

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

<b>Project Name:</b> Model 1302 <b>Street:</b> Rose Point Place <b>City, State, Zip:</b> Lake City, FL, 32024- <b>Owner:</b> N/A <b>Design Location:</b> FL, Gainesville	<b>Builder Name:</b> Innovative Home Builders <b>Permit Office:</b> Columbia County <b>Permit Number:</b> <b>Jurisdiction:</b>
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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 (ft²)      1302 Conditioned floor area below grade (ft²)      0 7. Windows (172.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.30      172.00 ft² SHGC:      SHGC=0.50 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: d. U-Factor:      N/A      ft² SHGC: 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 ft² b. N/A      R=      ft² c. N/A      R=      ft²	9. Wall Types (1396.5 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=13.0      1155.00 ft² b. Frame - Wood, Adjacent      R=13.0      241.50 ft² c. N/A      R=      ft² d. N/A      R=      ft² 10. Ceiling Types (1432.0 sqft.)      Insulation      Area a. Under Attic (Vented)      R=30.0      1432.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 11. Ducts      R      ft² 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 a. Electric      Cap: 50 gallons EF: 0.920 b. Conservation features None 15. Credits      Pstat
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Glass/Floor Area: 0.132	Total Proposed Modified Loads: 26.97 Total Standard Reference Loads: 33.82	<b>PASS</b>
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  <b>PREPARED BY:</b> <u>WA</u> <b>DATE:</b> <u>4/30/14</u>  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  <b>OWNER/AGENT:</b> _____ <b>DATE:</b> _____	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.  <b>BUILDING OFFICIAL:</b> _____ <b>DATE:</b> _____
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- 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 ,
Family Type: Single-family		FL , 32024-
New/Existing: New (From Plans)		
Comment:		

## CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	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 ft²	---	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 ft²	0 ft²	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 ft²	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	RoomsInBlock1	30	1432 ft²	0.11	Wood

### WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
✓	1	E	Exterior	Frame - Wood	RoomsInBloc	13	14	8	9		132 ft²		0.23	0.75	0
	2	N	Exterior	Frame - Wood	RoomsInBloc	13	41	8	9		375 ft²		0.23	0.75	0
	3	W	Exterior	Frame - Wood	RoomsInBloc	13	36		9		324 ft²		0.23	0.75	0
	4	S	Exterior	Frame - Wood	RoomsInBloc	13	36		9		324 ft²		0.23	0.75	0
	5	E	Garage	Frame - Wood	RoomsInBloc	13	21	4	9		192 ft²		0.23	0.01	0
	6	S	Garage	Frame - Wood	RoomsInBloc	13	5	6	9		49.5 ft²		0.23	0.01	0

### DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
	1	E	Insulated	RoomsInBloc	None	0.460000	3		6	8	20 ft²
	2	E	Insulated	RoomsInBloc	None	0.460000	3		6	8	20 ft²

### WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
	1	E	1	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft²	7 ft 6 in	1 ft 6 in	HERS 2006	None
	2	N	2	Vinyl	Low-E Double	Yes	0.3	0.5	N	60 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	3	W	3	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	4	W	3	Vinyl	Low-E Double	Yes	0.3	0.5	N	16 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	5	S	4	Vinyl	Low-E Double	Yes	0.3	0.5	N	6 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	6	S	4	Vinyl	Low-E Double	Yes	0.3	0.5	N	30 ft²	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	511.92 ft²	511.92 ft²	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	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	10.92	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			ft²		

### DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler CFM	25	Percent Leakage	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	325.5 ft	Attic	65.1 ft²	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	1	1

### TEMPERATURES

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

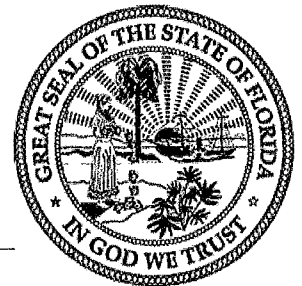
Rose Point Place, Lake City, FL, 32024-

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	Area	a. Under Attic (Vented)	R=30 0	1432.00 ft <sup>2</sup>
a U-Factor	DbI, U=0.30	172.00 ft <sup>2</sup>	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	ft <sup>2</sup>	11. Ducts		R ft <sup>2</sup>
SHGC:			a. Sup: Attic, Ret: Attic, AH Garage	6	325.5
c. U-Factor:	N/A	ft <sup>2</sup>	12. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	27 1	SEER*16 50
d. U-Factor:	N/A	ft <sup>2</sup>	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	Area	b. Conservation features		
a Slab-On-Grade Edge Insulation	R=5 0	1302 00 ft <sup>2</sup>	None		
b N/A	R=	ft <sup>2</sup>	15. Credits		Pstat
c. N/A	R=	ft <sup>2</sup>			

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.