonasz Precast, Inc., Westville (856) 456-7788 _____ S2, A

NEW MEXICO

Ferreri Concrete Structures, Inc., Albuquerque (505) 344-8823 _____ S2

NEW YORK

All Systems Precast, Inc., Farmingdale (631) 694-4720 _____ S2
Arben Group LLC, Pleasantville (914) 741-5459 _____ S1
Oldcastle Building Systems Div. / Project Services,
 South Bethlehem (518) 767-2116 _____ S2, A
Oldcastle Building Systems Div. / Project Services,
 Manchester (518) 767-2116 _____ S2, A

NORTH CAROLINA

Buckner Steel Erection Inc., Graham (336) 376-8888 _____ S2
Carolina Precast Erectors, Inc., Taylorsville (828) 635-1721 _____ S2
Rabon Erectors, Inc., Archdale (336) 434-3308 _____ S2, A
Tri State Erectors, Inc., Henderson (252) 572-4373 _____ S1, A

NORTH DAKOTA

Concrete, Inc., Grand Forks (701) 772-6687 _____ S2
Northwest Contracting Inc., Bismarck (701) 255-7727 _____ S2

OHIO

Ben Hur Construction Company, Fairfield (513) 874-9228 _____ A
Capital City Group, Inc., Columbus (614) 278-2120 _____ S2, A
Precast Services, Inc., Twinsburg (330) 425-2880 _____ S2, A
Sidley Precast Group, Thompson (440) 298-3232 _____ S2
Sofco Erectors, Inc., Cincinnati (513) 771-1600 _____ S2, A

OKLAHOMA

Allied Steel Construction Co., LLC, Oklahoma City (405) 232-7531 _____ S2, A
Coreslab Structures (OKLA), Inc., Oklahoma City (405) 632-4944 _____ S2, A

PENNSYLVANIA

Century Steel Erectors, Kittanning (724) 545-3444 _____ S1, A
Conewago Enterprises, Inc., Hanover (717) 632-7722 _____ S2
High Concrete Group, Denver (717) 336-9300 _____ S2, A
Maccabee Industrial, Inc., Belle Vernon (724) 930-7557 _____ A
Nitterhouse Concrete Products, Inc., Chambersburg (717) 267-4505 _____ S2
Patterson Construction Company, Inc., Monongahela (724) 258-4450 _____ S1
Say-Core, Inc., Portage (814) 736-8018 _____ S1
Structural Services, Inc., Bethlehem (610) 282-5810 _____ S1

SOUTH CAROLINA

Davis Erecting & Finishing, Inc., Greenville (864) 220-0490 _____ S2, A
Florence Concrete Products Inc., Florence (843) 662-2549 _____ S2
Tindall Corporation, Fairforest (864) 576-3230 _____ S2

TENNESSEE

Hoosier Prestress, Inc., Brentwood (615) 661-5198 _____ S2
Sector Steel LLC, Cleveland (423) 472-4552 _____ S1

TEXAS

Gate Concrete Products Company, Pearland (281) 485-3273 _____ S1
Precast Erectors, Inc., Hurst (817) 684-9080 _____ S2, A

UTAH

OutWest C & E Inc., Bluffdale (801) 446-5673 _____ S2, A

VERMONT

CCS Constructors LLC, Morrisville (802) 888-7701 _____ S2

VIRGINIA

The Shockey Precast Group, Winchester (540) 665-3253 _____ S2, A
W. O. Grubb Steel Erection, Inc., Richmond (804) 271-9471 _____ A

WISCONSIN

Modern Crane Service, Inc., Onalaska (608) 781-2252 _____ S1
Spancrete Industries, Inc., Waukesha (414) 290-9000 _____ S2, A
Spancrete, Inc., Valders (920) 775-4121 _____ S2, A
The Boldt Company, Appleton (920) 225-6127 _____ S2, A

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