

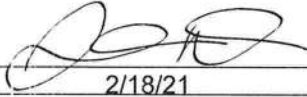
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Howard Residence		Builder Name:	
Street:		Permit Office:	
City, State, Zip: , FL ,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Gainesville		County: suwannee (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) 2613 Conditioned floor area below grade (ft²) 0 7. Windows(282.0 sqft.) Description Area a. U-Factor: Dbl, U=0.33 282.00 ft² SHGC: SHGC=0.22 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.521 ft. Area Weighted Average SHGC: 0.220 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (2613.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2255.00 ft² b. Floor Over Other Space R=0.0 358.00 ft² c. N/A R= ft²	10. Wall Type(2161.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 1937.80 ft² b. Frame - Wood, Adjacent R=13.0 223.50 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2613.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2613.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Garage E 522.6 13. Cooling systems kBtu/hr Efficiency a. Central Unit 48.0 SEER:14.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF:8.50 15. Hot water systems Cap: 40 gallons a. Electric EF: 0.920 b. Conservation features None 16. Credits CF, Pstat
---	---

Glass/Floor Area: 0.108	Total Proposed Modified Loads: 61.32	PASS
	Total Baseline Loads: 62.06	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u></u> DATE: <u>2/18/21</u> 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).

48368

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Howard Residence	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2613	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	suwannee
Jurisdiction:		Whole House Fan:		City, State, Zip:	FL,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily Temp Range
			97.5 %	2.5 %	Winter	Summer			
	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2613	23159

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2255	20295	Yes	6	3	1	Yes	Yes	Yes
2	2nd Floor	358	2864	No	2	1	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
	1	Slab-On-Grade Edge Insulatio	Main	231 ft	0	2255 ft²	----	0.33	0.33	0.34
	2	Floor Over Other Space	2nd Floor	----	----	358 ft²	0	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	2522 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Full attic	Vented	300	2255 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2255 ft²	0.11	Wood
_____	2	Under Attic (Vented)	2nd Floor	30	Blown	358 ft²	0.11	Wood

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	19	18	10	9		169.5 ft²	0.625	0.23	0.75	0
_____	2	E	Exterior	Frame - Wood	Main	19	15	2	9		136.5 ft²	0.625	0.23	0.75	0
_____	3	N	Exterior	Frame - Wood	Main	19	33		9		297.0 ft²	0.625	0.23	0.75	0
_____	4	E	Exterior	Frame - Wood	Main	19	16	4	9		147.0 ft²	0.625	0.23	0.75	0
_____	5	S	Exterior	Frame - Wood	Main	19	14		9		126.0 ft²	0.625	0.23	0.75	0
_____	6	E	Exterior	Frame - Wood	Main	19	3	8	9		33.0 ft²	0.625	0.23	0.75	0
_____	7	S	Exterior	Frame - Wood	Main	19	33	8	9		303.0 ft²	0.625	0.23	0.75	0
_____	8	W	Exterior	Frame - Wood	Main	19	3	8	9		33.0 ft²	0.625	0.23	0.75	0
_____	9	S	Exterior	Frame - Wood	Main	19	14		9		126.0 ft²	0.625	0.23	0.75	0
_____	10	W	Exterior	Frame - Wood	Main	19	45	6	9		409.5 ft²	0.625	0.23	0.75	0
_____	11	S	Exterior	Frame - Wood	2nd Floor	19	19	8	8		157.3 ft²	0.625	0.23	0.75	0
_____	12	E	Garage	Frame - Wood	Main	13	24	10	9		223.5 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
_____	1	E	Insulated	Main	None	.4	3		6	8	20 ft²
_____	2	N	Insulated	Main	None	.4	5		6	8	33.3 ft²
_____	3	N	Insulated	Main	None	.4	3		6	8	20 ft²
_____	4	S	Insulated	Main	None	.4	5		6	8	33.3 ft²
_____	5	E	Insulated	Main	None	.4	3		6	8	20 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	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	11 ft 6 in	1 ft 4 in	None	None
_____	2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	45.0 ft²	11 ft 6 in	1 ft 4 in	None	None
_____	3	S	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	4	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft²	8 ft 6 in	1 ft 4 in	None	None
_____	5	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	6	W	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	7	W	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	8	W	10	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 ft²	1 ft 6 in	1 ft 4 in	None	None
_____	9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft²	1 ft 6 in	1 ft 4 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE

☒	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
☐	1	431.0625 ft ²	431.0625 ft ²	64 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqlA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000281	1929.9	105.88	198.78	.1021	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	Garage	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			ft ²		

DUCTS

☒	#	--- Supply ---			--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
☐	1	Attic	6	522.6 ft	Attic	130.65	Default Leakage	Garage	(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													
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					
Default(8 lbs/sq.ft.)		0 ft ²		0 ft		0.3		2nd Floor					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=19.0	1937.80 ft ²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	223.50 ft ²
4. Number of Bedrooms	4		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2613		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	2613.00 ft ²
a. U-Factor:	Dbl, U=0.33	282.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.22		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	6	522.6
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	48.0	SEER:14.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	48.0	HSPF:8.50
Area Weighted Average Overhang Depth:	5.521 ft.		15. Hot water systems	Cap: 40 gallons	
Area Weighted Average SHGC:	0.220		a. Electric	EF: 0.92	
8. Skylights	Description	Area	b. Conservation features		
a. U-Factor(AVG):	N/A	ft ²	None		
SHGC(AVG):	N/A		Credits (Performance method)		CF, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	2255.00 ft ²			
b. Floor Over Other Space	R=0.0	358.00 ft ²			
c. N/A	R=	ft ²			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.