



Cast Stone panels were cast to replicate the highly intricate designs contained in the original panels.

Size

8'-3" high x 44'-0" long

Awards

Excellence in Manufacturing from the Cast Stone Institute (CSI)
Design & Craftsmanship Excellence in Unique Architecture (CSI)

Professional Credits

Cast Stone Manufacturer: **Sun Precast Company, Inc.**
www.sunprecast.com
Masonry Contractor: **C & D Waterproofing Corp.**
www.cdwaterproofingcorp.com
Architect: **VITETTA**
www.vitetta.com



Original deteriorated Cast Stone Panels on North Elevation

In 2023, Sun Precast and C&D Waterproofing were contracted to restore the 8'-3" high x 44'-0" long Cast Stone Mural Panels on the north elevation of the PA Farm Show Complex building. The north panels were severely deteriorated, but there were identical panels in good condition on the south elevation of the building.

To document the existing panels on the south elevation a 3-dimensional laser scan was taken of the 44' long panels. This captured, in high detail, the 3-dimensional artwork of the existing cast stone panels. The digital laser scanning file was then input into a Computer Numerical Control (CNC) machine to fabricate the identical "positive" replicas of the panels in high density foam. The decorative panels displayed here are the high-density foam positives used in the molding process. Rubber molds were then taken from the foam replica panels. Creating a mold that was durable enough to withstand the casting process, but yet flexible enough to replicate the very ornate three-dimensional artwork of the existing panels, these 8' tall panels required over 400 gallons of liquid rubber to complete the molds.



Sun Precast creating rubber mold from foam "positives"



Sun Precast pouring new Cast Stone Panels on rubber molds.



New Cast Stone Panels

Once rubber molds were created, new Cast Stone panels were cast to replicate the highly intricate designs contained in the original panels. The molding process also required fabricating custom fit mold sides that correspond to the irregular panel shapes. The end product – a perfectly restored panel wall. The detail is astounding! Check out the distinction of the turkey's feathers, the texture of the sheep's wool, or the detail of faces and buildings.



For More Info:

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