

HENDERSON HALL RENOVATION AND BLACK BOX ADDITION AT VIRGINIA TECH



*Size: 44,000 SF
Budget: \$ 9,300,000
Bid: \$11,559,955
Completion: 2009*

The new Henderson Hall and Black Box Theatre provides additional classroom, lab, and performance space to the Theatre Arts, Music, and Graphic Design departments at the university. Serving as a link between the campus and downtown Blacksburg, the renovations and addition also provide a venue for entertainment to the larger community. Incorporating green building standards and principles, the project achieved LEED Gold certification with the U.S. Green Building Council's LEED Green Building Rating System version 2.2. Strategies included:

- setting aside an area equal to twice the building footprint to be preserved;
- installing a bioretention basin for stormwater collection and treatment;
- landscaping with native and adaptive plant species, which do not require permanent irrigation;
- installing water-efficient plumbing fixtures to achieve a water use reduction of at least 20 percent;
- utilizing upgraded HVAC equipment, carbon dioxide sensors, and new, efficient windows for a reduction in energy use of approximately 35 percent;
- reusing 100 percent of the existing floors, walls, and roof for Henderson Hall renovations;
- recycling 79 percent of demolition and construction waste;
- using recycled, regionally-manufactured, and Forest Stewardship Council materials;
- following a strict Construction Indoor Air Quality Management Plan;
- using low-emitting paints, coatings, adhesives, sealants, and composite wood materials;
- daylighting 75 percent of regularly occupied spaces;
- providing views for occupants in at least 90 percent of regularly occupied spaces; and
- establishing an educational outreach program based on the project's green features.

