

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mouras Residence Street: 735 SW Sterling Terrace City, State, Zip: High Springs, FL, 32643 Owner: Dennis & Rebecca Mouras 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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Glass/Floor Area: 0.159	Total Proposed Modified Loads: 111.08	PASS
	Total Baseline Loads: 111.05	

<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: <u>Will C. My</u></p> <p>DATE: <u>3 / 1 / 2023</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</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> <div style="text-align: center;">  <p style="font-size: 1.5em; font-weight: bold; color: green;">File Copy</p> <p style="font-size: 0.8em; color: green;">Columbia County Code Compliance Plans Examining</p> </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
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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 5.00 ACH50 (R402.4.1.2).

**INPUT SUMMARY CHECKLIST REPORT****PROJECT**

Title:	Mouras Residence	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	3942	Lot #:	---
Owner:	Dennis & Rebecca Mouras	Total Stories:	2	Block/SubDivision:	---
Builder Name:	Gibraltar Contracting LLC	Worst Case:	No	PlatBook:	---
Permit Office:	Columbia County	Rotate Angle:	0	Street:	735 SW Sterling Terrace
Jurisdiction:		Cross Ventilation:	Yes	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	High Springs, FL, 32643
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2023	Shielding:	Suburban		
Comment:					

**CLIMATE**

✓ Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp 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	3942	39420 cu ft

**SPACES**

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	1st Floor	3072	30720	Yes	8	4	Yes	Yes	Yes
___ 2	Bonus Room	870	8700	No	2	0	Yes	Yes	Yes

**FLOORS**

(Total Exposed Area = 3942 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	328.1	0	3072 ft	0.304	---	0.00	0.00	1.00
___ 2	Floor over Garage	Bonus Room	---	---	870 ft	0.046	19	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	4928 ft <sup>2</sup>	1478 ft <sup>2</sup>	Medium	Y	0.96	No	0.9	No	0	36.87

**ATTIC**

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	3942 ft <sup>2</sup>	Y	N

**CEILING**

(Total Exposed Area = 4140 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	3226.0ft <sup>2</sup>	0.024	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

## CEILING(Continued)

   2 Flat ceiling under attic(Vented) Bonus Room 38.0 Double Batt 913.5ft² 0.024 0.11 Wood

## WALLS (Total Exposed Area = 4631 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
<u>  </u> 1	NW	Exterior	Frame - Wood	1st Floor	13.0	34.0 6	11.0 0	379.5	0.084		0.23	0.75	0 %
<u>  </u> 2	SW	Exterior	Frame - Wood	1st Floor	13.0	10.0 0	11.0 0	110.0	0.084		0.23	0.75	0 %
<u>  </u> 3	NW	Exterior	Frame - Wood	1st Floor	13.0	11.0 2	10.0 0	111.7	0.084		0.23	0.75	0 %
<u>  </u> 4	NE	Exterior	Frame - Wood	1st Floor	13.0	1.0 8	10.0 0	16.7	0.084		0.23	0.75	0 %
<u>  </u> 5	NW	Exterior	Frame - Wood	1st Floor	13.0	13.0 4	10.0 0	133.3	0.084		0.23	0.75	0 %
<u>  </u> 6	SW	Exterior	Frame - Wood	1st Floor	13.0	16.0 4	10.0 0	163.3	0.084		0.23	0.75	0 %
<u>  </u> 7	NW	Exterior	Frame - Wood	1st Floor	13.0	3.0 6	10.0 0	35.0	0.084		0.23	0.75	0 %
<u>  </u> 8	SW	Exterior	Frame - Wood	1st Floor	13.0	20.0 6	10.0 0	205.0	0.084		0.23	0.75	0 %
<u>  </u> 9	SE	Exterior	Frame - Wood	1st Floor	13.0	3.0 6	10.0 0	35.0	0.084		0.23	0.75	0 %
<u>  </u> 10	SW	Exterior	Frame - Wood	1st Floor	13.0	6.0 1	10.0 0	60.8	0.084		0.23	0.75	0 %
<u>  </u> 11	SE	Garage	Frame - Wood	1st Floor	13.0	27.0 6	10.0 0	275.0	0.084		0.23	0.75	0 %
<u>  </u> 12	NE	Exterior	Frame - Wood	1st Floor	13.0	18.0 4	10.0 0	183.3	0.084		0.23	0.75	0 %
<u>  </u> 13	SE	Exterior	Frame - Wood	1st Floor	13.0	32.0 4	10.0 0	323.3	0.084		0.23	0.75	0 %
<u>  </u> 14	SW	Exterior	Frame - Wood	1st Floor	13.0	3.0 4	10.0 0	33.3	0.084		0.23	0.75	0 %
<u>  </u> 15	SE	Exterior	Frame - Wood	1st Floor	13.0	11.0 0	10.0 0	110.0	0.084		0.23	0.75	0 %
<u>  </u> 16	SW	Exterior	Frame - Wood	1st Floor	13.0	12.0 10	10.0 0	128.3	0.084		0.23	0.75	0 %
<u>  </u> 17	SE	Exterior	Frame - Wood	1st Floor	13.0	19.0 2	10.0 0	191.7	0.084		0.23	0.75	0 %
<u>  </u> 18	NE	Exterior	Frame - Wood	1st Floor	13.0	31.0 3	10.0 0	312.5	0.084		0.23	0.75	0 %
<u>  </u> 19	NW	Exterior	Frame - Wood	1st Floor	13.0	13.0 4	10.0 0	133.3	0.084		0.23	0.75	0 %
<u>  </u> 20	SW	Exterior	Frame - Wood	1st Floor	13.0	1.0 8	10.0 0	16.7	0.084		0.23	0.75	0 %
<u>  </u> 21	NW	Exterior	Frame - Wood	1st Floor	13.0	4.0 0	10.0 0	40.0	0.084		0.23	0.75	0 %
<u>  </u> 22	NE	Exterior	Frame - Wood	1st Floor	13.0	9.0 0	10.0 0	90.0	0.084		0.23	0.75	0 %
<u>  </u> 23	NW	Exterior	Frame - Wood	1st Floor	13.0	11.0 4	10.0 0	113.3	0.084		0.23	0.75	0 %
<u>  </u> 24	NE	Exterior	Frame - Wood	1st Floor	13.0	9.0 4	11.0 0	102.7	0.084		0.23	0.75	0 %
<u>  </u> 25	NW	Exterior	Frame - Wood	Bonus Room	13.0	16.0 4	10.0 0	163.3	0.084		0.23	0.75	0 %
<u>  </u> 26	SW	Exterior	Frame - Wood	Bonus Room	13.0	50.0 0	10.0 0	500.0	0.084		0.23	0.75	0 %
<u>  </u> 27	SE	Exterior	Frame - Wood	Bonus Room	13.0	16.0 4	10.0 0	163.3	0.084		0.23	0.75	0 %
<u>  </u> 28	NE	Exterior	Frame - Wood	Bonus Room	13.0	50.0 0	10.0 0	500.0	0.084		0.23	0.75	0 %

## DOORS (Total Exposed Area = 18 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
<u>  </u> 1	SE	Garage	Insulated	1st Floor	None	0.46	2.00 8	6.00 8	17.8ft²

## WINDOWS (Total Exposed Area = 625 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
<u>  </u> 1	NW	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	136.0	6	2.67	8.50	9.5	0.5	None	None
<u>  </u> 2	NW	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	7.5	1	5.00	1.50	9.5	0.5	None	None
<u>  </u> 3	NW	1	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	2.50	8.00	9.5	2.0	None	None
<u>  </u> 4	SW	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	45.3	2	2.67	8.50	9.5	0.5	None	None
<u>  </u> 5	NW	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	17.5	1	2.50	7.00	9.5	2.0	None	None
<u>  </u> 6	NW	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	52.5	3	2.50	7.00	1.0	2.0	None	None
<u>  </u> 7	SW	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	22.0	2	2.00	5.50	1.0	3.0	None	None
<u>  </u> 8	SW	10	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	1	2.00	4.00	1.5	1.0	None	None
<u>  </u> 9	NE	12	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	12.5	1.0	None	None
<u>  </u> 10	SE	13	Vinyl	Low-E Double	Y	0.36	0.25	N	N	16.0	2	2.00	4.00	19.5	1.0	None	None
<u>  </u> 11	SE	13	Metal	Low-E Double	Y	0.36	0.25	N	N	96.0	1	12.00	8.00	19.5	1.0	None	None

# INPUT SUMMARY CHECKLIST REPORT

## WINDOWS(Continued)

___ 12SE	15	Vinyl	Low-E Double	Y	0.36	0.25	N	N	21.0	1	3.00	7.00	17.5	1.0	None	None
___ 13SE	17	Vinyl	Low-E Double	Y	0.36	0.25	N	N	21.0	1	3.00	7.00	1.5	1.0	None	None
___ 14NW	19	Vinyl	Low-E Double	Y	0.36	0.25	N	N	52.5	3	2.50	7.00	1.0	3.0	None	None
___ 15NW	23	Vinyl	Low-E Double	Y	0.36	0.25	N	N	17.5	1	2.50	7.00	9.5	2.0	None	None
___ 16SW	26	Vinyl	Low-E Double	Y	0.36	0.25	N	N	48.0	3	3.00	5.33	1.0	1.0	None	None

## INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00032	3285	180.22	338.35	0.1413	5.0	All	39420 cu ft

## GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	1242 ft²	1242 ft²	125 ft	9 ft	1

## MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bonus Room

## 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		HSPF: 8.20	63.6		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		SEER:14.0	54.8	1650	0.70	sys#1	1

## 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 R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	986 ft²	6.0	197 ft²	Default Leakage	Attic	(Default)	(Default)			1 1

# INPUT SUMMARY CHECKLIST REPORT

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		
<input checked="" type="checkbox"/> Thermostat Schedule: HERS 2006 Reference														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	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	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66	66



# Envelope Leakage Test Report (Blower Door Test)

## Residential Prescriptive, Performance or ERI Method Compliance

### 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
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#### Job Information

Builder: Gibraltar Contracting LLC	Community:	Lot: NA
Address: 735 SW Sterling Terrace		
City: High Springs	State: FL	Zip: 32643

#### Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method

<input type="radio"/> <b>PRESCRIPTIVE METHOD</b> -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.
<input checked="" type="radio"/> <b>PERFORMANCE or ERI METHOD</b> -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> <span style="border: 1px solid black; padding: 2px 10px;">5.000</span>

$\frac{\text{CFM}(50) \times 60 \div 39420}{\text{Building Volume}} = \text{ACH}(50)$ <div style="text-align: center; margin-top: 10px;"> <input type="checkbox"/> <b>PASS</b> </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<b>Method for calculating building volume:</b> <input type="radio"/> Retrieved from architectural plans <input checked="" type="radio"/> Code software calculated <input type="radio"/> Field measured and calculated
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**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) Florida Statutes 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 code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

**During testing:**

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

Company Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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.

Signature of Tester: \_\_\_\_\_ Date of Test: \_\_\_\_\_

Printed Name of Tester: \_\_\_\_\_

License/Certification #: \_\_\_\_\_ Issuing Authority: \_\_\_\_\_