



# THERMAFIBER<sup>®</sup> MINERAL WOOL INSULATION

## HELPING YOU ACHIEVE LEED<sup>®</sup> CERTIFICATIONS

Owens Corning offers many products to the built environment that help improve thermal performance, moisture control, durability, and sound quality. This document provides an overview of the LEED<sup>®</sup> Building Design and Construction (BD+C) v4 and v4.1 credit opportunities that Owens Corning products may help a project qualify for.

Achieving credits toward LEED<sup>®</sup> certification is based on the overall project design, properly designed building systems and assemblies, and the performance of the project as a whole. Owens Corning products are often a component of these building systems and assemblies and help satisfy credit opportunities through third-party certified Environmental Product Declarations (EPDs), published Health Product Declarations (HPDs) and/or Declare labels, recycled content, GREENGUARD/GREENGUARD Gold certification, and regionality. As you pursue LEED<sup>®</sup> certification, rely on the products and expertise of Owens Corning.

### Owens Corning<sup>®</sup> Thermafiber<sup>®</sup> Mineral Wool Insulation Products:

- Thermafiber<sup>®</sup> Firespan<sup>®</sup> Insulation
- Thermafiber<sup>®</sup> Rainbarrier<sup>®</sup> Insulation
- Thermafiber<sup>®</sup> SAFB<sup>™</sup> (Sound Attenuation Fire Blankets) Insulation
- Thermafiber<sup>®</sup> Fire & Sound Guard<sup>®</sup> Plus Insulation
- Thermafiber<sup>®</sup> Versaboard<sup>®</sup> Insulation
- Thermafiber<sup>®</sup> FireEdge<sup>®</sup> Insulation
- Thermafiber<sup>®</sup> TopStop<sup>®</sup> Insulation

CREDIT CATEGORY	LEED <sup>®</sup> V4 REQUIREMENT	LEED <sup>®</sup> V4.1 REQUIREMENT	OWENS CORNING <sup>®</sup> PRODUCT COMPARISON
<b>ENERGY AND ATMOSPHERE (EA)</b>			
<b>Prerequisite:</b> Minimum Energy Performance	Whole Building Energy Simulation Performance Improvement or Prescriptive Compliance in accordance with ANSI/ASHRAE/IESNA Standard 90.1-2010, Appendix G	Compliance with ANSI/ASHRAE/IESNA Standard 90.1-2016, with errata or a USGBC-approved equivalent standard. ASHRAE 90.1-2016 compliance pathways in Section 4.2.1.1 include compliance with all mandatory provisions, and compliance with additional provision(s) as specified in the LEED v4.1 standard.	Insulation helps reduce building energy demand. The overall contribution is dependent on the R-value of the insulation used and the regionally appropriate design of the building enclosure. Project team is responsible for conducting energy analysis to determine the overall building energy efficiency.
<b>Credit:</b> Sourcing of Raw Materials	Whole Building Energy Simulation improvement beyond prerequisite or Prescriptive Compliance using ASHRAE 50% Advanced Energy Design	Analyze efficiency measures during the design process, focusing on load reduction and HVAC-related strategies or passive measures appropriate for the facility, and account for the results during design decision making. Project teams may choose between Energy Performance Compliance or Prescriptive Compliance options.	
<b>MATERIALS &amp; RESOURCES (MR)</b>			
<b>Credit:</b> Environmental Product Declarations	<b>Option 1. Environmental Product Declaration (EPD)</b> Use at least 20 different permanently installed products that have a third-party certified EPD, sourced from at least five different manufacturers.		Owens Corning <sup>®</sup> Thermafiber <sup>®</sup> Mineral Wool Insulation products carry a third-party certified EPD. See <a href="https://spot.ul.com">https://spot.ul.com</a> for certification details.
	<b>Option 2. Multi-Attribute Optimization</b> At least 50% of installed products have third-party certifications that demonstrate impact reduction below industry average in at least three of the prescribed impact categories.	<b>Option 2. Embodied Carbon/LCA Optimization</b> Use at least 5 permanently installed products, sourced from at least three different manufacturers, that have a compliant embodied carbon optimization report or action plan separate from the LCA or EPD.	
<b>Credit:</b> Sourcing of Raw Materials	Sum of postconsumer recycled content plus ½ the preconsumer recycled content, constitutes 25%, by cost, of the total value of permanently installed building products in the project. Products sourced within 100 miles of project site valued at 200% of cost.	Sum of postconsumer recycled content plus ½ the preconsumer recycled content, multiplied by the cost of assembly, constitutes 15% (1 point) or 30% (2 points), by cost, of the total value of permanently installed building products in the project. Products sourced within 100 miles of project site are valued at twice their base contributing cost, up to a maximum of 200% of cost.	Owens Corning <sup>®</sup> Thermafiber <sup>®</sup> Mineral Wool Insulation products are certified to contain a minimum of 70% pre-consumer recycled content. See <a href="https://icc-es.org/">https://icc-es.org/</a> for certification details.
<b>Credit:</b> Material Ingredients	Use at least 20 different permanently installed products from at least five different manufacturers that disclose the chemical inventory of the product to at least 0.1% (1000 ppm) using recognized programs, including:  <b>Health Product Declaration (HPD):</b> The product has a published, complete HPD with full disclosure of known hazards in compliance with the Health Product Declaration Open Standard.		Owens Corning has a published HPD for Thermafiber <sup>®</sup> Mineral Wool Insulation products. It can be found in the HPD Public Repository ( <a href="https://hpdrepository.hpd-collaborative.org/">https://hpdrepository.hpd-collaborative.org/</a> ).

CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® V4.1 REQUIREMENT	OWENS CORNING® PRODUCT COMPARISON
<b>MATERIALS &amp; RESOURCES (MR)</b>			
<b>Credit:</b> Construction and Demolition Waste Management	Recycle and/or salvage nonhazardous construction and demolition materials. Diversion of at least 50% of the total construction and demolition material; diverted materials include at least three material streams.	Develop and implement a construction and demolition waste management plan and achieve points through waste prevention and/or diversion of at least 50% of the total construction and demolition materials from landfills and incineration facilities.	Owens Corning® Thermafiber® Mineral Wool Insulation products can be removed from demolition projects and reused in new construction. Please refer to product specifications for recommended storage and installation of materials.
<b>INDOOR ENVIRONMENTAL QUALITY (EQ)</b>			
<b>Prerequisite:</b> Minimum Acoustic Performance	For classrooms < 20,000 cf, where total surface area of acoustic wall panels, ceiling finishes, and other sound-absorbent finishes equals or exceeds the total ceiling area of the room. Materials must have an NRC of 0.70 or higher to be included in the calculation. Alternatively, confirm that calculated or measured reverberation times comply with ANSI Standard S12.60-2010, Part 1.		Owens Corning® Thermafiber® Mineral Wool Insulation products absorb noise passing between floors and walls. Product data sheets provide product-specific acoustic performance statistics. They can be accessed at <a href="http://www.owenscorning.com">www.owenscorning.com</a> .
<b>Credit:</b> Thermal Comfort	Design heating, ventilating, and air conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55-2010, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent.	Design heating, ventilating, and air-conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55-2017, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent.	Owens Corning® PINK Next Gen® Fiberglas™ Insulation products contribute to a comfortable thermal environment. See individual product data sheets for details, and check with local sales representative for product applications.
<b>Credit:</b> Acoustic Performance	LEED v4 and v4.1 provide credit opportunities to projects that provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design. The requirements consider background noise, sound isolation and transmission, and reverberation time, and differ depending on the type of project. Consult the LEED rating system document for details.		Owens Corning® Thermafiber® Mineral Wool Insulation products absorb noise passing between floors and walls. Product data sheets provide product-specific acoustic performance statistics. They can be accessed at <a href="http://www.owenscorning.com">www.owenscorning.com</a> .

Note: No individual material enables a credit point to be taken within LEED® because each category is dependent on the aggregate of all materials and their proportionate relationship to the total dollar cost of all materials.

## Owens Corning® Thermafiber® Insulation Plant Locations

To request a LEED® Credit Estimate, simply fill out the [LEED® Request Form](#) and hit submit. Someone will reach out with your estimate within five business days.

All LEED® Reports will provide the following documentation (if applicable to the product): Recycled Content Certificate, GreenGuard Certification, EPD, and HPD. Please see the [Owens Corning Commercial Insulation Claims Guide](#) for detailed descriptions of Sustainability documentation.



**THERMAFIBER, INC.**  
ONE OWENS CORNING PARKWAY  
TOLEDO, OH 43659 USA

**888-TFIBER1 [834-2371]**  
[www.owenscorning.com/thermafiber](http://www.owenscorning.com/thermafiber)

To view other Owens Corning products that help contribute to LEED® certification, please visit: [sustainability.owenscorning.com](http://sustainability.owenscorning.com)

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