



CLEARVIEW ELEMENTARY

ECO - PROJECT C6

Elementary School

Completed:
December 2002

43,640 ft²

Project Address:
801 Randolph Street
Hanover, PA

Owner:
Hanover Public School District
Hanover, PA

Architect:
John Boecker
L. Robert Kimball & Assoc.
Harrisburg, PA

Contractor:
Dick Budzinski
Kamand Construction
Mechanicsburg, PA

ECO-BLOCK, LLC

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- USGBC LEED Gold - all 10 Energy Optimization Points • Speed of Construction • Environmental Specialist



Pennsylvania's first LEED-GOLD school building helps students earn high marks while parents reap the benefits of its low costs. Even with the many innovative features of the **CLEARVIEW ELEMENTARY SCHOOL**, the building was completed within 2.25% of the average Pennsylvania school cost.

ECO-BLOCK was chosen for all exterior walls. The contractor was pleased with the speed and ease of the **ECO-BLOCK** construction and estimated that the labor costs were reduced by more than 50% due to the quick completion time.

The **CLEARVIEW SCHOOL** integrated several energy saving strategies. The **ECO-BLOCK** walls provided a solid thermal envelope. Data taken in winter identified the heat loss inside the classrooms was only 4 ½ degrees F during the 14 hour night set back period, even though outdoor temperatures dropped from 40° to 22° F.

The steady thermal environment provided by the super-insulated walls facilitated the use of under-floor plenums for ventilation, a technique that improves indoor air quality. Other key energy saving factors were geothermal heating as well as the use of site orientation for passive solar and day lighting.

"**ECO-BLOCK** provided us with a high-performance envelope that contributed significantly to downsizing our HVAC system and reducing energy consumption."

- John Boecker, LEED-accredited architect with L. Robert Kimball & Associates, Harrisburg, Pennsylvania

Energy savings was clearly a primary goal. **CLEARVIEW** achieved all 10 of the available "Optimized Energy" points, a challenge met by less than 10% of all LEED certified projects. **ECO-BLOCK** was a powerful component for garnering this result.

ECO-BLOCK contributed to several other credit areas. Manufacturing facilities are strategically located within 500 miles of most projects, reducing time and costs in material transportation. **ECO-BLOCK** also has 40% recycled material, and generates less than 3% construction waste.

ECO-BLOCK LEED Credit Areas:



- SS5 - Reduced Site Disturbance
- EA1 - Optimize Energy Performance
 - All 10 points
- MR2 - Construction Waste Management
- MR4 - Recycled Content - 40%
- MR5 - Local / Regional Materials
- IEQ2 - Increased Ventilation Effectiveness
- IEQ7 - Thermal Comfort