

## PowerWool Insulation

### LEED v4/v4.1 Contribution Summary

Last Revision: April 22, 2026

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#### Overview

PowerWool mineral wool insulation products can support LEED v4 and v4.1 project objectives within the Materials & Resources (MR) and Energy & Atmosphere (EA) categories.

Insulation is an important component of overall building performance, influencing both material-level environmental impacts and operational energy use.

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#### Key LEED Contributions

##### MR Credit: Environmental Product Declarations (EPD)

PowerWool products are supported by a completed, third-party verified Type III Environmental Product Declaration (EPD).

##### Contribution:

- Qualifies for inclusion toward the **1-point MR EPD credit under LEED v4/v4.1**
- Counts toward the required number of permanently installed products with EPDs

##### Specifier Note:

- PowerWool EPD documentation is complete and available, enabling straightforward inclusion in LEED documentation and submittals
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##### EA Credit: Optimize Energy Performance

PowerWool Insulation supports building envelope performance and reduced energy demand.

##### Contribution:

- Supports improved whole-building energy modeling outcomes
- Can contribute toward achievement of EA credit points at the project level

##### Specifier Note:

- Continuous exterior insulation is commonly used to reduce thermal bridging and improve modeled building performance
  - Final credit achievement is determined through whole-building energy modeling
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### **MR Credit: Building Life-Cycle Impact Reduction**

PowerWool products include life cycle assessment (LCA) data suitable for use in whole-building life cycle assessment (WBLCA).

#### **Contribution:**

- Can be incorporated into whole-building life cycle assessment modeling under LEED v4/v4.1 Option 4
  - Supports project teams evaluating building-level environmental impacts
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### **Interpreting Environmental Data**

Environmental Product Declarations (EPDs) provide standardized, third-party verified data on embodied environmental impacts, typically focused on cradle-to-gate (A1–A3) stages.

When evaluating materials:

- EPD results reflect manufacturing inputs, energy sources, and supply chain assumptions
- Differences between products may be influenced by regional production conditions and methodology choices
- Insulation products also contribute to operational energy performance over the life of the building, which is evaluated separately through energy modeling

As such:

Material selection is most effectively evaluated within the context of whole-building performance and lifecycle outcomes, rather than on a single metric basis.

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### **Insulation and Lifecycle Carbon Performance**

Insulation materials contribute both to embodied environmental impacts and to reductions in operational energy use over the life of the building.

Lifecycle evaluation of insulation typically considers:

- Initial embodied carbon (as reported in EPDs)
- Operational energy performance over time

Depending on building design and performance, improvements to the building envelope can contribute to a carbon payback over time, where operational energy savings offset initial material impacts.

For this reason, insulation may most appropriately be assessed as part of a whole-building energy and lifecycle analysis, rather than on a material-only basis.

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### **Continuous Improvement and Transparency**

PowerWool supports transparency through third-party verified environmental reporting and ongoing product development.

Industry-wide, the increasing use of EPDs reflects a broader commitment to measurement, disclosure, and continuous improvement in environmental performance.

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### **Additional Performance Attributes**

- Non-combustible mineral wool composition
  - Durable, long service life
  - Stable thermal performance over time
  - Resistant to moisture, mold, and dimensional change
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### **Documentation Availability**

- Third-party verified EPD available upon request or via program operator databases
  - Additional environmental and technical data available to support LEED documentation and modeling
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### **Summary**

#### **PowerWool Insulation can support LEED-certified projects by:**

- Contributing to material transparency requirements (MR credits)
- Supporting energy performance strategies (EA credits)
- Enabling whole-building lifecycle analysis

As part of an integrated building design approach, insulation plays a role in achieving both energy and environmental performance objectives.

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**For further information, please contact:**

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