2011
Cast Stone Institute
Excellence Awards
Winners
Residential Excellence
Cadence Lane Residence
Plano, Texas

Producer Member:
Advanced Cast Stone

Architect: Shaddock & McNaught
Mason: Shaddock & McNaught

Excellence Award Winners
What is the scope of the project?
This is a builders showcase home in a new subdivision of a residential community.
This house was designed in conjunction with the architectural staff of a custom builder. The builder wanted to showcase a house that was upscale, but different than the brick style of home typically seen in the neighborhoods of this community.

A native stone was chosen for the veneer and the Cast Stone for the complimentary surrounds and architectural detail.

What is the role of Cast Stone?
How was Cast Stone critical to the success of this project?

This style of home became the builder’s #1 seller in the development. Consumer focus groups expressed that Cast Stone complemented the native stone and made the home very livable. Consumers thought that native stone reminded them of houses from another century, but with the addition of Cast Stone, the house appeared contemporary. The perceived value by the consumer of the Cast Stone was almost twice what it actually cost the builder.
Judges Comments

“Best execution”

- Good use of Cast Stone – compliments the native stone.
- Good restraint of use of the Cast Stone – correctly used.
- Proportions are appropriate.
- Nice entry door and window pieces.
Residential Excellence
Private Residence
Pennsylvania

Producer Member:
Sun Precast Company, Inc.

Architect: D’Alessio Inspired Architectural Designs
Mason: D’Alessio Inspired Architectural Designs

Excellence Award Winners
What is the scope of the project?

This expansive private residence incorporates a substantial amount of custom Cast Stone, including ornate door and window surrounds, keystones, balustrade, Tuscan and Fluted columns, Corinthian capitals, panels, pilasters, piers, pier caps, chimney caps, accent pavers and coping.
What is the role of Cast Stone?
The role of Cast Stone is to complement and accentuate the fine architectural details of the design, and to highlight the elegance of the natural stone façade. The Cast Stone creates a magnificent transition to the outside living spaces with a grand balcony, radius staircases, and ornate Cast Stone surrounds for the extraordinary 20-foot windows.
The Cast Stone throughout the project integrated seamlessly into the fine architectural details of the design. As a complete design-build project, Cast Stone allowed for the flexibility throughout the design and fabrication process, which was critical to the creation of this luxurious residence.

How was Cast Stone critical to the success of this project?

Excellence Award Winners
Commercial Excellence

University of St. Thomas, Anderson Athletic & Recreation Center
St. Paul, Minnesota

Producer Member:
American Artstone Company

Architect: Opus Architects & Engineers
Mason: Opus Design Build, LLC

Excellence Award Winners
University of St. Thomas

Commercial Excellence

What is the scope of the project?
The 180,000 squarefoot, 3-level Anderson Athletic & Recreation Center (AARC) is built adjacent to the football stadium and outdoor track. This facility houses an aquatic center, an arena for basketball and volleyball, a field house, fitness facilities, locker rooms and offices. The exterior of the building features the buff colored limestone veneer with highly refined Cast Stone trim elements.

Components included; 2 large Cast Stone entrance assemblies with arches, sign panels and jambs at the main building entrances, window surrounds including a large 2-level bay window surround over an entrance (west elevation),
4’ square relief medallions representing the university’s 13-varsity sports, base veneer panels, caps, copings, bands, gargoyle replicas and related landscaping panels & caps. The total project required more than 1,500 pieces and more than 12,000 cubic feet of Cast Stone.

Excellence Award Winners
The highly refined Cast Stone components provide decorative accents to the natural stone veneer while giving the building character and establishing the postmodern architectural style apparent throughout the campus.

What is the role of Cast Stone?

The highly refined Cast Stone components provide decorative accents to the natural stone veneer while giving the building character and establishing the postmodern architectural style apparent throughout the campus.
How was Cast Stone critical to the success of the project?

A portion of the wall is curved and required curved base panels, bands, copings, and window surrounds. If natural stone had been used instead of Cast Stone, the amount of waste would have been incredible and the pieces couldn’t have been as large. The main entrances included large arches and sign panels supported by massive jamb pieces.

By designing several of these uniquely complicated profiles as large pieces, we were able to help the contractor reduce field installation hours. Many of the Cast Stone components were also designed to support the natural stone loads, omitting the need for steel lintels and bearing angles.
Judges Comments

“Well done, appropriate amount of Cast Stone.”

- Building would be lacking without Cast Stone.
- Large building but restraint of Cast Stone use, doesn’t dominate, really supports it.
- Complex execution, modern interpretation.
- A lot of difficult and intriguing pieces that work together.
- Real window bay Cast Stone.
- Like the reliefs of different sports being recognized.

Excellence Award Winners
Commercial Excellence

SMU Perkins School of Theology
Dallas, Texas

Producer Member:
Advanced Cast Stone, Inc.

Architect: Bryce Weigand/Good Fulton & Farrell Architect
Mason: Justin Daniels/Dee Brown

Excellence Award Winners
This is a new building which was a mirror image of an existing brick and Cast Stone building dating to the early 1940’s. The project is located on the campus of a recognized university with many adjoining buildings that are all architecturally compatible and provided for the expansion of the College of Religion for the university. The project included a connecting entry for both the new structure and the existing.

What is the scope of the project?
What is the role of Cast Stone?

The Cast Stone elements define this project. The building is of Georgian Style with significant detail of Cast Stone at entries, porches and cornices. Above the main entrances, there were intricate cartouches in floral design and detailed Cast Stone balconies and dental adornment at the eaves, neither of which were drawn to scale on the plans or were provided in 3-dimenisional detail. Several talented artisan mold makers were sent the project to draw the ornamentation and then made molds from the renderings.
How was Cast Stone critical to the success of the project?

This project required artisan participation with expert manufacturing skills to replicate the existing building. The Cast Stone detailing on the existing structure was the focal point of the architectural significance. The expert detailing and manufacturing of the new Cast Stone achieved a successful and appealing new structure with almost seamless joining of both buildings.
Judges Comments

- The restraint of use of Cast Stone is what you would like to encourage.
- Building consistently designed all the way around.
- Whole building elevated by the use of Cast Stone.
- Supports the architecture, true to the style.
- Good façade – designed consistently with a coherent design and details were well done.
- Strong detail on the balcony.

Excellence Award Winners
Restoration Excellence

714 Main Street
Fort Worth, Texas

Producer Member:
Advanced Cast Stone, Inc.

Architect: Schwarz-Hanson Architects
Mason: DR Cummings/ Bear Masonry

Excellence Award Winners
What is the scope of the project?

This project was a restoration of an historic office tower. The renovation replaced various building materials covering the structure (both terracotta and GFRC) with Cast Stone. The building was originally ornamented with heads of Roman Soldiers at the second floor level. The soldiers were depicted as palace guards. In previous renovations of the structure, the Heads of the Roman Soldiers were removed. This entry relates to the design and craftsmanship exhibited in the creation of new Roman Soldier Heads adorning the building.
The Roman Soldier Heads were made in Cast Stone and are in the same material that covers the façade of the first two floors of the office tower. The original artwork of the Roman Soldier Heads was not available; therefore new artwork and molds were required. Cast Stone was the only facing material used on this section of the building, making Cast Stone the sole material for this part of the project. The Cast Stone was also used to match the original building made from other materials.

What is the role of Cast Stone?

Excellence Award Winners
How was Cast Stone critical to the success of the project?

The detail and the exacting design of the Roman Soldier heads in accordance with original pictures was the primary goal of this project. Cast Stone and casting techniques were critical in providing the detail necessary to restore this building to its original conception. The owner hired art historians to review the mock-up pieces for each area to make sure the goal of authenticating the original building was met.

Excellence Award Winners
Judges Comments

- Detailing on the first floor – corner details.
- Going from a photo to create the soldier heads.
- Looks historic and not new looking.
- Consistency of project.
- Improves the building.
- Amazing recreation.
Restoration Excellence

Princeton University Press
Princeton, New Jersey

Producer Member:
Sun Precast Co., Inc.

Architect: Harald Greve, Applied Engineering & Technology
Mason: Masonry Preservation Group

Excellence Award Winners
What is the scope of the project?

This restoration project is a collegiate gothic courtyard entrance, which was erected in 1911. The scope includes the complete replacement of the existing ornate Cast Stone structure including the jambs, radius arch with rosettes, decorative panels, towers, and coping.
What is the role of Cast Stone?
The role of Cast Stone was to replicate the original exposed aggregate Cast Stone elements, while matching the remaining cast stone that was not being replaced.
How was Cast Stone critical to the success of the project?

The replacement Cast Stone is a perfect replication of the original structure. The intricate architectural details were replicated using sculpting techniques to enhance the original details prior to casting. Using modern reinforcement techniques, the Cast Stone arch was fabricated to be structural and in one piece, which eliminated numerous joints and connections points, and ultimately will make the structure more durable and extend the service life. Cast Stone served to maintain the historical integrity of the project, yet allowed for the flexibility of design to enhance the structure.
Judges Comments

- Good restoration.
- Faithful reproduction.
Hardscape Excellence

Our Lady of Walsingham Hardscape
Houston, Texas

Producer Member:
Siteworks, Inc.

Architect: John Clements / Jackson & Ryan Architects
Mason: Fretz Construction Co., Inc.
This was an important part of a major addition to the church. We supplied the sign monument, fountain ring and benches, and the cast stone at the new shrine.

**What is the scope of the project?**

This was an important part of a major addition to the church. We supplied the sign monument, fountain ring and benches, and the cast stone at the new shrine.
Hardscape Excellence

Shrine: As a half scale replica of the existing ruins at Walsingham, England, it was imperative that the profiles and moldings shrine were as authentic as possible. Cast Stone made this possible with multiple elements that were reproduced. Cast Stone also allowed for the color to be customized to produce the desired effect with the ability to maintain consistency from piece to piece.

Fountain: Cast Stone was also used in the basin of the fountain and in the benches surrounding the fountain. Sweeping, complex curves were easy to accomplish in Cast Stone and produced the desired effect of a low basin in the Cistercian monastic tradition.

What is the role of Cast Stone?

Excellence Award Winners
How was Cast Stone critical to the success of the project?

Neither the authenticity of detailing, shapes and budget, nor the owner's schedule would have been possible without Cast Stone, which made it practicable to reproduce the proper traditional profiles, moldings, thicknesses and to customize the colors so that they portrayed the vision of the design. The effect is the creation of a traditional setting and aesthetic that gives the feel of actually walking through a Gothic cloister and shrine in rural England.

Excellence Award Winners
Judges Comments

- Hardscape supports the building.
- The outside supports the building – inside and outside.
- Amazing!
Hardscape Excellence

Edgewater Obelisk
Webster, Texas

Producer Member:
Siteworks, Inc.

Architect: John Wallace and Blake Coleman / TBG Partners
Mason: Andrew Hoggart / Hoggart LP

Excellence Award Winners
Edgewater Obelisk

What is the scope of the project?

The project was a significant streetscape improvement project within Edgewater, a mixed-used brownfield redevelopment. The project included sitework, landscape and irrigation improvements.

Excellence Award Winners
Edgewater Obelisk

What is the role of Cast Stone?
The obelisk is a focal point and significant landmark at the intersection of two major spine roads within the Edgewater development and marks the arrival to the Edgewater Marina. The use of public art within the project was a goal of the owner and the design team.

Excellence Award Winners
Cast Stone was used to relate to the main entry’s material pallet as well as its Regency style of architecture. Marking the significant intersection while bringing in memorable public art were both achieved by the use of the obelisk.

How was Cast Stone critical to the success of the project?
Judges Comments

“Public Art”

• Joinery tight – fine detail.
• Ball well done.
• Well executed detail work.
• Modern obelisk – reinterpretation of an iconic structure
Architect’s Choice

Our Lady of Walsingham
Houston, Texas

Producer Member:
Siteworks, Inc.

Architect: John Clements / Jackson & Ryan Architects
Mason: Fretz Construction Co., Inc.

Excellence Award Winners
What is the scope of the project?

This major addition to the church included a new classroom building, a multi-purpose building, a shrine, a courtyard fountain, and a covered colonnade surrounding the courtyard.

Cast Stone on the project included eight-sided columns and arched trim at the colonnade, water table banding and parapet coping at the new buildings, free standing crosses, and numerous window and door surrounds including the ornate front entry surround. The sign monument, the fountain ring and benches, and the Cast Stone at the shrine were also produced.
What is the role of Cast Stone?

Building/Cloister: On the building facades and cloister arcade, Cast Stone reproduced the profiles of an English Gothic monastery. In the column capitals, shafts, bases, and arch mouldings, Cast Stone allowed for authenticity in design and effect that would have been cost prohibitive in carved stone. The color was matched to existing Cast Stone on the church building.

Shrine: As a half scale replica of the existing ruins at Walsingham, England, it was imperative that the profiles and moldings at the shrine were as authentic as possible. Cast Stone made this possible with multiple elements that were reproduced. Cast Stone also allowed for the color to be customized to produce the desired effect with the ability to maintain consistency in color from piece to piece.

Fountain: Cast Stone was used in the basin of the fountain and in the benches. Sweeping, complex curves were easy to accomplish in Cast Stone and produced the desired effect of a low basin in the Cistercian monastic tradition.

Excellence Award Winners
How was Cast Stone critical to the success of the project?
Neither the authenticity of detailing, shapes and budget, nor the owner's schedule would have been possible without Cast Stone, which made it practical to reproduce the proper traditional profiles, moldings, thicknesses and to customize the colors so that they portrayed the vision of the design. The effect is the creation of an aesthetic that gives the feel of actually walking through a Gothic cloister and shrine in rural England.

Excellence Award Winners
Judges Comments

“Cast Stone works well with the design, consistent with the style.”

- True to the sense of it – not overused.
- Modern detail, but still consistently true to the intent of the project style.
- Cast Stone integrated as if it was meant to be there, consistent with the style.
- Spectacular colonnades!
- All four judges clearly thought it was the best Cast Stone project by far and comfortably works.

Excellence Award Winners
Manufacturing Excellence

Reagan Place
Dallas, Texas

Producer Member:
Advanced Cast Stone, Inc.
What is the scope of the project?

This project was a new office building for a major real estate development firm. The project is located on a campus setting and is adjacent to other buildings that were restored and expanded.
What special molding or casting techniques were necessary to illustrate the Architect’s concept on the project?

The main entry of this project reflects the design complexity that cast stone can achieve. The entry was on a radius making mold accuracy critical. In addition, a complex series of arches at the ground level were of compound radius design; with the jam pieces of the arches tapering to a smaller arch on the reverse side. (See drawing for more detail). All pieces described were also beveled. The number, accuracy, and complexity of molds reflects the manufacturing intensity of this project.
Any project with a number of compound radius cast stone pieces is difficult. This project was even more difficult due to the complexity of each arch having two different faces— one from the outside and one from the inside.
Manufacturing Excellence Award Winners

Were there unique project requirements that presented particular challenges and how were they met?

This was a project that required coordination between all trades that were involved in the final project. The complex nature of the overall design required a special level of project involvement between CAD design, the mason carefully reviewing slight differences in field conditions from the architectural plans, and communicating those changes to the CAD draftsman. The precision of a very large number of molds also was a challenge of the project.
Judges Comments

- Large columns and capitals, the radius at the front entry, the window head and the cornice work.
- The color consistency was great across the building.

Manufacturing Excellence Award Winners
Manufacturing Excellence

Princeton University Press
Princeton, New Jersey

Producer Member:
Sun Precast Company

Manufacturing Excellence Award Winners
What is the scope of the project?

This project is a restoration of a collegiate gothic courtyard entrance, which was erected in 1911. The scope includes the complete replacement of the existing ornate Cast Stone structure including the jambs, radius arch with rosettes, decorative panels, towers, and coping.
What special molding or casting techniques were necessary to illustrate the Architect’s concept on the project?

The existing structure presented significant load bearing and connection challenges. In order to address the issue, the Cast Stone arch was fabricated as a one-piece design, and was made to be structural in order to support the loads of the opening. The one-piece design also reduced the number of joints, which helps to reduce potential water damage in the future.
The molding process was extremely complex, as the one-piece Cast Stone arch incorporated numerous architectural details including rosettes, surround profiles, decorative panels, and false joints all into the same mold. The mold was fabricated out of a combination of materials including, wood, fiberglass, and rubber, in order to be able to replicate the fine architectural details, as well as to be able to “demold” the element after casting.

Degree of Difficulty

Manufacturing Excellence Award Winners
Were there unique project requirements that presented particular challenges and how were they met?

The structural and connection challenges of the project were addressed by designing the one-piece Cast Stone arch, which was specifically engineered to meet the requirements. In addition to improving the service life of the structure, the one-piece design also significantly reduced the installation cost and timeframe.
Judges Comments

• Overall the most complex piece of all the entries.
• Tremendous amount of mold work, and a difficult pour to eliminate bug holes.
Congratulations
To All of Our Winners!

Excellence Award Winners