



Sherwood Middle School

Shrewsbury, Massachusetts



General Information

Location: 30 Sherwood Avenue, Shrewsbury, MA

Scope: 130,000ft²

Cost: ~\$40 Million

Completion: January 2013

Enrollment: 900

Architect: Lamoureux Pagano & Associates, Inc

Engineers: Bolton & DiMartino Inc.;
ART Engineering Corp.; Seaman
Engineering; Akal Engineering; Nitsch
Engineering; The Green Engineer

Awards:

- MCA Chairman’s Primary and Secondary School Award 2013
- SPM Judge’s Choice 2013

Certification: MA-CHPS

The building features a highly efficient insulated metal panel exterior wall system and a low tech solar wall application that provides supplemental heat to the gymnasium, reducing energy costs. Other green features include LED lighting, low maintenance recycled linoleum flooring, and night sky lighting to minimize the necessary amount of light for the exterior of the building and site. The compact floor plan incorporated a ventilation system with ducted fresh air intakes to optimize indoor air quality, and acoustics designed to minimize disruptions.

A group of environmentally conscious students, called the “Green Squad”, studied and presented the sustainable innovations of their new school building to educate students and the community. The Green Squad regularly participates in recycling, composting and gardening, as well as beautification of the town.

Project Overview

The 130,000 square foot Sherwood Middle School was designed to provide a comprehensive educational environment for 900 fifth and sixth grade students, as well as space for student and community events.



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Shrewsbury, MA



Its progressive learning environment was designed with five “neighborhoods” of classrooms organized around a common room to foster a collaborative, flexible learning environment with integrated special education, project based curriculum support, and team teaching organization.

“This will be an outstanding place for kids to learn for decades to come.”
-Superintendent Joe Sawyer



Photo Credit: Gilbane Co.

Sustainable Design Elements

Site

- Building oriented to maximize solar potential

Water

- Storm water Management system

Indoor Air Quality

- Ducted fresh air intakes optimize indoor air quality

Energy

- Utilized insulated composite backup panels for superior building envelope construction
- Use of daylighting to reduce electricity consumption
- Automated energy management systems

This case study was prepared by NEEP with information provided by Lamoureux Pagano & Associates. To learn more about this project, please contact Kathryn Crockett at KCrockett@lamoureuxpagano.com.

For more information about NE-CHPS, contact Carolyn Sarno, NEEP Senior Program Manager, High Performance Buildings, at csarno@neep.org or 781-860-9177 ext. 119.