



PBS SIPs & LEED for New Construction & Major Renovation

The Leadership for Energy and Environmental Design (LEED) for New Construction is the flagship of the LEED body of rating systems administered by the U.S. Green Building Council (USGBC). LEED for New Construction provides guidelines for the design and construction of high-performance commercial, institutional and high-rise residential buildings.

How it Works

LEED is a measurement and rating that is performance-oriented where credits are earned for satisfying criterion designed to address specific environmental impacts inherent in the design, construction, operations and maintenance of buildings.

The rating system is organized into five environmental categories: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, and Indoor Environmental Quality. An additional category, Innovation & Design Process, addresses sustainable building expertise.

The LEED for New Construction(NC) ratings are awarded according to the following scale:

Platinum: 80 points and above

Gold: 60-79 points

Silver: 50-59 points

Certified: 40-49 points

***Up to 39 credits could be awarded for the use of PBS SIPs
in commercial new construction or major renovations!***

Note: For detailed information about LEED visit: www.leadbuilding.org. The USGBC's evaluation of LEED for New Construction submittals typically takes place in two phases. A design review that analyzes design related credits is followed by a commissioning of the building once it is substantially completed. For buildings under 50,000 sq. ft., certification costs \$1,750 for USGBC members. Larger buildings are charged on a per square foot basis. More information is available at www.leadbuilding.org.

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Energy & Atmosphere		
Section	Detail	Points
EA Credit 1	Optimize Energy Performance	1-19
Additional Detail:	Premier Building Systems' SIPs help to increase a buildings level of energy performance substantially, and by documenting through the California Title 24 Energy Calculations or ASHRAE/IESNA Standard 90.1-2004 project simulation of at least 10.5% above baseline, a project could be awarded additional credits. Points are available based on the percentage increase in energy cost savings for the entire building.	
EA Credit 2	On-Site Renewable Energy	1-7
Additional Detail:	Utilizing Premier Building Systems' SIPs will greatly reduce the need for energy in order to heat and cool the building, thus allowing a larger percentage of the needed energy potentially coming from renewable sources such as wind, solar or geo-thermal.	
EA Credit 5	Measurement & Verification	3
Additional Detail:	Providing a plan to document the building energy consumption over a one year period (min) will provide an ongoing accountability over time and prove the energy performance of SIPs and help to reduce energy inefficiency in installed systems.	
Total Possible Energy & Atmosphere Points Achievable w/PBS SIPs		25

Materials and Resources		
Section	Detail	Points
MR Credit 2	Construction Waste Management	1
Additional Detail:	Utilizing Premier Building Systems' SIPs could help to reduce 50% (min) of the total construction debris that is otherwise sent to landfills.	
MR Credit 4	Recycled Content	2
Additional Detail:	The expanded polystyrene foam core of Premier Building Systems' SIPs provide a percentage of pre-consumer content toward the projects total recycled content material for a minimum of 10%. (EPS foam core has 15% pre-consumer recycled content.)	
MR Credit 5	Regional Materials	2

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Additional Detail:	Premier Building Systems' SIPs could earn this credit provided they are extracted, processed and manufactured within 500 miles of the project site for a total of 20% (min) of the total building materials, based on cost. (A percentage, by weight, may contribute to the regional value.)	
MR Credit 6	Rapidly Renewable Materials	1
Additional Detail:	Premier Building Systems' SIPs are manufactured with OSB that utilize qualified fast-growing trees for 2.5% (min) of the total value of all building materials.	
MR Credit 7	Certified Wood	1
Additional Detail:	Premier Building Systems' SIPs may be manufactured with FSC certified wood-based material, upon request (pending FSC product availability).	
Total Possible Materials & Resources Points Achievable w/PBS SIPs		7

Indoor Environmental Quality

Section	Detail	Points
EQ Credit 3.2	Construction IAQ Management Plan	1
Additional Detail:	Premier Building Systems' SIPs are pre-manufactured and do not contribute to harmful off-gassing of formaldehyde and aids in achieving this credit when indoor air testing is conducted prior to occupancy.	
EQ Credit 4.1	Low-Emitting Materials	1
Additional Detail:	Premier Building Systems' SIPs utilize an on-site mastic during installation and meet the required VOC limits.	
EQ Credit 4.4	Low-Emitting Materials	1
Additional Detail:	Premier Building Systems' SIPs has no added urea-formaldehyde resins.	
EQ Credit 7.1	Thermal Comfort - Design	1
Additional Detail:	Premier Building Systems' SIPs create a building envelope that contributes to the thermal comfort requirements of ASHRAE Standard 55-2004 when designing a HVAC system.	
EQ Credit 7.2	Thermal Comfort - Verification	1
Additional Detail:	Premier Building Systems' SIPs will assist in providing positive feedback from a required thermal comfort survey of the building occupants 18 months after occupancy.	
Total Possible Indoor Environmental Quality Points Achievable w/PBS SIPs		5

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Innovation & Design Process		
Section	Detail	Points
ID Credit 1.1	Innovation in Design: Specific Title	1
ID Credit 2	LEED Accredited Professional (AP)	1
Additional Detail:	A LEED AP assigned to the project team as a principal participant will earn the project an additional credit. One who is familiar with Premier Building Systems' SIPs will guarantee overall success of the project.	
Total Possible Innovation & Design Points Achievable w/PBS SIPs		2

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