

# Verification Report - National Green Building Standard

Showcase Home LLC  
6348 Midtowne Lane, Huntsville, AL 35806  
MidTowne On The Park  
This is a Single Family Home



## TARGET LEVEL FOR CERTIFICATION: SILVER

Chapter	Topic	TOTAL Designer Report Claimed	Points Awarded @ ROUGH	Points Awarded @ FINAL	TOTAL Points Awarded	GREEN LEVEL:	BRONZE	SILVER	GOLD	EMERALD	Level Achieved For This Section
5	Lot Design	68	50	18	68	Points needed for:	39	66	93	119	Silver
6	Resource Efficiency	86	40	46	86	Points needed for:	45	79	113	146	Silver
7	Energy Efficiency	92	17	95	112	Points needed for:	30	60	100	120	Gold
8	Water Efficiency	36	0	36	36	Points needed for:	14	26	41	60	Silver
9	Indoor Quality	132	35	79	114	Points needed for:	36	65	100	140	Gold
10	Operation	14	0	24	24	Points needed for:	8	10	11	12	Emerald
<b>TOTAL</b>						GREEN LEVEL:	BRONZE	SILVER	GOLD	EMERALD	<b>OVERALL Level Achieved</b>
						Points needed for:	222	406	558	697	<b>SILVER</b>

## "Energy Star" Certification Report

The **2010 Showcase Home** is certified for energy efficiency through the "Energy Star" Program.

The "Energy Star" certification process begins with the building plan and H.E.R.S., (Home Evaluation Rating Software). HERS provides a means by which a plan of energy efficiency can be developed through material comparisons. This method of modeling shows the **2010 Showcase Home** to exceed the International Energy Code Model Home by 30% with electric costs estimated to average \$170.00 per month at current utility rates.

"Energy Star" certified homes are tested to determine the amount of air that infiltrates and exfiltrates the structure. The duct system of the heating/cooling system is also tested in order to insure minimal leakage of conditioned air outside the building envelope.

The "Energy Star" Program was developed by the EPA, and the **Showcase Home** was certified through Huntsville Utilities. Feel free to call their Energy Management Department at 256-535-1225 for energy related questions regarding the **2010 Showcase Home** or the "Energy Star" Program in general.

### Energy saving features built into the 2010 Showcase Home:

**WALLS:** 3 1/2" of open cell Icynene spray foam was applied to outside walls in order to reduce conductive heat transfer and the air infiltration that produces convective heat transfer. The R-value of the insulation sprayed into the wall cavity is in the amount of 13.

**CEILING:** 6" of Icynene open cell foam has been applied to the rafters and decking of the roof. This insulation method encloses the

HVAC system in conditioned space and reduces the effect of leakage from the air ducts. As is the case with the outside walls, Icynene foam reduces both convective and conductive heat transfer. The R value of the foam insulation applied was in the amount of 22.

**HEATING & COOLING EQUIPMENT:** High efficiency heat pumps are used to heat and cool the **Showcase Home**. This efficiency exceeds "Energy Star" standards with an overall SEER rating of 17.5 and a 9.2 HSPF

**FLOOR:** The foundation walls of the crawl space are sealed and insulated with 1 1/2" of closed cell Icynene foam. Closed cell foam minimally absorbs moisture and for this reason is commonly used within crawl spaces. The R value of the applied foundation wall insulation totals 10.2. As is the case within the attic, enclosing the crawl space area reduces the effect of air and heat loss from the HVAC duct system.

**WATER HEATING:** A tank-less natural gas water heater eliminates the loss of heat that is seen with standard tanks and ensures a plentiful hot water supply throughout the house.

**WINDOWS:** The low maintenance, argon filled, low-e windows used in the **Showcase Home** exceed "Energy Star" standards with a U value of 0.35 and a SHGC value of 0.29



## ACTION REPORT

<b>Date:</b>	September 16, 2010	<b>Rating No:</b>	1143531
<b>Building Name:</b>	6348 Midtowne Ln FINAL	<b>Rating Org:</b>	Huntsville Utilities
<b>Owner's Name:</b>	Showcase Home LLC	<b>Phone No:</b>	256 535 1225
<b>Property:</b>	6348 Midtowne Ln	<b>Rater's Name:</b>	Larry Denman
<b>Address:</b>	Huntsville, AL 35806	<b>Rater's No:</b>	4728
<b>Builder's Name:</b>	Action Builders Inc	<b>Rating Type:</b>	Confirmed Rating
<b>Weather Site:</b>	Huntsville, AL	<b>Rating Date:</b>	09/14/2010
<b>File Name:</b>	6348 Midtowne Lane - Savannah 3300 - FINAL KB.blg		