

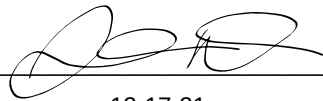
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Highlands Model Street: City, State, Zip: Gainesville, FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: alachua(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) 2895 Conditioned floor area below grade (ft²) 0 7. Windows(356.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 356.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.815 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 2406.00 ft² b. Floor over Garage R= 30.0 489.00 ft² c. N/A R= ft²	10. Wall Types(2951.5 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 2582.50 ft² b. Frame - Wood, Adjacent R=13.0 369.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types(2895.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2895.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts, location & insulation level R ft² a. a. Sup: Attic, Ret: Attic, AH: Garage 6 579 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 42.0 SEER:16.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 42.0 HSPF:8.50 15. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 16. Credits CF, Pstat
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Glass/Floor Area: 0.123	Total Proposed Modified Loads: 66.34	PASS
	Total Baseline Loads: 76.02	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 12-17-21 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Highlands Model			Bedrooms:	4	Address type:	Street Address						
Building Type:	User			Conditioned Area:	2895	Lot #:	---						
Owner:				Total Stories:	1	Block/SubDivision:	---						
Builder Name:				Worst Case:	No	PlatBook:	---						
Permit Office:				Rotate Angle:	0	Street:							
Jurisdiction:				Cross Ventilation:		County:	alachua						
Family Type:	Detached			Whole House Fan:		City, State, Zip:	Gainesville, FL,						
New/Existing:	New (From Plans)			Terrain:	Rural								
Year Construct:	2022			Shielding:	Moderate/Rural								
Comment:													
CLIMATE													
✓ Design Location	Tmy Site	Design Temp		Int Design Temp		Heating	Design	Daily temp					
		97.5%	2.5%	Winter	Summer	Degree Days	Moisture	Range					
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium					
BLOCKS													
✓ Number	Name	Area	Volume										
___ 1	Block1	2895	25566										
SPACES													
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
___ 1	Main	2406	21654	Yes	6	3	Yes	Yes	Yes				
___ 2	bonus Room	489	3912	No	2	1	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2895 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	284	0		2406 ft	0.598	---	0.33	0.30	0.37		
___ 2	Floor over Garage	bonus Room	---	---		489 ft	0.037	30	0.00	0.75	0.25		
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	Composition shingles	3769 ft²	1206 ft²	Medium	N	0.85	No	0.9	No	0	39.81	
ATTIC													
✓ #	Type	Ventilation	Vent Ratio (1 in)		Area	RBS	IRCC						
___ 1	Full attic	Vented	300		2895 ft²	N	N						

INPUT SUMMARY CHECKLIST REPORT

CEILING (Total Exposed Area = 2895 sq.ft.)														
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type						
___ 1	Under Attic(Vented)	Main	30.0	Blown	2406.0ft²	0.053	0.11	Wood						
___ 2	Under Attic(Vented)	bonus Room	30.0	Blown	489.0ft²	0.053	0.11	Wood						

WALLS (Total Exposed Area = 2952 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	13.0	4	9.0	0	120.0	0.087	0.625	0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	13.0	12.0	0	9.0	0	108.0	0.087	0.625	0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	13.0	32.0	10	10.0	0	328.3	0.087	0.625	0.23	0.75	0 %
___ 4	W	Exterior	Frame - Wood	Main	13.0	22.0	0	9.0	0	198.0	0.087	0.625	0.23	0.75	0 %
___ 5	N	Exterior	Frame - Wood	Main	13.0	26.0	0	9.0	0	234.0	0.087	0.625	0.23	0.75	0 %
___ 6	E	Exterior	Frame - Wood	Main	13.0	30.0	0	9.0	0	270.0	0.087	0.625	0.23	0.75	0 %
___ 7	S	Garage	Frame - Wood	Main	13.0	41.0	0	9.0	0	369.0	0.087	0.625	0.23	0.75	0 %
___ 8	S	Exterior	Frame - Wood	Main	13.0	10.0	0	9.0	0	90.0	0.087	0.625	0.23	0.75	0 %
___ 9	E	Exterior	Frame - Wood	Main	13.0	6.0	0	10.0	0	60.0	0.087	0.625	0.23	0.75	0 %
___ 10	S	Exterior	Frame - Wood	Main	13.0	36.0	0	10.0	0	360.0	0.087	0.625	0.23	0.75	0 %
___ 11	W	Exterior	Frame - Wood	Main	13.0	6.0	0	9.0	0	54.0	0.087	0.625	0.23	0.75	0 %
___ 12	S	Exterior	Frame - Wood	Main	13.0	5.0	0	9.0	0	45.0	0.087	0.625	0.23	0.75	0 %
___ 13	W	Exterior	Frame - Wood	Main	13.0	25.0	6	9.0	0	229.5	0.087	0.625	0.23	0.75	0 %
___ 14	N	Exterior	Frame - Wood	Main	13.0	4.0	10	9.0	0	43.5	0.087	0.625	0.23	0.75	0 %
___ 15	W	Exterior	Frame - Wood	Main	13.0	11.0	6	9.0	0	103.5	0.087	0.625	0.23	0.75	0 %
___ 16	N	Exterior	Frame - Wood	bonus Room	13.0	5.0	8	8.0	0	45.3	0.087	0.625	0.23	0.75	0 %
___ 17	E	Exterior	Frame - Wood	bonus Room	13.0	16.0	4	8.0	0	130.7	0.087	0.625	0.23	0.75	0 %
___ 18	S	Exterior	Frame - Wood	bonus Room	13.0	5.0	8	8.0	0	45.3	0.087	0.625	0.23	0.75	0 %
___ 19	S	Exterior	Frame - Wood	bonus Room	13.0	14.0	8	8.0	0	117.3	0.087	0.625	0.23	0.75	0 %

DOORS (Total Exposed Area = 144 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	E	Exterior	Insulated	Main	None	0.40	2.00	4	6.00	8	15.6ft²
___ 2	N	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²
___ 3	W	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²
___ 4	S	Garage	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²
___ 5	S	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²

WINDOWS (Total Exposed Area = 356 sq.ft.)														
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	----Overhang----		Interior Shade	Screening
											Depth	Separation		
___ 1	N	1	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	4.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 2	N	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	80.0ft²	11.0 ft 6 in	2.0 ft 4 in	None	None
___ 3	N	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	16.0ft²	11.0 ft 6 in	2.0 ft 4 in	None	None
___ 4	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 5	N	5	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 6	E	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	20.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 7	E	6	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	8.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 8	S	8	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	10.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 9	S	10	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	72.0ft²	9.0 ft 6 in	2.0 ft 4 in	None	None
___ 10	W	13	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	4.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 11	W	15	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	15.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 12	W	15	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	4.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 13	E	17	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	6.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 14	E	17	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None

INPUT SUMMARY CHECKLIST REPORT

WINDOWS(Continued)

___ 15S 19 Vinyl Low-E Double Yes 0.26 0.20 N N 15.0ft² 1.0 ft 6 in 2.0 ft 4 in None None

INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00028	2131	116.89	219.44	0.1019	5.0	All

GARAGE

✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	676 ft²	676 ft²	65 ft	9 ft	1

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	bonus Room

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		HSPF: 8.50	42.0	0.00 0.00 0.00	sys#1	1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:16.0	42.0	1260	0.85	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	0.92 (0.92)	50.00 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 #	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	6.0 579 ft²	Attic 6.0 145 ft²	Prop. Leak Free	Garage	---	---	0.03	0.50	1 1

INPUT SUMMARY CHECKLIST REPORT

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		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	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	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	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	65 68	68 68	68 68	68 68	68 68	68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 87

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

,Gainesville,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2951.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	2582.50 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	369.00 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 above grade (ft ²)	2895	11. Ceiling Types(2895.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=30.0	2895.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.26	c. N/A	R=	ft ²
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. a. Sup: Attic, Ret: Attic, AH: Garage	6	579
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	5.815 ft	a. Central Unit	42.0	SEER:16.00
Area Weighted Average SHGC:	0.200	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	42.0	HSPF:8.50
U-Factor:(AVG)	N/A	15. Hot Water Systems		
SHGC(AVG):	N/A	a. Electric	Cap: 50 gallons	
9. Floor Types	Insulation		EF: 0.920	
a. Slab-On-Grade Edge Insulation	R= 0.0	b. Conservation features		
b. Floor over Garage	R= 30.0			
c. N/A	R=			
	Area	16. Credits		None
	2406.00 ft ²			CF, Pstat
	489.00 ft ²			
	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: Gainesville,FL,



*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.