

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

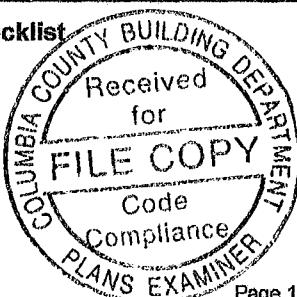
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Model 1302		Builder Name: Innovative Home Builders	
Street: Rose Point Place		Permit Office: Columbia County	
City, State, Zip: Lake City , FL , 32024-		Permit Number:	
Owner: N/A		Jurisdiction:	
Design Location FL, Gainesville			
1. New construction or existing		New (From Plans)	
2. Single family or multiple family		Single-family	
3 Number of units, if multiple family		1	
4. Number of Bedrooms		3	
5. Is this a worst case?		No	
6. Conditioned floor area above grade (ft <sup>2</sup> )		1302	
Conditioned floor area below grade (ft <sup>2</sup> )		0	
7. Windows(172.0 sqft.)		Description	Area
a. U-Factor: Dbl, U=0.30		SHGC: SHGC=0.50	172.00 ft <sup>2</sup>
b. U-Factor: N/A		SHGC:	ft <sup>2</sup>
c. U-Factor: N/A		SHGC:	ft <sup>2</sup>
d. U-Factor: N/A		SHGC:	ft <sup>2</sup>
Area Weighted Average Overhang Depth:		2.547 ft.	
Area Weighted Average SHGC:		0.500	
8. Floor Types (1302.0 sqft.)		Insulation	Area
a. Slab-On-Grade Edge Insulation		R=5.0	1302.00 ft <sup>2</sup>
b. N/A		R=	ft <sup>2</sup>
c. N/A		R=	ft <sup>2</sup>
9. Wall Types(1396.5 sqft.)		Insulation	Area
a. Frame - Wood, Exterior		R=13.0	1155.00 ft <sup>2</sup>
b. Frame - Wood, Adjacent		R=13.0	241.50 ft <sup>2</sup>
c. N/A		R=	ft <sup>2</sup>
d. N/A		R=	ft <sup>2</sup>
10. Ceiling Types (1432.0 sqft.)		Insulation	Area
a. Under Attic (Vented)		R=30.0	1432.00 ft <sup>2</sup>
b. N/A		R=	ft <sup>2</sup>
c. N/A		R=	ft <sup>2</sup>
11. Ducts		R	ft <sup>2</sup>
a. Sup: Attic, Ret: Attic, AH: Garage		6	325.5
12. Cooling systems		kBtu/hr	Efficiency
a. Central Unit		27.1	SEER:16.50
13. Heating systems		kBtu/hr	Efficiency
a. Electric Heat Pump		27.1	HSPF:7.70
14. Hot water systems		Cap: 50 gallons	
a. Electric		EF: 0.920	
b. Conservation features		None	
15. Credits		Pstat	
Glass/Floor Area: 0.132		Total Proposed Modified Loads: 26.97	
		Total Standard Reference Loads: 33.82	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.		Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.	
PREPARED BY: <u>WA</u> DATE: <u>4/30/14</u>		BUILDING OFFICIAL: _____ DATE: _____	
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.			
OWNER/AGENT: _____ DATE: _____			

PASS



- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



## PROJECT

Title:	Model 1302	Bedrooms:	3	Address Type:	Street Address
Building Type:	FLProp2010	Conditioned Area:	1302	Lot #	
Owner:	N/A	Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Innovative Home Builders	Rotate Angle:	0	Street:	Rose Point Place
Permit Office:	Columbia County	Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32024-
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp		Int Design Temp		Heating Degree Days		Design Moisture		Daily Temp Range	
				97.5 %	2.5 %	Winter	Summer						
	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51			Medium	

## BLOCKS

Number	Name	Area	Volume
1	Block1	1302	11718

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	1302	11718	Yes	3	3	1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet	
	1	Slab-On-Grade Edge Insulatio	RoomsInBlock1	155 ft	5	1302 ft <sup>2</sup>	---	0	0	1

## ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
	1	Hip	Composition shingles	1565 ft <sup>2</sup>	0 ft <sup>2</sup>	Medium	0.96	No	0.9	No	0	33.7

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Partial cathedral cel	Vented	303	1302 ft <sup>2</sup>	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing	Frac	Truss	Type
	1	Under Attic (Vented)	RoomsInBlock1	30	1432 ft <sup>2</sup>		0.11		Wood

## WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	1	E	Exterior	Frame - Wood	RoomsInBloc	13	14	8	9		132 ft <sup>2</sup>		0.23	0.75	0
2	2	N	Exterior	Frame - Wood	RoomsInBloc	13	41	8	9		375 ft <sup>2</sup>		0.23	0.75	0
3	3	W	Exterior	Frame - Wood	RoomsInBloc	13	36		9		324 ft <sup>2</sup>		0.23	0.75	0
4	4	S	Exterior	Frame - Wood	RoomsInBloc	13	36		9		324 ft <sup>2</sup>		0.23	0.75	0
5	5	E	Garage	Frame - Wood	RoomsInBloc	13	21	4	9		192 ft <sup>2</sup>		0.23	0.01	0
6	6	S	Garage	Frame - Wood	RoomsInBloc	13	5	6	9		49.5 ft <sup>2</sup>		0.23	0.01	0

## DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
1	1	E	Insulated	RoomsInBloc	None	0.460000	3		6	8	20 ft <sup>2</sup>
2	2	E	Insulated	RoomsInBloc	None	0.460000	3		6	8	20 ft <sup>2</sup>

## WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
1	1	E	1	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft <sup>2</sup>	7 ft 6 in	1 ft 6 in	HERS 2006	None
2	2	N	2	Vinyl	Low-E Double	Yes	0.3	0.5	N	60 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	HERS 2006	None
3	3	W	3	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	HERS 2006	None
4	4	W	3	Vinyl	Low-E Double	Yes	0.3	0.5	N	16 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	HERS 2006	None
5	5	S	4	Vinyl	Low-E Double	Yes	0.3	0.5	N	6 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	HERS 2006	None
6	6	S	4	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	HERS 2006	None

## GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	1	511.92 ft <sup>2</sup>	511.92 ft <sup>2</sup>	64 ft	9 ft	1

## INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0.000360	1229.4	67.495	126.93	0.2771	6.2952

## HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	1	Electric Heat Pump	None	HSPF: 7.7	27.1 kBtu/hr	1	sys#1

### COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts	
	1	Central Unit	None		SEER: 16.5 27.1	kBtu/hr	813 cfm	0.75	1	sys#1

### HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
	1	Electric	None	RoomsInBlock	0.92	50 gal	60 gal	120 deg	None	

### SOLAR HOT WATER SYSTEM

✓	FSEC	Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None				ft <sup>2</sup>		

### DUCTS

✓	#	---- Supply ----	---- Return ----	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC #	Heat	Cool		
	1	Attic	6	325.5 ft	Attic	65.1 ft <sup>2</sup>	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	1	1

### TEMPERATURES

Programable Thermostat Y													Ceiling Fans:													
Cooling Heating Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec	Cooling Heating Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		AM	PM											
Thermostat Schedule													HERS 2006 Reference													
	Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	Hours												
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	AM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	AM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	66	68	68	68	68	68	68	AM	66	66	66	66	66	66	66	66	66	66	66	66
Heating (WEH)	AM	66	66	66	66	66	66	68	68	68	68	68	68	AM	66	66	66	66	66	66	66	66	66	66	66	66

**Florida Code Compliance Checklist**  
 Florida Department of Business and Professional Regulations  
 Residential Whole Building Performance Method

ADDRESS: Rose Point Place  
 Lake City, FL, 32024-

PERMIT #:

**MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.**

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

## ESTIMATED ENERGY PERFORMANCE INDEX\* = 80

The lower the Energy Performance Index, the more efficient the home.

Rose Point Place, Lake City, FL, 32024-

1	New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2.	Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13 0	1155.00 ft <sup>2</sup>
3	Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13 0	241.50 ft <sup>2</sup>
4	Number of Bedrooms	3	c. N/A	R=	ft <sup>2</sup>
5	Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6	Conditioned floor area (ft <sup>2</sup> )	1302	10. Ceiling Types	Insulation	Area
7	Windows**	Description	a. Under Attic (Vented)	R=30 0	1432.00 ft <sup>2</sup>
a	U-Factor	Dbl, U=0.30	b. N/A	R=	ft <sup>2</sup>
	SHGC.	SHGC=0.50	c. N/A	R=	ft <sup>2</sup>
b	U-Factor:	N/A	11. Ducts	R	ft <sup>2</sup>
	SHGC:		a. Sup. Attic, Ret: Attic, AH Garage	6	325.5
c	U-Factor:	N/A	12. Cooling systems	kBtu/hr	Efficiency
	SHGC:		a. Central Unit	27 1	SEER 16.50
d	U-Factor:	N/A	13. Heating systems	kBtu/hr	Efficiency
	SHGC.		a. Electric Heat Pump	27.1	HSPF 7.70
	Area Weighted Average Overhang Depth:	2.547 ft	14. Hot water systems	Cap	50 gallons
	Area Weighted Average SHGC:	0.500	a. Electric		EF: 0.92
8	Floor Types	Insulation	b. Conservation features		
a	Slab-On-Grade Edge Insulation	R=5 0	None		
b	N/A	R=	15. Credits		Pstat
c	N/A	R=			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at [energygauge.com](http://energygauge.com) for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.