

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: YATES ADDITION Street: 130 NW LAKE VISTA GLEN City, State, Zip: LAKE CITY, FL, 32055- Owner: YATES Design Location: FL, Jacksonville	Builder Name: DON REED CONSTRUCTION LLC Permit Office: COLUMBIA COUNTY Permit Number: Jurisdiction:
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Glass/Floor Area: 0.337      Total Proposed Modified Loads: 7.18      **PASS**  
 Total Standard Reference Loads: 11.77


I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: *[Signature]*  
 DATE: 2-28-2014

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

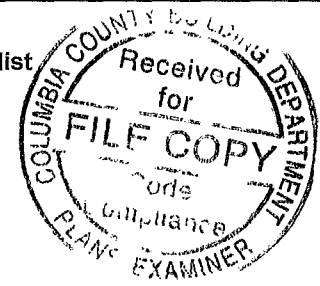
OWNER/AGENT: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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.



BUILDING OFFICIAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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



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Total Proposed Modified Loads 7.18  
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## PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**SUNCOAST INSULATORS**  
 Ocala (352) 629-8157  
 Newberry (352) 472-3595  
 Crystal River (352) 775-6539  
 Tallahassee (352) 743-7999

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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.

BUILDING OFFICIAL: \_\_\_\_\_  
 DATE: \_\_\_\_\_



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

**PROJECT**

Title	YATES ADDITION	Bedrooms	0	Address Type	Street Address
Building Type	User	Conditioned Area	557	Lot #	
Owner	YATES	Total Stories	1	Block/SubDivision	
# of Units	1	Worst Case	No	PlatBook	
Builder Name	DON REED CONSTRUCTIO	Rotate Angle	0	Street	130 NW LAKE VISTA
Permit Office	COLUMBIA COUNTY	Cross Ventilation		County	COLUMBIA
Jurisdiction		Whole House Fan		City, State, Zip	LAKE CITY , FL , 32055-
Family Type	Single-family				
New/Existing	Addition				
Comment					

**CLIMATE**

<input checked="" type="checkbox"/>	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Jacksonville	FL_JACKSONVILLE_INT	2	32	93	70	75	1281	49	Medium

**BLOCKS**

Number	Name	Area	Volume
1	Block1	557	4567.4

**SPACES**

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	557	4567.4	No	1		1	Yes	Yes	Yes

**FLOORS**

<input checked="" type="checkbox"/>	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	69.5 ft	0	557 ft²	----	0	0	1

**ROOF**

<input checked="" type="checkbox"/>	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
_____	1	Hip	Composition shingles	603 ft²	0 ft²	Medium	0.96	No	0.9	No	0	22.6

**ATTIC**

<input checked="" type="checkbox"/>	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	557 ft²	N	N

**CEILING**

<input checked="" type="checkbox"/>	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Cathedral/Single Assembly (Vented)	Main	30	557 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	Main	30	184 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	S	Exterior	Frame - Wood	Main	13	25	1	8	2	204.8 ft²		0	0.75	0
2	E	Exterior	Frame - Wood	Main	13	22	2	8	2	181.0 ft²		0	0.75	0
3	W	Exterior	Frame - Wood	Main	13	22	2	8	2	181.0 ft²		0	0.75	0

### DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Wood	Main	None	46	3		7		21 ft²
2	W	Wood	Main	None	46	3		7		21 ft²
3	W	Wood	Main	None	46	3		7		21 ft²

### WINDOWS

Orientation shown is the entered, Proposed orientation

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Separation	Int Shade	Screening
1	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
2	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
3	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
4	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
5	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
6	S	1	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
7	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
8	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
9	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
10	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
11	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
12	E	2	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
13	W	3	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
14	W	3	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None
15	W	3	Vinyl	Low-E Double	Yes	0.59	0.23	12.5 ft²	1 ft 4 in	1 ft 0 in	Drapes/blinds	None

### INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0005	730.5	40.1	75.42	385	9.5964

### HEATING SYSTEM

✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump	Through the Wall(Split)	HSPF 10	24 kBtu/hr	1	Ductless

**COOLING SYSTEM**

<input checked="" type="checkbox"/>	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	PTAC and Room Unit	Through the Wall(Split)	EER 16	24 kBtu/hr	720 cfm	0.75	1	Ductless

**SOLAR HOT WATER SYSTEM**

<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
					ft <sup>2</sup>		

**TEMPERATURES**

Programable Thermostat. Y		Ceiling Fans											
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule	HERS 2006 Reference											Hours	
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	78	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	68	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	68	66

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

ADDRESS: 130 NW LAKE VISTA GLEN  
 LAKE CITY, FL, 32055-

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.	



