Project Spotlight

Builder: Monty Anderson Construction Group
Home Address: 3251 Great Oaks Boulevard
Kissimmee, FL
Certified: 2-12-13
Score: 164
Level: Gold
Version: 9
FGBC Certifying Agent: Scott Grieves, sgrieves@kua.com
BENEFITS OF GREEN CERTIFIED HOMES

- Benefits to the home owner/buyer:
- Benefits to the home builder:
- Benefits to the Community and Sustainability:

- Enhances the profitability of resale. Gain valuable promotion and advertising.
- Conservation of energy, gas, and water resources.

- Enhances the affordability of operation and differentiate your home from the competition. Management of waste and storm water.

- Enhances the indoor air quality of the home. Homebuyers link green home features with quality.
- Provide / maintain affordable housing.

- Increases the durability of the home. Increase customer referrals. Maintain affordable and reliable energy sources.

- Provides for greater access to mortgage money adding to the marketing value of your homes. Reduced carbon foot print protecting the environment.

- Reduce builder callbacks, and increased EEM energy efficiency measures.
**BUILDER PROFILE**

Monty Anderson Construction Group

**FGBC Certified Agent:**

Scott Grieves, Kissimmee Utility Authority

**Project Data:**

- Name: Residence
- Layout: 4 bedrooms, 4 baths
- Conditioned Space: 4,452 ft²
- Completion: 2012

**Modeled Cost Data:**

**New standard home, same size/location:**

- Projected annual utility costs: $3,512
- Confirmed annual utility costs: $1,971
This 4,452-ft 2-story custom home with four bedrooms and baths screams “BIG” until you hear the “small-footprint” in the energy- and water-efficiency details.

The home scores a RESNET HERS Index 42, which is well below the HERS Index 100 for a new standard home built to the Florida Building Code. With its geothermal water to air-conditioning system, this home’s energy use (on average) will be well below that of a smaller 1500-ft 2 story home in the area.

From the start, Scott Grieves (KUA Certified Energy Auditor) worked with the homeowner, HERS rater airEnalasys, builder, and the mechanical contractor to develop a package of measures that met the energy-efficiency, comfort, and durability requirements of the Florida Green Building Coalition’s “Florida Green Home Standard, while taking into account the homeowner’s cost constraints.

“The FGBC ‘Florida Green Home Standard’ is performance driven and is the only green certification standard based on climate-specific criteria for Florida’s hot-humid environment and natural disasters” said Grieves.

The home also meets the requirements of Florida Water Star, Energy Star®, and the 2012 International Energy Conservation Code (IECC) envelope insulation levels. Final blower door tests confirmed a tight envelope at 1.24 ACH 50. In addition, the home was designed to withstand 140 mph hurricane winds.

It was the first home in Kissimmee certified by the Florida Green Building Coalition.
E2.18
Insulate all Hot Water Pipes

Black foam insulation around pipes

H3.8
Protect Ducts

Clear plastic wrap covering duct vent openings
• **Walls:** ICF exterior walls require an estimated 44% less energy to heat and 32% less energy to cool

• **Roof:** Med-colored seamless metal roof with R-30 spray foam at the roof deck for a conditioned attic

• **Windows:** ENERGY STAR qualified low-E, double-pane, vinyl, U-factor = .27, solar heat gain coefficient = .24

• **Air Sealing:** 1.24 ACH 50; 987 CFM 50

• **Ventilation:** duct with an electronic damper regulated by a thermostats to bring in fresh air (positive-pressure supply ventilation), plus zone control.
• **Heating/Cooling:** One main 5-ton Geo-thermal air-to-water Air-conditioning system (EER-25+)

• **Ducts:** Within the conditioned attic

• **Air Handler:** Within home conditioned space, and all ducts seal with mastic

• **Water Heating:** Geo-thermal water heating plus two tankless propane fired water heaters

• **Lighting:** LED bulbs in IC-rated recessed cans and passive solar day-lighting

• **Water Conservation:** Low water usage for all toilets 1.6, faucets 2.5 and drought tolerant landscaping

• **Surge protection:** With a kWh recorder
RESNET, (BERS) Blower Door Test
Completed