

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Judd 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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2400 Conditioned floor area below grade (ft²) 0 7. Windows(153.5 sqft.) Description Area a. U-Factor: Dbl, U=0.26 153.50 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 2400.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1964.0 sqft.) Insulation Area a. Frame - Steel, Exterior R=19.0 1964.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2400.0 sqft.) Insulation Area a. Single assembly, no ai (Unvented) R=30.0 2400.00 ft² b. N/A c. N/A 12. Roof(Metal, Unvent) Deck R=30.0 2530 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Main 6 480 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER2:14.30 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF2:7.50 16. Hot Water Systems a. ElectricTankless Cap: 1 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.064	Total Proposed Modified Loads: 52.07	PASS
	Total Baseline Loads: 59.08	

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: _____ 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 5.24 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:Judd Residence

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2024

Comment:

Bedrooms:4

Conditioned Area:2400

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:

Whole House Fan:

Terrain:Rural

Shielding:Moderate/Rural

Address type:Street Address

Lot #:---

Block/SubDivision:---

PlatBook:---

Street:

County:Columbia

City, State, Zip: , FL,

CLIMATE

✓

Design Location

Tmy Site

Design Temp97.5%2.5%

Int Design TempWinterSummer

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

2400

21600 cu ft

SPACES

✓

Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

1

Main

2400

21600

Yes

8

4

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 2400 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

196

2400 sqft

0

0.563

0 (ft)/0 (ft)

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

Gable or shed

Metal

2530 ft²

400 ft²

Unf, Gal.

N

0.96

No

0.7

No

30

18.43

ATTIC

✓

#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

1

No attic

Unvented

0

2400 ft²

N

N

CEILING

(Total Exposed Area = 2400 sq.ft.)

✓

#

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

1

Single assembly, no airspace(Unvented)

Main

30.0

Blown

2400.0ft²

0.018

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 1964 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 - Steel	Main	19.0	50.0	0	9.0	0	450.0	0.163		0.23	0.75	0 %					
___ 2	E	Exterior	Frame - Steel	Main	19.0	14.0	0	9.0	0	126.0	0.163		0.23	0.75	0 %					
___ 3	E	Exterior	Frame - Steel	Main	19.0	20.0	0	14.0	0	280.0	0.163		0.23	0.75	0 %					
___ 4	E	Exterior	Frame - Steel	Main	19.0	14.0	0	9.0	0	126.0	0.163		0.23	0.75	0 %					
___ 5	S	Exterior	Frame - Steel	Main	19.0	50.0	0	9.0	0	450.0	0.163		0.23	0.75	0 %					
___ 6	W	Exterior	Frame - Steel	Main	19.0	14.0	0	9.0	0	126.0	0.163		0.23	0.75	0 %					
___ 7	W	Exterior	Frame - Steel	Main	19.0	20.0	0	14.0	0	280.0	0.163		0.23	0.75	0 %					
___ 8	W	Exterior	Frame - Steel	Main	19.0	14.0	0	9.0	0	126.0	0.163		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	3.00	0	6.00	8	20.0ft²									
___ 2	E	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²									
___ 3	W	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²									

WINDOWS																	(Total Exposed Area = 154 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	1.3	None	None			
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.5	1	3.00	1.50	1.5	1.3	None	None			
___ 3	S	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	20.0	2	2.00	5.00	1.5	1.3	None	None			
___ 4	S	5	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	2	3.00	1.50	1.5	1.3	None	None			
___ 5	W	6	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None			
___ 6	W	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	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	1.3	None	None			

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1887	103.50	194.32	0.1076	5.2	All	21600 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	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			SEER2:14.3	36.0	1080	0.75	sys#1	1		
HOT WATER SYSTEM													
✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length		
___	1	Electric	Tankless	Main	0.92 (0.92)	1.00 gal	70 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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area		Leakage Type		Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool	
___	1	Main 6.0 480 ft²	Main 6.0 120 ft²		Prop. Leak Free		Main	---	---	0.030	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	
✓	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	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	80 78	80 78	80 78	80 78
___	Heating (WD)	AM PM	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	68 68	68 68	68 68	68 68	68 68