

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 3 Crosswinds - Model 1618		Builder Name:	
Street:		Permit Office: Columbia County	
City, State, Zip: Lake City, FL, 32025		Permit Number:	
Owner: Rhett Smithy		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

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Glass/Floor Area: 0.069

Total Proposed Modified Loads: 39.42

Total Baseline Loads: 42.72

PASS

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

PREPARED BY: _____

DATE: 9 / 13 / 2023

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 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Lot 3 Crosswinds - Model 1618	Bedrooms:	4	Address type:	Lot
Building Type:	User	Conditioned Area:	1618	Lot #:	3
Owner:	Rhett Smithey	Total Stories:	1	Block/SubDivision:	Crosswinds
Builder Home ID:		Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32025
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2023				
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	1618	14562 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1618	14562	Yes	4	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1618 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	192	0	1618 ft	0.304	---	0.00	0.00	1.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	1945 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	33.7

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1618 ft²	Y	N

CEILING

(Total Exposed Area = 1618 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	Double Batt	1618.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1568 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	S	Exterior	Frame - Wood	Main	13.0	16.0	8	9.0	0	150.0	0.084		0.23	0.75	0 %			
2	S	Exterior	Frame - Wood	Main	13.0	15.0	4	9.0	0	138.0	0.084		0.23	0.75	0 %			
3	E	Exterior	Frame - Wood	Main	13.0	39.0	8	9.0	0	357.0	0.084		0.23	0.75	0 %			
4	N	Exterior	Frame - Wood	Main	13.0	23.0	8	9.0	0	213.0	0.084		0.23	0.75	0 %			
5	N	Exterior	Frame - Wood	Main	13.0	16.0	8	9.0	0	150.0	0.084		0.23	0.75	0 %			
6	N	Exterior	Frame - Wood	Main	13.0	12.0	10	9.0	0	115.5	0.084		0.23	0.75	0 %			
7	W	Exterior	Frame - Wood	Main	13.0	28.0	4	9.0	0	255.0	0.084		0.23	0.75	0 %			
8	S	Garage	Frame - Wood	Main	13.0	21.0	0	9.0	0	189.0	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	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			
2	S	Garage	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			

WINDOWS															(Total Exposed Area = 112 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	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.3	1	2.50	2.50	5.5	1.0	None	None	
2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.7	2	2.33	4.00	2.0	1.0	None	None	
3	E	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.3	1	2.33	4.00	2.0	1.0	None	None	
4	E	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	2.7	1	4.00	0.67	2.0	1.0	None	None	
5	N	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	28.0	3	2.33	4.00	2.0	1.0	None	None	
6	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.3	1	2.33	4.00	10.5	1.0	None	None	
7	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.7	2	2.33	4.00	10.5	1.0	None	None	
8	N	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.7	2	2.33	4.00	2.0	1.0	None	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
1	Wholehouse	Proposed ACH(50)	0.00029	1214	66.58	124.99	0.1027	5.0	All	14562 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	483 ft²	483 ft²	67 ft	9 ft	1

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

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM(Continued)

___ 1	Electric Heat Pump	None/Single	HSPF2: 8.80	24.4	0.00	0.00	0.00	sys#1	1
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COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:15.0	18.6	570	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Exterior	0.92 (0.92)	40.00 gal	30 gal	120 deg	Standard	None	90
	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 R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	8.0	406 ft²	8.0	81 ft²	Default Leakage	Garage	(Default)	(Default)			1 1

MECHANICAL VENTILATION

✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
___ Runtime Vent	10.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec	
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec	
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec	
Thermostat Schedule: FloridaCode 2014													
✓ Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12
___ Cooling (WD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
___ Cooling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
___ Heating (WD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72
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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

,Lake City,FL,32025

1. New construction or existing	New (From Plans)	10. Wall Types(1567.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1378.50 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	189.00 ft ²
4. Number of Bedrooms	4	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1618	11. Ceiling Types(1618.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1618.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	DbI, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck R=0.0		1945 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
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c. U-Factor:	N/A	b.		
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Area Weighted Average Overhang Depth:	4.329 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	18.6	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	24.4	HSPF2:8.80
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric		Cap: 40 gallons
b. N/A	R=			EF: 0.920
c. N/A	R=	b. Conservation features		
		17. Credits		None
				CV, Pstat

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: Lake City,FL,32025



*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.

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:	
Job Information		
Builder:	Community:	Lot: 3
Address:		
City: Lake City	State: FL	Zip: 32025
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 60%;"><p><input type="radio"/> PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.</p><p><input checked="" type="radio"/> PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. <i>ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI):</i> 5.000</p></div><div style="width: 35%;"><p><u>Method for calculating building volume:</u></p><p><input type="radio"/> Retrieved from architectural plans</p><p><input checked="" type="radio"/> Code software calculated</p><p><input type="radio"/> Field measured and calculated</p></div></div> <div style="margin-top: 20px; display: flex; justify-content: space-between; align-items: center;"><div style="width: 60%;"><p>$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{14562}{\text{ACH}(50)} =$<div style="display: flex; align-items: center; margin-top: 10px;"><div style="border: 1px solid black; width: 30px; height: 30px; margin-right: 10px;"></div>PASS</div><p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p></p></div><div style="width: 35%;"></div></div>		
<p>R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) <i>Florida Statutes</i> or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>.</p> <p>During testing:</p> <ol style="list-style-type: none">1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.3. Interior doors, if installed at the time of the test, shall be open.4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.5. Heating and cooling systems, if installed at the time of the test, shall be turned off.6. Supply and return registers, if installed at the time of the test, shall be fully open.		
Testing Company		
<p>Company Name: _____ Phone: _____</p> <p>I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.</p> <p>Signature of Tester: _____ Date of Test: _____</p> <p>Printed Name of Tester: _____</p> <p>License/Certification #: _____ Issuing Authority: _____</p>		