G. W. Robinson Builders, Inc.
Gainesville, FL

Energy Efficiency Features
• Home Energy Index (HERS) Ranging From 68 To 63 (or lower)
  (significantly better than Energy Star which is 85 or below)
• Double Pane, Low-e Vinyl Frame Windows
• R-13 Cellulose Wall Insulation
• R-30 Ceiling Insulation With Radiant Barrier
• ENERGY STAR® Certified
  Including Thermal Bypass Checklist Compliance
• Extensive Use of Compact Fluorescent Bulbs
• ¾” Foam Insulation On All Hot Water Pipes
• High Efficiency (83%) Tankless Gas Water Heater
• Manual J Sized Heating and Cooling System
• High Efficiency (95%) Sealed Combustion Gas Furnace
• SEER 14 Air Conditioner (transitioning to SEER 15 in 2007)
• Manual D Sized Duct System, Sealed With Mastic at Joints
• Advanced framing to improve insulation coverage and reduce waste

Indoor Air Quality Features
• Outside Air “Run-time” Ventilation System
  • When furnace or air conditioner is running, creating beneficial positive pressure
    in the house to minimize intrusion of outside humidity and dust
  • Filtered outside air is mixed with house air in return plenum
  • Passive System - no moving parts to maintain
  • Can be disabled if necessary (such as when there’s a fire in the area)
• Ducted exhaust fans in kitchen and bath rooms to remove humid air
• Duct System Air Tightness Tested
• Air Handler in Conditioned Space (away from auto exhaust fumes in garage)
• Air Sealing to Reduce Infiltration (outside air, pollen, dust, soil gases, etc)

Systems Engineering Protocol by Florida H.E.R.O
• Simulation analysis to identify cost effective energy efficiency package
• Each design evaluated to identify opportunities for improvements in indoor air quality, durability, and comfort & to ensure specifications are correctly indicated
• ACCA Manual J load calculation to determine heating/cooling equipment size
• ACCA Manual D calculations to determine duct system sizes
• Scope of work developed for the mechanical contractor
• Each home performance tested and rated using the Home Energy Rating System

G. W. Robinson Communities
CobbleField
Build out 265 homes
262 completed

Turnberry Lake
Build out 186 homes
76 completed

Garison Way
Build out 110 homes
32 completed

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6208 NW 43rd Street, Gainesville, FL 32653
(352) 373-1724
www.gwrobinson.com

Florida H.E.R.O.
15220 N.W. 5th Avenue, Newberry, FL 32669
352-472-5661, 888-711-2060 Toll Free
http://www.floridahero.com/

Technical assistance:
Building America Industrialized Housing Partnership www.baihp.org
at the Florida Solar Energy Center/UCF www.fsec.ucf.edu
A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

Research and Development of Buildings

Our nation’s buildings consume more energy than any other sector of the U.S. economy, including transportation and industry. Fortunately, the opportunities to reduce building energy use—and the associated environmental impacts—are significant.

DOE’s Building Technologies Program works to improve the energy efficiency of our nation’s buildings through innovative new technologies and better building practices. The program focuses on two key areas:

- **Emerging Technologies**
  Research and development of the next generation of energy-efficient components, materials, and equipment

- **Technology Integration**
  Integration of new technologies with innovative building methods to optimize building performance and savings

For more information contact
EEER Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov

Visit our Web sites at:


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Consortium for Advanced Residential Buildings (CARB)
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Industrialized Housing Partnership (IHP)
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Produced for the U.S. Department of Energy (DOE) by Florida Solar Energy Center and the National Renewable Energy Laboratory.
April 2007