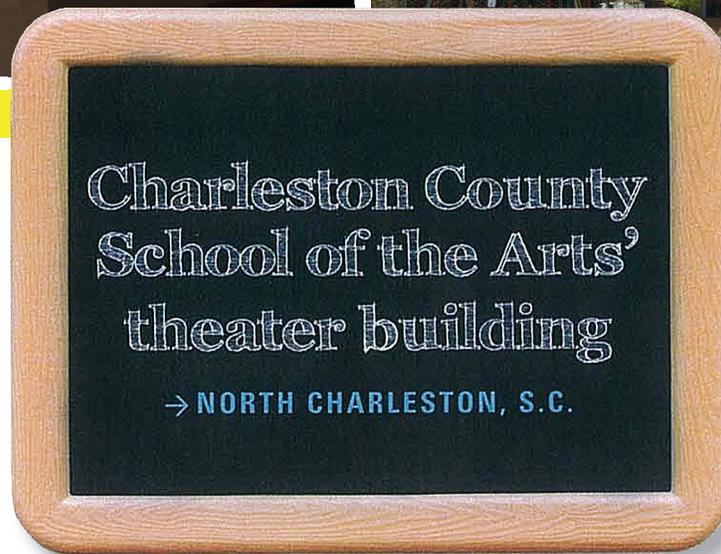
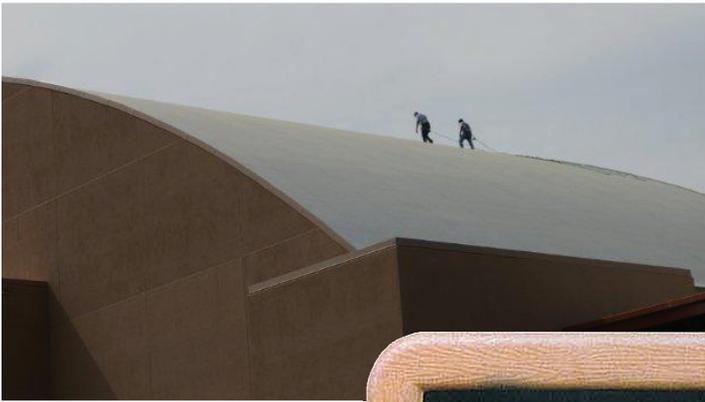


CASE STUDY



TEAM

ARCHITECT:

Thomas & Denzinger Architects
Charleston, SC
www.thomasanddenzinger.com

ROOF CONSULTANT:

ADC Engineering Inc., Hanahan, SC
www.adcengineering.com

ROOFING CONTRACTOR:

* Peach State Roofing Inc., Rock Hill, SC
www.peachstateinc.com

ROOFING DISTRIBUTOR:

** N.B. Handy Co., West Columbia, SC
www.nbhandy.com

GENERAL CONTRACTOR:

M.B. Kahn Construction Co. Inc.
Columbia, SC, www.mbkahn.com

ROOF-BOARD MANUFACTURER:

USG, Chicago, IL, www.usg.com

INSULATION AND MEMBRANE

MANUFACTURER:

Carlisle SynTec
Carlisle, PA, www.carlisle-syntec.com

ROOF MATERIALS

This new-construction project's 10,000-square-foot barrel roof system features ½-inch-thick SECURock gypsum-fiber roof board, 1 ½-inch Carlisle polyiso insulation, 2-inch Carlisle polyiso insulation and a Carlisle Sure-Flex fully adhered PVC membrane in gray.

ROOF REPORT

Known as the crown jewel of the school, the theater building's 80-foot-high barrel roof presented a number of unique challenges, including safety and stocking. M.B. Kahn Construction and Peach State Roofing set up a harness system for each of the roofing workers to ensure they could safely work across the tight radius of the roof. Because of the barrel-

roof design, there was no flat area to stock material on the roof. As a result, workers had to manually move materials from a lower flat roof section to the higher barrel section.

From a design perspective, there were unique challenges present, as well. The primary challenge was to design a roof system that achieved the required 120 psf wind-uplift rating. To meet this requirement, architects specified the Sure-Flex PVC membrane fully adhered to SECURock gypsum-fiber roof board. The SECURock gypsum-fiber roof board was also used to increase the overall durability of the roof system.

From design to installation, all parties worked together with creativity and ingenuity to construct this unique roof system to serve as a focal point on campus for years to come.

* Indicates CRSMCA contractor members

** Indicates CRSMCA associate members