

GREEN RIDGE RECREATION CENTER ROANOKE COUNTY, VIRGINIA

County Rec Center
Provides Healthy
Lifestyles &
Healthier
Environment

Size: 78,952 S.F.
Budget: \$26,405,812
Bid: \$23,091,900
Completed: 2009



Green Ridge Recreation Center is designed to accommodate the growth and demand of sports, recreation and indoor and outdoor swimming activities for the residents of Roanoke County. In addition to indoor and outdoor pools, the facility features a fitness center, aerobics area, two-court gymnasium, indoor jogging/walking track, and three multi-purpose rooms for community functions.

Awarded LEED Gold in 2010, the Center also provides healthier and more environmentally-sound surroundings for residents. Using LEED v2.2 as a guide, the project team incorporated sustainable elements to increase water and energy efficiency, improve indoor air quality, reduce impact on the surrounding site, and promote the wise use of materials. Sustainable elements of the facility's design and construction include:

- dual-flush toilets, 0.125 gallon-per-flush urinals, and low-flow faucets and showers, which contribute to a 41% reduction in water use;
- increased insulation, efficient glazing, and lighting controls such as daylight and occupancy sensors to reduce energy cost by approximately thirty percent;
- a regenerative media filter system that reduces potable water, chemical, sewer, and electricity use;
- 41% more ventilation air than is required by code;
- low-emitting adhesives, sealants, paints, carpet, and composite wood materials
- indoor air quality testing prior to occupancy;
- vegetated open space on over 51% of the site;
- exterior lighting fixtures that reduce or prevent light pollution;
- 77% of construction waste diverted from landfills;
- Recycled and regionally manufactured materials; and
- Forest Stewardship Council (FSC) certified wood sports flooring and doors.

