

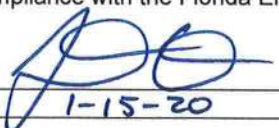
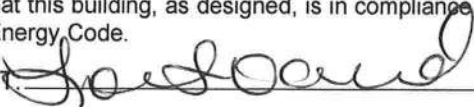
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 2065 Model Street: City, State, Zip: Lake City, FL, 32025 Owner: James & Lora David Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia Permit Number: Jurisdiction: County: columbia (Florida Climate Zone 2)
---	---

1. New construction or existing: New (From Plans) 2. Single family or multiple family: Single-family 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): 2065 Conditioned floor area below grade (ft²): 0 7. Windows (344.9 sqft.) a. U-Factor: Dbl, U=0.33, Area: 344.89 ft² SHGC: SHGC=0.22 b. U-Factor: N/A, ft² SHGC: c. U-Factor: N/A, ft² SHGC: d. U-Factor: N/A, ft² SHGC: Area Weighted Average Overhang Depth: 5.468 ft. Area Weighted Average SHGC: 0.220 8. Floor Types (2065.0 sqft.) a. Slab-On-Grade Edge Insulation: R=0.0, Area: 2065.00 ft² b. N/A: R=, ft² c. N/A: R=, ft²	9. Wall Types (1848.0 sqft.) a. Frame - Wood, Exterior: R=13.0, Area: 1653.00 ft² b. Frame - Wood, Adjacent: R=13.0, Area: 195.00 ft² c. N/A: R=, ft² d. N/A: R=, ft² 10. Ceiling Types (2065.0 sqft.) a. Under Attic (Vented): R=30.0, Area: 2065.00 ft² b. N/A: R=, ft² c. N/A: R=, ft² 11. Ducts: R, ft² a. Sup: Attic, Ret: Attic, AH: Main: 8, 413 12. Cooling systems: kBtu/hr, Efficiency a. Central Unit: 48.0, SEER:14.00 13. Heating systems: kBtu/hr, Efficiency a. Electric Heat Pump: 48.0, HSPF:8.50 14. Hot water systems: Cap: 40 gallons, EF: 0.920 a. Electric b. Conservation features: None 15. Credits: CF, Pstat
---	---

Glass/Floor Area: 0.167	Total Proposed Modified Loads: 57.24	PASS
	Total Baseline Loads: 60.09	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 1-15-20 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 requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	2065 Model	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	2065	Lot #	
Owner Name:	James & Lora David	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Columbia	Cross Ventilation:		County:	columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32025
Family Type:	Single-family				
New/Existing:	New (From Plans)				
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_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2065	18585

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2065	18585	Yes	6	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	201 ft	0	2065 ft²	----	0.33	0.33 0.34

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	2482 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2065 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2065 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___ 1	N	Exterior	Frame - Wood	Main	13	13		9		117.0 ft²	0.625	0.23	0.75	0
___ 2	N	Exterior	Frame - Wood	Main	13	17	8	9		159.0 ft²	0.625	0.23	0.75	0
___ 3	W	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
___ 4	N	Exterior	Frame - Wood	Main	13	13		9		117.0 ft²	0.625	0.23	0.75	0
___ 5	E	Exterior	Frame - Wood	Main	13	8		9		72.0 ft²	0.625	0.23	0.75	0
___ 6	N	Exterior	Frame - Wood	Main	13	14		9		126.0 ft²	0.625	0.23	0.75	0
___ 7	E	Exterior	Frame - Wood	Main	13	16		9		144.0 ft²	0.625	0.23	0.75	0
___ 8	N	Exterior	Frame - Wood	Main	13	3		9		27.0 ft²	0.625	0.23	0.75	0
___ 9	E	Exterior	Frame - Wood	Main	13	17		9		153.0 ft²	0.625	0.23	0.75	0
___ 10	S	Exterior	Frame - Wood	Main	13	3		9		27.0 ft²	0.625	0.23	0.75	0
___ 11	S	Exterior	Frame - Wood	Main	13	23	6	9		211.5 ft²	0.625	0.23	0.75	0
___ 12	S	Exterior	Frame - Wood	Main	13	2	6	9		22.5 ft²	0.625	0.23	0.75	0
___ 13	E	Exterior	Frame - Wood	Main	13	1		9		9.0 ft²	0.625	0.23	0.75	0
___ 14	S	Exterior	Frame - Wood	Main	13	6	8	9		60.0 ft²	0.625	0.23	0.75	0
___ 15	W	Exterior	Frame - Wood	Main	13	1		9		9.0 ft²	0.625	0.23	0.75	0
___ 16	S	Exterior	Frame - Wood	Main	13	3	4	9		30.0 ft²	0.625	0.23	0.75	0
___ 17	E	Exterior	Frame - Wood	Main	13	33		9		297.0 ft²	0.625	0.23	0.75	0
___ 18	S	Garage	Frame - Wood	Main	13	21	8	9		195.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	S	Insulated	Main	None	.4	3		6	8	20 ft²
___ 2	S	Insulated	Main	None	.4	2	8	6	8	17.8 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___ 1	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 2	N	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	96.0 ft²	9 ft 6 in	1 ft 4 in	IECC 2012	None
___ 3	W	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	19 ft 6 in	1 ft 4 in	IECC 2012	None
___ 4	N	4	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 5	N	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 6	E	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 7	E	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	12.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 8	E	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.6 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	24.0 ft²	6 ft 6 in	1 ft 4 in	IECC 2012	None
___ 10	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	6 ft 6 in	1 ft 4 in	IECC 2012	None
___ 11	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	13.3 ft²	6 ft 6 in	1 ft 4 in	IECC 2012	None
___ 12	S	14	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 13	E	17	Vinyl	Low-E Double	Yes	0.33	0.22	N	40.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None
___ 14	E	17	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	IECC 2012	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	447.791889 ft²	447.791889 ft²	63 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1548.8	85.02	159.9	.1128	5

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	None	Singl	HSPF:8.5	48 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Singl	SEER: 14	48 kBtu/hr	1440 cfm	0.85	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Main	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
✓	1	Attic	8	413 ft²	Attic	103.25	Default Leakage	Main	(Default)	(Default)			1 1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft ²	0 ft	0.3	Main