The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.

LEEDing the way into the 21st Century

A Commitment to Sustainability

PROJECT BACKGROUND
In 2006, an increase in enrollment prompted the Crossroads College Prep Board of Trustees to examine options for adding to and renovating their existing space. In planning the renovation project, the Trustees committed to:

- Providing the best possible learning environment
- Integrating the building into the science curriculum
- Demonstrating economic feasibility, energy efficiency, and sustainability in a school renovation
- Using the building as a sustainability resource and community learning tool
- Achieving Platinum LEED certification

STRATEGIES AND RESULTS
Assembling an integrated and experienced project team that believed in the building and had a strong desire to find the full potential of this project was critical to the project’s success. Through the combined design and construction knowledge of the team, and led by the vision of the school board, the team found innovative ways to employ strategies that allowed us to achieve LEED Platinum certification at little additional cost to construction.

Recycling, reuse and regionally-sourced materials were a part of the project team’s core beliefs. In the renovated portion of the project, over 99% of the existing building, including structural walls, floors and, roof, was retained. Over 95% of the construction and demolition waste was carefully diverted from the landfill by way of recycling centers and reuse. Concrete, asphalt, cardboard, drywall, and scrap wood were recycled. In addition, old ceiling tiles and other building finishes were donated to Habitat for Humanity’s ReStore and a local church and school. Study carrels in the renovation were removed and reinstalled following construction, preserving materials as well as a favorite student hangout. Finally, one of the greenest parts of this project was the use of previously donated new carpet for the library. Not only did this save a large amount of material from the landfill, but it was budget friendly (free) and serendipitously Green Label Plus Certified!

The design and construction team focused on providing the students and staff with excellent indoor environmental quality. The ventilation system was designed to incorporate an outdoor air delivery monitoring system. High performance glazing allowed for the provision of views to the outdoors and a comfortable level of natural daylight for the building’s occupants while positively effecting the building’s energy efficiency. All of the contractors working on site followed a stringent no or low-VOC policy as well as a Construction Indoor Air Quality Management program during construction. The project team also scrutinized possible sources of indoor chemicals and pollutants, designing and building the project to minimize these contaminants and testing afterwards for strict indoor air standard compliance. Indoor environmental quality provided for the school’s staff, students, and visitors is the freshest and healthiest possible, benefiting all who enter the doors at Crossroads College Preparatory School.

ABOUT CROSSROADS COLLEGE PREPARATORY SCHOOL
Crossroads College Preparatory School (CCPS) is proud to be the only independent, co-ed, nondenominational college preparatory school in the City of St. Louis serving grades 7 through 12. CCPS is committed to racial, cultural and socioeconomic diversity. Forty-three percent of the students are children of color and forty-five percent receive financial aid. Representing more than 60 zip codes, our students represent geographically diverse sampling of the St. Louis Region.

© 2010 USGBC-Missouri Gateway Chapter, a Missouri 501(c)3 nonprofit corporation.

“Construction projects aren’t usually fun. The LEED integrated team structure made this project a joy and the process was invaluable in keeping us focused on creating the best possible learning environment for our students.”

Susan B. Lanigan, Chair
Crossroads College Prep Board of Trustees

USGBC is the nation’s foremost coalition of leaders from across the building industry. Missouri Gateway Chapter members represent all segments of the building industry and work together to promote buildings that are environmentally responsible, profitable, and healthy places to live and work.

usgbc-mogateway.org
314-577-0854