

PowerWool Insulation

LEED v4/v4.1 Contribution Summary

Last Revision: June 1, 2026

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.

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.

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.

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.

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.

For further information, please contact: PowerWool Insulation Inc. and PowerWool Insulation USA Inc.

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Environmental Data Notice

Environmental performance information, including Environmental Product Declarations (EPDs) and Life Cycle Assessments (LCAs), is prepared in accordance with applicable standards and Product Category Rules and, where applicable, is subject to independent third-party verification. Such assessments rely upon information provided by manufacturing facilities, suppliers, logistics providers, and other third-party sources. While reasonable efforts have been made to ensure the completeness and accuracy of information used in these assessments, environmental declarations are inherently dependent upon available data, modeling assumptions, and methodological requirements. Reported results may be revised from time to time as additional information becomes available or as applicable standards, methodologies, or operating conditions evolve.