



Owens Corning™ Fiberglas™ Rigid & Semi-Rigid Insulation

HELPING YOU ACHIEVE LEED® CERTIFICATION



Owens Corning™ Insulation Products help improve thermal performance and control moisture in commercial, institutional and high-rise residential buildings. This document applies to the LEED® New Construction and Major Renovations, LEED® Commercial Interiors, LEED® Core & Shell, LEED® for Schools and LEED® for Existing Buildings, Operations & Maintenance products. 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 construction assemblies, and the performance of the project as a whole. Fiberglas™ Insulation can be a component of many of these systems and assemblies, with all components within those systems and assemblies being considered in assessing compliance with the LEED® Rating System within a given category and credit. Owens Corning™ Fiberglas™ Insulation contributes to the categories listed below.

Owens Corning™ Fiberglas™ Rigid & Semi-Rigid Insulation Products:

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

Table 1 (Chart continued on next page)

Contribution to LEED® Requirement

LEED® Credit Category	LEED® Requirement	Owens Corning™ Product Contribution
Energy and Atmosphere (EA)– Prerequisite 2: Minimum Energy Performance Credit 1: Optimize Energy Performance (1-19 points)	10% performance improvement for new buildings or 5% better performance for renovated existing buildings, with baseline building performance rating calculated per method in Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007 for whole building simulation. Improve building performance rating compared with the baseline building performance rating, calculated per Appendix G of ANSI/ASHRAE/IESNA Standard 90.1-2007 a whole project simulation model, with points awarded per energy cost savings in LEED® table.	Fiberglas™ Insulation helps reduce building energy demand and improve thermal comfort. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency. Fiberglas™ Insulation helps reduce building energy demand and improve thermal comfort. The overall contribution depends on the insulation R-value, the U-value of the construction assembly, and the assembly design. The project team is responsible for conducting the energy analysis to determine the overall building energy efficiency.
Materials & Resources (MR)– Credit 4: Recycled Content (1-2 points) Credit 5: Regional Material (1-2 points)	Materials with recycled content such that the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes at least 10% (1 point) or 20% (2 points), based on cost, of the total value of the materials in the project. Materials/products extracted and manufactured (or fraction thereof) within 500 miles of project site for a minimum of 10% (1 point) or 20% (2 points), based on cost, of the total materials value (fractional quantities contribute as percentage by weight).	Fiberglas™ Insulation products contain 57% pre-consumer recycled content. Recycled content certification by Scientific Certifications Systems: www.sccertified.com . Fiberglas™ Insulation, 1 U.S. manufacturing plant provides regionally available material manufactured and sourced within a 500 mile radius of project locations in many areas of the country. Fiberglas™ Insulation plant locations are shown in Fig. 1 with approximate 500-mile radii for each plant. Contact 1-800-GET PINK® for additional information.

Table I (Continued)

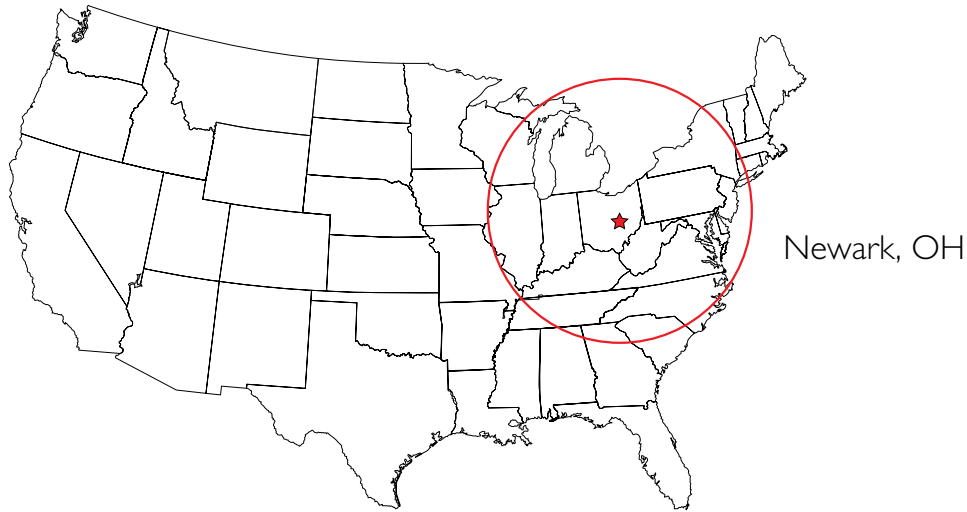
Contribution to LEED® Requirement

LEED® Credit Category	LEED® Requirement	Owens Corning™ Product Contribution
<p>Indoor Environmental Quality (IEQ)– Prerequisite 3: Minimum Acoustic Performance</p> <p>Credit 7 & 7.1: Thermal Comfort (1 point each)</p> <p>Credit 9: Enhanced Acoustical Performance (1 point)</p> <p>Credit 10: Mold Prevention (1 point)</p>	<p>Classrooms and core learning spaces with background noise from HVAC systems at 45 dBA or less, and have reverberation times per the ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools.</p> <p>Design HVAC systems and building envelope to meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy. Demonstrate design compliance in accordance with the Section 6.1.1 documentation.</p> <p>Apply 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; windows at least STC 35.</p> <p>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.</p>	<p>Fiberglas™ Insulation is effective at reducing noise transfer through building assemblies and improving room sound quality. See individual product data sheets for details.</p> <p>Fiberglas™ Insulations contribute to a comfortable thermal environment. See individual product data sheets for details, and check with local sales representative for product applications.</p> <p>Fiberglas™ Insulation reduces noise transfer through building assemblies and improves room sound quality and is a significant contributor to improved acoustic performance in schools and healthcare facilities. See individual product data sheets for details.</p> <p>Fiberglas™ does not attract or absorb moisture and does not contribute to mold growth. See individual product data sheets for details.</p>
<p>Innovation in Design (ID)– (1-4 points)</p>	<p>Credit can be achieved through any combination of the Innovation in Design and Exemplary Performance.</p>	<p>Refer to individual product data sheets or check with the local sales representative for product applications.</p>

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™ Rigid & Semi-Rigid Insulation Plant Locations



To view other Owens Corning™ products that help contribute to LEED® certification please visit <http://sustainability.owenscorning.com/> and download Pub. No. 10011611.



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