

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: J-9435 - C-1724 Street: 530 SE SHADOW WOOD DRIVE City, State, Zip: Lake City, FL, 32024 Owner: Banner Addition Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(Florida Climate Zone 2)
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Glass/Floor Area: 0.114                      Total Proposed Modified Loads: 29.70  
 Total Baseline Loads: 36.06

**PASS**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: David Brown

DATE: Jan 23, 2023

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).

**INPUT SUMMARY CHECKLIST REPORT****PROJECT**

Title:	J-9435 - C-1724	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1639	Lot #:	---
Owner:	Banner Addition	Total Stories:	1	Block/SubDivision:	---
Builder Name:		Worst Case:	No	PlatBook:	---
Permit Office:		Rotate Angle:	0	Street:	530 SE SHADOW WOOD DRIVE
Jurisdiction:		Cross Ventilation:	No	County:	Columbia
Family Type:	Detached	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
New/Existing:	Addition	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	Entire House	1639	13112 cu ft

**SPACES**

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	M BED	261	2088	No	2	1	Yes	Yes	Yes
___ 2	LIVING RM	405	3240	No	0		Yes	Yes	Yes
___ 3	M WIC	43	344	No	0		Yes	Yes	Yes
___ 4	M LAV	19	152	No	0		Yes	Yes	Yes
___ 5	M BATH	120	960	No	0		Yes	Yes	Yes
___ 6	NOOK	138	1104	No	0		Yes	Yes	Yes
___ 7	KITCHEN	114	912	Yes	0		Yes	Yes	Yes
___ 8	HALL	60	480	No	0		Yes	Yes	Yes
___ 9	LAUNDRY	57	456	No	0		Yes	Yes	Yes
___ 10	BATH	57	456	No	0		Yes	Yes	Yes
___ 11	BED 2	155	1240	No	1	1	Yes	Yes	Yes
___ 12	WIC	25	200	No	0		Yes	Yes	Yes
___ 13	PWD	23	184	No	0		Yes	Yes	Yes
___ 14	BED 3	162	1296	No	1	1	Yes	Yes	Yes

**FLOORS**

(Total Exposed Area = 1639 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	M BED	32.5		261 ft	0.304	---	0.00	0.00	1.00
___ 2	Slab-On-Grade Edge Ins	LIVING RM	23.5		405 ft	0.304	---	0.00	0.00	1.00
___ 3	Slab-On-Grade Edge Ins	M WIC	8.5		43 ft	0.304	---	0.00	0.00	1.00
___ 4	Slab-On-Grade Edge Ins	M LAV	5.5		19 ft	0.304	---	0.00	0.00	1.00
___ 5	Slab-On-Grade Edge Ins	M BATH	13		120 ft	0.304	---	0.00	0.00	1.00
___ 6	Slab-On-Grade Edge Ins	NOOK	13.5		138 ft	0.304	---	0.00	0.00	1.00
___ 7	Slab-On-Grade Edge Ins	KITCHEN	12		114 ft	0.304	---	0.00	0.00	1.00
___ 8	Slab-On-Grade Edge Ins	HALL	1		60 ft	0.304	---	0.00	0.00	1.00
___ 9	Slab-On-Grade Edge Ins	LAUNDRY	6		57 ft	0.304	---	0.00	0.00	1.00
___ 10	Slab-On-Grade Edge Ins	BATH	6		57 ft	0.304	---	0.00	0.00	1.00
___ 11	Slab-On-Grade Edge Ins	BED 2	25		155 ft	0.304	---	0.00	0.00	1.00
___ 12	Slab-On-Grade Edge Ins	WIC	1		25 ft	0.304	---	0.00	0.00	1.00

**INPUT SUMMARY CHECKLIST REPORT****FLOORS(Continued)**

✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 13	Slab-On-Grade Edge Ins	PWD	4.5		23 ft	0.304	---	0.00	0.00	1.00
___ 14	Slab-On-Grade Edge Ins	BED 3	27		162 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 Tested	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Metal	1776 ft <sup>2</sup>	0 ft <sup>2</sup>	Medium	N	0.9	No	0.9	No	0	22.62

**ATTIC**

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	1639 ft <sup>2</sup>	N	N

**CEILING**

(Total Exposed Area = 1639 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	M BED	38.0	Blown	261.0ft <sup>2</sup>	0.049	0.10	Wood
___ 2	Flat ceiling under attic(Vented)	LIVING RM	38.0	Blown	405.0ft <sup>2</sup>	0.049	0.10	Wood
___ 3	Flat ceiling under attic(Vented)	M WIC	38.0	Blown	43.0ft <sup>2</sup>	0.049	0.10	Wood
___ 4	Flat ceiling under attic(Vented)	M LAV	38.0	Blown	19.0ft <sup>2</sup>	0.049	0.10	Wood
___ 5	Flat ceiling under attic(Vented)	M BATH	38.0	Blown	120.0ft <sup>2</sup>	0.049	0.10	Wood
___ 6	Flat ceiling under attic(Vented)	NOOK	38.0	Blown	138.0ft <sup>2</sup>	0.049	0.10	Wood
___ 7	Flat ceiling under attic(Vented)	KITCHEN	38.0	Blown	114.0ft <sup>2</sup>	0.049	0.10	Wood
___ 8	Flat ceiling under attic(Vented)	HALL	38.0	Blown	60.0ft <sup>2</sup>	0.049	0.10	Wood
___ 9	Flat ceiling under attic(Vented)	LAUNDRY	38.0	Blown	57.0ft <sup>2</sup>	0.049	0.10	Wood
___ 10	Flat ceiling under attic(Vented)	BATH	38.0	Blown	57.0ft <sup>2</sup>	0.049	0.10	Wood
___ 11	Flat ceiling under attic(Vented)	BED 2	38.0	Blown	155.0ft <sup>2</sup>	0.049	0.10	Wood
___ 12	Flat ceiling under attic(Vented)	WIC	38.0	Blown	25.0ft <sup>2</sup>	0.049	0.10	Wood
___ 13	Flat ceiling under attic(Vented)	PWD	38.0	Blown	23.0ft <sup>2</sup>	0.049	0.10	Wood
___ 14	Flat ceiling under attic(Vented)	BED 3	38.0	Blown	162.0ft <sup>2</sup>	0.049	0.10	Wood

**WALLS**

(Total Exposed Area = 1416 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	NE	Exterior	Frame - Wood	M BED	13.0	16.0	0	8.0	0	128.0	0.095	0	0.25	0.80	0 %
___ 2	NW	Exterior	Frame - Wood	M BED	13.0	16.0	6	8.0	0	132.0	0.095	0	0.25	0.80	0 %
___ 3	NE	Exterior	Frame - Wood	LIVING RM	13.0	23.0	6	8.0	0	188.0	0.095	0	0.25	0.80	0 %
___ 4	NW	Exterior	Frame - Wood	M WIC	13.0	8.0	6	8.0	0	68.0	0.095	0	0.25	0.80	0 %
___ 5	SW	Exterior	Frame - Wood	M LAV	13.0	5.0	6	8.0	0	44.0	0.095	0	0.25	0.80	0 %
___ 6	SW	Exterior	Frame - Wood	M BATH	13.0	7.0	0	8.0	0	56.0	0.095	0	0.25	0.80	0 %
___ 7	NW	Exterior	Frame - Wood	M BATH	13.0	6.0	0	8.0	0	48.0	0.095	0	0.25	0.80	0 %
___ 8	SE	Exterior	Frame - Wood	NOOK	13.0	4.0	0	8.0	0	32.0	0.095	0	0.25	0.80	0 %
___ 9	SW	Exterior	Frame - Wood	NOOK	13.0	9.0	6	8.0	0	76.0	0.095	0	0.25	0.80	0 %
___ 10	SW	Exterior	Frame - Wood	KITCHEN	13.0	12.0	0	8.0	0	96.0	0.095	0	0.25	0.80	0 %
___ 11	SW	Exterior	Frame - Wood	LAUNDRY	13.0	6.0	0	8.0	0	48.0	0.095	0	0.25	0.80	0 %
___ 12	SW	Exterior	Frame - Wood	BATH	13.0	6.0	0	8.0	0	48.0	0.095	0	0.25	0.80	0 %
___ 13	SE	Exterior	Frame - Wood	BED 2	13.0	13.0	6	8.0	0	108.0	0.095	0	0.25	0.80	0 %
___ 14	SW	Exterior	Frame - Wood	BED 2	13.0	11.0	6	8.0	0	92.0	0.095	0	0.25	0.80	0 %
___ 15	SE	Exterior	Frame - Wood	PWD	13.0	4.0	6	8.0	0	36.0	0.095	0	0.25	0.80	0 %
___ 16	NE	Exterior	Frame - Wood	BED 3	13.0	18.0	0	8.0	0	144.0	0.095	0	0.25	0.80	0 %

# INPUT SUMMARY CHECKLIST REPORT

## WALLS(Continued)

___ 17 SE	Exterior	Frame - Wood	BED 3	13.0	9.0	0	8.0	0	72.0	0.095	0	0.25	0.80	0 %
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## DOORS

(Total Exposed Area = 20 sq.ft.)

✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
___ 1	NE(Front)	Exterior	Wood	LIVING RM	None	0.39	3.00 0	6.00 8	20.0ft²

## WINDOWS

(Total Exposed Area = 186 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	NE	1	Vinyl	Low-E Double	Y 0.35	0.25	N	N	24.0	2	3.00	4.00	1.0 1.0	Drapes/blinds	Ex. 50%
___ 2	NW	2	Vinyl	Low-E Double	Y 0.35	0.25	N	N	12.0	2	1.50	4.00	1.0 1.0	Drapes/blinds	Ex. 50%
___ 3	NE	3	Vinyl	Low-E Double	Y 0.35	0.25	N	N	25.0	2	3.00	4.17	1.0 1.0	Drapes/blinds	Ex. 50%
___ 4	SW	5	Vinyl	Low-E Double	Y 0.35	0.25	N	N	3.0	1	1.50	2.00	1.0 1.0	Drapes/blinds	Ex. 50%
___ 5	SW	6	Vinyl	Low-E Double	Y 0.35	0.25	N	N	6.0	1	3.00	2.00	1.0 1.0	Drapes/blinds	Ex. 50%
___ 6	SE	8	Vinyl	Low-E Double	Y 0.35	0.25	N	N	6.0	1	1.50	4.00	1.0 1.0	Drapes/blinds	Ex. 50%
___ 7	SW	9	Vinyl	Low-E Double	Y 0.35	0.25	N	N	40.2	1	6.00	6.67	1.0 1.0	Drapes/blinds	Ex. 50%
___ 8	SW	11	Vinyl	Low-E Double	Y 0.35	0.25	N	N	20.0	1	3.00	6.67	1.0 1.0	Drapes/blinds	Ex. 50%
___ 9	SE	13	Vinyl	Low-E Double	Y 0.35	0.25	N	N	12.5	1	3.00	4.17	1.0 1.0	Drapes/blinds	Ex. 50%
___ 10	SW	14	Vinyl	Low-E Double	Y 0.35	0.25	N	N	12.5	1	3.00	4.17	1.0 1.0	Drapes/blinds	Ex. 50%
___ 11	NE	16	Vinyl	Low-E Double	Y 0.35	0.25	N	N	25.0	2	3.00	4.17	1.0 1.0	Drapes/blinds	Ex. 50%

## INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1311	71.94	135.05	0.1176	6.0	All	13112 cu ft

## MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	M BED
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	LIVING RM
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	M WIC
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	M LAV
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	M BATH
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	NOOK
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	KITCHEN
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	HALL
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	LAUNDRY
___ 10	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	BATH
___ 11	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	BED 2
___ 12	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC
___ 13	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	PWD
___ 14	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	BED 3

## HEATING SYSTEM

✓ #	System Type/FI. Addition	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry Power Volt Current	Ducts	Block
___ 1	Electric Heat Pump/Replace	Split/Single		HSPF2: 7.80	28.4	0.00 0.00 0.00	sys#1	1

# INPUT SUMMARY CHECKLIST REPORT

## COOLING SYSTEM

✓ #	System Type/FI. Addition	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit/Replace	Split/Single		SEER2:15.2	28.4	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	LAUNDRY	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	-----Return----- Location 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	HALL	---	---	0.03	0.50	1 1

## TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N										
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec		
✓ Thermostat Schedule:	HERS 2006 Reference													
Schedule Type	Hours													
	1	2	3	4	5	6	7	8	9	10	11	12		
___ Cooling (WD)	AM 78	PM 78	78	78	78	78	78	78	78	78	80	80	80	80
___ Cooling (WEH)	AM 78	PM 78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM 66	PM 68	66	66	66	66	68	68	68	68	68	68	68	66
___ Heating (WEH)	AM 66	PM 68	66	66	66	66	68	68	68	68	68	68	68	66