2014
Cast Stone Institute Excellence Awards
~ Winners ~
Commercial Excellence

Classroom Building II ROTC
Orlando, Florida

Producer Member: Advanced Architectural Stone
Fort Worth ~ Texas

Architect: Schenkel Shultz, Architecture

Excellence Award Winners
Classroom Building II ROTC

This is a new 80,000 square foot building housing the ROTC offices, classrooms, recruitment, training, and reception for a comprehensive recruitment program on the university campus.

What is the scope of the project?
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Excellence Award Winners
What is the role of Cast Stone?

Cast stone was primarily used to create the building entrance consisting of a large rotunda and covered porch, window ornamentation, veneer at the base of the building, and coping and veneer panels at the walkways connecting the project to other areas of the campus.

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

The critical design element of this property is the rotunda at the building’s entrance. The rotunda is 30 feet in diameter, with one and half foot thick walls, highlighting a 13 sided sculpture. The three story rotunda was constructed exclusively from cast stone with 3 large radius opening each with a complex series of cast stone step-backs. The step-back effect creates a framed view of the hanging sculpture.
Well done Cast Stone – integrated into the building.

Dresses the building entrance.

Not blatantly out of step of time – appropriate.

Simple design yet difficult Cast Stone

Contemporary – simple – elegant

Excellence Award Winners
Commercial Excellence

Elmhurst Hospital

*Elmhurst, Illinois*

Producer Member: Architectural Cast Stone

*West Chicago ~ Illinois*

Architect: Bob Pratt/Pratt Design Studio

Excellence Award Winners
What is the scope of the project?

Over the course of four years and working with two general contractors and three masons for the four different aspects of this project – the main hospital, a large medical office building, a cancer center, and site walls and signage.

With approximately 1,000,000 ft.$^2$ under roof the project required us to deliver over 33,500 individual pieces of cast stone. In addition to providing the cast stone, we also completed the final design and fabricated the masters for the highly detailed capital elements and designed, engineered and fabricated the installation device for the capitals which needed to be installed under a large roof overhang.
The village of Elmhurst is an old and upscale neighborhood in which Prairie Style architecture is quite prevalent. The design architect felt it was appropriate to stay with that theme and chose to utilize brick, cast stone and glass exclusively on all exterior elevations. Cast stone provided the drama and the counter point to the subtle massing of the enormous structure and the large expanses of brick.

What is the role of Cast Stone?

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

The architect created a nature themed element that was used extensively throughout the project, essentially branding the project, and that element appeared in various profiles and in various sizes. Cast stone was the perfect medium in which to produce that design element. In total there were 90 monolithic capitols and 5 capitals which were assembled in place due to construction constraints, and the capitols ranged in size from 5,000 lbs. to 1,500 lbs. per piece. In addition to the capitols there were 100's of individual medallion stones and numerous lintel and windows surround assemblies that utilized his unique design element. With a total project cost approaching $500 million, and the intricacies of the design element created, it would've been cost prohibitive to use Natural stone and accomplish what we were able to do with cast stone.
Judges Comments

• Cast Stone knitted into the design – balanced use of Cast Stone in the large building.
• The Cast Stone uplifted the building.
• The top choice
• The detail pieces are very nice and well done
  • Intricate detailing on capital pieces tying back to Prairie style
• Very well done use of Cast Stone with brick

Excellence Award Winners
Restoration Excellence

Joseph P. Kinnear US Courthouse
*Columbus, Ohio*

Producer Member: Custom Cast Stone
*Westfield ~ Indiana*

Architect: Interactive Design

Excellence Award Winners
What is the scope of the project?
This project includes a complete replacement of the upper cornice (top three floors) of a seven story Federal Courthouse and attached parking garage. The project consists of more than 20,000 cubic feet of material, over 2000 pieces and produced over an 18 month period. The cast stone elements include cornice with dentils, large panels and replacement of hand carved pieces. The objective was to replicate the weathered historic Ohio Berea Sandstone and its 80 year old patina.
What is the role of Cast Stone?

Cast stone was selected as the material of choice because of its versatility and countless options. The goal in this restoration was for the new material to look exactly like the remaining stone on the building in terms of color and texture.
How was Cast Stone critical to the success of the project?

Sandstone was not an option for replacement of the stone on the façade and Cast Stone was chosen as it met the needs of the committee (GSA and Historical Society) to replace the original stone while maintaining the look of the original courthouse. Four different two color blends were chosen from dozens of samples submitted then a blending station was built to insure the blended colors would be consistent throughout the entire project. All of the moulds were hand crafted. In the end, by using cast stone, this restoration project was successful as the cast stone matched the original so perfectly.

Excellence Award Winners
Judges Comments

• Very large building – quite challenging to match the original limestone coloration

• Eagle detail very well done

• The way they simulated the weathering to marry the new with the old – fabulous job!
Hardscape Excellence

Zootennial Plaza
San Antonio, Texas

Producer Member: Advanced Architectural Stone
Fort Worth ~ Texas


Excellence Award Winners
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Excellence Award Winners
Hardscape Excellence

The San Antonio Zoo is recognized as one of the 10 most acclaimed developments of its type in the U.S. However, until this project was complete, there was a very limited meeting, social, and eating area connected to the open-animal cage design of the park. Cast Stone was used with native stone for extensive coping and for signage.

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Excellence Award Winners
Angular landscape flower beds and long serpentine walls were used throughout the project. Cast Stone was the finish or coping material used on all the hardscape areas to both protect the walls and to accentuate the curving features of the walls. The cast stone sign reinforced the permanence of the hardscape design as well as reinforcing the identity and logo of the San Antonio Zoo.

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

• Simple – works with native stone

• Complexity of the curves

• Consistency of color and extensive (huge) project and quality maintained
Hardscape Excellence
Lakeview Terrace Rooftop Garden
Chicago, Illinois

Producer Member: Architectural Cast
West Chicago ~ Illinois

Architect: Lucien Lagrange Architects

Excellence Award Winners
This hardscape project was a common area amenity for a high-rise condominium and was constructed on the rooftop of the condominiums’ subterranean parking garage.
Cast Stone was used for retaining walls, planter walls, the fountain, stair system and radial pavers. The developer of this project donated a garden to the Cabrini Chapel located on an adjacent lot. Planters and cast stone columns for a pergola system that were part of that donation.
How was Cast Stone critical to the success of the project?

It was the landscape architects desire to have all the various diverse elements, such as the stairs, fountain, pavers and planters, to have exactly the same color and texture. Cast stone was the ideal choice to accomplish his design intent. Additionally, the small two story structure, arising out of the roof top garden, is the elevator shaft and stairwells for the parking garage below. Given Cast Stone’s infinite flexibility from a design perspective, it was very easy to pick up design “notes” from both the main building and roof top garden and ensure that this structure looked like it belonged and was not the afterthought it really was.

Excellence Award Winners
Judges Comments

• Lots of Cast Stone and very well done

• The crazy part is that this is a “green” roof!

• Excellent – extensive and consistent

• Cast Stone supports the overall design of the roof
Excellence Merit Award

Sundance Square East
Also known as the Commerce Building
Fort Worth, Texas

Producer Member: Advanced Architectural Stone
Fort Worth, Texas

Architect: Bennett Benner Partners

Excellence Award Winners
What is the scope of the project?

This is one of two new Class A office buildings, with restaurants, retail shops, a multi-purpose stage, and pavilion at this location. This building consists of 83,000 square feet. This building is connected to the existing Land Title building, built in 1889, and was designed to complement the architecture and scale of other buildings within the plaza.
Cast stone is used on this building at the header band, soffit, window systems and sills, and a highly decorative acorn motif incorporated into a 3 story entry way and building banding. Cast stone was the design material unique to this building but also the unifying product used throughout all structures in this 35 block complex.

What is the role of Cast Stone?

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

The architect for the Sundance Square project has developed unique ornamentation for adorning certain elements of the building. Cast Stone was the product used to create the look of a dried acorn, which is considered to be an emblem of luck, prosperity, and power.

Excellence Award Winners
Judges Comments

- Detail pieces well done
- Cast Stone made the building look better
Excellence Merit Award

TCU Mary Couts Burnett Library
West Façade Renovation

*Fort Worth, Texas*

Producer Member: Dallas Cast Stone
Dallas, Texas

Architect: Hahnfeld Hoffer Stanford

Excellence Award Winners
What is the scope of the project?
Positioned along the main thoroughfare through the campus, the existing TCU library’s west façade was renovated to become an architectural feature of the university. The masonry clad façade features ornamental cast stone extensively and features a striking element - six 25foot fluted tapered columns.
The use of cast stone is harmonious with the neoclassical Beaux-Arts architectural style of the campus. A smart touch to the project is the expression “ipsa scientia potestas est” cast into the head pieces adorning the entrance. The expression translates to “knowledge itself is power.”

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

Cast stone was the critical building element for the architect and university to attain the vision of an architectural feature that will stand the test of time.
Judges Comments

- A renovation and (addition)
- Meritorious – execution, consistency of material
- Transformed an average building into a beautiful building
- Creates a new public space and opened up with walkways
- The Cast Stone makes the building better.

Excellence Award Winners
Manufacturing Excellence
Joseph P. Kinnear US Courthouse
Columbus, Ohio

Producer Member: Custom Cast Stone
Westfield ~ Indiana

Excellence Award Winners
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What special molding or casting techniques were necessary to illustrate the Architect’s concept on the project?

This is the most difficult project we have ever worked on, from the massive size of the project to the unique specification for this particular building. The texture for the cast stone was to have an exact match to the existing sandstone as well as the colors of each individual stone. Prior to contract, a committee consisting of members from GSA and the Historical Society was formed. The purpose of the committee was to have complete control of size, color, and texture of each stone removed from the building. From dozens of samples produced, the committee selected four different two color blends for the project.
Degree of Difficulty

Since this project required the exact weathered texture and variegated colors to be recreated, a variety of techniques and materials were used to achieve this. A CNC machine as well as other automated equipment could not replicate the natural texture of the 80 year old sandstone. All of the moulds for this project were hand crafted using a combination of wood, fabric, rubber, and special coatings to create an exact match to the stones texture. A special blending station was built to insure that the blends would be consistent throughout the project. As a part of matching the patina, special ramming techniques were used along with staining to achieve the required bedding lines and striations that had been developed over years of weathering.
The manufacturer of this project was responsible for all engineering and anchoring details connecting cast stone to brick, concrete block, steel and existing sandstone. Countless product testing and pull tests were performed prior to production and continued throughout the entire project. Several courses of this project included pieces that were as large as 80” X 60” X 24” and weighing upwards of 10,000 LBS. This made mix design and water consistency crucial while manufacturing through vibrant dry tamp. Because each piece had its own unique ID and color, palletizing and shipping was critical. All pieces had to be shipped sequentially. To top it all off, all shipments and construction was performed from 6:00 PM to 4:00 AM.

Excellence Award Winners
Manufacturing Excellence

TRT Holdings Headquarters
Dallas, Texas

Producer Member: Advanced Architectural Stone
Fort Worth ~ Texas

Excellence Award Winners
What is the scope of the project?

This is a new 170,000 square foot, six story Jeffersonian-style building housing the corporate offices of a conglomerate business enterprise consisting among other businesses of a national hotel developer and fitness chain. The building is part of a number of buildings on the Old Parkland campus in Dallas, Texas.
Size and scale of the pieces were the overriding issues of the project. All cast stone pieces were scaled to varying sizes of windows, doors, height of entryways and breezeways. The size of molds and the requirement of varying the same profile for each area of the structure was the challenge of the project.
The size and variance in the same profile required special QC supervision. The project was difficult due to number of different sized pieces.
Were there unique project requirements that presented particular challenges and how were they met?

There were 2 requirements - a strict adherence to the construction timeline and pleasing both the owner of building and owner of the Parkland Campus. The first requirement was met with a project manager at the job site when the cast stone was being installed. This allowed for daily feedback and production changes, but it also helped us to meet the timeline. The second challenge involved the owner of the campus understanding that campus integrity was being adhered to. It was then easier to periodically update the building owner with critical material details.