



# FOAMULAR® NGX® XPS COMMERCIAL INSULATION

HELPING YOU ACHIEVE LEED® 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® 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® 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® certification, rely on the products and expertise of Owens Corning.

## Owens Corning® FOAMULAR® XPS Products:

- FOAMULAR® NGX® 150 Insulation
- FOAMULAR® NGX® 250 Insulation
- FOAMULAR® NGX® 400 Insulation
- FOAMULAR® NGX® 404/404RB Insulation
- FOAMULAR® NGX® 600 Insulation
- FOAMULAR® NGX® 604/604RB Insulation
- FOAMULAR® NGX® 1000 Insulation
- FOAMULAR® NGX® Insulating Sheathing
- FOAMULAR® NGX® THERMAPINK 25 Insulation
- FOAMULAR® NGX® LT30, LT40
- FOAMULAR® NGX® Insul-Drain® Board
- FOAMULAR® NGX® C-200 Insulation
- FOAMULAR® NGX® C-300 Insulation
- FOAMULAR® NGX® 350 Insulation
- FOAMULAR® NGX® CodeBord® Insulation

CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® V4.1 REQUIREMENT	OWENS CORNING PRODUCT CONTRIBUTION
ENERGY AND ATMOSPHERE (EA)			
Prerequisite: 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.
Credit: Optimize Energy Performance	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.	
MATERIALS AND RESOURCES (MR)			
Credit: Environmental Product Declarations	Option 1: Environmental Product Declaration (EPD) Use at least 20 different permanently installed products that have a third-party certified EPD, sourced from at least five different manufacturers.		Owens Corning® FOAMULAR® NGX® Building Insulation products carry a third-party certified EPD. See https://www.scsglobalservices.com/certified-green-products-guide for certification details.
	Option 2: Multi-Attribute Optimization 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.	Option 2: Embodied Carbon/LCA Optimization 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.	Owens Corning® FOAMULAR® NGX® Building Insulation products carry a compliant third-party certified Embodied Carbon/LCA Optimization Report, contributing 2 products toward the LEED v4.1 credit. See https://www.scsglobalservices.com/certified-green-products-guide for certification details.

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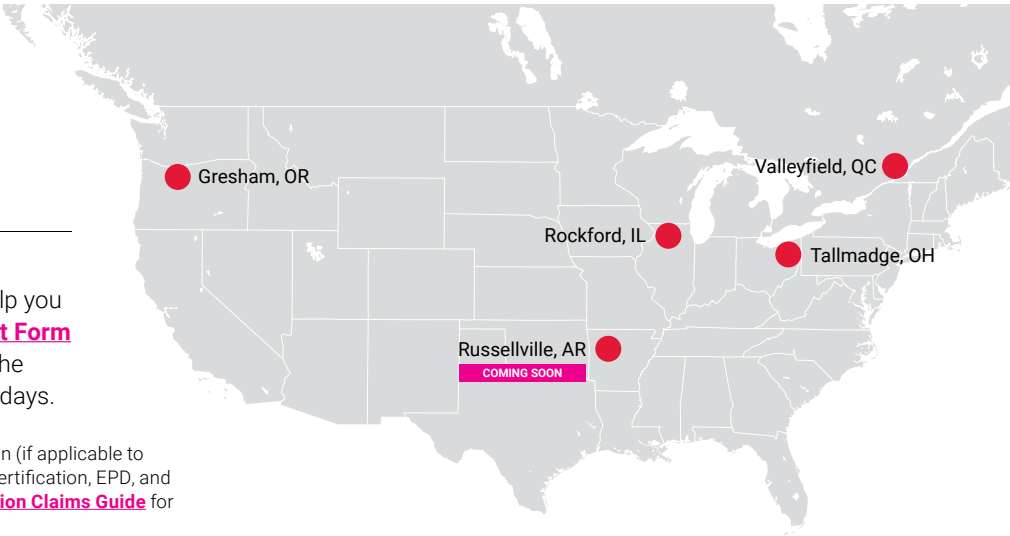
CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® V4.1 REQUIREMENT	OWENS CORNING PRODUCT CONTRIBUTION
<b>MATERIALS AND RESOURCES (MR)</b>			
<b>Credit:</b> Sourcing of Raw Materials	Sum of postconsumer recycled content plus 1/2 the preconsumer recycled content constitutes 25%, by cost, of the total value of permanently installed building products in the project.	Sum of postconsumer recycled content plus 1/2 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.	Owens Corning® FOAMULAR® NGX® Insulation products are manufactured in 3 U.S. plants and 1 Canadian plant to provide regionally available material containing recycled content. See <a href="https://www.scsglobalservices.com/certified-green-products-guide">https://www.scsglobalservices.com/certified-green-products-guide</a> for certification details.
<b>Credit:</b> Material Ingredients	<b>Option 1:</b> 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 end use product (v4.1) 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 FOAMULAR® NGX® Building Insulation products. It can be found in the HPD Public Repository ( <a href="https://hpdrepository.hpd-collaborative.org/">https://hpdrepository.hpd-collaborative.org/</a> ).
<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® FOAMULAR® NGX® 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>Credit:</b> Low Emitting Materials	Achieve 100% threshold level of compliance with the General Emissions Evaluation for ceilings, walls, thermal, and acoustic insulation	At least 75% of all insulation, by cost or surface area, meets the VOC emissions evaluation.	Owens Corning® FOAMULAR® NGX® Insulation products are GREENGUARD Gold Certified and meet the General Emissions Evaluation (v4) and VOC emissions evaluation (V4.1) criteria. See <a href="http://ul.com/spot">ul.com/spot</a> for certification.
<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® FOAMULAR® NGX® Insulation products contribute to a comfortable thermal environment. See individual product data sheets for details, and check with local sales representative for product applications.

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®  
FOAMULAR® NGX® Insulation  
Plant Locations

To request LEED® documentation that can help you earn credits, simply fill out the [LEED® Request Form](#) and hit submit. Someone will reach out with the available documentation 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.



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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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