



MADERA MODEL COMMUNITY

ECO - PROJECT R3

Model Energy Community

Completed:
September 2003

Project Address:
SW 21st Terrace
Gainesville, Florida

Design Team:
Dr. Pierce Jones
Florida Energy Extension
Service (FEES)
University of Florida
Gainesville, FL

Bill Zoller
Steven Winter Associates, Inc.
DOE Building America Team
Norwalk, CT

Contractor:
Juddy Carter
Carter Construction
Gainesville, FL

ECO-BLOCK, LLC

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- Model Green Community • Non Toxic Termite Protection
- Outstanding Home Energy Rating Scores - HERS 95.7



The MADERA "green" development is a cooperative effort between the University of Florida, developer Greentrust, LLC, custom homebuilder Carter Construction, and Steven Winter Associates, a DOE Building America Team. This 88-home community serves as model for green and profitable construction practices. The residents will also contribute through eco-friendly practices in the management of their homes, yards, and neighborhood.

The knowledge obtained during the construction of this model will be incorporated into training modules presented to building professionals throughout the State of Florida.

ECO-BLOCK was chosen primarily for energy efficiency. This insulating concrete form system provides a virtual air/vapor barrier along with R-22 thermal insulation. According to Steven Winter Associates: "thermal mass and airtightness can increase the effective R value up to 100% depending on the building location." Dr. Jones agreed: "The insulating effect is better, if not double, than that in normal homes."

These extremely strong concrete walls are able to withstand winds up to 250 mph and also offer a 3 hr fire protection. Added benefits is the sound suppression and the versatility in design.



For termite protection, Dr. Jones chose a non-chemical barrier treatment called Termimesh. This solution provides long term protection and no health hazard.

The success of this project is evidenced by the strong sales numbers. Juddy Carter is not surprised. His customers get not only Energy Star homes with healthy house features, but can also benefit from a financing program developed specifically for Madera house owners.

ECO-BLOCK - building communities.