

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

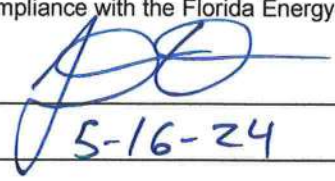
Florida Department of Business and Professional Regulation - Residential Performance Method

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

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Glass/Floor Area: 0.123	Total Proposed Modified Loads: 65.46	PASS
	Total Baseline Loads: 71.46	

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: <u></u> DATE: <u>5-16-24</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 a roof absorptance test and a roof emittance test in accordance with R405.7.2
- 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 5.53 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Owens Residence	Bedrooms:	5	Address type:	Street Address
Building Type:	User	Conditioned Area:	2304	Lot #:	---
Owner:		Total Stories:	2	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:	2024				
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	1234	11106 cu ft
___ 2	Block2	1070	8560 cu ft

SPACES

☒ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1234	11106	Yes	2	1	Yes	Yes	Yes
___ 2	2nd Floor	823	6584	No	8	4	Yes	Yes	Yes
___ 3	bonus Room	247	1976	No	0	0	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1481 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	141	1234 sqft	0	---	0 (ft)/0 (ft)	0.20	0.60	0.20
___ 2	Floor Over Other Space	2nd Floor	---	823 sqft	---	0	---	0.20	0.60	0.20
___ 3	Floor over Garage	bonus Room	---	247 sqft	---	0	---	0.00	0.00	1.00

ROOF

☒ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Gable or shed	Metal	1780 ft²	494 ft²	Unf, Gal.	N	0.7	No	0.7	No	0	33.69

ATTIC

☒ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	1481 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

(Total Exposed Area = 2304 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	411.0ft²	0.030	0.11	Wood
___ 2	Single assembly, with airspace(Vented)	Main	30.0	Blown	823.0ft²	0.033	0.11	Wood
___ 3	Flat ceiling under attic(Vented)	2nd Floor	30.0	Blown	823.0ft²	0.030	0.11	Wood
___ 4	Single assembly, no airspace(Vented)	bonus Room	30.0	Blown	247.0ft²	0.034	0.11	Wood

WALLS

(Total Exposed Area = 2533 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	33.0	8	9.0	0	303.0	0.084		0.23	0.75	0 %
___ 2	E	Garage	Frame - Wood	Main	13.0	22.0	8	9.0	0	204.0	0.084		0.23	0.75	0 %
___ 3	E	Exterior	Frame - Wood	Main	13.0	14.0	0	9.0	0	126.0	0.084		0.23	0.75	0 %
___ 4	S	Exterior	Frame - Wood	Main	13.0	33.0	8	9.0	0	303.0	0.084		0.23	0.75	0 %
___ 5	W	Exterior	Frame - Wood	Main	13.0	36.0	8	9.0	0	330.0	0.084		0.23	0.75	0 %
___ 6	N	Exterior	Frame - Wood	2nd Floor	13.0	10.0	10	8.0	0	86.7	0.084		0.23	0.75	0 %
___ 7	W	Exterior	Frame - Wood	2nd Floor	13.0	11.0	2	8.0	0	89.3	0.084		0.23	0.75	0 %
___ 8	N	Exterior	Frame - Wood	2nd Floor	13.0	12.0	0	8.0	0	96.0	0.084		0.23	0.75	0 %
___ 9	E	Exterior	Frame - Wood	2nd Floor	13.0	11.0	2	8.0	0	89.3	0.084		0.23	0.75	0 %
___ 10	N	Exterior	Frame - Wood	2nd Floor	13.0	10.0	10	8.0	0	86.7	0.084		0.23	0.75	0 %
___ 11	E	Exterior	Frame - Wood	2nd Floor	13.0	17.0	6	8.0	0	140.0	0.084		0.23	0.75	0 %
___ 12	S	Exterior	Frame - Wood	2nd Floor	13.0	10.0	10	8.0	0	86.7	0.084		0.23	0.75	0 %
___ 13	E	Exterior	Frame - Wood	2nd Floor	13.0	11.0	2	8.0	0	89.3	0.084		0.23	0.75	0 %
___ 14	S	Exterior	Frame - Wood	2nd Floor	13.0	12.0	0	8.0	0	96.0	0.084		0.23	0.75	0 %
___ 15	W	Exterior	Frame - Wood	2nd Floor	13.0	11.0	2	8.0	0	89.3	0.084		0.23	0.75	0 %
___ 16	S	Exterior	Frame - Wood	2nd Floor	13.0	10.0	10	8.0	0	86.7	0.084		0.23	0.75	0 %
___ 17	S	Exterior	Frame - Wood	2nd Floor	13.0	17.0	6	8.0	0	140.0	0.084		0.23	0.75	0 %
___ 18	E	Exterior	Frame - Wood	bonus Room	13.0	11.0	4	8.0	0	90.7	0.084		0.23	0.75	0 %

DOORS

(Total Exposed Area = 75 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	5.00	0	6.00	8	33.3ft²
___ 2	E	Garage	Insulated	Main	None	0.46	2.00	8	6.00	8	17.8ft²
___ 3	S	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²

WINDOWS

(Total Exposed Area = 284 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	8.0	1	4.00	2.00	1.5	1.3	None	None
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	1.3	None	None
___ 3	S	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	72.0	2	6.00	6.00	1.5	1.3	None	None
___ 4	S	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	1.50	8.00	1.5	1.3	None	None
___ 5	W	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	1	3.00	6.00	1.5	1.3	None	None
___ 6	W	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	1	6.00	5.00	1.5	1.3	None	None
___ 7	N	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	3	3.00	4.00	1.5	1.3	None	None
___ 8	S	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	1.3	None	None
___ 9	S	14	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	3	3.00	4.00	1.5	1.3	None	None
___ 10	S	17	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	17	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	1.3	None	None
___ 12	E	18	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	1.3	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
1	Wholehouse	Proposed ACH(50)	0.00030	1811	99.36	186.54	0.1466	5.5	All	19666 cu ft

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	552 ft²	552 ft²	64 ft	8 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main
2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	2nd Floor
3	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
1	Electric Heat Pump	None/Single		HSPF2: 8.50	24.0					sys#1	1
2	Electric Heat Pump	None/Single		HSPF2: 8.50	24.0					sys#2	2

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
2	Central Unit	None/Single		SEER2:16.0	24.0	720	0.75	sys#2	2

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	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	Location	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat	HVAC # Cool
1	Attic	6.0	230 ft²	Attic	6.0	58 ft²	Prop. Leak Free	Garage	---	---	0.030	0.50	1	1
2	Attic	6.0	230 ft²	Attic	6.0	58 ft²	Prop. Leak Free	2nd Floor	---	---	0.030	0.50	2	2

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans: N

Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☐ Oct	☒ Nov	☒ Dec
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☐ 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	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2532.7 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	2328.70 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	204.00 ft ²
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)	2304	11. Ceiling Types(2304.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	1234.00 ft ²
7. Windows**	Description	b. Single assembly, with (Vented)	R=30.0	823.00 ft ²
a. U-Factor:	DbI, U=0.26	c. other (see details)	R=	247.00 ft ²
SHGC:	SHGC=0.20	12. Roof(Metal, Vented)	Deck R=0.0	1780 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	230
c. U-Factor:	N/A	b. Sup: Attic, Ret: Attic, AH: 2nd Floor	6	230
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	24.0	SEER2:16.00
8. Skylights	Description	b. Central Unit	24.0	SEER2:16.00
U-Factor:(AVG)	N/A	15. Heating Systems	kBtu/hr	Efficiency
SHGC(AVG):	N/A	a. Electric Heat Pump	24.0	HSPF2:8.50
9. Floor Types	Insulation	b. Electric Heat Pump	24.0	HSPF2:8.50
a. Slab-On-Grade Edge Insulation	R= 0.0	16. Hot Water Systems		
b. Floor Over Other Space	R= 0.0	a. Electric	Cap: 50 gallons	
c. other (see details)	R=	b. Conservation features	EF: 0.920	
				None
		17. Credits		CF

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.