

LEARNING BY DESIGN

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Clockwise from top left: University of Houston—Calhoun Lofts, The Poplar Creek Public Library, and Oconomowoc Arts Center



Wooster Elementary School

Wooster, Arkansas

Entire School/Campus Building

NEW CONSTRUCTION

JACKSON BROWN KING ARCHITECTS, INC.

12921 Cantrell Road, Suite 201
Little Rock, AR 72223
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Randall Palculict, AIA, LEED AP
501/664-8700

DESIGN TEAM

Crafton Tull Sparks & Associates,
Landscape Architect
Dayco Construction,
General Contractor
Engineering Consultants,
Structural Engineer
Innovative Solutions Group,
Mechanical and Plumbing Engineer
Lucas, Merriott & Associates,
Electrical Engineer
Mehlburger Firm,
Civil Engineer

OWNER/CLIENT

Greenbrier Public Schools
Greenbrier, AR
Scott Spainhour,
Superintendent
501/679-4808

KEY STATS

Grades Served: K-5
Capacity: 474 students
Size of Site: 17.9 acres
Building Area: 64,259 square feet
Space per Student: 136 square feet
Cost per Student: \$20,458
Square Foot Cost: \$151
Construction Cost: \$9.7 million
Total Project Cost: \$11.2 million
Contract Date: May 2007
Completed: Sept. 2008
Completion: 100%

PHOTOGRAPHY: KEN WEST PHOTOGRAPHY



Wooster Elementary, the first school in Arkansas to achieve a LEED for Schools Silver certification, was designed to educate in sustainability while lowering facility costs for the district. To achieve this, the traditional learning spaces were equipped with unique features such as an outdoor classroom and exposed building systems as well as cutting-edge technology to lower energy costs.

In pursuing LEED, the

design team used many strategies to help reduce the impact on the environment and operational cost. Each room has a carbon dioxide sensor to provide a healthy exchange of fresh air based on occupant need instead of square footage. The lighting system maintains consistent light levels on work surfaces by supplementing the natural daylight in the spaces. During peak sunlight, the amount of energy consumed by the fixtures is greatly reduced.

The use of sustainable materials and native vegetation on site also work to reduce the maintenance needed for the facility.

The students have passed on the green spirit of their school's design to the surrounding population by taking home what they learn about green building. Wooster Elementary is now the recycling center for the community and an education center for students and parents alike. ■