



fgbc

Florida Green Building Coalition, Inc.

“To provide a Florida green building designation resulting in environmental and economic benefits.”

Florida Green Home Standard Checklist

Schedule A, Version 4.0

January 1, 2005– December 31, 2005

NEW HOME REQUIREMENTS: Select measures to obtain the minimum number of points listed for each category. The sum of the minimums totals 180 points. Accumulate at least an additional 20 points of your choice to qualify for the program. If any category minimums cannot be achieved, point deficiencies may be made up by adding the deficiency to the total minimum score of 200. (Example: Applicant elects to achieve only 10 points from a category with a minimum of 15. Applicant may still qualify if total points equal or exceed 200 + [15-10] = 205.) Note that category maximums cannot be exceeded at any time.

EXISTING HOME REQUIREMENTS: Same as for **NEW HOME** except no minimum point requirement in the Materials and Site categories.

PREREQUISITES: At least one measure from each of the following Waterfront Considerations and Swimming Pool/Spa Prerequisite lists must be incorporated:

Prerequisite 1: Swimming Pool / Spa

- Sanitation system that reduces/eliminates chlorine use (salt water, ionization, etc.)
- Pool cover
- Solar pool heating system
- Efficient pool pumping
- Swimming pool/spa free house

Prerequisite 2: Waterfront Considerations

- Use of native aquatic vegetation in shoreline area
- Low maintenance plants placed between lawn and shoreline; no turf adjacent to water
- Use of terraces, swales, or berms to slow storm water movement into water body
- Home site does not border natural water body

Category 1: Energy (Building Envelope/Systems)

Points Achieved	Points Possible	Criteria
Code/Ratings		
<u> 100 </u>	100	Meet Florida Energy Code (HERS=82)
<u> 65 </u>	5-50	Confirmed Florida HERS Rating (attach) 5 pts for every HERS pt above 82
HERS rated homes are given credit for features including:		
<i>Efficient a/c and heat</i>		<i>Solar or efficient water heating</i>
<i>Proper orientation</i>		<i>Ducts sealed or in conditioned space</i>
<i>Efficient windows</i>		<i>Insulation quantity and type</i>
<i>Radiant barrier</i>		<i>Envelope sealing</i>
<i>For complete explanation of HERS Rating, see Ref. Guide</i>		

- Design**
- 1 1 Document proper sizing of HVAC system
 - 1 Cross vent and ceiling fans code credits
 - 1 1 Min 100ft² roofed porch min 3 sides open
 - 1 Passive solar space heat system
 - 1 Passive solar day-lighting
 - 1-4 House shaded on east and west by trees
 - 1 Washer and dryer outside of cond space
 - 1 1 Ductwork joints sealed with mastic
 - 1 1 Floor joist perimeter insulated and sealed
 - 1 Light colored exterior walls
 - 1 1 South roof area for future solar use
 - 1 Pre-plumb for solar hot water
 - 1 Centrally locate water heater
 - 1 Insulate all hot water pipes
 - 1 Efficient envelope volume
 - 1 1 Dwelling unit attached, zero lot-line, row house

 150 **Total points for Category 1 (120 min/150 max)**

Category 2: Energy (Appliances, Lights, Amenities)

Points Achieved	Points Possible	Criteria
Energy-efficient appliances/amenities		
<u> </u>	2	Energy Star [®] refrigerator
<u> 3 </u>	3	Energy Star [®] clothes washer (water factor < 9.5)
<u> 1 </u>	1	Energy Star [®] dishwasher
<u> 1 </u>	1	Energy-efficient clothes dryer
<u> 1 </u>	1	Energy-efficient oven/range
<u> </u>	1	Buyer given info if none installed
<u> </u>	1	Efficient well pumping

- Energy-efficient lighting**
- 1 1-10 Indoor lights are fluorescent or fiber optic
 - 2 2 Recessed, sealed IC fixtures
 - 2 Max installed lighting wattage < 0.5 W/ft²
 - 1-2 Light colored interior walls, ceilings, carpet/floors
 - 1 Single bulb fixtures in bathrooms
 - 2 Outdoor lights are fluorescent/elec ballast, pv, low voltage, or have motion detector

 9 **Total points for Category 2 (10 min/25 max)**

Name of HERS Rater: FSEC/BAIHP
(if HERS points included)

Certifying Agent Category 1: FSEC/BAIHP

Certifying Agent Category 2: FSEC/BAIHP

Category 3: Water

Points Achieved	Points Possible	Criteria	(Plumbing Integrity Test Date <u> </u> _code_)
<i>Fixtures</i>			
_____	2	Hot water recirculation system	
<u> 1 </u>	1	Low-flow fixtures	
<u> 1 </u>	1	Faucet aerators	
<u> 1 </u>	1	Faucets do not drip upon occupancy	
_____	2	All showers equipped with 1 showerhead	
<u> 1 </u>	1	Shut-off valves to each toilet and sink	
_____	2	No garbage disposal	
_____	2	Ultra-low-flow toilets	
_____	4	Waterless toilet	
<i>Greywater reuse</i>			
_____	3	System installed	
_____	1	System rough in	
_____	1	Air conditioner condensate re-use	
<i>Rainwater harvesting</i>			
_____	2	System installed	
_____	1	System rough in	
<i>Reclaimed water reuse</i>			
_____	2	For irrigation	
_____	2	Meter on reclaimed irrigation system	
_____	2	Volume based pricing arrangement	
_____	2	For toilet flushing	
<i>Installed landscape</i>			
<u> 2 </u>	2	Drought tolerant turf in sunny areas only, no turf in densely shaded areas	
<u> 2 </u>	1-3	50%, 80%, 100% of plants/trees from local drought tolerant list	
<u> 2 </u>	2	All plants/trees selected to be compatible with local environment/microclimate	
<u> 3 </u>	3	Turf less than 50% of landscape	
<u> 2 </u>	2	Evenly shaped turf areas, no turf on berms	
_____	2	Plan for edible landscape/food garden	
<u> 2 </u>	2	Plants with similar maintenance requirements grouped together	
<u> 2 </u>	2	Mulch applied 3-4 inches deep around plants	
<u> 2 </u>	2	Use of alternative mulches	
<u> 2 </u>	2	Soil amendment where necessary	
<i>Installed Irrigation</i>			
_____	1	> 10,000 sqft irrigated to FGBC Standards	
_____	2	7,500 – 9,999 sqft irrigated to FGBC Standards	
_____	3	5,000 – 7,499 sqft irrigated to FGBC Standards	
<u> 4 </u>	4	2,500 – 4,999 sqft irrigated to FGBC Standards	
_____	5	1 – 2,499 sqft irrigated to FGBC Standards	
_____	7	Landscape exists primarily on rainfall; no permanent irrigation system	
<u> 27 </u>	<i>Total points for Category 3 (15 min/40 max)</i>		

Certifying Agent Category 3: FSEC/BAIHP

Irrigation System Auditor: Donald Wishart
(if Installed Irrigation points selected)

Category 4: Site

Points Achieved	Points Possible	Criteria
<i>Lot Choice</i>		
<u> 2 </u>	2	Build on an infill site
_____	4	Conscious choice to build on a lot with no trees
<u> 2 </u>	2	Site located within ¼ mile walk to mass transit
_____	2	Site located in TND or small lot cluster development
_____	2	Brownfield site
<i>Native tree and plant preservation</i>		
<u> 2 </u>	2	No invasive exotic species
_____	2	Develop a tree/plant preservation plan
_____	2	Maximize tree survivability
_____	2	Replant or donate removed vegetation
_____	1-9	Preserve or create wildlife habitat/shelter
<i>On-site use of cleared materials</i>		
_____	2	Mill cleared trees
_____	1	Reuse cleared material for mulch/landscape
<i>Erosion control/topsoil preservation</i>		
_____	2	Develop an erosion control site plan
_____	1	Stabilize disturbed soil
_____	1	Stage disturbance
<u> 2 </u>	2	Control sediment runoff during construction
_____	1	Save and reuse any removed topsoil
<i>Drainage/retention</i>		
<u> 2 </u>	2	Onsite designated retention area
<u> 2 </u>	2	Direct filtered rooftop runoff to planted area(s)
<u> 2 </u>	1-4	Maintain pervious surface area
<u> 14 </u>	<i>Total points for Category 4 (10 min/30 max)</i>	
<i>Certifying Agent Category 4:</i> <u> </u> FSEC/BAIHP <u> </u>		
Category 5: Health		
Points Achieved	Points Possible	Criteria
<i>Combustion</i>		
<u> 3 </u>	3	Detached garage, carport, or no garage
_____	2	Attached garage with air barrier between garage and living space (including attic)
_____	1	Attached garage – exhaust fan on motion sensor and timer
<u> 1 </u>	1	Direct vent, sealed combustion fireplace w/ electronic ignition, or no fireplace present
<u> 2 </u>	1-2	No unsealed space or water heating combustion located inside the conditioned area - or electric.
_____	1	Carbon monoxide alarm

FY&N Professional:
(if points requiring FY&N verification included)

Category 5: Health, cont.

Points Achieved	Points Possible	Criteria
Moisture Control		
<u> 1 </u>	1	Drainage tile on and around top of footing
<u> 1 </u>	1	Drainage board for below grade walls
<u> </u>	1	Gravel bed beneath slab on grade floors
<u> 1 </u>	1	Seal slab penetrations
<u> </u>	1	Capillary break between foundation and framing
<u> 2 </u>	2	Central dehumidification system
<u> 1 </u>	1	No vapor barrier on inside of assemblies
Ventilation		
<u> 4 </u>	4	Whole house positive ventilation strategy
<u> </u>	1	Ventilation system rough-in
<u> </u>	1	Radon/soil gas vent system installed
<u> </u>	1	Floor drains sealed
<u> </u>	1	Radon test of home prior to occupancy
<u> </u>	1	High efficiency, low noise bathroom exhaust fans with timer or humidistat
<u> 1 </u>	1	Kitchen range hood vented to exterior
<u> 1 </u>	1	All applicable exhausts have backdraft damper
<u> 1 </u>	1	Laundry rooms inside conditioned spaces must have window or other make-up air source
<u> </u>	1	Whole house fan with insulated cover
<u> 1 </u>	1	No power roof vents
<u> </u>	2	Whole house filtration
<u> 1 </u>	1	Efficient HVAC filter
<u> 1 </u>	1	HVAC filter easily accessible
<u> </u>	1	Install screens on all windows and doors
<u> 1 </u>	1	Written plan for the location of exhaust and intake vents
Source Control (materials)		
<u> 1 </u>	1	No exposed urea-formaldehyde particleboard
<u> </u>	2	Zero VOC paints, stains, and finishes
<u> 1 </u>	1	Low VOC paints, stains, and finishes
<u> </u>	1	Low VOC sealants and adhesives
<u> 1 </u>	1	Minimize carpet use
<u> </u>	1	Healthy flooring
<u> </u>	1	Healthy insulation
<u> </u>	1	Protect ducts during construction
<u> 5 </u>	1-5	Minimize CCA treated lumber
<u> </u>	3	Integrated pest management
Cleanability		
<u> </u>	2	Central vacuum system
<u> </u>	1	Narrow grout lines
<u> </u>	1	Useable entry area
<u> 1 </u>	1	Low dust collecting window coverings
Universal Design		
<u> </u>	1	Barrier free entrance
<u> </u>	1-3	Universally designed living area
<u> 30 </u>		Total points for Category 5 (10 min/30 max)

Category 6: Materials

Points Achieved	Points Possible	Criteria
Structure		
<u> </u>	3	Resource efficient wall system with integral insulation
<u> 1 </u>	1-2	Engineered wood products for roof and/or floor
<u> 1 </u>	1	Recycled content roof material
<u> </u>	2-3	Certified sustainable lumber
<u> </u>	1	Engineered/alternative material for outdoor living
<u> </u>	1	Concrete with fly ash or blast furnace slag
<u> </u>	1	Recycled content siding or soffit material
Sub-Assembly, Partitions, Trim		
<u> </u>	1-2	Locally produced doors and/or windows
<u> </u>	1	Eco-friendly insulation
<u> </u>	1	Recycled content drywall
<u> </u>	1	Finger jointed or laminated products
<u> 1 </u>	1	Finger jointed trim
<u> </u>	1	Steel interior studs
Finishes		
<u> </u>	1	Eco-friendly flooring materials
<u> </u>	1	Eco-friendly ceiling materials
<u> </u>	1	Recycled content paint
<u> </u>	1	Recycled content air conditioner condenser pad
Durability		
<u> </u>	1	3 in 12 ≤ roof slope ≤ 6 in 12
<u> </u>	1	Large overhangs (eave and gable)
<u> </u>	1	Air admittance vents
<u> </u>	1	Wood frame house uses vented rain screen
<u> 1 </u>	1	Siding and exterior trim primed all sides
<u> 1 </u>	1	Window and door flashing
<u> 1 </u>	1	Plants/turf minimum of 2 ft. from foundation
<u> 1 </u>	1	Use armored/metal hoses from service to all fixtures/appliances
<u> </u>	1-2	Automatic in-home water sensors/shutoff system installed
<u> </u>	1	Access panel to each non-accessible plumbing fixture installed
<u> 1 </u>	1	User-friendly (lever style) clothes washer water shutoff valves
Waste Management		
<u> </u>	2	Develop construction and demolition waste management plan
<u> </u>	2-4	Implement job site waste management
<u> </u>	1-5	Plan and implement design related mechanisms
<u> </u>	1	Compost bin/built in collection of recycleables
<u> 8 </u>		Total points for Category 6 (10 min/45 max)

Certifying Agent Category 5: FSEC/BAIHP **Certifying Agent Category 6:** FSEC/BAIHP

Category 7: Disaster Mitigation

Points Achieved	Points Possible	Criteria
<u> 2 </u>	2	Hurricane (wind, rain, storm surge)
<u> 1 </u>	1-2	Safe room
<u> </u>	2	Inland site (sliding scale w/ dist from coast)
<u> </u>	2	Window and skylight protection or impact resistant type
<u> </u>	2	Attached garage and exterior door protection or impact resistant type
<u> </u>	2	Secondary water protection installed on roof
<u> </u>	2	Adhesive applied to roof sheathing
<u> 2 </u>	2	Gable end braced and vent protection installed
<u> </u>	2	Hip roof design
<u> </u>	2	Roof covering above and below flashing
<u> </u>	2	Exterior structures properly anchored

Flood (check all to receive 3 points)

- Finished floor level at least 12" above 100 yr. flood plain
- Bottom of slab at least 8" above the top of backfilled dirt, graded for proper drainage
- Grade slopes away from building on all sides
- Garage floor and driveway properly sloped to drain out. Garage floor at least 4" lower than living floor.

Wild fire (check all to receive 3 points)

- Fire resistant exterior wall cladding
- Fire resistant roof covering or sub-roof
- Fire resistant soffit and vent material

Termites (check all to receive 10 points, or construct Termite Resistant Structure)

The following co-requisites from other sections must be done:

- Seal slab penetrations (Health/Moisture Control)
- Plants/turf minimum of 2 ft. from foundation (Materials/Durability)
- Grade slopes away from building on all sides (Flood)

The following additional criteria must also be done:

- Notice of termite protection in place on site
- Monolithic poured slab
- No foam insulation extends below grade
- 8" or more clearance between building exterior cladding and final earth grade
- Rain gutters installed with leaf screens **or** meet "Large Overhangs" co-requisite under Durability
- If present, downspouts must discharge 3 or more feet from building
- If installed, irrigation/sprinkler system located 2 or more feet from building, water shown not to hit building while operating
- Condensate line(s) discharge 2 or more feet from building and are located 5 or more feet from dryer vent
- Damage replacement warranty issued and available for annual renewal

Category 7: Disaster Mitigation, cont.

<u> </u>	Termite Resistant Structure (check all to receive 10 points)
<input type="checkbox"/>	Chemical soil treatment avoided
<input type="checkbox"/>	Alternative Florida Building Code approved method of foundation protection employed
<input type="checkbox"/>	All wood lumber, sheet products, and exterior finish material are borate or ACQ treated
<input type="checkbox"/>	Alternatives to wood investigated and used

 5 **Total points for Category 7 (5 min/30 max)**

Certifying Agent Category 7: FSEC/BAHIP

Category 8: General

Points Achieved	Points Possible	Criteria
<u> </u>	0-50	Small house credit Conditioned house size
<u> </u>	0-20	Renewable power generation Reduce peak demand or annual load
<u> </u>	2	Reconfigurability Roof trusses designed for addition
<u> </u>	2	Unfinished rooms
<u> 2 </u>	2	Pre-wired for security, sound, automation

FGBC Certified Land Development

<u> </u>	4-14	House built within designated FGBC green land development
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Other

<u> 10 </u>	10	Remodeling of an existing structure
<u> 1 </u>	1-2	Home builder/designer/architect/landscape architect member of FGBC
<u> 2 </u>	2	Homeowner's manual given to homeowner
<u> </u>	2	Guaranteed energy bills
<u> 2 </u>	2	Cooling system uses non-hcfc refrigerant

 17 **Total points for Category 8 (0 min/50 max)**

Certifying Agent Category 8: FSEC/BAIHP

260

Total points achieved towards Florida Green Home Designation (200 min/400 max)

203

Total points to qualify for Florida Green Home Designation (200 min)

Please provide contact information for the homebuilder and/or homeowner using the following section. Please note that certain measures selected to qualify the home for the program must be verified by a Certifying Agent that has been accredited by FGBC, Inc., while others require that verification be submitted. A list of Certifying Agents is available at floridagreenbuilding.org or by contacting FGBC, Inc. After completing the Schedule A form in its entirety, it must be submitted by a Certifying Agent to FGBC, Inc. c/o Florida Solar Energy Center, 1679 Clearlake Rd., Cocoa, FL 32922. The completed checklist must be accompanied by all required submittals, and a check for the Green Home processing fee payable to the Florida Green Building Coalition, Inc. Processing fee for FGBC members is \$50 per home for the first 10 homes, and \$35 for each additional home. Processing fee is \$75 per home for non-members. Please visit floridagreenbuilding.org for membership information. (* indicates required fields)

Home Builder Information

Home Information

*Name: Eric Watson

Owner name:

*Company: PSG Constuction, Inc.

*Address: 327 Broadway Ave

*Address: 803 S. Orlando Ave., Suite A

*City / County: Orlando / Orange

*City / County: Orlando / Orange

Owner phone:

*Phone: 407-949-5318

Owner Fax:

Fax: 407-949-5319

Owner E-mail:

E-mail: eric@psgconstruction.com

Primary Certifying Agent Information

*Name: Eric Martin

*Company: Florida Solar Energy Center

*Address: 1679 Clearlake Rd

*City / County: Cocoa / Brevard

*E-mail: martin@fsec.ucf.edu

*Phone: 321-638-1450

*Fax: 321-638-1439

By signing below we acknowledge that each of the measures intended to qualify the home for the Florida Green Home Standard have been incorporated into the home's construction/renovation.

Development of the Florida Green Home Designation Standard supported in part by:



Home Builder Signature:

and/or Home Owner Signature:

Primary Certifying Agent Signature:

Date of Application: