

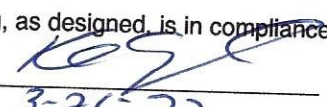
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: J-8043 - C-1309 Street: Columbia County City, State, Zip: , FL, Owner: Dicks Residence 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 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft ²) 2653 Conditioned floor area below grade (ft ²) 0 7. Windows(413.7 sqft.) Description Area a. U-Factor: Dbl, U=0.35 413.67 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.000 ft Area Weighted Average SHGC: 0.250 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 2653.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(3449.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 3354.00 ft² b. Frame - Wood, Adjacent R=11.0 95.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types(2653.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 2653.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 200 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 46.5 SEER:14.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 46.5 HSPF:8.50 15. Hot Water Systems Cap: 40 gallons a. Electric EF: 0.950 b. Conservation features 16. Credits None Pstat
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Glass/Floor Area: 0.156	Total Proposed Modified Loads: 67.73	PASS
	Total Baseline Loads: 74.43	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: March 18, 2022 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:  DATE: 3-21-22	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 6.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	J-8043 - C-1309	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	2653	Lot #:	---
Owner:	Dicks Residence	Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:		Rotate Angle:	0	Street:	Columbia County
Jurisdiction:		Cross Ventilation:	No	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	FL,
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:		Shielding:	Suburban		
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	2653	26530

SPACES

☒ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2653	26530	Yes	4	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2653 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	322		2653 ft	0.304	---	0.00	0.00	1.00

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	2874 ft²	0 ft²	Medium	N	0.9	N	0.9	No	0	22.62

ATTIC

☒ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	2653 ft²	N	N

CEILING

(Total Exposed Area = 2653 sq.ft.)

☒ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	38.0	Blown	2653.0ft²	0.049	0.10	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

(Total Exposed Area = 3449 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	94.0	0	10.0	0	940.0	0.095	0	0.25	0.80	0 %
2	E	Exterior	Frame - Wood	Main	13.0	66.0	2	12.0	0	794.0	0.095	0	0.25	0.80	0 %
3	S	Exterior	Frame - Wood	Main	13.0	91.0	6	10.0	0	915.0	0.095	0	0.25	0.80	0 %
4	W	Exterior	Frame - Wood	Main	13.0	70.0	6	10.0	0	705.0	0.095	0	0.25	0.80	0 %
5	-	Garage	Frame - Wood	Main	11.0	9.0	6	10.0	0	95.0	0.102	0	0.25	0.80	0 %

DOORS

(Total Exposed Area = 124 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Exterior	Wood	Main	None	0.39	13.00	0	8.00	0	104.0ft²
2	-	Garage	Wood	Main	None	0.39	3.00	0	6.00	8	20.0ft²

WINDOWS

(Total Exposed Area = 414 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	Metal	Low-E Double	Y 0.35	0.25	N	N	48.0	1	6.00	8.00	1.0	1.0	Drapes/blinds	Ex. 50%
2	n	1	Metal	Low-E Double	Y 0.35	0.25	N	N	12.0	1	3.00	4.00	1.0	1.0	Drapes/blinds	Ex. 50%
3	n	1	Metal	Low-E Double	Y 0.35	0.25	N	N	60.0	4	3.00	5.00	1.0	1.0	Drapes/blinds	Ex. 50%
4	n	1	Metal	Low-E Double	Y 0.35	0.25	N	N	130.7	1	16.33	8.00	1.0	1.0	Drapes/blinds	Ex. 50%
5	e	2	Metal	Low-E Double	Y 0.35	0.25	N	N	40.0	1	5.00	8.00	1.0	1.0	Drapes/blinds	Ex. 50%
6	e	2	Metal	Low-E Double	Y 0.35	0.25	N	N	45.0	3	3.00	5.00	1.0	1.0	Drapes/blinds	Ex. 50%
7	s	3	Metal	Low-E Double	Y 0.35	0.25	N	N	30.0	2	3.00	5.00	1.0	1.0	Drapes/blinds	Ex. 50%
8	W	4	Metal	Low-E Double	Y 0.35	0.25	N	N	48.0	2	3.00	8.00	1.0	1.0	Drapes/blinds	Ex. 50%

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
1	Wholehouse	Proposed ACH(50)	0.00038	2653	145.55	273.26	0.1285	6.0	All

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	816 ft²	816 ft²	92 ft	10 ft	0

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--- Entry Power Volt Current	Ducts	Block
1	Electric Heat Pump	Split/Single		HSPF: 8.50	46.5	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	Split/Single		SEER:14.0	46.5	0	0.80	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
1	Electric	None	Garage	0.95 (0.93)	40.00 gal	60 gal	120 deg	Standard	=>R-3	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	RLF	HVAC # Heat Cool
1	Attic	6.0	200 ft²	Attic	6.0	100 ft²	Prop. Leak Free	Main	---	---	0.03	0.50	1 1

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
Schedule Type

		1	2	3	4	5	6	Hours 7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66