

WHAT IS LEED CERTIFICATION?

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED) IS A STRUCTURED RATING SYSTEM FOR THE DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE OF GREEN BUILDINGS, HOMES AND NEIGHBORHOODS.

DEVELOPED BY THE **U.S. GREEN BUILDING COUNCIL (USGBC)**, LEED IS INTENDED TO HELP BUILDING OWNERS FIND AND IMPLEMENT WAYS TO BE ENVIRONMENTALLY RESPONSIBLE AND RESOURCE-EFFICIENT.

WHY LEED CERTIFICATION?

- IMPROVE HEALTH AND WELFARE
- INCREASE ENERGY CONSERVATION
- REDUCE POLLUTION
- REDUCE OPERATIONAL COSTS
- USE LOCAL RESOURCES
- REDUCE CONSTRUCTION WASTE TO LANDFILLS
- REUSE MATERIALS
- DAYLIGHTED EDUCATIONAL SPACES
- WATER USE REDUCTION
- LOW VOLATILE ORGANIC COMPOUND (VOC) MATERIALS
- IMPROVE AIR QUALITY
- EXHIBIT LEADERSHIP AND SOCIAL RESPONSIBILITY
- PROVIDE EDUCATIONAL OPPORTUNITIES



5 COMPONENTS OF LEED CERTIFICATION

LEED BENEFITS TO STUDENTS*

*BASED ON NATIONWIDE CASE STUDIES OF HIGH PERFORMANCE SCHOOLS

- INCREASED LEARNING RATES
- INCREASE IN PRODUCTIVITY
- REDUCTION IN ABSENTEEISM

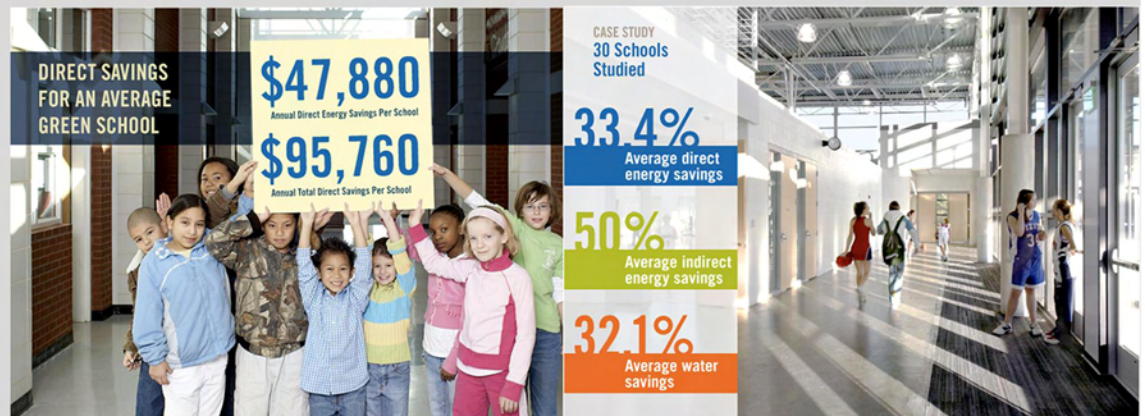


PROPOSED LEED RATING

Gold 73*

Sustainable sites	21/24
Water Efficiency	6/11
Energy & Atmosphere	17/33
Materials & Resources	6/13
Indoor Environmental Quality	13/19
Innovation & Design	6/6
Regional Priority	4/4

* Proposed out of 110 points



LEED RATING: CERTIFIED 40 TO 49 POINTS SILVER 50 TO 59 POINTS GOLD 60 TO 79 POINTS PLATINUM 80 TO 110 POINTS



STATE HIGH INFORMATION FAIR
LEED INFORMATION



CRABTREE ROHRBAUGH AND ASSOCIATES
ARCHITECTS
401 EAST WINDING HILL ROAD
MECHANICSBURG PENNSYLVANIA 17055

LEED 2009 for Schools New Construction and Major Renovations

State College Area High School - Westerly Site Options

Project Checklist

21	1	2	Y	?	N	Possible Points:
Y	Y	Y				24
Prereq 1	Construction Activity Pollution Prevention					
Prereq 2	Environmental Site Assessment					
Credit 1	Site Selection	1				
Credit 2	Development Density and Community Connectivity	4				
Credit 3	Brownfield Redevelopment	1				
Credit 4.1	Alternative Transportation—Public Transportation Access	4				
Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1				
Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	2				
Credit 4.4	Alternative Transportation—Parking Capacity	2				
Credit 5.1	Site Development—Protect or Restore Habitat	1				
Credit 5.2	Site Development—Maximize Open Space	1				
Credit 6.1	Stormwater Design—Quantity Control	1				
Credit 6.2	Stormwater Design—Quality Control	1				
Credit 7.1	Heat Island Effect—Non-roof	1				
Credit 7.2	Heat Island Effect—Roof	1				
Credit 8	Light Pollution Reduction	1				
Credit 9	Site Master Plan	1				
Credit 10	Joint Use of Facilities	1				

6	5	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
6	5	Y			11
Prereq 1	Water Use Reduction—20% Reduction				
Credit 1	Water Efficient Landscaping	2			
Credit 2	Innovative Wastewater Technologies	2			
Credit 3	Water Use Reduction	2			
Credit 3	Process Water Use Reduction	1			

17	7	1	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
17	7	1	Y			33
Prereq 1	Fundamental Commissioning of Building Energy Systems					
Prereq 2	Minimum Energy Performance					
Prereq 3	Fundamental Refrigerant Management					
Credit 1	Optimize Energy Performance	10				
Credit 2	On-Site Renewable Energy	2				
Credit 3	Enhanced Commissioning	2				
Credit 4	Enhanced Refrigerant Management	1				
Credit 5	Measurement and Verification	2				
Credit 6	Green Power	1				

6	1	5	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
6	1	5	Y			13
Prereq 1	Storage and Collection of Recyclables					
Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	2				
Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1				
Credit 2	Construction Waste Management	2				

13	4	2	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
13	4	2	Y			19
Credit 3	Materials Reuse	1				
Credit 4	Recycled Content	2				
Credit 5	Regional Materials	2				
Credit 6	Rapidly Renewable Materials	1				
Credit 7	Certified Wood	1				

13	4	2	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
13	4	2	Y			19
Prereq 1	Minimum Indoor Air Quality Performance					
Prereq 2	Environmental Tobacco Smoke (ETS) Control					
Prereq 3	Minimum Acoustical Performance					
Credit 1	Outdoor Air Delivery Monitoring	1				
Credit 2	Increased Ventilation	1				
Credit 3.1	Construction IAQ Management Plan—During Construction	1				
Credit 3.2	Construction IAQ Management Plan—Before Occupancy	1				
Credit 4	Low-Emitting Materials	3				
Credit 5	Indoor Chemical and Pollutant Source Control	1				
Credit 6.1	Controllability of Systems—Lighting	1				
Credit 6.2	Controllability of Systems—Thermal Comfort	1				
Credit 7.1	Thermal Comfort—Design	1				
Credit 7.2	Thermal Comfort—Verification	1				
Credit 8.1	Daylight and Views—Daylight	2				
Credit 8.2	Daylight and Views—Views	1				
Credit 9	Enhanced Acoustical Performance	1				
Credit 10	Mold Prevention	1				

6	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
6	Y			6
Credit 1.1	Innovation in Design: Integrated Pest Management			1
Credit 1.2	Innovation in Design: Green Cleaning			1
Credit 1.3	Innovation in Design: Exemplary Performance MRC5 Regional Mat.			1
Credit 1.4	Innovation in Design: Exemplary Performance SSC5.2 Open Space			1
Credit 2	LEED Accredited Professional			1
Credit 3	The School as a Teaching Tool			1

4	Y <th>?</th> <th>N</th> <th>Possible Points:</th>	?	N	Possible Points:
4	Y			4
Credit 1.1	Regional Priority: SSC3 Brownfield Redevelopment (Asbestos)			1
Credit 1.2	Regional Priority: SSC4.4 Alternate Transportation			1
Credit 1.3	Regional Priority: SSC5.2 Site Development- Max Open Space			1
Credit 1.4	Regional Priority: SSC6.2 Stormwater Design- Quality Control			1

73	18	10	Total	Possible Points:
73	18	10	110	110

Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110



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