

"Two peas in one green pod"

Florida's Green Building Program and Building Energy Rating System

Eric Martin Florida Solar Energy Center March 4, 2002





Florida Building Energy Rating System

- ∠ Instituted in 1995.
- Approximately 1500 homes rated.
- Approximately 550 certified raters operating throughout the state (not all currently active).





Florida Green Building Coalition

≤ 501C-3 non-profit incorporated in May of 2000.

Governed by a Board of Directors and populated by individual and organizational members that contribute to standard development.

Builders Architects Landscape Architects Realtors Home Builder Associations Product Suppliers Utilities Researchers Energy and Green Building Consultants City and County Governments State and Local Regulatory Agencies Universities Public Interest





Florida Green Building Coalition

Green Homes



Green Commercial Buildings



Green Developments



Green Communities & Municipalities







Florida Green Home Standard

- ✓ Released in July 2001.
- ✓ Point based system.
- Both new and existing homes can qualify.
- Currently 2 homes certified but many under construction and in planning stages.





Green Building Priorities / Opportunities for Florida

- Energy Conservation.
- **Water Conservation / Landscape Design.**
- Proper Site Treatment.
- Indoor Air Quality
- Resource Efficient Materials / Minimize Construction Waste.







FGBC Philosophy: Don't reinvent the wheel

- Avoid confusion and competition in the marketplace.
- Create partners thereby increasing promotion and advertising.
- **Facilitate qualification for multiple designations.**
- Freedom to embellish existing standards.
- Florida Yards and Neighborhoods
 Florida Windstorm Underwriters Association
 Florida Building Code



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🐓 Bookmarks 🙏 Location: http://floridagreenbuilding.org/Standards/greenhome.pdf 📃 🎲 What's Rela		
	Swimming pool/spa free house	Home site does not border natural water body
	Category 1: Energy (Building Envelope/Systems) Points Achieved Possible Criteria Code/Ratings 100 Meet Florida Energy Code (HERS=80) 5-50 Confirmed Florida HERS Rating (attach) 5 pts for every HERS pt above 80 HERS rated homes are given credit for features including: • Efficient a/c and heat • Solar or efficient water heating • Proper orientation • Ducts sealed or in conditioned space • Efficient windows • Insulation quantity and type • Radiant barrier • Envelope sealing For complete explanation of HERS Rating, see Ref. Guide Points Points Achieved Possible Criteria 1 Adequate return air transfer paths 1 1 1 Document proper sizing of HVAC system 1 1 1 Adequate return air transfer paths 1 1 1 Adequate return air transfer paths 1 1 2 1 2 1 3 1 3 1 4 House s	1 Energy-efficient oven/range
		<i>Florída Green Building Coalition, Inc</i> "To provide a Florida green building designation resulting in environmental and economic benefits."
	Total points for Category 1 (100 min/150 max	k) floridagreenbuilding.org 3
125%	3 of 8 • • • • • • • • • • • • • • • •	
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Raters Can Benefit from the Green Building Program

- Networking within the coalition.
- Learn to use the program as a tool to make their service even more invaluable.
- Program can advance the function of a rating to the next step:

From: "A rating professional can determine whether you qualify for a particular designation."

To: "A rating professional can help you assess and achieve your goals."





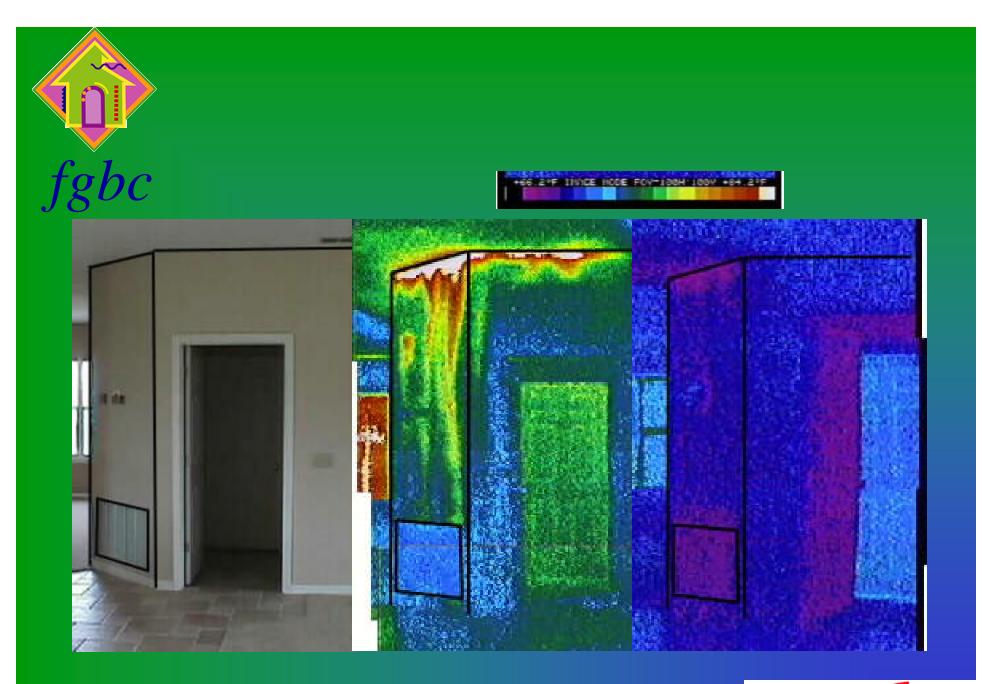
Feedback from BAHIP

Builder goals – Build homes that are:

- *∝* Healthy
- Z Durable / Reduce Callbacks / Low Maintenance
- Affordable / Energy Efficient / Comfortable
- Profitable / Marketable

Accomplish goals by using a systems approach that extends the system boundaries beyond the building envelope, which is where an Energy Rating generally stops.









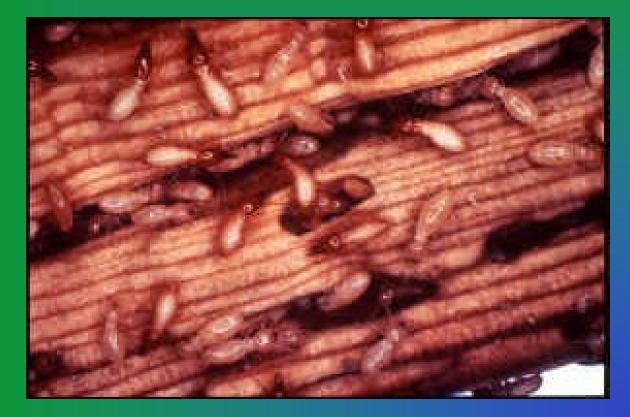
















The Green Building Program Can Benefit from Raters

- Certified raters are ideal candidates for Certifying Agents.
- Raters are already working with builders and can expose them to the green building program.
- Raters can provide valuable input to the process of standard development to make the program attractive, user friendly, and marketable.





Thank You

www.floridagreenbuilding.org www.fsec.ucf.edu/ratings www.baihp.org

