



## PREMIER SIPS & LEED V4.1 RESIDENTIAL BD+C

**Premier SIPS High-Performance Building Envelope (HPBE) System** significantly contributes to LEED Certification for new construction of Single Family and Multi-family Homes. Seeking LEED Certification ensures energy-efficient, comfortable, durable, and environmentally conscious homes for owners.

### LEED v4.1 Residential BD+C:

- Merges language from BD+C and residential-focused rating systems.
- Required rating system for all single family and multifamily projects, replacing LEED BD+C.
- Addresses new construction or major renovation of residential buildings.
- Requires at least 60% of gross floor area to be complete at the time of certification (except for LEED BD+C: Multifamily Core and Shell).

### Building Types for LEED v4.1 Residential BD+C:

1. **Single Family Homes:** New single-family homes that are attached or detached, and multifamily buildings with up to four units.
2. **Multifamily Homes:** Applicable to any predominantly multifamily building with two or more units and any number of stories.
3. **Multifamily Homes Core and Shell:** Multifamily buildings that are new construction or major renovation for the exterior shell and core mechanical, electrical and plumbing units, but not a complete interior fit-out. It is the appropriate rating system to use if more than 40% of the gross floor area is incomplete at the time of certification.

Projects certified under the rating system must meet a total points minimum by accumulating points in specific categories. Each category has specific prerequisites that must be met: Location and Transportation, Sustainable Sites, Water Efficiency, Energy and Atmosphere, Indoor Environmental Quality, Innovation and Regional Priority.

### FOUR LEVELS OF CERTIFICATION:

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

# WHY CERTIFY?



**LEED Rating Systems are useful tools for building professionals, but there are many reasons why LEED project certification can be an asset:**

1. Be recognized for your commitment to environmental issues in your community, your organization (including shareholders) and your industry.
2. Receive 3rd Party validation of achievement.
3. Qualify for a growing array of federal state and local incentives, including tax credits & deductions (up to \$5,000 per dwelling unit with SIPS).
4. Receive marketing exposure through USGBC web site, GreenBuild conference, case studies and social media.

**Total points possible when using Premier SIPS for the building envelope framing, insulation & sheathing: 47**

<b>SUSTAINABLE SITES (SS)</b>	<p><b>Nontoxic Pest Control</b></p> <p><i>1-2 Points Possible with Premier SIPS</i></p> <p><b>Intent:</b> To minimize pest problems and risk of exposure to pesticides.</p>	<p><b>Requirements:</b></p> <p>Pursue any of the following measures to receive up to 2 points (Each measure is worth 1 point, except as noted):</p> <p>Treat cellulosic structural material (e.g., wood framing) with a registered pesticide containing borates, meeting the manufacturer's warranty requirements for pre-construction treatment.</p> <p><b>SIPS components of OSB and EPS/GPS are made with Borate base insecticidal treatments to control termite infestation and fungal decay.</b></p>
<b>ENERGY &amp; ATMOSPHERE (EA)</b>	<p><b>Annual Energy Use</b></p> <p><i>36 Points Possible with Premier SIPS</i></p> <p><b>Intent:</b> To improve the home's overall energy performance and reduce its greenhouse gas emissions.</p>	<p><b>Requirements:</b></p> <p>Single family homes with major energy users not included in the HERS Index, including pools, spas, heated driveways, and heated garages, or other major energy users not included in the HERS index must use Option 1.</p> <ul style="list-style-type: none"> <li>• Option 1: LEED Energy Budget Design and construct a building whose modeled annual energy usage is lower than the LEED energy budget. The LEED energy budget is based on the ENERGY STAR for Homes, HERS Index Target Procedure for National Program Requirements, version 3, with the following modifications:</li> <li>• Option 2: HERS Index Case 1. New construction Design and construct a home whose modeled annual energy usage achieves a HERS index rating of 70 or better, or whose HERS index rating is at or below the ENERGY STAR HERS Index Target (or USGBC approved equivalent for projects outside the U.S.). Points are awarded according to Table 3.</li> </ul> <p><b>SIPS are a high performance building envelope (HPBE) that help designers achieve many accredited energy level recognitions, including Net ZERO HOMES.</b></p>

<b>MATERIALS &amp; RESOURCES (MR)</b>	<p><b>Material Efficient Framing</b></p> <p><b>1-2 Points Possible with Premier SIPS</b></p> <p><b>Intent:</b> To conserve resources by reducing the use of unnecessary framing materials.</p>	<p><b>Requirements:</b></p> <p>Implement advanced framing techniques for at least 90% of each component, for a maximum of 2 points.</p> <p><b>SIPS reduce the need for extensive framing lumber and being factory fabricated reduce job site waste.</b></p>
	<p><b>Construction Waste Management</b></p> <p><b>2 Points Possible with Premier SIPS</b></p> <p><b>Intent:</b> To reduce construction waste generation and to reuse and recycle debris.</p>	<p><b>Requirements:</b></p> <p>Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout.</p> <p><b>Option 2: Reduction of total waste material - 2 points</b></p> <p>Reduce total construction waste or divert from landfills and incinerators a large proportion of the waste generated from new construction. Use the tables below to calculate the percentage of waste avoided or recycled Exclude excavated soil, land-clearing debris from calculations. Include materials destined for alternative daily cover (ADC) in the calculations as waste (not diversion).</p> <p><b>SIPS are factory fabricated, thereby reducing the framing lumber waste that results from job site cutting.</b></p>
<b>INDOOR ENVIRONMENTAL QUALITY (EQ)</b>	<p><b>Low-Emitting Products</b></p> <p><b>4 Points Possible with Premier SIPS</b></p> <p><b>Intent:</b> To reduce occupants' exposure to airborne chemical contaminants through product selection.</p>	<p><b>Requirements:</b></p> <p>Use materials on the building interior (everything within the waterproofing membrane) that meet the low emitting criteria below. At least 50% of a component must meet the requirements to earn 1 point, or 90% for 2 points.</p> <p>Adhesives and Sealants: Adhesives and sealants must meet the VOC emissions evaluation AND the VOC content evaluation. The adhesives and sealants product category includes all interior adhesives and sealants applied on site.</p> <p><b>SIP sealant has achieved CLEAN AIR CERTIFICATION by being tested to the California Department of Public Health (CDPH) Standard Method v1.2-2017.</b></p> <p>Insulation : Insulation must meet the VOC emissions evaluation. The insulation material category includes all thermal and acoustic boards, batts, rolls, blankets, sound attention fire blankets, foamed-in place, loose-fill, blown, and sprayed insulation.</p> <p><b>SIPS core insulation and OSB facing have achieved CLEAN AIR CERTIFICATION by being tested to the California Department of Public Health (CDPH) Standard Method v1.2-2017.</b></p>
<b>INNOVATION (IN)</b>	<p><b>1 Points Possible with Premier SIPS</b></p> <p><b>Intent:</b> To encourage exceptional performance for current credits and promote innovative performance in pioneering areas.</p>	<p><b>Requirements:</b></p> <p>To achieve all five innovation points, a project team must achieve at least one pilot credit, at least one innovation credit and no more than two exemplary performance credits.</p> <p><b>Option 1: Innovation - 1 point. Achieve significant, measurable environmental performance using a strategy not addressed in the LEED Green Building Rating System.</b></p> <p><b>SIPS are an innovative high performance building envelope (HPBE) and may help to achieve innovation recognition under the LEED Rating Program.</b></p>

*Disclaimer: The information in this document has been provided to designers for the purpose of alerting them to the performance attributes of Premier SIPS and the documentation available from Premier Building Systems that potentially may assist them in achieving LEED Points for their home building project. The information in this document is taken in excerpts from LEED v4.1 Rating Program as presented on the USGBC.org web site as of July 2023, with additional comments by PBS regarding SIPS. The information is provided by PBS in good faith and is based on the general understanding of the LEED v4.1 by PBS. However, it is the sole responsibility of the designer to research information available for SIPS, and determine how SIPS may earn LEED Points under the LEED v4.1 Rating Programs.*



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