



SPRAY FOAM INSULATION

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A SMARTER WAY TO BUILD.



2009 Southern Building Show Home

Torrey Building Systems insulated the 2009 Show Home with the *Icynene Insulation System*. Our strong reputation in the industry has been built by understanding how to air-seal and insulate a home to out-perform today's highest GREEN building standards. Creating an efficient building envelope will have the largest impact on a home's ability to be GREEN. Icynene homes are quieter, more energy efficient, and allow for dramatically improved indoor air quality.

We worked with Carl Seville, Project Coordinator, and Michael LaBelle, Builder, to give the participants of this year's HBA Show the opportunity to see how science is changing the way we insulate homes. This home scored at <.15 CFM50/SFBE on EarthCraft's blower-door/air-infiltration test, significantly better than required to surpass EarthCraft and LEEDS Platinum levels, substantially better than can be achieved by Fiberglass or Cellulose. This home received the maximum 35 points allowed for the building envelope for EarthCraft's certification.



ICYNENE
HEALTHIER, QUIETER, MORE ENERGY EFFICIENT™

Icynene Advantage

Healthier - Improves indoor air quality

Quieter - Reduces air borne sound penetration into the home.

Energy Efficient - By controlling air leakage your home will perform at a 30%-50% savings.

Durable - It does not shrink, sag, slip, turn to dust or decline in R-value over time. It offers no food value to bacteria, fungus, termites, carpenter ants or rodents.

Green - Assures the building envelope will surpass energy efficiency and environmental standards and goals established by LEEDS, NGBS, and EarthCraft.



Complete Air-seal Package



3.5" of Icynene out performs R19 of fiberglass or wet cellulose in walls.



Roof deck is sprayed at 5.5"+ creating an unvented and "close to room temperature" attic.

**Project Coordinator:**

Thanks to Torrey Building Systems and Icynene Corporation for creating the high performance thermal envelope for the 2009 New Showcase Home. Year after year we have counted on Torrey and Icynene to demonstrate to the industry the benefits of creating high

performance homes. Icynene is the best open cell option and the Torrey crew is focused and committed to creating a thorough, continuous, and impeccable thermal envelope in every home they insulate.

Carl Seville, Seville Consulting

Builder of the 2009 Show Home:

I fully believe that the insulation and air-sealing of a home is the most important and critical step in creating a Green and energy efficient home. I see no reason to invest in High Efficiency HVAC Systems or other energy saving options unless the home first has a superior thermal envelope. We count on Torrey Building Systems and Icynene to create our energy efficient, quiet, healthy, and air-tight thermal envelope. Icynene is the premium open cell foam on the market and Torrey applications are of the highest quality.

*Michael LaBelle, Owner & President
AFG Builders*

Our Installation Process

Air-Seal Package - We use Sashco-Lifetime caulk between double top plates and at bottom sills/sub floor on all exterior walls. Also at jack studs, cripple studs, double studs, triple studs and all exterior window and door headers. We drill holes in "T" corners to apply Icynene into typically uninsulated exterior wall spaces. Minimal expanding foam is injected around windows and doors (2 passes). We include fire-rated (NER) foam/caulk at penetrations between floors. Icynene is sprayed directly under showers, tubs, sinks, and toilets help minimize noise. We also spray Icynene under attic mounted HVAC units to help prevent sound travel.

Walls - We recommend a partial fill or 3.5" nominal fill in walls. (3.5" of

Icynene will dramatically out perform R19 of fiberglass or wet cellulose).

Attic - The roof deck is sprayed directly with 5.5"+ creating a unvented attic. (5.5" of Icynene in the rafters will substantially out perform R40 of fiberglass or cellulose in the ceiling).

Basement - Concrete walls are sprayed with 2"+ (R7+) of Icynene to meet code.

Crawl Spaces - Walls at 2"+ or ceilings at 5.5"+

Finish - Every wall cavity gets inspected and hand touched up to assure a continuous air-seal.

We clean up! We clean up very well!
Quality Check. We quality check during and after our application--- our objective and expectation is excellence, every home!

Available Products:

- * Icynene Classic Formula LD-C-50 – The leading soft foam insulation and air barrier material to minimize air leakage and seal the building envelope for optimal air-tightness.
- * Icynene Castor Formula LD-R-50 – The Next Generation of High-Performance Spray Foam Insulation. An environmentally preferable product derived from the castor plant and contains no HFCs or PBDEs
- * Closed Cell Foam – Available Soon