

Understanding the role of CertainTeed Foundation Systems in meeting Green Building Standards



CertainTeed's Form-A-Drain® concrete footing form system, ThermaEZE™ foam insulation panels and Platon® waterproofing membrane provide users the leading edge in green building, while simplifying installations and reducing callbacks, all with the latest technologies. CertainTeed's Foundation Products offer drainage, radon venting, insulation and waterproofing protection for residential and commercial projects. Homeowners also benefit from the safe, comfortable and energy-efficient structures that the complete system provides. This foundation system contributes to earning points under multiple categories in both the LEED and NAHB green building systems.

Along with providing superior drainage and protection against basement water infiltration, **Form-A-Drain** also contributes to the home's overall indoor *environmental quality* by providing a vent for harmful radon gas under the basement slab. Furthermore, Form-A-Drain *reduces waste* generated on the job site and saves time and money by eliminating the need to install, remove and dispose of footing forms. **ThermaEZE** is an *ENERGY-STAR-rated* product that provides a cost-effective means for building

thermally efficient above- and below-grade poured concrete walls. **Platon** is a tough, durable, high-density polyethylene air-gap waterproofing membrane that provides superior foundation wall and under-slab *moisture protection*. This dimpled 24-mil. wrap separates water from the foundation wall and permanently bridges foundation cracks, preventing moisture from entering the basement of a home.

CertainTeed is committed to using recycled materials, and our products play a unique role in improving the home environment. Form-A-Drain foundation system lineals are made from 100% pre- and post-consumer recycled PVC, which translates into millions of pounds per year of PVC diverted from landfills. In addition to landfill waste reduction, the use of recycled PVC reduces the release of CO₂ into the atmosphere that would have occurred if we made our product from virgin PVC. Platon's high recycled content (up to 95%) can help a project qualify for LEED and NAHB points.

Both LEED and NAHB standards provide verification that the building project meets high performance standards for green building.

NAHB's National Green Building Standard, developed in cooperation with the International Code Council (ICC), is in the process of being approved as the ANSI standard for green building practices. This standard awards points based on the design and material choices made in constructing the home.



buildingresponsibly™

CertainTeed respects the environment through the responsible development of sustainable building products and systems.



NAHB* CREDITS	POSSIBLE POINTS
FORM-A-DRAIN	
Resource Efficiency	
602.3.2 (2.2.3)†: Interior and exterior foundation perimeter drains are installed and drain pipe is sloped to discharge to daylight, drywell or sump pit.	4
604.1 (2.4.1): Use recycled-content building materials.	3
607.1 (2.7.1): Use products that contain fewer resources than traditional products.	3
Indoor Environmental Quality	
902.8 (5.2.5): Install a passive or active radon system.	10-15
THERMA-EZE	
Energy Efficiency	
702.2 or 703.1.1 (3.2.1): Home is at least 10% above IECC.	10-120
703.2.1 (3.3.6.1): Insulation and air sealing.	3-15
PLATON	
Resource Efficiency	
602.11 (2.2.11): Enhanced foundation waterproofing.	4
604.1 (2.4.1): Use recycled-content building materials.	3

†The 600, 700 and 900 series numbers reference the 2007 NAHB National Green Building Standard. The numbers in parentheses reference the equivalent criteria from NAHB's 2006 Model Green Home Building Guidelines, which served as the foundation for the National Green Building Standard.

*National Association of Home Builders

When used in combination, Form-A-Drain, ThermaEZE, and Platon create a highly efficient foundation insulation and waterproofing system that provides energy efficiency, long-term durability, and moisture protection.

LEED-H CREDITS**

POSSIBLE POINTS

FORM-A-DRAIN

Innovation and Design

Durability Management Process (credit 2): **Contributes to durability of home. Durability plan will be verified by a third-party Green Rater to earn credits in this category.**

3

Indoor Environmental Quality

Radon Protection (credit 9): **If home is located in EPA Zone 1, design and build home with radon resistant construction techniques (required). If home is located outside EPA Zone 1, build home with radon resistant construction techniques.**

1

THERMA-EZE

Energy and Atmosphere

ENERGY STAR Labeled Home (credit 1): **Improve the overall energy performance of home by meeting or exceeding the performance of an ENERGY STAR home.**

1-34

Insulation (credit 2): **Install insulation that exceeds or meets the R-value requirements listed.**

2

PLATON

Innovation and Design

Durability Management Process (credit 2): **Contributes to durability of home. Durability plan will be verified by a third-party Green Rater to earn credits in this category.**

3

LEED-NC CREDITS***

POSSIBLE POINTS

FORM-A-DRAIN

Materials and Resources

Recycled Content 10% (credit 4:1): **Use materials with recycled content that contributes at least 10% based on cost of total value of materials in project. Form-A-Drain contains pre- and post-consumer materials that can contribute to these credits.**

1

Recycled Content 20% (credit 4:2): **Use materials with recycled content that contributes at least 20% based on cost of total value of materials in project. Form-A-Drain contains pre- and post-consumer materials that can contribute to these credits.**

1

THERMA-EZE

Energy and Atmosphere

Minimum Energy Performance (prerequisite credit 2): **Design the building envelope to maximize energy performance.**

REQ

Optimize Energy Performance (credit 1): **Achieve increasing levels of building energy performance above the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.**

1-10

Indoor Environmental Quality

Thermal Comfort (credit 7.1): **Provide a comfortable thermal environment that supports the productivity and well-being of building occupants.**

1

PLATON

Materials and Resources

Recycled Content 10% (credit 4:1): **Use materials with recycled content that contributes at least 10% based on cost of total value of materials in project. Platon contains pre- and post-consumer materials that can contribute to these credits.**

1

Recycled Content 20% (credit 4:2): **Use materials with recycled content that contributes at least 20% based on cost of total value of materials in project. Platon contains pre- and post-consumer materials that can contribute to these credits.**

1

The U.S. Green Building Council (USGBC) developed the Leadership for Energy and Environmental Design (LEED) Rating System to provide standards for the design, construction and operation of high performance sustainable buildings. For a building to become LEED certified, it must meet certain prerequisites and achieve specified performance levels to qualify for points. CertainTeed is a member of the U.S. Green Building Council and fully supports the LEED program.

**Based on LEED-H January 2008

***Based on LEED-NC Version 2.2

For complete details on the LEED or NAHB rating systems and certification processes, contact your LEED and NAHB professional, or visit www.usgbc.org/LEED or www.nahbrc.org/greenguideelines. To learn more about CertainTeed Foundation products, please visit <http://foundations.certainteed.com>.

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