



Innovative Ideas in Building From FOAM WORX INSULATORS

FOAM WORX INSULATORS LLC
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INSULATING INC. FOAM WORX INSULATORS was founded by Insulating, Inc., a provider and installer of residential, multi-family, and commercial insulation with a 30+ year reputation for quality, integrity, and know-how. FOAM WORX INSULATORS strives to live up to that legacy. Our goal is to build relationships one client at a time, through trust, customer service, attention to detail, and loyalty to our customer.

Department of Energy Challenges Homebuilding Industry

Earlier this year, homebuilders across the country were issued a challenge by the US Department of Energy (DOE): build 220,000 high-performance, energy efficient homes by 2012.

Issued at the International Builders' Show, the DOE's "Builders Challenge" is a voluntary national energy savings program that defines a high-performance home as using at least 30% less energy than a typical new home built to meet criteria of the 2006 International Energy Conservation Code.

38 homebuilders have already pledged to build an estimated total of 6,000 high-performance homes. The aim of DOE is 1.3 million homes of this high standard constructed by 2030, allowing Americans to save \$1.7 billion in energy costs, or the carbon equivalent of taking 606,000 cars off the road annually.

Icynene® Helps Support the DOE Builders Challenge

Icynene® was front and center at the launch of this program. Icynene® insulation was installed into the walls (R-13), unvented attic (R-20), floors (R-11) and all rim joists of the Show Village Green home built by Palm Harbor Homes.

Icynene's® superior insulation and air-sealing helped this home attain an E-Scale rating of 57; well below the Builders Challenge goal of 70 and significantly below a typical new home at 100.

By using Icynene® versus air-permeable insulation, heating costs are expected to be 60% lower and cooling costs 36% lower. Related greenhouse gas emissions will be reduced by more than 8,000 lbs per year.

Foam Worx Insulators LLC can help you meet the DOE challenge and build energy-saving homes that homebuyers want to buy.



The Icynene Insulation System®
Healthier, Quieter, More Energy Efficient®

THE SCIENCE OF BUILDING

Controlling the Building Envelope is Key to Energy-Efficiency

Achieving a sealed building envelope takes more than effective framing methods, sealants and gaskets. The key to constructing energy-efficient buildings and ensuring a long life span lies in sealing and controlling the building envelope.

The Icynene Insulation System® – a completely water-blown, two-component system in the polyurethane family – acts as an air barrier, minimizing air infiltration in the building envelope.

The presence of water in the mixture creates a flexible open-cell structure with no long term emissions. The flexibility ensures a permanent seal because the material moves with building components.

In one quick and simple application, this material delivers predictable levels of airtightness, while potentially reducing the number of trades, materials, and costs required to achieve an equivalent result with alternative insulation air/sealing products.

Icynene® is sprayed into an open cavity in liquid form which then expands 100 times its initial volume in seconds, adhering to all surfaces and filling all penetrations in the building envelope. This process ensures proper insulation without altering construction techniques or trades sequencing.

Call Foam Worx Insulators LLC and talk to us about how Icynene® can help save you money on your next project!

Case Study

Installing HVAC in a Conditioned Space with the Help of Icynene®

Leaky ductwork in vented attics can be a huge energy waste. Robert Black, owner of Access of Sarasota, has come up with a great recommendation for his clients.

Instead of putting the insulation in the attic floor, his company puts it up against the roof. "It gives you a much more energy-efficient shell," says Black. Icynene® foam insulation completely seals everything, and gives more room to run ductwork on the attic floor.

"We sell energy efficiency to people who plan on living in their homes for the rest of their lives," says Black. "Putting the ducts in conditioned space and insulating the attic roofline helps cut our customers' energy costs."

Investing in Energy Savings

• Reduced HVAC requirements

"By insulating the attic and knee walls, we were able to downsize the mechanical unit by half a ton," Black says.

Continued on back.

Case Study cont.

• Saved money on duct board

“We also saved about \$120 on the cost of duct board by using 1” instead of 1-1/2” because the ducts were in conditioned space.”

• Lowered energy costs by 20-30% allowing for payback of initial Icynene® investment

“The cost to spray Icynene® along the attic roofline of this home will be made up over time. Insulating the attic roofline and installing the ductwork in conditioned space will reduce total energy cost. It will provide added protection against water infiltration from hurricanes as well.”

Improving Durability & Comfort

• Sealed soffit vents for protection against high winds and moisture ingress

“Because we insulated below the roof deck, we didn’t use vented soffits. After the last two years of hurricanes in Florida, we found out that a lot of wind-driven rain was getting in through the soffit areas.”

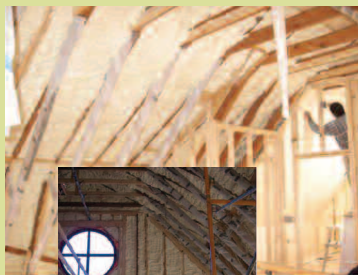
• Minimized condensation on ductwork and related problems like mold

“It also keeps the hot, humid air in the summer from coming in contact with the ductwork or other cool parts of the building, which can cause condensation and then mold.”

• More comfortable temperature in the attic

“Instead of having attic temperatures in the 130-degree range, the attic temperature will be in the 80-90 degree range.”

For more details on this Case Study, visit www.icynene.com or see Foam Worx Insulators LLC.



The Adams Residence, Sanford, NC

Converting a 100 year-old barn to a family residence is a perfect challenge for Icynene®. The framing and design requirements in this building made it nearly impossible to insulate properly with conventional methods. Icynene’s® superior air-sealing qualities were crucial for converting this drafty barn to a cozy home.



Energy Star Home, Chapel Hill, NC

This 5,700 sqf. residence exceeded Energy Star performance requirements in a blower door test by 20 times. On the same project, a subcontractor installed cross-members to the garage ceiling, pictured below, two weeks too soon, and Foam Worx was still able to insulate with Icynene®.

\$100 Rebate

On your purchase of Icynene® Insulation installed by FOAM WORX INSULATORS

Valid through October 31, 2008. Limit 1 rebate per company.



FOAM WORX
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Creating A Healthier, Quieter Home

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The Ronald McDonald House of Chapel Hill, NC

In this environment where chronically ill patients reside during their medical care, drafts, dust, mold and deteriorating fiberglass are not welcome. In an attic with difficult access, and several different wings of varying ages, Foam Worx Insulators sprayed Icynene® to stabilize the attic environment and bring the upstairs guest rooms back into the comfort zone.

INSULATION TRENDS



Inside:

DOE Challenge to Homebuilders
How to Control the Building Envelope
A Case Study That Will Help You Sell And More!

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