


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: SW State Road 247 Residence		Builder Name:	
Street: SW State Road 247		Permit Office:	
City, State, Zip: Lake City, FL, 32024		Permit Number:	
Owner:		Jurisdiction: Columbia	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

<p>1. New construction or existing New (From Plans)</p> <p>2. Single family or multiple family Detached</p> <p>3. Number of units, if multiple family 1</p> <p>4. Number of Bedrooms 1</p> <p>5. Is this a worst case? No</p> <p>6. Conditioned floor area above grade (ft²) 900</p> <p> Conditioned floor area below grade (ft²) 0</p> <p>7. Windows(124.5 sqft.) Description Area</p> <p> a. U-Factor: Dbl, U=0.55 124.50 ft²</p> <p> SHGC: SHGC=0.60</p> <p> b. U-Factor: N/A ft²</p> <p> SHGC:</p> <p> c. U-Factor: N/A ft²</p> <p> SHGC:</p> <p> Area Weighted Average Overhang Depth: 2.964 ft</p> <p> Area Weighted Average SHGC: 0.600</p> <p>8. Skylights Description Area</p> <p> U-Factor:(AVG) N/A N/A ft²</p> <p> SHGC(AVG): N/A</p> <p>9. Floor Types Insulation Area</p> <p> a. Slab-On-Grade Edge Insulation R= 0.0 900.00 ft²</p> <p> b. N/A R= ft²</p> <p> c. N/A R= ft²</p>	<p>10. Wall Types(960.0 sqft.) Insulation Area</p> <p> a. Frame - Wood, Exterior R=13.0 960.00 ft²</p> <p> b. N/A</p> <p> c. N/A</p> <p> d. N/A</p> <p>11. Ceiling Types(900.0 sqft.) Insulation Area</p> <p> a. Flat ceiling under att (Vented) R=38.0 900.00 ft²</p> <p> b. N/A</p> <p> c. N/A</p> <p>12. Roof(Metal, Vented) Deck R=0.0 1006 ft²</p> <p>13. Ducts, location & insulation level R ft²</p> <p> a. Sup: Attic, Ret: Attic, AH: Main 6 180</p> <p> b.</p> <p> c.</p> <p>14. Cooling Systems kBtu/hr Efficiency</p> <p> a. Central Unit 19.0 SEER2:14.30</p> <p>15. Heating Systems kBtu/hr Efficiency</p> <p> a. Electric Heat Pump 19.0 HSPF2:7.50</p> <p>16. Hot Water Systems</p> <p> a. Electric Cap: 50 gallons</p> <p> EF: 0.920</p> <p> b. Conservation features</p> <p>17. Credits None</p> <p> None</p>
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Glass/Floor Area: 0.138	Total Proposed Modified Loads: 28.15	PASS
	Total Baseline Loads: 28.15	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: _____</p> <p>DATE: _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: <i>[Signature]</i></p> <p>DATE: <u>6-6-23</u></p>	<p>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.</p> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p> <div style="text-align: center;">  <p><i>Reviewed for</i></p> <p>File Copy</p> <p><i>Compliance</i></p> </div>
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	SW State Road 247 Residence	Bedrooms:	1	Address type:	Street Address
Building Type:	User	Conditioned Area:	900	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:	Adams Homes	Rotate Angle:	0	Street:	SW State Road 240
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:	Columbia	Whole House Fan:		City, State, Zip:	Lake City, FL, 32024
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:					
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5%	2.5%	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	900	7200 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	900	7200	Yes	3	1	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 900 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main		0	900 ft	0.442	---	0.00	0.75	0.25

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Metal	1006 ft²	226 ft²	Medium	N	0.96	No	0.9	No	0	26.57

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	900 ft²	N	N

CEILING

(Total Exposed Area = 900 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Main	38.0	Blown	900.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 960 sq.ft.)			
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade			
___ 1	N	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 3	S	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 4	W	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			

DOORS										(Total Exposed Area = 40 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	N(Front)	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS															(Total Exposed Area = 125 sq.ft.)			
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	---Overhang--- Depth (ft)	Sep. (ft)	Interior Shade	Screen		
___ 1	N	1	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	2	3.00	5.00	1.0	2.0	Drapes/blinds	None	
___ 2	N	1	Vinyl	Low-E Double	Y	0.55	0.60	N	N	30.0	2	3.00	5.00	7.0	1.0	Drapes/blinds	None	
___ 3	E	2	Vinyl	Low-E Double	Y	0.55	0.60	N	N	15.0	1	3.00	5.00	2.0	1.0	Drapes/blinds	None	
___ 4	S	3	Vinyl	Low-E Double	Y	0.55	0.60	N	N	8.0	1	2.67	3.00	2.0	1.0	Drapes/blinds	None	
___ 5	S	3	Vinyl	Low-E Double	Y	0.55	0.60	N	N	9.0	1	3.00	3.00	2.0	1.0	Drapes/blinds	None	
___ 6	E	2	Vinyl	Low-E Double	Y	0.55	0.60	N	N	32.5	1	5.00	6.50	2.0	1.0	Drapes/blinds	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00036	840	46.08	86.52	0.1372	7.0	All	7200 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current			Ducts	Block
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	19.0	0.00	0.00	0.00	sys#1	1

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:14.3	19.0	570	0.75	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM													
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length			
___ 1	Electric	None	Main	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	99			
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits			
___ 1	No		NA	NA	NA	No	NA	NA	NA	None			
DUCTS													
✓ Duct #	Location	Supply R-Value	Area	Return Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	180 ft²	Attic	6.0	45 ft²	Default Leakage	Main	(Default)	(Default)			1 1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
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 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 checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	
✓	Thermostat Schedule: HERS 2006 Reference												
Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12
___ Cooling (WD)	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
___ 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	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

The lower the EnergyPerformance Index, the more efficient the home.

SW State Road 240,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(960.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	960.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	1	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	900	11. Ceiling Types(900.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	900.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	DbI, U=0.55	c. N/A		
SHGC:	SHGC=0.60	12. Roof(Metal, Vented)	Deck R=0.0	1006 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	180
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.964 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.600	a. Central Unit	19.0	SEER2:14.30
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	19.0	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric	Cap: 50 gallons	
b. N/A	R=		EF: 0.920	
c. N/A	R=	b. Conservation features		
				None
		17. Credits		None

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:

6-6-23

Address of New Home: SW State Road 240

City/FL Zip: Lake City,FL,32024



*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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.