

Tommy Williams Homes Gainesville, FL

Energy Efficiency Features

- Home Energy Index (HERS) to 72 or below (significantly better than Energy Star which is 85 or below)
- Double Pane, Low-e Vinyl Frame Windows
- R-15 Fiberglass "Spider" Wall Insulation
- R-30 Ceiling Insulation
- ENERGY STAR® Certified Including Thermal Bypass Checklist Compliance
- Extensive Use of Compact Fluorescent Bulbs
- Manual J Sized Heating and Cooling System
- High Efficiency Heat Pump (HSPF 9, SEER 15.25)
- Manual D Sized Duct System, Sealed With Mastic At Joints
- Advanced framing for improved insulation coverage



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

Tommy Williams Homes

PO Box 368, Archer, FL 32618
 (352) 495-3006

<http://www.tommywilliamshomes.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/>

Tommy Williams Communities

Longleaf Village

Build out: 275

Completed: 120

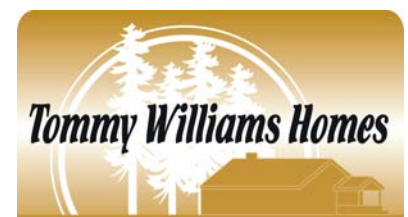
(Additional 275 lots allocated to a non-Building America builder)

Belmont

Build out: 136 homes

Completed: 66

(Additional 55 lots allocated to a non-Building America builder)



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
EERE Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

An electronic copy of this publication is available on the Building America Web site at www.buildingamerica.gov

Visit our Web sites at:

www.buildingamerica.gov

www.pathnet.org

www.energystar.gov



Building America Program

George S. James • New Construction • 202-586-9472 • fax: 202-586-8134 • e-mail: George.James@ee.doe.gov
Terry Logee • Existing Homes • 202-586-1689 • fax: 202-586-4617 • e-mail: terry.logee@ee.doe.gov
Lew Pratsch • Integrated Onsite Power • 202-586-1512 • fax: 202-586-8185 • e-mail: Lew.Pratsch@hq.doe.gov
Building America Program • Office of Building Technologies, EE-2J • U.S. Department of Energy • 1000 Independence Avenue, S.W. • Washington, D.C. 20585-0121 • www.buildingamerica.gov

Building Industry Research Alliance (BIRA)

Robert Hammon • ConSol • 7407 Tam O'Shanter Drive #200 • Stockton, CA 95210-3370 • 209-473-5000 • fax: 209-474-0817 • e-mail: Rob@consol.ws • www.bira.ws

Building Science Consortium (BSC)

Betsy Pettit • Building Science Consortium (BSC) • 70 Main Street • Westford, MA 01886 • 978-589-5100 • fax: 978-589-5103 • e-mail: Betsy@buildingscience.com • www.buildingscience.com

Consortium for Advanced Residential Buildings (CARB)

Steven Winter • Steven Winter Associates, Inc. • 50 Washington Street • Norwalk, CT 06854 • 203-857-0200 • fax: 203-852-0741 • e-mail: swinter@swinter.com • www.carb-swa.com

Davis Energy Group

David Springer • Davis Energy Group • 123 C Street • Davis, CA 95616 • 530-753-1100 • fax: 530-753-4125 • e-mail: springer@davisenergy.com • deg@davisenergy.com • www.davisenergy.com/index.html

IBACOS Consortium

Brad Oberg • IBACOS Consortium • 2214 Liberty Avenue • Pittsburgh, PA 15222 • 412-765-3664 • fax: 412-765-3738 • e-mail: boberg@ibacos.com • www.ibacos.com

Industrialized Housing Partnership (IHP)

Subrato Chandra • Florida Solar Energy Center • 1679 Clearlake Road • Cocoa, FL 32922 • 321-638-1412 • fax: 321-638-1439 • e-mail: subrato@fsec.ucf.edu • www.baihp.org • IHP and team member Florida H.E.R.O. provided technical and on-site support for Tommy Williams Homes

National Renewable Energy Laboratory

Ren Anderson • 1617 Cole Boulevard, MS-2722 • Golden, CO 80401 • 303-384-7433 • fax: 303-384-7540 • e-mail: ren_anderson@nrel.gov • www.nrel.gov

Tim Merrigan • 1617 Cole Boulevard, MS-2722 • Golden, CO 80401 • 303-384-7349 • fax: 303-384-7540 • e-mail: tim_merrigan@nrel.gov • www.nrel.gov

Oak Ridge National Laboratory

Pat M. Love • P.O. Box 2008 • One Bethel Valley Road • Oak Ridge, TN 37831 • 865-574-4346 • fax: 865-574-9331 • e-mail: lovepm@ornl.gov • www.ornl.gov

Pacific Northwest National Laboratory

Michael C. Baechler • 620 Southwest 5th, Suite 810 • Portland, OR 97204 • 503-417-7553 • fax: 503-417-2175 • e-mail: michael.baechler@pnl.gov • www.pnl.gov

Tommy Williams Homes

Melissa Higgins • PO Box 368 • Archer, FL 32618 • 352-495-3006 • fax: 352-495-3212 • e-mail: melissaom@bellsouth.net • www.TommyWilliamsHomes.com

Produced for the U.S. Department of Energy (DOE) by Florida Solar Energy Center and the National Renewable Energy Laboratory.
April 2007

Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable