



Florida Green Building Coalition, Inc.

Green Home Certification

Schedule A, Version 5.0
July 1, 2007— June 30, 2008

NEW HOME REQUIREMENTS

- Comply with two prerequisites
- Obtain the minimum points indicated in each category*
- Obtain a TOTAL of 100 points

*WHAT IF I MISS A CATEGORY MINIMUM

Can I still be certified? **YES**
But you will need more than 100 points. You must add the points you missed to your total score your homes needs for certification. For example, if you can only achieve 8 points in a category with a 10 point minimum requirement– you now need 102 points for certification.

A NOTE ABOUT ENERGY

You may wonder why many energy saving features do not appear as line items in this standard. The FGBC has selected to use a whole house performance based energy rating for points versus create an exhaustive list of energy saving alternatives. The performance based Energy Rating is called a HERS INDEX (previously HERS score).

WHAT IS INCLUDED IN A HERS INDEX

Energy Gauge USA / HERS Index		
Envelope		
Floors	Windows	Roof
Foundation type	# & size of windows	Roof Configuration / Slope
Insulation value	Tint / U-factor	Roof Material / Color
Perimeter / Area	Type of Frame	Attic Details
Floor covering	Overhang details	Conditioned ceiling Area
Walls	Ceilings	Solar absorbance
Orientation	Ceiling style	Rood deck insulation level
Area	Insulation value	Radiant barrier system
Insulation value	Area	Attic Ventilation ratio
Doors	Garage	Infiltration
Door Area / U Value	Attached or not	Building envelope leakage
Equipment		
Cooling	Ducts	Appliance and Lights
System Type	Insulation value	Programmable Thermostat
Capacity	Duct Location	Refrigerator
SEER	Air Handler Location	% fluorescent lighting
Hot Water	Amount of leakage	Ceilings fans
Type / location	Duct surface area	Dishwasher
Efficiency	Heating	Photovoltaic's
Daily usage	System Type	Array
Set Temperature	Efficiency	Inverter
Solar or heat recovery	Capacity	Batteries

PREREQUISITES: At least one measure from each of the following Prerequisites must be included.

Prerequisite 1: Swimming Pool / Spa

- Sanitation system that reduces chlorine use
- Pool cover
- Solar pool heating system
- Efficient pool pumping
- No swimming pool/spa

Prerequisite 2: Waterfront Considerations

- Use native aquatic vegetation in shoreline area
- No turf adjacent to water (Low maintenance plants instead)
- Use of terraces, swales, or berms to slow storm water
- Home site does not border natural water body

Category 1: Energy

HERS Index—Energy Rating

Points Achieved	Points Possible	Criteria
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_____ 2-74	Confirmed Florida HERS Rating— 2 points for each HERS Index point below 100
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Design, finishes, amenities

- | | |
|-----------|---|
| _____ 1 | Document proper sizing of HVAC system |
| _____ 1 | Ductwork joints sealed with mastic |
| _____ 1 | Cross vent and ceiling fans code credits |
| _____ 1 | Min 100ft ² roofed porch min 3 sides open |
| _____ 1 | Passive solar space heat system |
| _____ 1 | Passive solar day-lighting |
| _____ 1 | Deciduous trees on south |
| _____ 1-4 | House shaded on east and west by trees |
| _____ 1 | Washer and dryer outside of cond. space |
| _____ 1 | Floor joist perimeter insulated and sealed |
| _____ 1 | Light colored exterior walls |
| _____ 1-2 | Light colored interior walls, ceilings, carpet/floors |
| _____ 1 | Max 100W fixtures in bathrooms |
| _____ 1 | South roof area for future solar use |
| _____ 1 | Pre-plumb for solar hot water |
| _____ 1 | Compact hot water distribution |
| _____ 1 | Insulate all hot water pipes |
| _____ 1 | Energy-efficient clothes dryer |
| _____ 1 | Energy-efficient oven/range |
| _____ 1 | Energy Star Clothes Washer |
| _____ 1 | Buyer given information on Energy Star appliances |
| _____ 1 | Efficient well pumping |
| _____ 1 | Efficient envelope volume |
| _____ 1 | Attached unit, zero lot-line, row house |
| _____ 2 | Recessed, sealed IC fixtures |
| _____ 3 | Energy Star Advanced Lighting Package |
| _____ 2 | Outdoor lights are energy efficient |

Category 2: Water

Points Achieved	Points Possible	Criteria
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Fixtures

- | | |
|-----------|--|
| _____ 2-3 | Water saving clothes washer (2: WF<8, 3: WF<6) |
| _____ 1 | Low-flow shower heads (<2.5 gpm) |
| _____ 1 | All showers equipped with 1 showerhead |
| _____ 2 | No garbage disposal |
| _____ 2 | Dual flush or low flow toilets (<1.25gpf) |
| _____ 1 | Toilet with UNAR MaP Rating (350gpf) |

Greywater Reuse

- | | |
|---------|---|
| _____ 3 | System installed |
| _____ 2 | Vanity water collection for toilet flushing |
| _____ 1 | Air conditioner condensate re-use |

Rainwater Harvesting

- | | |
|---------|--|
| _____ 2 | System installed with dedicated use |
| _____ 1 | System rough in with simple collection |

Reclaimed Water Reuse

- | | |
|---------|--------------------------------------|
| _____ 2 | For irrigation |
| _____ 2 | Meter on reclaimed irrigation system |
| _____ 2 | Volume based pricing arrangement |
| _____ 2 | For toilet flushing |

Installed Landscape

- | | |
|-----------|--|
| _____ 2 | Drought tolerant turf, no turf in densely shaded areas |
| _____ 1-3 | 50%, 80%, 100% of plants/trees from <i>Water-wise: Florida Landscapes or local drought tolerant list</i> |
| _____ 2 | Plants/trees selected to be compatible w/ local environment/microclimate |
| _____ 3 | Turf less than 50% of landscape |
| _____ 2 | Evenly shaped turf areas, no turf on berms |
| _____ 2 | Plants with similar maintenance requirements grouped together |
| _____ 2 | Mulch applied 3-4 inches deep around plants |
| _____ 2 | Non Cypress mulch used |
| _____ 2 | Soil tested and amended where necessary |

 Total points for Category 1 (30 min/75 max)

Name of HERS Rater: _____

Certifying Agent Category 1: _____

Category 2: Water (continued)

- _____ 10 No permanent installed irrigation system
- _____ 2 Innovative irrigation technology
- _____ 5 Meet or exceed WaterStar standards
 - Head to head coverage for Rotor/spray heads
 - Minimize overspray on impermeable surfaces
 - Irrigation heads have matched precipitation rates
 - Separate zones for turf and landscape beds
 - Micro-irrigation only in landscape beds
 - Provide owner & FGBC with plan and instructions
 - Functioning rain sensor installed in an operable location
 - Install multi-programmable timer clock
 - High volume irrigation does not exceed 60% of landscape area
- _____ 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
- _____ 4 2,500 – 4,999 sqft irrigated to FGBC Standards
- _____ 5 1 – 2,499 sqft irrigated to FGBC Standards

Total points for Category 2 (15 min/40 max)

Certifying Agent Category 2: _____

FYN or Master Gardener: _____

WaterStar Professional:

Category 3: Lot Choice

- _____ 1-6 House built within designated FGBC green land development
- _____ 4 Home within a certified green local government
- _____ 2 Build on an infill site
- _____ 2 Site within ½ mile of existing infrastructure
- _____ 2 Site within ¼ mile of mass transit
- _____ 2 Site within 1/2 mile public open/green space
- _____ 2 Site within ¼ mile of basic community resources
- _____ 2 Site located in TND or small lot cluster development
- _____ 2 Brownfield site

Total points for Category 3 (0 min/15 max)

Certifying Agent Category 3: _____

Category 4: Site

Native tree and plant preservation

- _____ 2 No invasive exotic species
- _____ 2 Maximize tree survivability
- _____ 2 Minimize soil compaction
- _____ 1 25% of site protected from mechanical soil compaction via barrier
- _____ 2 Replant or donate removed vegetation
- _____ 1-9 Preserve or create wildlife habitat/shelter

Category 4: Site (continued)

On site waste management

- _____ 1 Use Offsite salvaged/remanufactured material
- _____ 1 Reuse cleared materials for mulch/landscape
- _____ 2 Mill Clear trees

Erosion Control / Topsoil Preservation

- _____ 2 Develop an erosion control site plan
- _____ 1 Stabilize disturbed soil
- _____ 2 Stage disturbance
- _____ 1 Control sediment runoff during construction
- _____ 1 Save and reuse any removed topsoil

Drainage / Retention

- _____ 2 Onsite designated retention area
- _____ 2 Direct filtered rooftop runoff to infiltration area(s)
- _____ 1-4 Maintain pervious surface area

Total points for Category 4 (5 min/30 max)

Certifying Agent Category 4: _____

Category 5: Health

Combustion

- _____ 3 Detached garage, carport, or no garage
- _____ 1 Attached garage with air barrier between garage and living space (including attic)
- _____ 1 Attached garage—exhaust fan on motion sensor and timer
- _____ 1 Direct vent, sealed combustion fireplace w/ electronic ignition, factory built wood burning fireplace or no fireplace
- _____ 1-2 No unsealed space or water heating combustion located inside the conditioned area - or electric.
- _____ 1 Carbon monoxide alarm

Moisture Control

- _____ 1 Drainage tile on and around top of footing
- _____ 1 Drainage board for below grade walls
- _____ 1 Gravel bed beneath slab on grade floors
- _____ 1 Seal slab penetrations
- _____ 1 Capillary break between foundation and framing
- _____ 3 Central dehumidification system
- _____ 1 No vapor barrier on inside of assemblies

Source Control (materials)

- _____ 1 No exposed urea-formaldehyde particleboard
- _____ 1-2 Low/Zero VOC paints, stains, and finishes
- _____ 1 Low VOC sealants and adhesives
- _____ 1 Minimize carpet use
- _____ 1 Healthy flooring (100%)
- _____ 1 Healthy insulation
- _____ 1 Protect ducts during construction
- _____ 3 Integrated pest management

Category 5: Health (continued)

Cleanability

- _____ 1-2 Central vacuum system
- _____ 1 Grout lines < 1/4"
- _____ 1 Useable entry area

Design

- _____ 1 Low dust collecting window coverings

- _____ 1 Barrier free entrance
- _____ 1-3 Universally designed living area

Ventilation

- _____ 4 Controlled mechanical ventilation
- _____ 1 Radon/soil gas vent system installed
- _____ 1 Floor drain sealed
- _____ 1 Energy Star bath fans with timer or humidistat
- _____ 1 Kitchen range hood vented to exterior
- _____ 1 Laundry rooms inside conditioned spaces must have window or other make-up air source
- _____ 3 Whole house filtration
- _____ 1-2 Air filter > MERV 8 (1) Air filter > MERV 10 (2)
- _____ 1 HVAC filter easily accessible
- _____ 1 Install screens on all windows and doors (excluding front door)
- _____ 3 No air handler /return ducts in garage or unsealed garage attic
- _____ 1 Written plan for exhaust and intake vents
- _____ 1 Manual D duct design

Total points for Category 5 (15 min/35 max)

Certifying Agent Category 5: _____

Category 6: Materials

Components

- _____ 1 Recycled content roof material
- _____ 1-2 Engineered wood products for roof and/or floor
- _____ 2-3 Certified sustainable lumber
- _____ 1 Engineered/alternative material for outdoor living
- _____ 1 Concrete with fly ash or blast furnace slag
- _____ 1 Recycled content siding or soffit material
- _____ 1 Eco-friendly insulation
- _____ 1 Recycled content drywall
- _____ 1 Recycled content paint
- _____ 1 Recycled content air conditioner condenser pad
- _____ 1 Finger jointed or laminated products
- _____ 1 Eco-friendly trim
- _____ 1 Steel interior studs
- _____ 1 Eco-friendly flooring materials
- _____ 1 Eco-friendly ceiling materials
- _____ 1-2 Locally produced materials

Category 6: Materials (continued)

Waste Reduction

- _____ 3 Resource efficient wall system w/ integral insulation
- _____ 2 Develop waste management plan
- _____ 2-4 Implement job site waste management
- _____ 1 Compost bin/built in collection of recyclables
- _____ 1 Perimeter based on 2 foot dimensions
- _____ 1 Interior floor plan based on 2 foot dimension
- _____ 1 Stack framing
- _____ 1 2 stud corners with drywall clips
- _____ 1 T-Walls with drywall clips

Durability

- _____ 1 3 in 12 ≤ roof slope ≤ 6 in 12
- _____ 1 Large overhangs (eave and gable)
- _____ 1 Air admittance vents
- _____ 1 Wood frame house uses vented rain screen
- _____ 1 Siding and exterior trim primed all sides
- _____ 1 Window and door flashing
- _____ 1 Plants/turf minimum of 2 ft. from foundation
- _____ 1 Armored/metal hoses from service to all fixtures
- _____ 2 Automatic in home water sensor/shut off system installed
- _____ 1 Access panel to non-accessible plumbing fixture
- _____ 1 User-friendly (lever) clothes washer water shutoff
- _____ 1 Laundry room below living floor or drain installed

Total points for Category 6 (10 min/35 max)

Certifying Agent Category 6: _____

Category 7: Disaster Mitigation

Hurricane (wind, rain, storm surge)

- _____ 3 Safe room
- _____ 2 Baffled roof vents or unvented attic
- _____ 2 Window and skylight protection
- _____ 1 Attached garage door protection
- _____ 2 Exterior structures properly anchored
- _____ 2 Secondary water protection installed on roof
- _____ 2 Adhesive applied to roof sheathing
- _____ 2 Roof covering above and below flashing
- _____ 5 Comply with Fortified for safer living standards

Category 7: Disaster Mitigation (continued)

Flood - comply with all to receive 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.

_____3

Wildfire- comply with all to receive points

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

_____3

Termites- comply with all to receive points

- Seal slab penetrations (Cat 4)
- Vegetation > 2 ft. from foundation (Cat 5)
- Slopes graded away from building (Cat6)

AND

- Exterior cladding installed to prohibit intrusion
- Rain gutters installed **or** meet 2’ Overhangs”
- Downspouts discharge a minimum of 3’ from home
- Irrigation/sprinkler water does not hit building
- Condensate line (s) discharge a minimum of 2’ from home and are 5’ from dryer vent

_____10
OR

- Chemical soil treatment avoided
- Alternative Florida Building Code approved method of foundation protection employed
- All wood lumber, sheet products, and exterior finish material are borate or ACQ treated
- Alternatives to wood investigated and used

_____10

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

Certifying Agent Category 7: _____

Category 8: General

Small House Credit

_____0-40 Conditioned house size

Adaptability

- _____2 Roof trusses designed for addition
- _____2 Unfinished rooms
- _____1 Prewired for security and sound

Renewable Power Generation

_____0-5 Reduce peak demand or annual load

Remodel

- _____10 Remodeling Structure
- _____3 Toilets 1.6 gpf & showers 2.5 gmp or less
- _____2 Upgrade existing installed irrigation with rain gauge, timer, and code irrigation heads

Other

- _____1-2 Home builder/designer/architect/landscape architect member of FGBC
- _____2 Homeowner’s manual given to homeowner
- _____2 Educational material given to homeowner
- _____2 Training provided to homeowner
- _____2 Plan for edible landscape/food garden
- _____2 Guaranteed energy bills
- _____2 Cooling system uses non-hcfc

_____1-5 **INNOVATIVE CREDITS**

Total points for Category 8 (0 min/40 max)
Certifying Agent Category 8: _____



FGBC Home Score

Insert your scores below—verify that you have achieved each category minimum—total your score

CATEGORY	YOUR SCORE	REQUIRED MIN—MAX
Category 1: Energy		30—75
Category 2: Water		15—40
Category 3: Lot Choice		0—15
Category 4: Site		5—30
Category 5: Health		15—35
Category 6: Materials		10—35
Category 7: Disaster Mitigation		5—30
Category 8: General		0—40
TOTAL		80—300
Your TOTAL NEEDED (if you missed a category minimum)		

SUBMITTING YOUR CERTIFICATION

A FGBC Certifying agent* must submit your completed checklist with documentation for certification

Mail the checklist and the corresponding application fee to:

FGBC c/o Florida Solar Energy Center
 1679 Clearlake Rd
 Cocoa, FL 32922.

This Green Home Certification Standard is endorsed by the Florida Home Builders Association

Include a Check payable to the Florida Green Building Coalition (based on the below fee schedule)

Member of FGBC and FHBA	\$ 50.00
Member of FGBC or FHBA	\$ 75.00
Non Members	\$100.00

Builder Information

Name _____

Company _____

Address _____

City / Zip _____

Phone _____

Fax _____

E-mail _____

Home Information

Name _____

Address _____

City / Zip _____

Phone _____

Fax _____

E-mail _____

Certifying Agent Information

Name _____

Company _____

Address _____

City/County _____

Phone _____

Fax _____

E-mail _____

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.

Home Builder _____

OR

Home Owner _____

Certifying Agent _____

Date _____

