

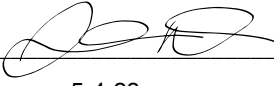
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mancilla 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 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2019 Conditioned floor area below grade (ft²) 0 7. Windows(178.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 178.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 2.717 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 2019.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1863.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1863.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2019.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2019.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2257 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 404 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 42.0 SEER:15.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 42.0 HSPF:8.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features 17. Credits None Pstat
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Glass/Floor Area: 0.088	Total Proposed Modified Loads: 52.48	PASS
	Total Baseline Loads: 53.67	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 5-4-23 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: Tabitha Sibel/Robert Hoag DATE: 8.8.23	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.
- 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 4.73 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Mancilla Residence				Address type:		Street Address					
Building Type:	User				Bedrooms:	5		Lot #:	---			
Owner:					Conditioned Area:	2019		Block/SubDivision:	---			
					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:	2023				Shielding:	Moderate/Rural						
Comment:												
CLIMATE												
✓ Design Location	Tmy Site		Design Temp		Int Design Temp		Heating Degree Days		Design Moisture		Daily temp Range	
			97.5%	2.5%	Winter	Summer						
___ FL, Gainesville	FL_GAINESVILLE_REGIONA		32	92	70	75	1305.5	51	Medium			
BLOCKS												
✓ Number	Name	Area	Volume									
___ 1	Block1	2019	18171 cu ft									
SPACES												
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
___ 1	Main	2019	18171	Yes	10	5	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 2019 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	Main	207	0	2019 ft	0.563	---	0.20	0.60	0.20		
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	2257 ft²	0 ft²	Dark	N	0.92	No	0.9	No	0	26.57
ATTIC												
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC					
___ 1	Full attic	Vented	300		2019 ft²	N	N					
CEILING (Total Exposed Area = 2019 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	2019.0ft²	0.053	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 1863 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	40.0	10	9.0	0	367.5	0.094		0.23	0.75	0 %					
___ 2	E	Exterior	Frame - Wood	Main	13.0	13.0	4	9.0	0	120.0	0.094		0.23	0.75	0 %					
___ 3	S	Exterior	Frame - Wood	Main	13.0	8.0	8	9.0	0	78.0	0.094		0.23	0.75	0 %					
___ 4	E	Exterior	Frame - Wood	Main	13.0	21.0	6	9.0	0	193.5	0.094		0.23	0.75	0 %					
___ 5	N	Exterior	Frame - Wood	Main	13.0	8.0	8	9.0	0	78.0	0.094		0.23	0.75	0 %					
___ 6	E	Exterior	Frame - Wood	Main	13.0	19.0	2	9.0	0	172.5	0.094		0.23	0.75	0 %					
___ 7	S	Exterior	Frame - Wood	Main	13.0	40.0	10	9.0	0	367.5	0.094		0.23	0.75	0 %					
___ 8	W	Exterior	Frame - Wood	Main	13.0	54.0	0	9.0	0	486.0	0.094		0.23	0.75	0 %					

DOORS																	(Total Exposed Area = 53 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area									
___ 1	E	Exterior	Insulated	Main	None	0.40	5.00	0	6.00	8	33.3ft²									
___ 2	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²									

WINDOWS																	(Total Exposed Area = 178 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	30.0	2	3.00	5.00	1.5	2.3	None	None			
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None			
___ 3	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	2.3	None	None			
___ 4	E	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	25.0	2	2.50	5.00	10.2	2.3	None	None			
___ 5	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	75.0	5	3.00	5.00	1.5	2.3	None	None			
___ 6	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None			
___ 7	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None			

INFILTRATION																
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume						
___ 1	Wholehouse	Proposed ACH(50)	0.00027	1432	78.59	147.54	0.0972	4.7	All	18171 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		HSPF: 8.50	42.0		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		SEER:15.0	42.0	1260	0.85	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.92 (0.92)	50.00 gal	80 gal	120 deg	Standard	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	-----Return----- R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0 404 ft²	Attic 6.0 101 ft²	Default Leakage	Main	(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	Hours 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* = 98

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1863.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1863.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	5	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	2019	11. Ceiling Types(2019.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	2019.00 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	2257 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	404
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.717 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Central Unit	42.0	SEER:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	42.0	HSPF:8.50
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		
		17. Credits	None	
			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: Tabitha Sibel/Robert Hoag Date: 8.8.23

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.