



FIBERGLAS™ RIGID & SEMI-RIGID INSULATION HELPING YOU ACHIEVE LEED® CERTIFICATIONS

Owens Corning® offers a number of products to help improve thermal performance, moisture control, durability and sound quality in commercial buildings. This document applies to the LEED 2009 and LEED v4 for Building Design and Construction (BD + C), New Construction (Core and Shell, Schools, Retail, Data Centers, Warehouses and Distribution Centers, Hospitality, and Healthcare). As you pursue LEED® Certification, rely on the products and expertise of Owens Corning®.

LEED® Certification and the awarding of credits, 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 can be a component of many of these systems and assemblies. All components within those systems and assemblies should be considered to assess compliance with the LEED® Rating System within a given category.

Owens Corning® Fiberglas™ Rigid and Semi-Rigid Insulation Products contribute to the categories listed below.

OWENS CORNING® FIBERGLAS™ RIGID & SEMI-RIGID INSULATION PRODUCTS

- Fiberglas™ 700 Series
- Fiberglas™ Insul-Quick® (IQ) Board
- Fiberglas™ TIW-HP Type I & Type II
- Fiberglas™ SCR Board

Table 1

CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® 2009 REQUIREMENT	OWENS CORNING® PRODUCT COMPARISON
Energy and Atmosphere (EA)			
Minimum Energy Performance- Prerequisite 2:	Whole Building Energy Simulation Performance improvement or Prescriptive Compliance in accordance with ANSI/ ASHRAE/IESNA Standard 90.1-2010.	Whole Building Energy Simulation Performance improvement dependent on building type, baseline performance according to ANSI/ ASHRAE/IESNA Standard 90.1-2007, Appendix G.	Fiberglas™ Rigid and Semi Rigid Insulation helps reduce building energy demand while improving thermal comfort for occupants. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency.
Optimize Energy Performance	Whole Building Energy Simulation improvement beyond prerequisite or Prescriptive Compliance using ASHRAE 50% Advanced Energy Design.	Improved performance rating compared with baseline building performance rating per ANSI/ ASHRAE/IESNA Standard 90.1-2007, Appendix G.	Fiberglas™ Rigid and Semi Rigid Insulation helps reduce building energy demand while improving thermal comfort for the occupants. Dependent on U-value of construction assembly. Project team responsible for conducting energy analysis to determine the overall building energy efficiency.
Materials & Resources (MR)			
Building Product Disclosure & Optimization- Environmental Product Declaration	Use at least 20 different permanently installed products sourced from at least five different manufacturers that have third-party certified EPD	NA	Owens Corning® Fiberglas™ 700 Series Insulations carry third party certified EPDs. See UL.com/EPD for certifications.
Raw Material Source and Extraction Reporting	Sum of postconsumer recycled content plus ½ the pre-consumer recycled content, constitutes 25%, by cost, of the total value of the project. Products sourced within 100 miles (160 km) of project site valued at 200% of cost.	Sum of post-consumer recycled content plus ½ the pre-consumer content by cost, of the total value of the project. Products sourced within 500 miles of project site by cost, of the total materials value.	Fiberglas™ Rigid and Semi-Rigid Insulation, U.S. manufacturing plant provides regionally available material and contain a minimum 22% post-consumer and 31% pre-consumer recycled content, 53% total. Please contact 1-800-GET-PINK® for specific product information.
Building Product Disclosure and Optimization Material Ingredients	Option 1. Material Ingredient Reporting (1 point) Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).	NA	Owens Corning® Fiberglas™ 700 Series Insulation has published Health Product Declarations which meet the LEED MR credit requirements for disclosure.

Table 1 (continued)

CREDIT CATEGORY	LEED® V4 REQUIREMENT	LEED® 2009 REQUIREMENT	OWENS CORNING® PRODUCT COMPARISON
Indoor Environmental Quality (EQ)			
Minimum Acoustic Performance Prerequisite 3:	For Classrooms < 20,000 of materials with NRC of 0.70 or higher to be included in calculation. Or confirm rooms designed to meet reverberation time requirements as specified ANSI Standard S12.60-2010	Classrooms background noise from HVAC systems at 45 dBA or less, and reverberation times per ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools.	Fiberglas™ Rigid and Semi-Rigid Insulation is effective at reducing noise transfer through building assemblies and improving room sound quality. See individual product data sheets for details.
Thermal Comfort	Design HVAC systems and building envelope to meet ASHRAE Standard 55-2010, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent.	Design HVAC systems and building envelope to meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy. Design compliance in accordance with the Section 6.1.1.	Fiberglas™ Rigid and Semi-Rigid Insulation products contribute to a comfortable thermal environment.
Acoustic Performance	Design classrooms and other core learning spaces to meet the sound transmission class (STC) requirements of ANSI S12.60-2010 Part 1, or a local equivalent.	ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools for STC rating of building shell, classroom and core learning space partitions; HVAC background noise at 40 dBA.	Fiberglas™ Rigid and Semi-Rigid Insulation products absorb noise passing between floors and walls and provide STCs that improve the indoor environmental quality for building occupants.
Mold Prevention	Credit requirements moved to "Thermal Comfort" credit.	Added to IEQ Credits 3.1, 7.1, and 7.2, HVAC systems/controls limit RH to 60% and IAQ program based on U.S. EPA document, Building Air Quality: A Guide for Building Owners and Facility Managers, EPA reference number 402-F-91-102, December 1991.	Fiberglas™ Rigid and Semi-Rigid Insulation products do not promote mold growth when tested in accordance with ASTM C1338. See individual product data sheets for details.

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.

Figure 1 – Owens Corning® Rigid & Semi-Rigid Insulation Plant Locations



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To view other Owens Corning® products that help contribute to LEED® certification please visit sustainability.owenscorning.com

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