

Understanding the role of CertainTeed Residential Roofing in meeting Green Building Standards



Both homeowners and municipalities are increasingly savvy to the concept of “green” standards when it comes to building homes. As such, they are more likely to ask about whether the products going into the construction of their living spaces meet green building standards, be they LEED®, NAHB or other local standards.

LEED

LEED (Leadership in Energy and Environmental Design) for Homes is a standard for the design and construction of high performance “green” homes. A green home uses less energy, water and natural resources; creates less waste; and is healthier and more comfortable for the occupants. The benefits of a LEED home include lower energy and water bills; reduced greenhouse gas emissions; and less exposure to mold, mildew and other indoor toxins. In addition, a LEED rating can give homeowners confidence that their home is durable, healthy and environmentally friendly.

ROOFING PRODUCT CONTRIBUTIONS TO LEED-H*	Possible Points	Plant Locations and Products
Energy and Atmosphere		
ENERGY STAR® Labeled Home (credit 1.2): Improve the overall energy performance of the home. Points are earned by exceeding a base HERS Index (85 for southern states, 80 for northern states).	1-34	Oxford – XT™ 25 AR Star White and XT 25 Star White
Materials and Resources		
Environmentally Preferable Materials (credit 2.2): Use products that are environmentally preferable (EPP) and/or materials that have been extracted, processed and manufactured within 500 miles of the home (“local”).	0.5 (EPP) 0-5 (Local)	Shakopee – Roofers’ Select™, Dry Felt Roofers’ Select, Residential Underlayment Shreveport – Shinglefelt 15 and 30, RoofWrap 15 and 30, Roofers’ Select Birmingham – All; Fremont – All; Norwood – Landmark™ AR; Shakopee – Landmark™ AR, XT™ 25 Black, Roofers’ Select, Independence™ AR, New Horizon™; Shreveport – XT 25, Landmark AR, XT 25 AR, RoofWrap 30

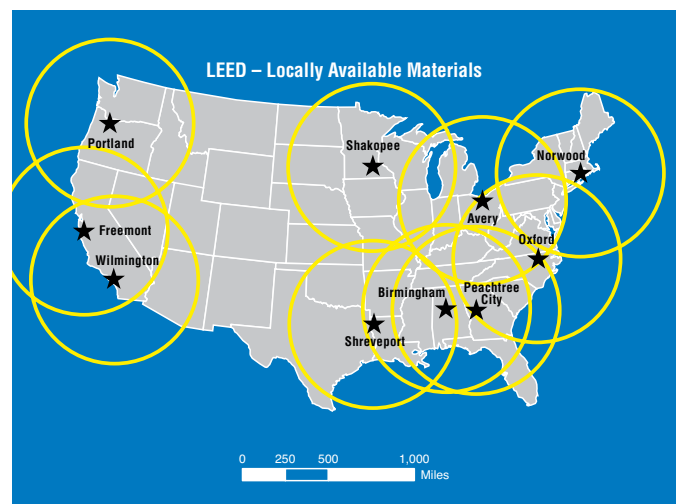
*LEED-H Version 1.11a

Before a home can be LEED certified, it must meet the standards set by the U.S. Green Building Council (USGBC). Individual products are not LEED certified, but choosing environmentally responsible products can contribute to the overall LEED points gained on a project.



CERTAINTEED ROOFING PLANT LOCATIONS:

- | | | |
|----------------|--------------------|----------------|
| Avery, OH | Oxford, NC | Shakopee, MN |
| Birmingham, AL | Peachtree City, GA | Shreveport, LA |
| Fremont, CA | Portland, OR | Wilmington, CA |
| Norwood, MA | | |



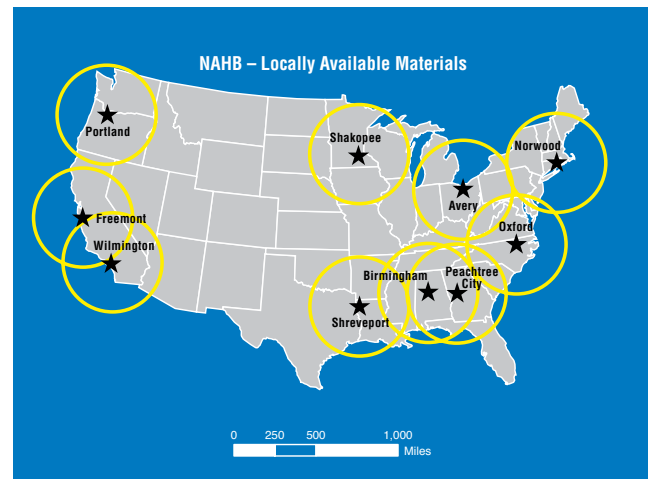
NAHB MODEL GREEN HOME BUILDING GUIDELINES

This Washington, D.C.-based trade association focuses on enhancing the climate for housing and the building industry, with an emphasis on the well being of the consumer. Among their guiding principles are resource efficiency and the promotion of energy efficient building materials and construction practices. Builders who use CertainTeed roofing products can earn points for green building ratings under the NAHB Model Green Home Building Guidelines.

ROOFING PRODUCT CONTRIBUTIONS TO NAHB	Possible Points	Plant Locations and Products
<p>2.4.1 Use Recycled-Content Building Materials Must use at least 2 recycled-content materials for 3 points. Each additional material will add a point, up to a maximum of 6 points.</p>	3:6	<p>Avery – XT 25 AR Black, Classic Horizon™, New Horizon; Birmingham – Landmark TL AR, Presidential Shake™ AR, Presidential TL™ AR; Norwood – XT 25 AR Black; Oxford – Grand Manor™ AR, Centennial Slate™ AR, Carriage House™ AR, Patriot™ AR, Classic Horizon AR Weathered Wood; Portland – Landmark AR, XT 30; Shakopee – XT 25 Black, WinterGuard™ Sand, Roofers' Select, Dry Felt Roofers' Select, Residential Underlayment, Independence AR, New Horizon; Shreveport – ShingleFelt 15 and 30, RoofWrap 15 and 30, Roofers' Select, XT 25, XT 25 AR, Landmark, Landmark AR</p>
<p>2.8.1 Use Locally Available, Indigenous Materials A builder can obtain 3 points for this line item by incorporating at least one type of locally available, indigenous material into the home's construction. An additional point can be obtained for each additional type of material for a maximum point total of 5 points.</p>	3:5	<p>Avery – All; Birmingham – All; Fremont – All; Norwood – All; Oxford – All; Portland – All; Shakopee – Landmark AR, XT 25 Black, WinterGuard Sand, Roofers' Select, Independence AR, New Horizon, Residential Underlayment, WinterGuard Sand Long; Shreveport – RoofWrap 30</p>
<p>3.2.1 Increase Building Energy Efficiency Home is X% above IECC 2003.</p>	100	<p>Oxford – XT 25 AR Star White and XT 25 Star White</p>

CERTAINTEED ROOFING GREEN FACTS

- Many CertainTeed roofing products are manufactured with pre- and post-consumer recycled content including slag, stone granules, corrugated mixed paper and sludge. The overall pre- and post-consumer recycled content of our roofing products is between 1 – 89%. Integrating these materials into our products reduces landfill waste and carbon emissions.
- CertainTeed diverts over 250,000 tons/year of slag, stone granules, corrugated mixed paper and sludge from landfills by recycling these materials into our products.
- In addition to landfill waste reduction, the use of recycled materials in our products reduces the release of CO₂ from the extraction and processing of virgin raw materials that are used to manufacture the roofing products.
- CertainTeed is committed to resource conservation. Our roofing manufacturing facilities recycle close to 90% of production waste into asphalt materials used for the construction of roads.
- We also integrate recycled content into many of our packaging materials, including corrugated rolls and kraft paper.
- CertainTeed produces a line of low and steep slope roofing products that help to reduce energy costs and overall CO₂ emissions from buildings. Our CoolStar and XT 25 AR Star White products are ENERGY STAR and Cool Roof Rating Council certified, helping to lower building cooling costs by reflecting the sun's rays away from the building roof, which lowers rooftop and attic temperatures.



For complete details on the LEED or NAHB rating systems and certification processes, contact your LEED or NAHB professional, or visit www.usgbc.org/LEED or www.nahbr.org/greenguidelines. To learn more about CertainTeed roofing products, please visit certainteed.com.

ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS:

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

CertainTeed Corporation,
 P.O.Box 860
 Valley Forge, PA 19482
 Professional: 800-233-8990
 Consumer: 800-782-8777
www.certainteed.com

