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Great Glazing: The Scarlet Pearl Casino and Resort

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The basics: The Scarlet Pearl Casino Resort, located in D’Iberville, Mississippi, opened to the public December 9, 2015. This 500,000-square-foot, \$280 million dollar development features a 56,585-square-foot column-free gaming floor and a 225-foot hotel tower. Designed to capture the essence of southern hospitality, the hotel has a traditional feel while remaining contemporary. A key element of the Scarlet Pearl design is the feeling of openness, as illustrated by its full-height curtain wall.

The players: Architect, [SOSH Architects](#); general contractor, [Roy Anderson Corp.](#); building envelope consultants, [Edwards and Co.](#); contract glazier, [NR Windows](#); glass manufacturer, [Shanghai Pilkington](#); metal systems supplier, [NR Windows](#)

The glass and systems: The hotel tower consists of a total of 2,400 panels among 100,000 square feet of the curtain wall. In order to meet impact requirements for the region, portions of the curtain wall are small-missile and large-missile impact rated glass to protect against objects or equipment thrown during a hurricane.

The NR-800 custom hurricane impact curtain wall system by NR Windows makes up 100 percent of the vertical exterior envelope of the 18-level hotel tower. The curtain wall units are composed of limited metal panels including missile impact glass, while the podium level is enclosed with a barrier type exterior insulation and finishing system.

With the unitized system, Roy Anderson Corp. was able to enclose the building faster, while creating a watertight enclosure to allow interior construction to proceed. Due to the coast’s hot and humid summer temperatures, SOSH Architects specified glass featuring a low-emissivity coating, a solar heat gain coefficient of .32 and a U- value of 0.273 to cut down on heat gain in the guestrooms due to the full-height curtain wall. Shanghai Pilkington provided the project’s glass.

Strategically designed at an obtuse angle, the hotel tower allows each guestroom to have waterfront views. A custom frit pattern reminiscent of the beaches and waves of the Mississippi Gulf Coast adorns the tower. The frit pattern optimizes the view while allowing for privacy. A full

scale mockup was constructed to verify the desired design of the curve of the frit pattern in relation to the guests within the room and views outside. The opacity of the curtain wall transitions from clear glass at eye level located at the center of the curtain wall panel to the frit pattern as it changes in density when it nears the opaque spandrel glass at the floor and ceiling slab.

SOSH devised an NC-4 panel pattern that flipped and rotated the designed wave to minimize the quantity of custom panels needed to create the overall wave pattern. SOSH consulted with Edwards and Company for the entire building envelope as well as the resort’s glazing elements.



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