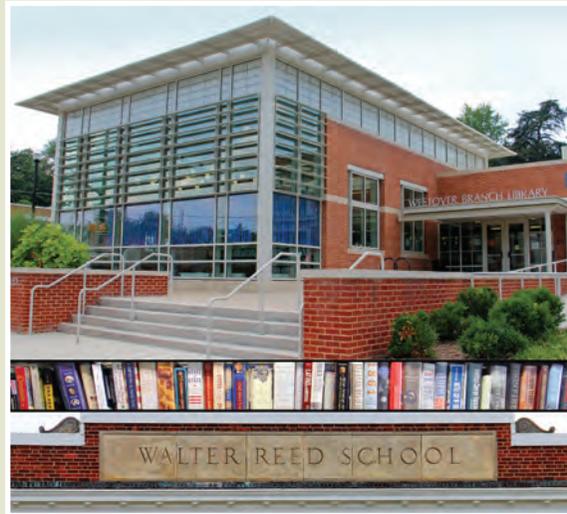




Reed School – Westover Branch Library

GREEN BUILDING TOUR

THE REED SCHOOL AND WESTOVER LIBRARY achieved LEED (Leadership in Energy and Environmental Design) Gold certification from the US Green Building Council in 2010, recognizing the achievements in environmental design and construction of the building. Building designers use the LEED rating system as a guide to build high performance buildings, evaluating energy and water efficiency, site development, indoor air quality, and building materials for high environmental performance. Arlington is committed to building facilities that reduce costs through energy and water efficiency, provide healthy environments for the community, and reduce our impact on the environment. Learn more about Arlington's Green Building Program at freshaireva.us/green-building.



Welcome to the Reed School and Westover Branch Library!

Upon completion in 2009, Reed-Westover earned the prestigious LEED Gold certification from the US Green Building Council. LEED buildings are better places to learn. Studies show that LEED buildings with daylighting and high indoor air quality correlate to better health, reduced absenteeism, higher test scores, and higher employee retention.

This brochure will guide you through an interactive building tour where you will find information about the building's innovative green design and construction. Tour stops are shown on the enclosed map, and signs in the building point out specific green building features. To arrange a guided tour please call 703-228-0628.



1644 North McKinley Road, Arlington, VA 22205



The Reed School and Westover Branch Library
1644 North McKinley Road, Arlington, VA 22205
703-228-5260

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1 ALTERNATIVE TRANSPORTATION

The first step in building green is choosing the right location. Reed-Westover is located near bus lines, has preferred parking for carpool vehicles, and provides bike parking for cyclists.



Arlington Public Schools and Arlington County offer a financial incentive to employees who use Metro, walk, or bike to work. Alternative transportation reduces pollution caused by single occupant vehicles and promotes a healthier lifestyle.

2 ENERGY EFFICIENCY

Burning fossil fuels like coal for electricity generation causes air and water pollution and habitat destruction. Solar shades on the exterior of the building block the direct sun in the summer, reducing the demand for air conditioning, and allow the sun to shine in during the winter, reducing the need for heating.



3 LOW-EMITTING MATERIALS

Inhaling chemicals called Volatile Organic Compounds (VOCs) can cause health problems ranging from headaches to liver damage. Low-VOC paints, sealants, adhesives, and carpet help keep the air in this building clean.



4 RENEWABLE ENERGY

The solar panels on the roof make clean and renewable energy for the building. Solar power supplies approximately 10,000 kWh of electricity every year which reduces as much pollution as taking 1.4 cars off the road.





5 OPEN SPACE In order to encourage people to connect with nature, the project incorporated 277,000 square feet of open space. Open space also provides habitat for birds and pollinators like bees and butterflies, and reduces stormwater flow to help protect local streams.

6 HEAT ISLAND REDUCTION The *Urban Heat Island Effect* occurs when parking lots, roads, building roofs and other dark surfaces absorb heat during the day. Higher temperatures increase the need for air conditioning, resulting in more air pollution. Hotter days can also cause health problems such as asthma attacks in sensitive people. The white roof, green space and light colored paving help to reflect, rather than trap heat, reducing the heat island impacts on the community.



7 CONSTRUCTION WASTE RECYCLING During demolition and construction, 87% of scrap materials were recycled, including metal, carpet, drywall, wood and cardboard. This significantly reduced the amount of waste delivered to the landfill. The building also offers a robust ongoing recycling program for staff and visitors.



8 RECYCLED CONTENT Using construction materials that contain recycled content keeps useful materials out of the landfill and preserves our natural resources. Twenty-three percent of the building materials at Reed-Westover are made from recycled content. The drywall, steel, and ceiling tiles are examples of products made from recycled materials.

9 ENERGY EFFICIENCY Efficient heating, cooling, and ventilation systems were thoughtfully designed to save energy. Occupancy sensors automatically turn lights off in unoccupied rooms for additional energy savings.



10 FRESH AIR MONITORING High carbon dioxide levels in the air (caused by people breathing) make you feel tired and are unhealthy. Carbon dioxide (CO₂) sensors in classrooms and meeting rooms provide fresh air whenever CO₂ levels get too high. These sensors also save energy by powering down heating and air conditioning when the space is empty.



11 WATER EFFICIENCY Waterless urinals, dual-flush toilets, and faucet aerators in the restrooms use 39% less water than standard fixtures and save nearly 200,000 gallons of water each year. That's enough water to do more than 5,000 loads of laundry!

