

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

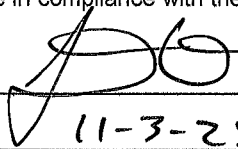

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name Mathis Residence Street: City, State, Zip , FL, Owner Design Location FL, Gainesville		Builder Name: Permit Office 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 2 5 Is this a worst case? No 6 Conditioned floor area above grade (ft²) 1553 Conditioned floor area below grade (ft²) 0 7 Windows(255 5 sqft.) Description Area a U-Factor Dbl, U=0 26 255 50 ft² SHGC SHGC=0 20 b U-Factor N/A ft² SHGC c U-Factor N/A ft² SHGC 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 ft² SHGC(AVG). N/A 9 Floor Types Insulation Area a Slab-On-Grade Edge Insulation R= 0 0 1553 00 ft² b N/A R= ft² c N/A R= ft²	10 Wall Types(1548 0 sqft.) Insulation Area a Frame - Wood, Exterior R=13 0 1548 00 ft² b N/A c N/A d N/A 11 Ceiling Types(1553 0 sqft) Insulation Area a Flat ceiling under att (Unvented) R=30 0 1553 00 ft² b N/A c N/A 12 Roof(Comp Shingles, Vented) Deck R=0 0 1798 ft² 13 Ducts, location & insulation level R ft² a Sup Attic, Ret: Attic, AH Main 6 311 b c. 14 Cooling Systems kBtu/hr Efficiency a Central Unit 36.0 SEER2.15 00 15 Heating Systems kBtu/hr Efficiency a Electric Heat Pump 36.0 HSPF2.7 50 16 Hot Water Systems Cap 50 gallons a Electric EF 0.920 b Conservation features None 17 Credits CF, Pstat
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Glass/Floor Area 0 165	Total Proposed Modified Loads 40 83	PASS
	Total Baseline Loads 45 85	

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 <u>11-3-25</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  BUILDING OFFICIAL. _____ DATE _____
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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.
- 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 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title	Mathis Residence	Bedrooms	2	Address type.	Street Address
Building Type	User	Conditioned Area	1553	Lot #	---
Owner		Total Stories	1	Block/SubDivision	---
Builder Home ID		Worst Case	No	PlatBook.	---
Builder Name		Rotate Angle	0	Street	
Permit Office		Cross Ventilation		County	columbia
Jurisdiction		Whole House Fan		City, State, Zip	FL,
Family Type	Detached	Terrain	Rural		
New/Existing	New (From Plans)	Shielding	Moderate/Rural		
Year Construct	2025				
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	1553	13977 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1553	13977	Yes	4	2	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1553 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	Main	173	1553 sqft	0 0 ---	0 631	0 (ft)/0 (ft)	0.40	0 60	0 00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Framing Fract.	Roof Color	Rad Barr	Solar Absor	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
___ 1	Gable or shed	Composition shingles	1798 ft²	454 ft²	0 11	Medium	N	0 85	No	0 9	No	0	30 26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1553 ft²	N	N

CEILING

(Total Exposed Area = 1553 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	1553 0ft²	0.030	0 11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

(Total Exposed Area = 1548 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	42.0 0	9 0 0	378.0	0 084		0 23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	13 0	32.0 0	9 0 0	288.0	0 084		0 23	0.75	0 %
___ 3	S	Exterior	Frame - Wood	Main	13 0	42.0 0	9 0 0	378.0	0 084		0.23	0.75	0 %
___ 4	W	Exterior	Frame - Wood	Main	13 0	10.0 0	9 0 0	90.0	0.084		0.23	0.75	0 %
___ 5	S	Exterior	Frame - Wood	Main	13 0	12.0 0	9 0 0	108.0	0 084		0 23	0.75	0 %
___ 6	W	Exterior	Frame - Wood	Main	13 0	16.0 0	9 0 0	144.0	0 084		0 23	0.75	0 %
___ 7	N	Exterior	Frame - Wood	Main	13 0	12.0 0	9 0 0	108.0	0 084		0 23	0.75	0 %
___ 8	W	Exterior	Frame - Wood	Main	13 0	6.0 0	9.0 0	54.0	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	N	Exterior	Insulated	Main	None	0.46	3 00 0	6 00 8	20.0ft²
___ 2	S	Exterior	Insulated	Main	None	0.46	3 00 0	6 00 8	20.0ft²

WINDOWS

(Total Exposed Area = 256 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	6.0	1	2.00	3.00	1.5 1.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	60.0	4	2.50	6.00	1.5 1.3	None	None
___ 3	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	8.0	2	3.00	1.33	1.5 1.3	None	None
___ 4	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	14.0	1	3.50	4.00	1.5 1.3	None	None
___ 5	E	2	Vinyl	Low-E Double	Y 0.26	0.20	N	N	17.5	1	5.00	3.50	1.5 1.3	None	None
___ 6	E	2	Vinyl	Low-E Double	Y 0.26	0.20	N	N	6.0	1	2.00	3.00	1.5 1.3	None	None
___ 7	E	2	Vinyl	Low-E Double	Y 0.26	0.20	N	N	10.0	1	6.00	1.67	1.5 1.3	None	None
___ 8	S	3	Vinyl	Low-E Double	Y 0.26	0.20	N	N	75.0	6	2.50	5.00	1.5 1.3	None	None
___ 9	S	3	Vinyl	Low-E Double	Y 0.26	0.20	N	N	4.0	1	3.00	1.33	1.5 1.3	None	None
___ 10	W	4	Vinyl	Low-E Double	Y 0.26	0.20	N	N	15.0	1	3.00	5.00	1.5 1.3	None	None
___ 11	S	5	Vinyl	Low-E Double	Y 0.26	0.20	N	N	15.0	1	3.00	5.00	1.5 1.3	None	None
___ 12	W	6	Vinyl	Low-E Double	Y 0.26	0.20	N	N	10.0	1	6.00	1.67	1.5 1.3	None	None
___ 13	N	7	Vinyl	Low-E Double	Y 0.26	0.20	N	N	15.0	1	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)	0.00034	1398	76.68	143.96	0.1232	6.0	All	13977 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--- Entry Power Volt Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single	HSPF2.7	50	36.0	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 0	36 0	1080	0 75	sys#1	1

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	50 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 #	Location	Supply R-Value	Area	Location	Return R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
1	Attic	6 0	311 ft²	Attic	6 0	78 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 PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
_____	Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
_____	Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
_____	Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 89

The lower the EnergyPerformance Index, the more efficient the home

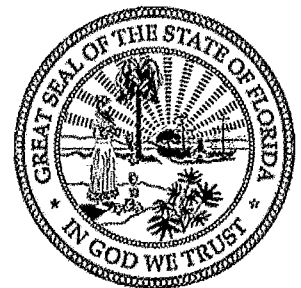
„FL,

1 New construction or existing	New (From Plans)	10 Wall Types(1548 0 sqft.)	Insulation	Area
2 Single family or multiple family	Detached	a Frame - Wood, Exterior	R=13 0	1548 00 ft ²
3 Number of units, if multiple family	1	b N/A		
4 Number of Bedrooms	2	c. N/A		
5 Is this a worst case?	No	d N/A		
6 Conditioned floor area above grade (ft ²)	1553	11 Ceiling Types(1553 0 sqft)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a Flat ceiling under att (Unvented)	R=30 0	1553 00 ft ²
7 Windows**	Description	b N/A		
a U-Factor	Dbl, U=0 26	c. N/A		
SHGC	SHGC=0 20	12 Roof(Comp Shingles, Vented)	Deck R=0 0	1798 ft ²
b. U-Factor.	N/A	13 Ducts, location & insulation level	R	ft ²
SHGC		a Sup Attic, Ret Attic, AH Main	6	311
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	0 200	a Central Unit	36 0	SEER2 15 00
8 Skylights	Description	15 Heating Systems	kBtu/hr	Efficiency
U-Factor (AVG)	N/A	a Electric Heat Pump	36 0	HSPF2 7 50
SHGC(AVG)	N/A			
9 Floor Types	Insulation	16 Hot Water Systems		
a Slab-On-Grade Edge Insulation	R= 0 0	a Electric	Cap	50 gallons
b N/A	R=		EF	0 920
c. N/A	R=	b Conservation features		
				None
		17 Credits		CF, 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