

Architect:

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Owner:

Hanover Public School District

Project Cost:

\$6,310,600

Square Footage:

43,450 sf

Cost per Square Foot:

\$145.23/sf

Completion Date:

December 2002



Project Description:

The Clearview Elementary School in Hanover, Pennsylvania is a 43,000 square foot construction project. The new school replaces an existing facility at the same location and serves kindergarten through fourth grade.

Green Features:

Design/Innovation

- High performance thermal envelope including R-30 ICF walls
- High performance windows eliminate costly perimeter heating systems
- Underfloor supply air distribution coupled with ground source heat pumps

Site

- Passive solar strategies with building orientation along an east-west axis
- Sundial integrated into the structure's curved south-facing sun-screening wall
- High-albedo EnergyStard roofing materials reduce "heat island" effects

Water

- Waterless urinals & low flow fixtures reduce water consumption by 39%

Energy

- Energy recovery ventilation
- Reverse-baffle solar shading devices and overhangs shade south-facing windows
- Lighting power density averages 0.97 watts/SF—33% less than ASHRAE 90.1
- Permanently installed energy monitoring

Materials

- GGBFS blended cement in concrete mixes displaced 40% of Portland cement
- Over 20% of materials by cost consist of recycled content
- Over 65% of building materials by cost manufactured locally
- Over 6% of building materials by cost qualify as rapidly renewable
- Construction Waste Management Plan diverted 90% waste from landfill disposal

Indoor Environmental Quality

- Construction IAQ Management Plan
- Carbon dioxide sensors in all classrooms
- Floor-mounted air-distribution diffusers provide 100% ventilation efficiency
- Selection of low-VOC solvent-free paints, coatings, adhesives, and sealants throughout



- Daylighting design with photocell sensor dimming and occupant sensors
- Daylight Factor exceeds 2.0 in all classrooms

