

Understanding the role of CertainTeed FiberCement Siding in meeting Green Building Standards.

GREEN BUILDING STANDARDS:

Green Building Standards, including LEED and NAHB, provide specific criteria for determining whether a building qualifies as green or not. These organizations then certify that the building is green according to their standards. The tables below show the credits that FiberCement Horizontal Siding, Simulated Shingle, Vertical Siding and Soffit can contribute to in both the LEED and NAHB Green Building Standards.



As well as being durable and low maintenance, CertainTeed FiberCement Siding products are environmentally sustainable. Our proprietary formula includes fly ash, providing the green benefits of recycled material. After several years of research and development, this new formulation contains more than 30% post-industrial recycled material.

Because of the enhanced green component of fly ash, CertainTeed uniquely contributes to LEED (Leadership in Energy and Environmental Design) project certification points in the Materials and Resources category. Additionally, when building to the NAHB National Green Building Standard, CertainTeed FiberCement products

uniquely contribute to the Resource Efficiency category of this guideline.

LEED

The LEED 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. CertainTeed is a member of the U.S. Green Building Council and supports the LEED program.



In order for a building to become LEED certified, it must meet certain prerequisites and achieve credit requirements to qualify for rating points. There are a maximum of 69 points available in six categories. For the LEED NC (new construction) standard, the most relevant for fiber cement is Materials & Resources. The other categories are: Sustainable Sites, Water Efficiency, Energy & Atmosphere, Indoor Environmental Quality and Innovation & Design Process. Please note that individual products cannot be LEED certified, but they can contribute to the overall LEED points obtained on a given project.

LEED-NC (New Construction)

CERTAINTEED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO LEED CREDIT*		POSSIBLE POINTS
Materials & Resources		
Recycled Content (credit 4.1 & 4.2): Use materials with recycled content that constitutes at least 10% (for 1 point) or 20% (for 2 points) of total value of materials in project (based on cost).		1-2
Regional Materials (credit 5.1 & 5.2): 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% (for 1 point) or 20% (for 2 points) of total value of materials in project (based on cost). Depends on location of project site.		1-2

*Based on LEED NC Version 2.2

LEED-H (Homes)

CERTAINTEED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO LEED-H CREDIT*		POSSIBLE POINTS
Materials & Resources		
Environmentally Preferable Products – Local Materials (credit 2): Use materials that were extracted, manufactured, and processed within 500 miles of the home.		.5

*Based on LEED H 2008

NAHB

Resource Efficiency is one of the guiding principles that have been identified by NAHB in their National Green Building Standard. Material selection plays a major role in the design of a successful green home

and in maximizing its sustainability. The NAHB National Green Building Standard offers multiple opportunities for a homebuilder to achieve points for the use of CertainTeed FiberCement.

CERTAINTEED FIBERCEMENT SIDING PRODUCT CONTRIBUTIONS TO NAHB*		POSSIBLE POINTS
Resource Efficiency		
No Additional Finish Required 601.7 (2.1.5): Use building materials that do not require additional site applied material for finishing. (ColorMax Only)		2 – 5
Termite-Resistance 602.8 (2.2.8): Use termite-resistant materials for exterior claddings of walls, floors, concealed roof spaces not accessible for inspection, and exterior decks in geographical areas that have slight to moderate or greater subterranean termite infestation potential.		2 – 6
Recycled Content 604.1 (2.4.1): Use recycled-content building materials for two minor and/or two major components of the building with a recycled content of 25-75%.		1 – 2
Resource-Efficient Material 607.1 (2.7.1): Use products that contain fewer resources than traditional products.		3
Locally Available 608.1 (2.8.1): Use indigenous materials for major elements of the building.		2

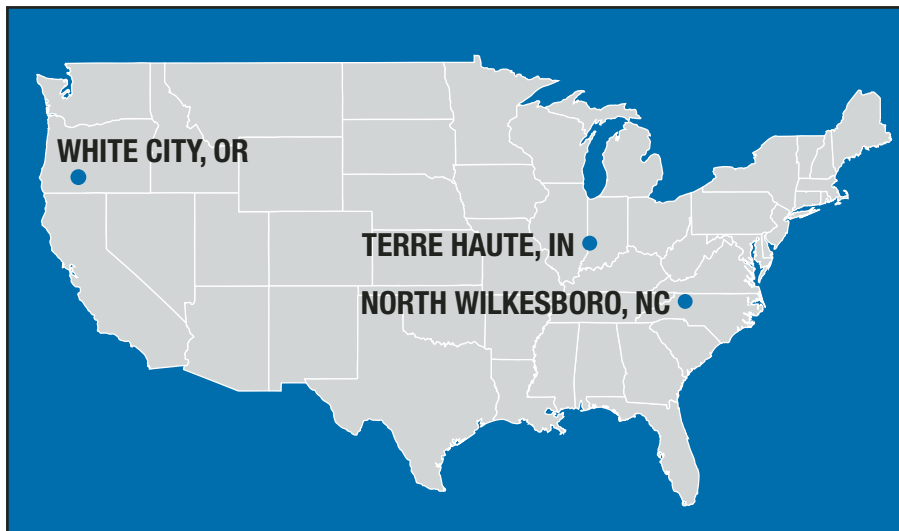
*Based on NAHB Green Building Standards - 12/21/07

Numbers in () are a cross reference to the NAHB National Green Building Standard 2006

CERTAINTEED FIBERCEMENT GREEN FACTS:

- Contains more than 30% post-industrial recycled material in the form of fly ash.
- Fly ash is a post-industrial by-product of electric generation at coal-fired facilities.
- CertainTeed is committed to resource conservation. Our manufacturing facilities recycle the water used in our plants, resulting in a savings of more than 1.5 billion gallons per year.
- Most of the wood fiber pulp used in our fiber cement products is supplied from sustainably managed forests. We are currently working with suppliers to ensure certification of 100% of our wood pulp fiber in the near future.
- CertainTeed FiberCement products have excellent durability characteristics. These products are impervious to wood boring insects, resistant to UV radiation, have a Class 1(A) Fire Rating, will not rot, and have superior impact resistance. FiberCement products also have a 50 year warranty, demonstrating CertainTeed's confidence in the durability of their product.
- By using fly ash in our product, over 50,000 tons of fly ash are diverted from landfills each year.
- Fly ash comes in many varieties. The type used in CertainTeed's FiberCement products allows the creation of a stable chemical matrix, resulting in optimum product performance.
- Our innovative use of fly ash in our formulation has not only improved the strength and durability of our products, but has also resulted in a more flexible and easy to install product, as compared to the competition.
- Fly ash has not changed our fiber cement products' superior paintability properties. We continue to use our FiberTect® sealant on our entire product line.
- This new formulation has ICC Building Code approval (reference report #ESR-1668).
- As a result of this innovation, we are able to offer a lighter weight board without sacrificing quality and integrity. Boards made with fly ash are about 5% lighter than our old formulation, which translates into less energy used to produce and transport.

CERTAINTEED FIBERCEMENT SIDING PLANT LOCATIONS:



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.nahbrc.org/greenguidelines. To learn more about CertainTeed FiberCement Siding products, please visit www.ctfibercement.com.

ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

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

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