

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Business and Professional Regulation - Residential Performance Method

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

<table style="width:100%; border-collapse: collapse;"> <tr> <td>1. New construction or existing</td> <td style="text-align: right;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td style="text-align: right;">Detached</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td style="text-align: right;">1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td style="text-align: right;">3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td style="text-align: right;">No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft<sup>2</sup>)</td> <td style="text-align: right;">1105</td> </tr> <tr> <td>    Conditioned floor area below grade (ft<sup>2</sup>)</td> <td style="text-align: right;">0</td> </tr> <tr> <td>7. Windows(78.0 sqft.)</td> <td style="text-align: right;">Description      Area</td> </tr> <tr> <td>    a. U-Factor:</td> <td style="text-align: right;">Dbl, U=0.26      78.00 ft<sup>2</sup></td> </tr> <tr> <td>    SHGC:</td> <td style="text-align: right;">SHGC=0.20</td> </tr> <tr> <td>    b. U-Factor:</td> <td style="text-align: right;">N/A      ft<sup>2</sup></td> </tr> <tr> <td>    SHGC:</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>    c. U-Factor:</td> <td style="text-align: right;">N/A      ft<sup>2</sup></td> </tr> <tr> <td>    SHGC:</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>    Area Weighted Average Overhang Depth:</td> <td style="text-align: right;">1.500 ft</td> </tr> <tr> <td>    Area Weighted Average SHGC:</td> <td style="text-align: right;">0.200</td> </tr> <tr> <td>8. Skylights</td> <td style="text-align: right;">Description      Area</td> </tr> <tr> <td>    U-Factor:(AVG)</td> <td style="text-align: right;">N/A      N/A ft<sup>2</sup></td> </tr> <tr> <td>    SHGC(AVG):</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>9. Floor Types</td> <td style="text-align: right;">Insulation      Area</td> </tr> <tr> <td>    a. Slab-On-Grade Edge Insulation</td> <td style="text-align: right;">R= 0.0      1105.00 ft<sup>2</sup></td> </tr> <tr> <td>    b. N/A</td> <td style="text-align: right;">R=      ft<sup>2</sup></td> </tr> <tr> <td>    c. N/A</td> <td style="text-align: right;">R=      ft<sup>2</sup></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 (ft <sup>2</sup> )	1105	Conditioned floor area below grade (ft <sup>2</sup> )	0	7. Windows(78.0 sqft.)	Description      Area	a. U-Factor:	Dbl, U=0.26      78.00 ft <sup>2</sup>	SHGC:	SHGC=0.20	b. U-Factor:	N/A      ft <sup>2</sup>	SHGC:	N/A	c. U-Factor:	N/A      ft <sup>2</sup>	SHGC:	N/A	Area Weighted Average Overhang Depth:	1.500 ft	Area Weighted Average SHGC:	0.200	8. Skylights	Description      Area	U-Factor:(AVG)	N/A      N/A ft <sup>2</sup>	SHGC(AVG):	N/A	9. Floor Types	Insulation      Area	a. Slab-On-Grade Edge Insulation	R= 0.0      1105.00 ft <sup>2</sup>	b. N/A	R=      ft <sup>2</sup>	c. N/A	R=      ft <sup>2</sup>	<table style="width:100%; border-collapse: collapse;"> <tr> <td>10. Wall Types(1152.0 sqft.)</td> <td style="text-align: right;">Insulation      Area</td> </tr> <tr> <td>    a. Frame - Wood, Exterior</td> <td style="text-align: right;">R=13.0      1152.00 ft<sup>2</sup></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(1105.0 sqft.)</td> <td style="text-align: right;">Insulation      Area</td> </tr> <tr> <td>    a. Flat ceiling under att (Unvented)</td> <td style="text-align: right;">R=30.0      1105.00 ft<sup>2</sup></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 style="text-align: right;">Deck R=0.0      1165 ft<sup>2</sup></td> </tr> <tr> <td>13. Ducts, location &amp; insulation level</td> <td style="text-align: right;">R      ft<sup>2</sup></td> </tr> <tr> <td>    a. Sup: Attic, Ret: Attic, AH: Main</td> <td style="text-align: right;">6      221</td> </tr> <tr> <td>    b.</td> <td></td> </tr> <tr> <td>    c.</td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td style="text-align: right;">kBtu/hr      Efficiency</td> </tr> <tr> <td>    a. Central Unit</td> <td style="text-align: right;">24.0      SEER2:16.00</td> </tr> <tr> <td>15. Heating Systems</td> <td style="text-align: right;">kBtu/hr      Efficiency</td> </tr> <tr> <td>    a. Electric Heat Pump</td> <td style="text-align: right;">24.0      HSPF2:7.50</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> </tr> <tr> <td>    a. Electric</td> <td style="text-align: right;">Cap: 50 gallons</td> </tr> <tr> <td></td> <td style="text-align: right;">EF: 0.920</td> </tr> <tr> <td>    b. Conservation features</td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">None</td> </tr> <tr> <td>17. Credits</td> <td style="text-align: right;">Pstat</td> </tr> </table>	10. Wall Types(1152.0 sqft.)	Insulation      Area	a. Frame - Wood, Exterior	R=13.0      1152.00 ft <sup>2</sup>	b. N/A		c. N/A		d. N/A		11. Ceiling Types(1105.0 sqft.)	Insulation      Area	a. Flat ceiling under att (Unvented)	R=30.0      1105.00 ft <sup>2</sup>	b. N/A		c. N/A		12. Roof(Comp. Shingles, Vented)	Deck R=0.0      1165 ft <sup>2</sup>	13. Ducts, location & insulation level	R      ft <sup>2</sup>	a. Sup: Attic, Ret: Attic, AH: Main	6      221	b.		c.		14. Cooling Systems	kBtu/hr      Efficiency	a. Central Unit	24.0      SEER2:16.00	15. Heating Systems	kBtu/hr      Efficiency	a. Electric Heat Pump	24.0      HSPF2:7.50	16. Hot Water Systems		a. Electric	Cap: 50 gallons		EF: 0.920	b. Conservation features			None	17. Credits	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 (ft <sup>2</sup> )	1105																																																																																														
Conditioned floor area below grade (ft <sup>2</sup> )	0																																																																																														
7. Windows(78.0 sqft.)	Description      Area																																																																																														
a. U-Factor:	Dbl, U=0.26      78.00 ft <sup>2</sup>																																																																																														
SHGC:	SHGC=0.20																																																																																														
b. U-Factor:	N/A      ft <sup>2</sup>																																																																																														
SHGC:	N/A																																																																																														
c. U-Factor:	N/A      ft <sup>2</sup>																																																																																														
SHGC:	N/A																																																																																														
Area Weighted Average Overhang Depth:	1.500 ft																																																																																														
Area Weighted Average SHGC:	0.200																																																																																														
8. Skylights	Description      Area																																																																																														
U-Factor:(AVG)	N/A      N/A ft <sup>2</sup>																																																																																														
SHGC(AVG):	N/A																																																																																														
9. Floor Types	Insulation      Area																																																																																														
a. Slab-On-Grade Edge Insulation	R= 0.0      1105.00 ft <sup>2</sup>																																																																																														
b. N/A	R=      ft <sup>2</sup>																																																																																														
c. N/A	R=      ft <sup>2</sup>																																																																																														
10. Wall Types(1152.0 sqft.)	Insulation      Area																																																																																														
a. Frame - Wood, Exterior	R=13.0      1152.00 ft <sup>2</sup>																																																																																														
b. N/A																																																																																															
c. N/A																																																																																															
d. N/A																																																																																															
11. Ceiling Types(1105.0 sqft.)	Insulation      Area																																																																																														
a. Flat ceiling under att (Unvented)	R=30.0      1105.00 ft <sup>2</sup>																																																																																														
b. N/A																																																																																															
c. N/A																																																																																															
12. Roof(Comp. Shingles, Vented)	Deck R=0.0      1165 ft <sup>2</sup>																																																																																														
13. Ducts, location & insulation level	R      ft <sup>2</sup>																																																																																														
a. Sup: Attic, Ret: Attic, AH: Main	6      221																																																																																														
b.																																																																																															
c.																																																																																															
14. Cooling Systems	kBtu/hr      Efficiency																																																																																														
a. Central Unit	24.0      SEER2:16.00																																																																																														
15. Heating Systems	kBtu/hr      Efficiency																																																																																														
a. Electric Heat Pump	24.0      HSPF2:7.50																																																																																														
16. Hot Water Systems																																																																																															
a. Electric	Cap: 50 gallons																																																																																														
	EF: 0.920																																																																																														
b. Conservation features																																																																																															
	None																																																																																														
17. Credits	Pstat																																																																																														

Glass/Floor Area: 0.071      Total Proposed Modified Loads: 37.48  
 Total Baseline Loads: 39.55

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.

**PASS**

<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: _____</p> <p>DATE: 12-23-25</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;">  </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
--	---

- 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.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- 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:	Joseph Mistretta	Address type:	Street Address		
Building Type:	User	Bedrooms:	3	Lot #:	---
Owner:		Conditioned Area:	1105	Block/SubDivision:	---
Builder Home ID:		Total Stories:	1	PlatBook:	---
Builder Name:		Worst Case:	No	Street:	
Permit Office:		Rotate Angle:	0	County:	Columbia
Jurisdiction:		Cross Ventilation:		City, State, Zip:	, FL,
Family Type:	Detached	Whole House Fan:			
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2026	Shielding:	Moderate/Rural		
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	1105	8840 cu ft

**SPACES**

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1105	8840	Yes	6	3	Yes	Yes	Yes

**FLOORS**

(Total Exposed Area = 1105 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	144	1105 sqft	0.0	---	0.549	0 (ft)/0 (ft)	0.20	0.40 0.40

**ROOF**

✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	1165 ft <sup>2</sup>	0 ft <sup>2</sup>	0.11	Dark	N	0.92	No	0.9	No	0	18.43

**ATTIC**

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1105 ft <sup>2</sup>	N	N

**CEILING**

(Total Exposed Area = 1105 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	1105.0ft <sup>2</sup>	0.030	0.11	Wood

# INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1152 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	N	Exterior	Frame - Wood	Main	13.0	48.0	0	8.0	0	384.0	0.084		0.23	0.75	0 %	
___ 2	E	Exterior	Frame - Wood	Main	13.0	24.0	0	8.0	0	192.0	0.084		0.23	0.75	0 %	
___ 3	S	Exterior	Frame - Wood	Main	13.0	36.0	4	8.0	0	290.7	0.084		0.23	0.75	0 %	
___ 4	W	Exterior	Frame - Wood	Main	13.0	4.0	0	8.0	0	32.0	0.084		0.23	0.75	0 %	
___ 5	S	Exterior	Frame - Wood	Main	13.0	11.0	8	8.0	0	93.3	0.084		0.23	0.75	0 %	
___ 6	W	Exterior	Frame - Wood	Main	13.0	20.0	0	8.0	0	160.0	0.084		0.23	0.75	0 %	

  

DOORS												(Total Exposed Area = 100 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	E	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²			
___ 2	S	Exterior	Wood	Main	None	0.46	3.00	0	6.00	8	20.0ft²			
___ 3	S	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²			

  

WINDOWS																(Total Exposed Area = 78 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	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	18.0	3	2.00	3.00	1.5	1.3	None	None		
___ 2	S	3	Vinyl	Low-E Double	Y 0.26	0.20	N	N	60.0	4	3.00	5.00	1.5	1.3	None	None		

  

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00025	737	40.42	75.88	0.0980	5.0	All	8840 cu ft

  

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---			Ducts	Block	
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	24.0		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		SEER2:16.0	24.0	720	0.75	sys#1	1

# INPUT SUMMARY CHECKLIST REPORT

## HOT WATER SYSTEM

√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.92 (0.92)	50.0 gal	60 gal	120 deg	Standard	Yes	None	99
	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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
___ 1	Attic 6.0 221 ft²	Attic 6.0 55 ft²	Prop. Leak Free	Main	--- ---	0.030	Yes	0.50	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	Hours														
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	78	78	78	78	78	
	PM 80	80	80	80	80	80	80	80	80	80	80	80	80	80	
___ Cooling (WEH)	AM 78	78	78	78	78	78	78	78	78	78	78	78	78	78	
	PM 80	80	80	80	80	80	80	80	80	80	80	80	80	80	
___ Heating (WD)	AM 65	65	65	65	65	65	65	65	68	68	68	68	68	68	
	PM 68	68	68	68	68	68	68	68	68	68	68	68	68	68	
___ Heating (WEH)	AM 65	65	65	65	65	65	65	65	68	68	68	68	68	68	
	PM 68	68	68	68	68	68	68	68	68	68	68	68	68	68	