

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**Florida Department of Business and Professional Regulation - Residential Performance Method**

Project Name: Miller Res Street: 452 SW Mossy Oak Way City, State, Zip: Lake City, FL, 32024 Owner: Charles & Nastoshia Miller Design Location: FL, Gainesville	Builder Name: Gibraltar Contracting LLC 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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2378 Conditioned floor area below grade (ft²) 0 7. Windows(295.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 295.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 6.600 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 2378.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2269.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1924.00 ft² b. Frame - Wood, Adjacent R=13.0 345.00 ft² c. N/A d. N/A 11. Ceiling Types(2615.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 2615.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2753 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 595 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 30.9 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.3 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: 0.124

Total Proposed Modified Loads: 54.55

Total Baseline Loads: 60.69

PASS

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

PREPARED BY: _____

DATE: _____

8 / 2 / 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 558.908 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).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Miller Res	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	2378	Lot #:	---
Owner:	Charles & Nastoshia Miller	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:	Gibraltar Contracting LLC	Rotate Angle:	0	Street:	452 SW Mossy Oak Way
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
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	2378	21402 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	1st Floor	2378	21402	Yes	8	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2378 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	1st Floor	243.33	0	2378 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	2753 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	2378 ft²	Y	N

CEILING

(Total Exposed Area = 2615 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	2615.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2269 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	E	Exterior	Frame - Wood	1st Floor	13.0	9.0	6	9.0	0	85.5	0.084		0.23	0.75	0 %			
___ 2	S	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	9.0	0	18.0	0.084		0.23	0.75	0 %			
___ 3	E	Exterior	Frame - Wood	1st Floor	13.0	13.0	4	10.0	0	133.3	0.084		0.23	0.75	0 %			
___ 4	N	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	10.0	0	20.0	0.084		0.23	0.75	0 %			
___ 5	E	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0 %			
___ 6	S	Exterior	Frame - Wood	1st Floor	13.0	2.0	0	10.0	0	20.0	0.084		0.23	0.75	0 %			
___ 7	E	Exterior	Frame - Wood	1st Floor	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0 %			
___ 8	N	Exterior	Frame - Wood	1st Floor	13.0	42.0	4	9.0	0	381.0	0.084		0.23	0.75	0 %			
___ 9	W	Exterior	Frame - Wood	1st Floor	13.0	13.0	2	9.0	0	118.5	0.084		0.23	0.75	0 %			
___ 10	S	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	9.0	0	72.0	0.084		0.23	0.75	0 %			
___ 11	W	Exterior	Frame - Wood	1st Floor	13.0	18.0	6	10.0	0	185.0	0.084		0.23	0.75	0 %			
___ 12	N	Exterior	Frame - Wood	1st Floor	13.0	8.0	0	10.0	0	80.0	0.084		0.23	0.75	0 %			
___ 13	W	Exterior	Frame - Wood	1st Floor	13.0	37.0	8	10.0	0	376.7	0.084		0.23	0.75	0 %			
___ 14	S	Exterior	Frame - Wood	1st Floor	13.0	26.0	2	9.0	0	235.5	0.084		0.23	0.75	0 %			
___ 15	E	Garage	Frame - Wood	1st Floor	13.0	25.0	0	9.0	0	225.0	0.084		0.23	0.75	0 %			
___ 16	S	Garage	Frame - Wood	1st Floor	13.0	12.0	0	10.0	0	120.0	0.084		0.23	0.75	0 %			

DOORS										(Total Exposed Area = 20 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	E	Garage	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS															(Total Exposed Area = 295 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	E	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None
___ 2	E	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	7.5	1.0	None	None
___ 3	E	5	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	11.5	1.0	None	None
___ 4	E	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.0	3.0	None	None
___ 5	N	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None
___ 6	W	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	1.0	None	None
___ 7	W	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	12.5	1.0	None	None
___ 8	N	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	12.5	1.0	None	None
___ 9	W	13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	1.5	1.0	None	None
___ 10	W	13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	1	2.00	3.00	1.5	1.0	None	None
___ 11	S	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	1	4.00	4.00	1.5	1.0	None	None
___ 12	S	14	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.5	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	2497	136.99	257.18	0.1438	7.0	All	21402 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	610 ft²	610 ft²	61 ft	9 ft	1

INPUT SUMMARY CHECKLIST REPORT

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---		Ducts	Block	
						Entry	Power	Volt	Current	
1	Electric Heat Pump	None/Single		HSPF2: 8.80	36.3		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		SEER2:15.5	30.9	930	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	Garage	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	Location	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
1	Attic	6.0	595 ft²	Attic	6.0	119 ft²	Default Leakage	1st Floor	(Default)	(Default)			1 1

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: HERS 2006 Reference													
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM 78	PM 80	78	78	78	78	78	78	78	80	80	80	80
Cooling (WEH)	AM 78	PM 78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM 66	PM 68	66	66	66	68	68	68	68	68	68	68	68
Heating (WEH)	AM 66	PM 68	66	66	66	68	68	68	68	68	68	68	68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 90

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

452 SW Mossy Oak Way, Lake City, FL, 32024

1. New construction or existing	New (From Plans)	10. Wall Types(2269.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1924.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	345.00 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)	2378	11. Ceiling Types(2615.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	2615.00 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	2753 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	595
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	6.600 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	30.9	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	36.3	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		
		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: 452 SW Mossy Oak Way 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.