

ENERTITE®

Open-Cell SPF Insulation

Residential Project Profile

ENERTITE insulation contributes to the U.S. DOE's first certified Zero Energy Ready Home in the State of Georgia, at the ProudGreenHome at Serenbe

Building

- 2,570 square foot, high performance home

Awards and Certifications

- Department of Energy Zero Energy Ready Home certification
- 2013 EarthCraft House Project of the Year NAHB Single Family Project of the Year
- EarthCraft Platinum Certificate of Sustainable Construction
- Energy Star, Version 3.0 certification
- EPA Indoor airPLUS certification
- WaterSense certification

Product

- Enertite open-cell, spray applied polyurethane foam insulation
- Installed in walls and ceilings

Advantages

- Energy efficiency
- Insulation performance
- Air sealing
- Conforms to any shape
- Sound control

In partnership with ProudGreenHome, architect LG Squared, Inc. and homebuilder the Imery Group sought to build something energy efficient and durable in the community of Serenbe. Serenbe is a 1,000 acre community located 32 miles south of Atlanta, Georgia. It focuses on land preservation, agriculture, energy efficiency, green building, walkability, high density building, arts and culture and community living for multiple generations. The home itself was designed to meet the Southface Energy Institute's EarthCraft green building certification program.

In the ProudGreenHome at Serenbe, all decisions from the foundation to the fixtures were based on creating a home that would showcase the latest in green technologies and applied building science. When it came time to decide on the insulation and materials, the focus was on enhancing thermal comfort, reducing air leaks and managing heating and cooling costs. This led the builders to choose Enertite open-cell spray polyurethane foam (SPF) because of its highly effective insulation values, near-zero air permeability, and its ability to provide increased occupant comfort, improved indoor air quality, and lower environmental impacts. Because SPF is fully adhered and seals hard-to-reach penetrations, it provides unequalled air sealing properties for the entire building envelope. Reducing uncontrolled air leakage results in lower utility bills and reduced greenhouse gas emissions.

Luis Imery of the Imery Group was extremely pleased with the performance of BASF Corporation's Enertite spray foam, claiming that "the whole house infiltration rate of 0.23 ach50 would not have been possible without this product!" The Enertite high expansion open-cell spray foam, installed by Vis Viva Energy & Services out of Atlanta, GA, was utilized first and foremost to meet the stringent air leakage requirements of the Earthcraft House program. This, combined with the photovoltaic panels used on the home, helped the ProudGreenHome at Serenbe receive a HERS Index of -10, which made it the lowest ever achieved within the program, according to a Southface Institute executive.

Enertite is a low density, water-blown open cell SPF insulation. Applied as a liquid, it quickly expands to many times its original volume, which allows it to completely fill wall cavities. Enertite easily flows in and around difficult-to-reach areas such as pipes and wiring, creating a seamless seal. In a one-step application, Enertite insulates against extreme outdoor temperatures, makes a quieter home and reduces air leaks. A home insulated with Enertite is one that requires less energy for heating and cooling. An Eco-efficiency analysis found that the Enertite open-cell SPF is the most eco-efficient alternative to all other insulation system due to its life cycle environmental and economic benefits.



Enertite open-cell spray foam being installed by Vis Viva Energy & Services



Complete building envelope sealing with BASF Enertite

"This home provides an experience like no other. It is green, eco-friendly, energy and water efficient, durable, low-maintenance, healthy and comfortable. It functions as an integrated system with every component affecting the next, and everything flowing together to create the ultimate in sustainable living."

— BOB FINCHER, CEO OF PROUDGREENHOME.COM

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Since 2008, the U.S. Department of Energy's (DOE) Builders Challenge program has recognized hundreds of leading builders for their achievements in energy efficiency — resulting in over 14,000 energy efficient homes and millions of dollars in energy savings. The DOE Zero Energy Ready Home — formerly DOE Challenge Home — represents a whole new level of home performance, with rigorous requirements that ensure outstanding levels of energy savings, comfort, health, and durability. A DOE Zero Energy Ready Home is a high performance home which is so energy efficient, that a renewable energy system can offset all or most of its annual energy consumption. Find more information at <http://energy.gov/eere/buildings/zero-energy-ready-home>.

EarthCraft is a green building certification program that serves Georgia, Virginia, Tennessee, Alabama, South Carolina and North Carolina. EarthCraft serves as a blueprint for energy, water and resource-efficient single-family homes, multifamily structures, renovation projects, community developments and light-commercial buildings. To date, more than 25,000 EarthCraft homes, multifamily units and commercial buildings have been certified.

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