

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 301 NW Coleman Pl Street: 301 NW Coleman Place City, State, Zip: Lake City, FL, 32025 Owner: 301 NW Coleman Pl Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 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) 1502 Conditioned floor area below grade (ft²) 0 7. Windows(133.4 sqft.) Description Area a. U-Factor: Dbl, U=0.36 133.39 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: N/A c. U-Factor: N/A ft² SHGC: N/A Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.250 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 1502.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1349.3 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=5.0 1154.70 ft² b. Frame - Wood, Adjacent R=13.0 104.00 ft² c. Frame - Wood, Exterior R=13.0 90.67 ft² d. N/A 11. Ceiling Types(1652.2 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 1652.20 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 1627 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 376 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 19.0 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 25.7 HSPF2:8.80 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CV, Pstat
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Glass/Floor Area: 0.089

Total Proposed Modified Loads: 38.69

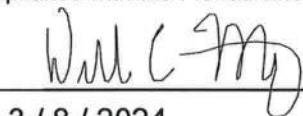
Total Baseline Loads: 41.62

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: _____



DATE: _____

3 / 8 / 2024

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 7.00 ACH50 (R402.4.1.2).

PROJECT													
Title:		301 NW Coleman PI				Address type:		Street Address					
Building Type:		User		Bedrooms:		3		Lot #:		---			
Owner:		301 NW Coleman PI		Conditioned Area:		1502		Block/SubDivision:		---			
Builder Home ID:				Total Stories:		1		PlatBook:		---			
Builder Name:				Worst Case:		No		Street:		301 NW Coleman Place			
Permit Office:		Columbia County		Rotate Angle:		0		County:		Columbia			
Jurisdiction:				Cross Ventilation:		Yes		City, State, Zip:		Lake City, FL, 32025			
Family Type:		Detached		Whole House Fan:		No							
New/Existing:		New (From Plans)		Terrain:		Suburban							
Year Construct:		2024		Shielding:		Suburban							
Comment:													
CLIMATE													
✓	Design Location	Tmy Site		Design Temp		97.5% 2.5%		Int Design Temp		Heating		Design	Daily temp
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA		32 92		70 75		1305.5		51		Medium	
BLOCKS													
✓	Number	Name	Area	Volume									
	___ 1	Block1	1502	12016 cu ft									
SPACES													
✓	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
	___ 1	1st Floor	1502	12016	Yes	6	3	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 1502 sq.ft.)													
✓	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet		
	___ 1	Slab-On-Grade Edge Ins	1st Floor	190.67	1502 sqft	0 ---	0.304	2 (ft)/0 (ft)	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	1627 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	22.62
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
	___ 1	Full attic	Vented	300		1502 ft²	Y	N					
CEILING (Total Exposed Area = 1652 sq.ft.)													
✓	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type				
	___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	1652.2ft²	0.024	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1349 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	Conc. Blk - Int Ins	1st Floor	5.0	41.0	0	8.0	0	328.0	0.132		0	0.75	0 %		
___ 2	E	Exterior	Conc. Blk - Int Ins	1st Floor	5.0	30.0	0	8.0	0	240.0	0.132		0	0.75	0 %		
___ 3	N	Exterior	Conc. Blk - Int Ins	1st Floor	5.0	54.0	8	8.0	0	437.3	0.132		0	0.75	0 %		
___ 4	W	Exterior	Conc. Blk - Int Ins	1st Floor	5.0	18.0	8	8.0	0	149.3	0.132		0	0.75	0 %		
___ 5	S	Garage	Frame - Wood	1st Floor	13.0	13.0	0	8.0	0	104.0	0.084		0.23	0.75	0 %		
___ 6	W	Exterior	Frame - Wood	1st Floor	13.0	11.0	4	8.0	0	90.7	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	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	W	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²		

WINDOWS														(Total Exposed Area = 133 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	45.0	3	3.00	5.00	1.5	0.5	None	None
___ 2	E	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.7	1	2.17	2.17	1.5	0.5	None	None
___ 3	E	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	0.5	None	None
___ 4	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	1.5	0.5	None	None
___ 5	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	0.5	None	None
___ 6	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	4.7	1	2.17	2.17	1.5	0.5	None	None
___ 7	W	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	0.5	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00036	1402	76.91	144.39	0.1372	7.0	All	12016 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	296 ft²	296 ft²	42 ft	8 ft	1

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

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry	Power	Volt	Current	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 8.80	25.7		0.00	0.00	0.00	sys#1 1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:15.5	19.0	570	0.70	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	1st Floor	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	12
	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 OUT	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	376 ft²	Attic	6.0	75 ft²	Default Leakage	1st Floor	(Default)	(Default)		1 1

TEMPERATURES

Programable Thermostat: Y			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 PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)		AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
___ Heating (WD)		AM PM	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
___ Heating (WEH)		AM PM	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

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

301 NW Coleman Place,Lake City,FL,32025

1. New construction or existing	New (From Plans)	10. Wall Types(1349.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=5.0	1154.70 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	104.00 ft ²
4. Number of Bedrooms	3	c. Frame - Wood, Exterior	R=13.0	90.67 ft ²
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1502	11. Ceiling Types(1652.2 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1652.20 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1627 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	376
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	19.0	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	25.7	HSPF2:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric		Cap: 50 gallons
a. Slab-On-Grade Edge Insulation	R= 0.0			EF: 0.920
b. N/A	R=			
c. N/A	R=	b. Conservation features		None
		17. Credits		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: 301 NW Coleman Place

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
2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit #:		
Job Information			
Builder:	Community:	Lot:	NA
Address: 301 NW Coleman Place			
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 R405-2023 (Performance) or R406-2023 (ERI), section labeled as infiltration, sub-section ACH50.</p><p style="text-align: center;"><i>ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI):</i></p><div style="border: 1px solid black; width: 100px; text-align: center; margin: 0 auto; padding: 2px;">7.000</div></div><div style="width: 35%; padding-top: 10px;"><p>Method for calculating building volume:</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>$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{12016}{\text{ACH}(50)} =$</p><div style="border: 1px solid black; width: 50px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"><input type="checkbox"/> PASS</div><p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p></div><div style="width: 35%;"></div></div>			
<p>R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the <i>Florida Building Code, Residential</i>. 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.7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.			
Testing Company			
<p>Company Name: _____ Phone: _____</p> <p>I hereby verify that the above Air Leakage results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Signature of Tester: _____</div><div>Date of Test: _____</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>Printed Name of Tester: _____</div><div></div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>License/Certification #: _____</div><div>Issuing Authority: _____</div></div>			