



Building Envelope

- 2756 Square Foot Residence





FOR IMMEDIATE RELEASE

FOR MORE INFORMATION CALL:
Thomas Sprouse 336-778-8411
Mobile: 336-816-2850

Triad Home Gets ☆☆☆☆+ Energy Rating EPA Energy Star Home - Highest Rating on the East Coast

Ken and Dolly Eller of 335 Tippy Lane, Clemmons, NC, wanted an energy efficient home for retirement. What they built was a house that received, a 5 Star Plus, 92.6 energy efficiency rating. Michael Guy, ADONAI Building Science, did the rating, said this is the highest rating he has seen on the east coast. The Home Energy Rating Service (HERS) is a means of evaluating a residence for energy efficiency. In order to meet the Energy star Program requirements the HERS score must exceed the NC Building Code by at least 30%. The Eller's score exceeds the NC code by more than 50%. A rater must be approved and service is supported by the Environmental Protection Agency and the Department of Energy. This process is required for certification of homes meeting the EPA/DOE Energy Star Program.

The house uses the newest energy efficient building methods to manage the 2756 square foot 3 bedroom living space. Insulated Component Structures of Mocksville, NC provided structural insulated wall panels that have an insulation value of R-30. The Ellers installed a direct ground source heat pump for water heating and warming or cooling the house. The structural-thermal envelope is so efficient that outside air must be supplied. Their ventilation system, that provides a supply of fresh air, is 70% efficient and the appliances are energy star rated. The test consists of using the blower test method. ADONAI estimated that the annual energy cost would be \$1266. An additional benefit of an Energy Star house is that lending institutions provide loans with a higher loan to value.

Raynor Investments of Lexington was the builder. He has built another house in the Lexington area and an energy efficient classroom at Davie County High School. All three of these projects used structural insulated panels.

To Call ICS (336)940-2575



Building Envelope

- Winston-Salem Housing Authority





Andy Hansen

From: "Brian Coble" <Bcoble@advancedenergy.org>
To: <ahansen@ics-sips.com>
Sent: Thursday, January 22, 2004 1:11 PM
Subject: Blower Door Report

Hi Andy,

I think this is the info. you needed. Let me know if you need anything else.

310 Floyd Barrier Drive
1248 Sq. Ft. 3 Bedroom
BD Target = 1,254 CFM50
BD Actual = 920 CFM50
Heating and Cooling Guaranteed at \$25 per month

314 Floyd Barrier Drive
1248 Sq. Ft. 3 Bedroom
BD Target = 1,254 CFM50
BD Actual = 874 CFM50
Heating and Cooling Guaranteed at \$25 per month

The guarantee is an annual average. In other words, these homes are guaranteed at \$294 per year, but we divide that by 12 so its easier for people to relate to.

Thanks,

Brian Coble
Advanced Energy
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Suite 2100
Raleigh, NC 27606

To Call ICS (336)940-2575