

KEY FACTS

SQUARE FEET:

30,000

COMPLETED:

2010

SERVICES:

MEP/FP and Structural Engineering
LEED Commissioning

ARCHITECT:

Voith & Mactavish Architects

HIGHLIGHTS:

LEED-S Gold Certification

ABC Excellence Award Institutional
Projects \$10-\$20M, Green Building

Architecture Merit Award from the
U.S. Institute of Theatre Technology



WILLIAM PENN CHARTER SCHOOL

The David L. Kurtz Center for Performing Arts is a new state-of-the-art facility for the performing arts at the historic William Penn Charter School. The center features state-of-the-art sound, lighting and technology, including a 650-seat main theater, recording studio, choral room, orchestra room, practice studios and a four-level orchestra pit in the main amphitheater.

Performing Arts Center

A performing arts center is an energy-intensive structure. The facility was constructed with local stone, concrete, and recycled steel. There is a 10,000 SF green roof over the theater space. The design incorporated daylighting and views into all spaces except the theater space. Optimal energy performance was achieved as a result of energy modeling and the specification of highly efficient HVAC systems.

Green Features

Green Roof - The rooftop plants act as a sound barrier and help extend the life of roofing materials by protecting them from the sun. The roof will absorb rain water and decrease runoff.

Wind Energy - An energy source for the Kurtz Center is among the most sustainable on the plant - wind.

Cupolas - The building has a high-efficiency heating and ventilation system. The cupolas, a design element that echoes Penn Charter's iconic tower, provides more than decoration: they save energy by creating a natural ventilation pattern for cool and hot air. They also help with daylighting; in fact, almost all of the frequently occupied spaces have access to significant daylight

Water Conservation - Dual-flush toilets help reduce water use, and the open space on the site helps manage storm water.

FOR MORE INFORMATION,
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