

# Understanding the role of CertainTeed insulation in achieving LEED® certification.



CertainTeed is a member of the U.S. Green Building Council and supports the Leadership in Energy and Environmental Design (LEED) program. CertainTeed insulation products improve building energy efficiency and reduce building energy consumption. As a result, they can help conserve nonrenewable energy sources, decrease dependence on foreign oil and lower greenhouse gas emissions.

In addition, the recycled content of CertainTeed fiber glass insulation meets the EPA Recovered Material Guideline for fiber glass products, 20–25% consisting of pre-consumer and post-consumer glass cullet.

The LEED Green Building Rating System was developed by the U.S. Green Building Council to provide a national benchmark for the design, construction and operation of high-performance sustainable buildings.

In order for a building to become LEED certified, it must meet certain prerequisites and credit requirements to qualify for rating points. There are a maximum of 69 points available in six categories. Please note that individual products are not LEED Certified, but they can contribute to the overall LEED points obtained on a given project.

CATEGORY	POINTS*
Sustainable Sites	14
Water Efficiency	5
Energy & Atmosphere	17
Materials & Resources	13
Indoor Environmental Quality	15
Innovation & Design Process	5
Total Available	69

\*Based on LEED NC Version 2.2

LEED projects are certified at one of four levels depending on the total number of points the project has achieved.

The higher the certification level, the more efficient and sustainable the building will be.

CERTIFICATION LEVELS	POINTS
Certified	26–32
Silver	33–38
Gold	39–51
Platinum	52–69

In addition to the LEED Green Building Rating System for New Construction and Major Renovations (LEED NC), there are other LEED standards for different types of projects including:

- LEED CS — LEED for Core and Shell
- LEED CI — LEED for Commercial Interiors
- LEED EB — LEED for Existing Buildings
- LEED H — LEED for Homes

## WHY CERTIFY?

LEED certification provides independent, third-party verification that a building project meets the highest performance standards. LEED certification is recognized nationwide as proof that a building was designed to be environmentally responsible and a healthy place to live and work.

## LEED CERTIFIED PROJECT SPOTLIGHT:



### Waterfront Technology Center at Camden Camden, New Jersey

Products used: CertaPro 3 1/2" unfaced fiber glass insulation batts  
LEED Level: LEED CS Gold

CERTAINTEED INSULATION CONTRIBUTIONS TO LEED CREDITS*	POSSIBLE POINTS
<p><b>Energy &amp; Atmosphere</b></p> <p><b>Minimum Energy Performance:</b> Establish minimum level of building energy efficiency per ASHRAE/IESNA Standard 90.1-2004. Insulation is a necessary component to meet this requirement.</p> <p><b>Optimize Energy Performance:</b> Achieve increasing levels of building energy performance above required minimum performance standards. Additional higher R-Value insulation installed in building envelope can help achieve from one to 10 points depending on percentage increase of energy efficiency compared to a base case building.</p>	<p>Required</p> <p>1 to 10</p>
<p><b>Materials &amp; Resources</b></p> <p><b>Recycled Content 10–20%:</b> Use materials with recycled content that constitutes at least 10% (credit 4.1) or 20% (credit 4.2) based on the total cost of materials. CertainTeed fiber glass insulation contains pre- and post-consumer glass cullet which can contribute to these credits.</p> <p><b>Regional Materials 10–20% Extracted, Processed and Manufactured Regionally:</b> Use building materials/products that have been extracted, harvested or recovered as well as manufactured within 500 miles of project site for a minimum of 10% (credit 5.1) or 20% (credit 5.2) based on the total cost of materials. Depends on location of raw material extraction and manufacturing location in relation to project site.</p>	<p>1 or 2</p> <p>1 or 2</p>
<p><b>Indoor Environmental Quality</b></p> <p><b>Thermal Comfort Design:</b> Design HVAC system and building envelope to comply with ASHRAE standard 55-2004. Insulation in the building envelope can contribute by helping maintain thermal comfort and humidity within comfort ranges.</p>	<p>1</p>
<p><b>Innovation In Design Process</b></p> <p>Substantially exceed a LEED performance credit and/or apply strategies that demonstrate a comprehensive approach or quantifiable environmental and/or health benefits. Fiber glass products can contribute to innovation credits for acoustical performance, or with innovative new products, such as CertainTeed's MemBrain™, The Smart Vapor Retarder, that improve building assembly performance.</p>	<p>1 to 4</p>

\*Based on LEED NC Version 2.2

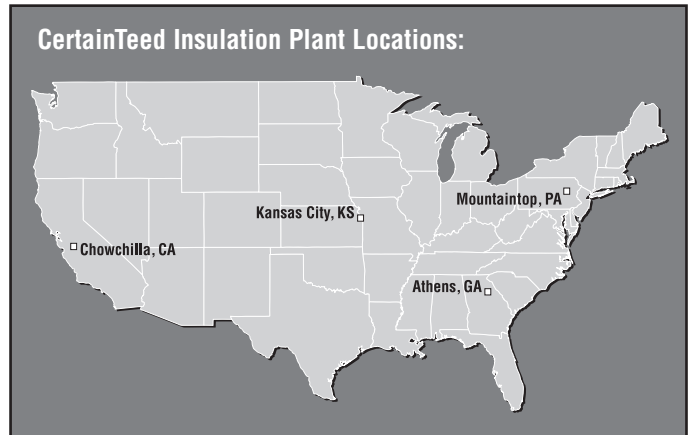
**CERTAINTEED INSULATION IS GREENGUARD® CERTIFIED.**



CertainTeed fiber glass insulation has been certified by the GREENGUARD Environmental Institute and meets the GREENGUARD standards for Volatile Organic Compound

(VOC) emissions, including formaldehyde.

For complete details on the LEED rating system and certification process contact your LEED professional, or visit [www.usgbc.org/LEED](http://www.usgbc.org/LEED). For more on CertainTeed GREENGUARD Certified products, visit [www.certainteed.com](http://www.certainteed.com). For more on GREENGUARD, visit [www.greenguard.org](http://www.greenguard.org).



Printed on recycled paper using soy-based inks.

**ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:**

**EXTERIOR:** ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE  
**INTERIOR:** INSULATION • WALLS • CEILINGS

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