

Fiberglas™ Light Density Building Insulation

Helping you achieve LEED® Certifications



Fiberglas™



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™ Insulation Products contribute to the categories listed below.

- Owens Corning® Fiberglas™ Light Density Building Insulation Products:**
- EcoTouch® Fiberglas™ Insulation Batt & Rolls
 - PROPINK Fastbatt® Insulation
 - Flame Spread 25 Fiberglas™ Insulation
 - Sound Attenuation Batts
 - Sonobatts® Glass Fiber Commercial Insulation
 - EnergyComplete® System:
 - EnergyComplete® Spray Foam with Flexible Seal Technology & PINK Fiberglas
 - PROPINK Complete™ Blown-In Insulation
 - PROPINK L77 Fiberglas™ Loosefill Insulation
 - PINK™ Fiberglas™

Table 1

Credit Category	LEED® v4 Requirement	LEED® 2009 Requirement	Owens Corning® Product Contribution
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.	EcoTouch® Fiberglas™ Thermal Building Insulation helps reduce building energy demand. Project team is responsible for conducting 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.	EcoTouch® Fiberglas™ Thermal Building Insulation helps reduce building energy demand. Dependent on U-value of construction assembly. Project team is 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	All EcoTouch® Fiberglas™ Thermal Building Insulation products except Energy Complete® Spray Foam with Flexible Seal Technology Complete, have UL certified EPDs. See UL.com/EPD.
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.	EcoTouch® Fiberglas™ Insulation is made in 11 U.S. and Canadian plants to provide regionally available material and contain a minimum 18% post-consumer and 37% pre-consumer recycled content, 55% total. Some products have higher content, so check with 1-800-GET-PINK®.

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Table 1 (continued)

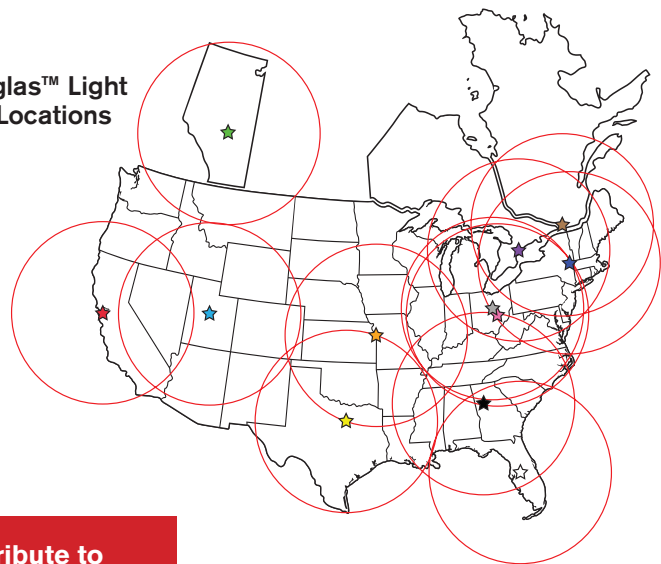
Credit Category	LEED® v4 Requirement	LEED® 2009 Requirement	Owens Corning® Product Contribution
Building Product Disclosure and Optimization Material Ingredients	Products with chemical inventory to at least 0.1% (1000 ppm); have Declare, Cradle to Cradle (at least Bronze), or Cradle to Cradle Material Health Certification (Bronze or higher) and 90% of materials assessed by weight.	NA	All EcoTouch® Fiberglas™ Thermal Building Insulation products except Energy Complete® Spray Foam with Flexible Seal Technology have Declare labels and Cradle to Cradle Material Health Certification (Gold level). All Owens Corning Blown-in insulation products have Declare label, and Cradle to Cradle Material Health Certification (platinum level).
Construction and Demolition Waste Management	Recycle and/or salvage nonhazardous construction and demolition materials. Diversion % of the total construction and demolition material; diverted materials include at least three material streams.	Use salvaged, refurbished or reused materials, which constitute at least 5% (1 point) or 10% (2 points), based on cost, of the total value of materials on the project.	Owens Corning® Insulation products can be removed from demolition projects and reused in new construction. Please refer to Owens Corning® EcoTouch® Fiberglas Insulation product specifications for recommended storage and installation of materials.
Indoor Environmental Quality (EQ)			
Minimum Acoustic Performance Prerequisite 3:	For Classrooms < 20,000 cf 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.	EcoTouch® Fiberglas™ Insulation is effective at reducing noise transfer through building assemblies and improving room sound quality. See individual product data sheets for details.
Low Emitting Materials (EQ)	Achieve 100% threshold level of compliance with emissions and content standards for Ceilings, walls, thermal, and acoustic insulation per LEED Table 2.	Meet California Department of Health Services Standard Practice for the testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda	EcoTouch® Fiberglas™ Insulation products are GREENGUARD and GreenGuard Gold Certified, and carry Formaldehyde free validation. Additional verification found at http://productguide.ulenvironment.com
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.	PINK® Fiberglas™ Thermal Insulations contribute to a comfortable thermal environment. See individual product data sheets for details, and check with local sales representative for product applications.
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; background noise at 40 dBA; windows at least STC 35.	Fiberglas™ insulation products reduce noise transfer through building assemblies and improve room sound quality. See individual product data sheets for technical details.
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.	Refer to individual product data sheets or check with the 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.

Figure 1 - Owens Corning® Fiberglas™ Light Density Building Insulation Plant Locations

- ★ Edmonton, AB
- ★ Nephi, UT
- ★ Santa Clara, CA
- ★ Waxahachie, TX
- ★ Kansas City, KS
- ★ Toronto, ON
- ★ Delmar, NY
- ★ Mt. Vernon, OH
- ★ Newark, OH
- ★ Fairburn, GA
- ☆ Lakeland, FL

Circles indicate 500-mile radius from each plant location



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



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