FORM R405-2023

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

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

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	4
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	3608
Conditioned floor area below grade (ft²)	0

7. Windows(486.5 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.26	486.50 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	3608.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(3648.3 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	3648.30 ft²
b. N/A		
c. N/A		
d. N/A		

11. Ceiling Types(3608.0 sqft.)	Insulation	Area
a. Single assembly, no ai (Vented)	R=0.0	3608.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Unvent) Deck	R=21.0	4177 ft²

13. Ducts, location & insulation level	R	ft²
a. Sup: Main, Ret: Main, AH: Main	6	722
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	60.0	SEER2:17.00

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	60.0	HSPF2:8.50

16. Hot Water Systems	
a. PropaneTankless	Cap: 1 gallons
	EF: 0.590
b. Conservation features	
	None
17. Credits	CF, Pstat

Glass/Floor Area: 0.135

Total Proposed Modified Loads: 77.40

Total Baseline Loads: 94.37

PASS

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: 4-16-25

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: _____

- 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).

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INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Jones Residence			Address type:	Street Address
Building Type:	User	Bedrooms:	4	Lot #:	---
Owner:		Conditioned Area:	3608	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:	,
Family Type:	Detached	Whole House Fan:			FL,
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2025	Shielding:	Moderate/Rural		
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	3608	36080 cu ft

SPACES

√	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Main	3608	36080	Yes	8	4	Yes	Yes	Yes

FLOORS (Total Exposed Area = 3608 sq.ft.)

√	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	R-Value Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___	1	Slab-On-Grade Edge Ins	Main	375	3608 sqft	0.0	---	0.563	0 (ft)/0 (ft)	0.20	0.60	0.20

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	4177 ft²	1052 ft²	0.11	Dark	N	0.92	No	0.9	No	21	30.26

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	No attic	Unvented	0	3608 ft²	N	N

CEILING (Total Exposed Area = 3608 sq.ft.)

√	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___	1	Single assembly, no airspace(Unvented)	Main	0.0	Blown	3608.0ft²	0.045	0.11	Wood

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WALLS (Total Exposed Area = 3648 sq.ft.)

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	19.0	6.0	0	10.0	0	60.0	0.061		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	19.0	5.0	4	10.0	0	53.3	0.061		0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	19.0	14.0	0	10.0	0	140.0	0.061		0.23	0.75	0 %
___ 4	E	Exterior	Frame - Wood	Main	19.0	32.0	8	10.0	0	326.7	0.061		0.23	0.75	0 %
___ 5	N	Exterior	Frame - Wood	Main	19.0	13.0	4	10.0	0	133.3	0.061		0.23	0.75	0 %
___ 6	E	Exterior	Frame - Wood	Main	19.0	2.0	0	10.0	0	20.0	0.061		0.23	0.75	0 %
___ 7	N	Exterior	Frame - Wood	Main	19.0	24.0	2	10.0	0	241.7	0.061		0.23	0.75	0 %
___ 8	W	Exterior	Frame - Wood	Main	19.0	8.0	0	10.0	0	80.0	0.061		0.23	0.75	0 %
___ 9	N	Exterior	Frame - Wood	Main	19.0	19.0	0	10.0	0	190.0	0.061		0.23	0.75	0 %
___ 10	E	Exterior	Frame - Wood	Main	19.0	34.0	6	10.0	0	345.0	0.061		0.23	0.75	0 %
___ 11	S	Exterior	Frame - Wood	Main	19.0	2.0	0	10.0	0	20.0	0.061		0.23	0.75	0 %
___ 12	E	Exterior	Frame - Wood	Main	19.0	10.0	4	10.0	0	103.3	0.061		0.23	0.75	0 %
___ 13	S	Exterior	Frame - Wood	Main	19.0	3.0	0	10.0	0	30.0	0.061		0.23	0.75	0 %
___ 14	E	Exterior	Frame - Wood	Main	19.0	3.0	0	10.0	0	30.0	0.061		0.23	0.75	0 %
___ 15	S	Exterior	Frame - Wood	Main	19.0	3.0	10	10.0	0	38.3	0.061		0.23	0.75	0 %
___ 16	E	Exterior	Frame - Wood	Main	19.0	3.0	0	10.0	0	30.0	0.061		0.23	0.75	0 %
___ 17	S	Exterior	Frame - Wood	Main	19.0	8.0	0	10.0	0	80.0	0.061		0.23	0.75	0 %
___ 18	W	Exterior	Frame - Wood	Main	19.0	3.0	0	10.0	0	30.0	0.061		0.23	0.75	0 %
___ 19	S	Exterior	Frame - Wood	Main	19.0	3.0	10	10.0	0	38.3	0.061		0.23	0.75	0 %
___ 20	W	Exterior	Frame - Wood	Main	19.0	12.0	4	10.0	0	123.3	0.061		0.23	0.75	0 %
___ 21	S	Exterior	Frame - Wood	Main	19.0	23.0	8	10.0	0	236.7	0.061		0.23	0.75	0 %
___ 22	E	Exterior	Frame - Wood	Main	19.0	11.0	0	10.0	0	110.0	0.061		0.23	0.75	0 %
___ 23	S	Exterior	Frame - Wood	Main	19.0	14.0	4	10.0	0	143.3	0.061		0.23	0.75	0 %
___ 24	E	Exterior	Frame - Wood	Main	19.0	3.0	6	10.0	0	35.0	0.061		0.23	0.75	0 %
___ 25	S	Exterior	Frame - Wood	Main	19.0	13.0	8	10.0	0	136.7	0.061		0.23	0.75	0 %
___ 26	W	Exterior	Frame - Wood	Main	19.0	3.0	6	10.0	0	35.0	0.061		0.23	0.75	0 %
___ 27	S	Exterior	Frame - Wood	Main	19.0	5.0	4	10.0	0	53.3	0.061		0.23	0.75	0 %
___ 28	W	Exterior	Frame - Wood	Main	19.0	78.0	6	10.0	0	785.0	0.061		0.23	0.75	0 %

DOORS (Total Exposed Area = 234 sq.ft.)

√ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	E	Exterior	Insulated	Main	None	0.46	2.00	6	8.00	0	20.0ft²
___ 2	E	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²
___ 3	N	Exterior	Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²
___ 4	N	Exterior	Insulated	Main	None	0.46	5.00	0	8.00	0	40.0ft²
___ 5	S	Exterior	Insulated	Main	None	0.46	6.00	0	9.00	0	54.0ft²
___ 6	W	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²
___ 7	W	Exterior	Insulated	Main	None	0.46	3.00	0	8.00	0	24.0ft²

WINDOWS (Total Exposed Area = 487 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	24.0	3	2.00	4.00	1.5	1.3	None	None
___ 2	E	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	1.3	None	None
___ 3	N	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	3.00	4.00	1.5	1.3	None	None
___ 4	N	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	80.0	4	2.50	8.00	1.5	1.3	None	None
___ 5	N	9	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	1.3	None	None
___ 6	E	10	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None
___ 7	E	12	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	1.3	None	None
___ 8	S	17	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None
___ 9	S	21	Vinyl	Low-E Double	Y	0.26	0.20	N	N	80.0	4	2.50	8.00	1.5	1.3	None	None
___ 10	S	23	Vinyl	Low-E Double	Y	0.26	0.20	N	N	52.5	3	2.50	7.00	1.5	1.3	None	None
___ 11	S	25	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None

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WINDOWS(Continued)

___ 12	S	27	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	1.3	None	None
___ 13	W	28	Vinyl	Low-E Double	Y	0.26	0.20	N	N	8.0	1	2.00	4.00	1.5	1.3	None	None
___ 14	W	28	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	1.3	None	None
___ 15	W	28	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	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)	0.00038	3608	197.95	371.62	0.1285	6.0	All	36080 cu ft

MASS

√	#	Mass Type	Area	Thickness	FurnitureFraction	Space
___	1	Default(8lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM

√	#	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----GeothermalHeatPump---- Entry	Power	Volt	Current	Ducts	Block
___	1	Electric Heat Pump	None/Single		HSPF2: 8.50	60.0		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		SEER2:17.0	60.0	1800	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	Propane	Tankless	Exterior	0.59 (0.59)	1.0 gal	70 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	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT|OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat	HVAC # Cool
___	1	Main	6.0	722 ft²	Main	6.0	180 ft²	Prop. Leak Free	Main	---|---	0.030	Yes	0.50	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

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TEMPERATURES(Continued)

✓	Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours 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