

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Caleb Harris Residence		Builder Name:	
Street:		Permit Office: Columbia County	
City, State, Zip: , FL,		Permit Number:	
Owner: Caleb Harris		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	

<table><tr><td>1. New construction or existing</td><td>New (From Plans)</td></tr><tr><td>2. Single family or multiple family</td><td>Detached</td></tr><tr><td>3. Number of units, if multiple family</td><td>1</td></tr><tr><td>4. Number of Bedrooms</td><td>3</td></tr><tr><td>5. Is this a worst case?</td><td>No</td></tr><tr><td>6. Conditioned floor area above grade (ft²)</td><td>2600</td></tr><tr><td>Conditioned floor area below grade (ft²)</td><td>0</td></tr><tr><td>7. Windows(168.0 sqft.)</td><td>Description Area</td></tr><tr><td>a. U-Factor:</td><td>DbI, U=0.36 168.00 ft²</td></tr><tr><td>SHGC:</td><td>SHGC=0.25</td></tr><tr><td>b. U-Factor:</td><td>N/A ft²</td></tr><tr><td>SHGC:</td><td></td></tr><tr><td>c. U-Factor:</td><td>N/A ft²</td></tr><tr><td>SHGC:</td><td></td></tr><tr><td colspan="2">Area Weighted Average Overhang Depth: 8.738 ft</td></tr><tr><td colspan="2">Area Weighted Average SHGC: 0.250</td></tr><tr><td>8. Skylights</td><td>Description Area</td></tr><tr><td>U-Factor:(AVG)</td><td>N/A N/A ft²</td></tr><tr><td>SHGC(AVG):</td><td>N/A</td></tr><tr><td>9. Floor Types</td><td>Insulation Area</td></tr><tr><td>a. Slab-On-Grade Edge Insulation</td><td>R= 0.0 2600.00 ft²</td></tr><tr><td>b. N/A</td><td>R= ft²</td></tr><tr><td>c. N/A</td><td>R= ft²</td></tr></table>	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)	2600	Conditioned floor area below grade (ft²)	0	7. Windows(168.0 sqft.)	Description Area	a. U-Factor:	DbI, U=0.36 168.00 ft²	SHGC:	SHGC=0.25	b. U-Factor:	N/A ft²	SHGC:		c. U-Factor:	N/A ft²	SHGC:		Area Weighted Average Overhang Depth: 8.738 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 2600.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	<table><tr><td>10. Wall Types(1890.0 sqft.)</td><td>Insulation Area</td></tr><tr><td>a. Frame - Wood, Exterior</td><td>R=13.0 1890.00 ft²</td></tr><tr><td>b. N/A</td><td></td></tr><tr><td>c. N/A</td><td></td></tr><tr><td>d. N/A</td><td></td></tr><tr><td>11. Ceiling Types(2860.0 sqft.)</td><td>Insulation Area</td></tr><tr><td>a. Flat ceiling under att (Vented)</td><td>R=38.0 2860.00 ft²</td></tr><tr><td>b. N/A</td><td></td></tr><tr><td>c. N/A</td><td></td></tr><tr><td>12. Roof(Comp. Shingles, Vented)</td><td>Deck R=0.0 3125 ft²</td></tr><tr><td>13. Ducts, location & insulation level</td><td>R ft²</td></tr><tr><td>a. Sup: Attic, Ret: Attic, AH: Attic</td><td>6 650</td></tr><tr><td>b.</td><td></td></tr><tr><td>c.</td><td></td></tr><tr><td>14. Cooling Systems</td><td>kBtu/hr Efficiency</td></tr><tr><td>a. Central Unit</td><td>35.1 SEER2:17.50</td></tr><tr><td>15. Heating Systems</td><td>kBtu/hr Efficiency</td></tr><tr><td>a. Electric Heat Pump</td><td>33.5 HSPF2:8.80</td></tr><tr><td>16. Hot Water Systems</td><td></td></tr><tr><td>a. PropaneTankless</td><td>Cap: 1 gallons</td></tr><tr><td></td><td>EF: 0.590</td></tr><tr><td>b. Conservation features</td><td></td></tr><tr><td></td><td>None</td></tr><tr><td>17. Credits</td><td>CV, Pstat</td></tr></table>	10. Wall Types(1890.0 sqft.)	Insulation Area	a. Frame - Wood, Exterior	R=13.0 1890.00 ft²	b. N/A		c. N/A		d. N/A		11. Ceiling Types(2860.0 sqft.)	Insulation Area	a. Flat ceiling under att (Vented)	R=38.0 2860.00 ft²	b. N/A		c. N/A		12. Roof(Comp. Shingles, Vented)	Deck R=0.0 3125 ft²	13. Ducts, location & insulation level	R ft²	a. Sup: Attic, Ret: Attic, AH: Attic	6 650	b.		c.		14. Cooling Systems	kBtu/hr Efficiency	a. Central Unit	35.1 SEER2:17.50	15. Heating Systems	kBtu/hr Efficiency	a. Electric Heat Pump	33.5 HSPF2:8.80	16. Hot Water Systems		a. PropaneTankless	Cap: 1 gallons		EF: 0.590	b. Conservation features			None	17. Credits	CV, Pstat
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)	2600																																																																																														
Conditioned floor area below grade (ft²)	0																																																																																														
7. Windows(168.0 sqft.)	Description Area																																																																																														
a. U-Factor:	DbI, U=0.36 168.00 ft²																																																																																														
SHGC:	SHGC=0.25																																																																																														
b. U-Factor:	N/A ft²																																																																																														
SHGC:																																																																																															
c. U-Factor:	N/A ft²																																																																																														
SHGC:																																																																																															
Area Weighted Average Overhang Depth: 8.738 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 2600.00 ft²																																																																																														
b. N/A	R= ft²																																																																																														
c. N/A	R= ft²																																																																																														
10. Wall Types(1890.0 sqft.)	Insulation Area																																																																																														
a. Frame - Wood, Exterior	R=13.0 1890.00 ft²																																																																																														
b. N/A																																																																																															
c. N/A																																																																																															
d. N/A																																																																																															
11. Ceiling Types(2860.0 sqft.)	Insulation Area																																																																																														
a. Flat ceiling under att (Vented)	R=38.0 2860.00 ft²																																																																																														
b. N/A																																																																																															
c. N/A																																																																																															
12. Roof(Comp. Shingles, Vented)	Deck R=0.0 3125 ft²																																																																																														
13. Ducts, location & insulation level	R ft²																																																																																														
a. Sup: Attic, Ret: Attic, AH: Attic	6 650																																																																																														
b.																																																																																															
c.																																																																																															
14. Cooling Systems	kBtu/hr Efficiency																																																																																														
a. Central Unit	35.1 SEER2:17.50																																																																																														
15. Heating Systems	kBtu/hr Efficiency																																																																																														
a. Electric Heat Pump	33.5 HSPF2:8.80																																																																																														
16. Hot Water Systems																																																																																															
a. PropaneTankless	Cap: 1 gallons																																																																																														
	EF: 0.590																																																																																														
b. Conservation features																																																																																															
	None																																																																																														
17. Credits	CV, Pstat																																																																																														

Glass/Floor Area: 0.065	Total Proposed Modified Loads: 52.45	PASS
	Total Baseline Loads: 55.24	

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: <u>Wm C. [Signature]</u> DATE: <u>3 / 18 / 2024</u> 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. Reviewed for 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).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Caleb Harris Residence			Bedrooms:	3	Address type:	Street Address						
Building Type:	User			Conditioned Area:	2600	Lot #:	---						
Owner:	Caleb Harris			Total Stories:	1	Block/SubDivision:	---						
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:	, FL,						
Family Type:	Detached			Terrain:	Suburban								
New/Existing:	New (From Plans)			Shielding:	Suburban								
Year Construct:	2024												
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	2600	23400 cu ft										
SPACES													
☒ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	1st Floor	2600	23400	Yes	8	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2600 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	210	2600 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	Gable or shed	Composition shingles	3125 ft²	486 ft²	Medium	Y	0.96	No	0.9	No	0	33.69	
ATTIC													
☒ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
___ 1	Partial cathedral ceiling	Vented	300		2600 ft²	Y	N						
CEILING (Total Exposed Area = 2860 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	2860.0ft²	0.024	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1890 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	1st Floor	13.0	13.0	0	9.0	0	117.0	0.084		0.23	0.75	0 %	
___	2	S	Exterior	Frame - Wood	1st Floor	13.0	39.0	0	9.0	0	351.0	0.084		0.23	0.75	0 %	
___	3	S	Exterior	Frame - Wood	1st Floor	13.0	13.0	0	9.0	0	117.0	0.084		0.23	0.75	0 %	
___	4	E	Exterior	Frame - Wood	1st Floor	13.0	40.0	0	9.0	0	360.0	0.084		0.23	0.75	0 %	
___	5	N	Exterior	Frame - Wood	1st Floor	13.0	65.0	0	9.0	0	585.0	0.084		0.23	0.75	0 %	
___	6	W	Exterior	Frame - Wood	1st Floor	13.0	40.0	0	9.0	0	360.0	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	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²					
___	2	N	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²					

WINDOWS														(Total Exposed Area = 168 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	15.0	1	3.00	5.00	1.5	1.0	None	None
___	2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	60.0	4	3.00	5.00	9.5	1.0	None	None
___	3	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___	4	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	3	2.00	1.00	1.0	5.0	None	None
___	5	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	10.0	1	2.00	5.00	1.0	5.0	None	None
___	6	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	27.0	3	3.00	3.00	13.5	1.0	None	None
___	7	N	5	TIM	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	13.5	1.0	None	None
___	8	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	13.5	1.0	None	None

INFILTRATION																	
✓	#	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume						
___	1	Wholehouse	Proposed ACH(50)	0.00040	2730	149.78	281.19	0.1438	7.0	All	23400 cu ft						

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	Ducts	Block								
___	1	Electric Heat Pump	None/Single		HSPF2: 8.80	33.5	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	None/Single		SEER2:17.5	35.1	1053	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	Propane	Tankless	Exterior	0.59 (0.59)	1.00 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 Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	650 ft²	Attic	6.0	130 ft²	Default Leakage	Attic	(Default)	(Default)			1 1
TEMPERATURES													
Programable Thermostat: Y													
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	
Ceiling Fans: N													
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	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	78 78
___ Heating (WD)	AM PM	66 68	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	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* = 95

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1890.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1890.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	2600	11. Ceiling Types(2860.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	2860.00 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	3125 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Attic	6	650
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	8.738 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	35.1	SEER2:17.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	33.5	HSPF2:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. PropaneTankless	Cap: 1 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0	b. Conservation features	EF: 0.590	
b. N/A		17. Credits	None	
c. N/A			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: „FL,



*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.