

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Fischer Residence Street: Lot 5 Hermitage City, State, Zip: High Springs, FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Alachua(Florida Climate Zone 2)
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Glass/Floor Area: 0.133	Total Proposed Modified Loads: 82.30	
	Total Baseline Loads: 88.62	

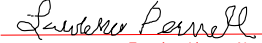
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: Donna Brackeen DATE: 10/10/2023 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: J. Fischer DATE: 11.21.23	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. PASS Review for Code Compliance Universal Engineering Science 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.

- Default duct leakage does not require a Duct Leakage Test Report.

- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Fischer Residence			Bedrooms:	4	Address type:	Street Address					
Building Type:	User			Conditioned Area:	3770	Lot #:	---					
Owner:				Total Stories:	1	Block/SubDivision:	---					
Builder Home ID:				Worst Case:	No	PlatBook:	---					
Builder Name:				Rotate Angle:	0	Street:	Lot 5 Hermitage					
Permit Office:				Cross Ventilation:		County:	Alachua					
Jurisdiction:				Whole House Fan:		City, State, Zip:	High Springs, FL,					
Family Type:	Detached			Terrain:	Suburban							
New/Existing:	New (From Plans)			Shielding:	Suburban							
Year Construct:												
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			 Review for Code Compliance Universal Engineering Science						
___ 1	Block1	3770	37700 cu ft			 PX2707 11/26/2023 Examiner-License No.						
SPACES												
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated			
___ 1	Main	3770	37700	Yes	5	4	Yes	Yes	Yes			
FLOORS (Total Exposed Area = 3770 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	276.5	0	3770 ft	0.592	---	0.25	0.75	0.00		
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	4531 ft²	1256 ft²	Dark	N	0.96	No	0.9	No	20.35	33.69
ATTIC												
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
___ 1	Full attic	Unvented	0	3770 ft²	N	N						
CEILING (Total Exposed Area = 3770 sq.ft.)												
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type				
___ 1	Flat ceiling under attic(Unvented)	Main	0.0	Blown	3770.0ft²	0.039	0.11	Wood				

INPUT SUMMARY CHECKLIST REPORT

WALLS																(Total Exposed Area = 3235 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	S	Exterior	Frame - Wood	Main	19.0	6.0	8	10.0	0	66.7	0.058	0.69	0.23	0.50	0 %				
___ 2	S	Exterior	Frame - Wood	Main	19.0	24.0	4	10.0	0	243.3	0.058	0.69	0.23	0.50	0 %				
___ 3	S	Exterior	Frame - Wood	Main	19.0	22.0	0	10.0	0	220.0	0.058	0.69	0.23	0.50	0 %				
___ 4	S	Exterior	Frame - Wood	Main	19.0	16.0	6	10.0	0	165.0	0.058	0.69	0.23	0.50	0 %				
___ 5	E	Exterior	Frame - Wood	Main	19.0	44.0	9	10.0	0	447.5	0.058	0.69	0.23	0.50	0 %				
___ 6	W	Exterior	Frame - Wood	Main	19.0	48.0	9	10.0	0	487.5	0.058	0.69	0.23	0.50	0 %				
___ 7	W	Exterior	Frame - Wood	Main	19.0	20.0	0	10.0	0	200.0	0.058	0.69	0.23	0.50	0 %				
___ 8	N	Exterior	Frame - Wood	Main	19.0	49.0	0	10.0	0	490.0	0.058	0.69	0.23	0.50	0 %				
___ 9	N	Exterior	Frame - Wood	Main	19.0	35.0	0	10.0	0	350.0	0.058	0.69	0.23	0.50	0 %				
___ 10	N	Exterior	Frame - Wood	Main	19.0	9.0	6	10.0	0	95.0	0.058	0.69	0.23	0.50	0 %				
___ 11	E	Garage	Frame - Wood	Main	19.0	23.0	6	10.0	0	235.0	0.061		0.23	0.01	0 %				
___ 12	S	Garage	Frame - Wood	Main	19.0	23.0	6	10.0	0	235.0	0.061		0.23	0.01	0 %				

DOORS											(Total Exposed Area = 20 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	E		Wood	Main	None	0.19	3.00	0	6.00	8	20.0ft²	

WINDOWS																(Total Exposed Area = 503 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	S	1	Wood	Low-E Double	Y	0.30	0.20	N	N	20.0	1	3.00	6.67	11.0	3.0	Drapes/blinds	None		
___ 2	S	1	Wood	Low-E Double	Y	0.30	0.20	N	N	6.7	1	1.00	6.67	11.0	3.0	Drapes/blinds	None		
___ 3	S	2	Vinyl	Low-E Double	Y	0.33	0.23	N	N	60.0	4	3.00	5.00	8.0	3.0	Drapes/blinds	Ex. 50%		
___ 4	S	3	Vinyl	Low-E Double	Y	0.33	0.23	N	N	30.0	2	3.00	5.00	1.5	13.0	Drapes/blinds	Ex. 50%		
___ 5	S	4	Vinyl	Low-E Double	Y	0.33	0.23	N	N	30.0	2	3.00	5.00	1.3	3.0	Drapes/blinds	Ex. 50%		
___ 6	E	5	Vinyl	Low-E Double	Y	0.33	0.23	N	N	30.0	2	3.00	5.00	1.3	10.0	Drapes/blinds	Ex. 50%		
___ 7	E	5	Vinyl	Low-E Double	Y	0.27	0.24	N	N	8.0	1	2.00	4.00	1.3	5.0	Drapes/blinds	None		
___ 8	E	5	Vinyl	Low-E Double	Y	0.33	0.23	N	N	18.0	2	3.00	3.00	1.3	11.0	Drapes/blinds	Ex. 50%		
___ 9	W	6	Vinyl	Low-E Double	Y	0.27	0.24	N	N	12.0	2	4.00	1.50	1.3	10.0	Drapes/blinds	None		
___ 10	W	6	Vinyl	Low-E Double	Y	0.33	0.23	N	N	15.0	1	3.00	5.00	1.3	5.0	Drapes/blinds	Ex. 50%		
___ 11	W	6	Vinyl	Low-E Double	Y	0.33	0.23	N	N	15.0	1	3.00	5.00	1.3	9.0	Drapes/blinds	Ex. 50%		
___ 12	W	7	Vinyl	Low-E Double	Y	0.33	0.23	N	N	9.0	1	3.00	3.00	8.0	3.0	Drapes/blinds	Ex. 50%		
___ 13	W	7	Wood	Low-E Double	Y	0.30	0.20	N	N	40.0	1	6.00	6.67	20.0	3.0	Drapes/blinds	None		
___ 14	N	8	Vinyl	Low-E Double	Y	0.33	0.23	N	N	9.0	2	3.00	1.50	1.3	3.0	None	None		
___ 15	N	8	Vinyl	Low-E Double	Y	0.33	0.23	N	N	60.0	4	3.00	5.00	1.3	3.0	Drapes/blinds	Ex. 50%		
___ 16	N	9	Vinyl	Low-E Double	Y	0.33	0.23	N	N	30.0	2	3.00	5.00	20.0	3.0	Drapes/blinds	Ex. 50%		
___ 17	N	9	Vinyl	Low-E Double	Y	0.36	0.19	N	N	80.0	1	12.00	6.67	20.0	3.0	Drapes/blinds	None		
___ 18	N	10	Vinyl	Low-E Double	Y	0.33	0.23	N	N	30.0	2	3.00	5.00	1.3	3.0	Drapes/blinds	Ex. 50%		

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00044	4398	241.31	453.02	0.1500	7.0	All	37700 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	576 ft²	576 ft²	48 ft	10 ft	1

INPUT SUMMARY CHECKLIST REPORT

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

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block

HOT WATER SYSTEM										
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Natural Gas	Tankless	Exterior	0.93 (0.93)	1.00 gal	70 gal	120 deg	Low	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 #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool				
___ 1A Attic	6.0 433 ft² Attic	6.0 108 ft²	Default Leakage	Garage	(Default)	(Default)			1	1			
___ 1B Attic	6.0 199 ft² Attic	6.0 50 ft²	Default Leakage	Attic	(Default)	(Default)			1	1			
___ 1C Attic	6.0 122 ft² Attic	6.0 30 ft²	Default Leakage	Attic	(Default)	(Default)			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: FloridaCode 2017 Schedule Type	Hours 1 2 3 4 5 6 7 8 9 10 11 12											
___	Cooling (WD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
___	Cooling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
___	Heating (WD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72
___	Heating (WEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

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

Lot 5 Hermitage,High Springs,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(3235.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	2765.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=19.0	470.00 ft ²
4. Number of Bedrooms	4	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	3770	11. Ceiling Types(3770.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Roof Deck (Unvented)	R=20.4	3770.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.33	c. N/A		
SHGC:	SHGC=0.23	12. Roof(Comp. Shingles, Unvent) Deck	R=20.4	4531 ft ²
b. U-Factor:	Dbl, U=0.36	13. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.19	a. Sup: Attic, Ret: Attic, AH: Attic	6	122
c. U-Factor:	Dbl, U=0.30	b.		
SHGC:	SHGC=0.20	c.		
Area Weighted Average Overhang Depth:	8.342 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.220	a. Central Unit	67.2	SEER2:14.30
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	67.2	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Natural GasTankless	Cap: 1 gallons	
b. N/A	R=		UEF: 0.930	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			CF, Pstat	

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: J. Fischer Date: 11.21.23

Address of New Home: Lot 5 Hermitage

City/FL Zip: High Springs,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.



Review for Code Compliance
Universal Engineering Science

Lawrence Parnell
Examiner-License No.

PX2707

11/26/2023