

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rosenboom Thomas Street: 708 SW Bluff drive City, State, Zip: Fort white, FL, Owner: Thomas Design Location: FL, Gainesville	Builder Name: Rosenboom 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 1 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 640 Conditioned floor area below grade (ft²) 0 7. Windows(133.3 sqft.) Description Area a. U-Factor: Dbl, U=0.35 133.33 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 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. Floor over Garage R= 19.0 640.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(832.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 832.00 ft² b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types(640.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 640.00 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 6 128 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 18.8 SEER:16.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 16.8 HSPF:9.00 15. Hot Water Systems a. Electric Cap: 40 gallons EF: 0.920 b. Conservation features None 16. Credits CE, Pstat
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Glass/Floor Area:0.208	Total Proposed Modified Loads: 23.14	PASS
	Total Baseline Loads: 26.92	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Breanne Rolling</u> DATE: <u>12.7.22</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Scott Rosenboom</u> DATE: <u>12.7.22</u>	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.
- 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	RosenboomThomas	Bedrooms:	1	Address type:	Street Address
Building Type:	User	ConditionedArea:	640	Lot #:	---
Owner:	Thomas	Total Stories:	2	Block/SubDivision:	---
BuilderName:	Rosenboom	Worst Case:	No	PlatBook:	---
Permit Office:		RotateAngle:	0	Street:	708 SW Bluff drive
Jurisdiction:		Cross Ventilation:		County:	Columbia
Family Type:	Detached	Whole House Fan:		City, State, Zip:	Fort white, 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 DegreeDays	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	640	5120 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	640	5120	Yes	1	1	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 640 sq.ft.)

✓ #	FloorType	Space	ExposedPerim	PerimeterR-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	FlooroverGarage	Main	---	---	640 ft	0.050	19	0.22	0.22	0.56

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	Compositionshingles	693 ft²	134 ft²	Medium	N	0.96	No	0.9	No	0	22.62

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	640 ft²	N	N

CEILING

(Total Exposed Area = 640 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	FramingFrac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Main	30.0	Blown	640.0ft²	0.030	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 832 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	W	Exterior	Frame - Wood	Main	13.0	20.0	0	8.0	0	160.0	0.074		0.111	0.15	0 %				
___ 2	N	Exterior	Frame - Wood	Main	13.0	32.0	0	8.0	0	256.0	0.074		0.111	0.15	0 %				
___ 3	E	Exterior	Frame - Wood	Main	13.0	20.0	0	8.0	0	160.0	0.074		0.111	0.15	0 %				
___ 4	S	Exterior	Frame - Wood	Main	13.0	32.0	0	8.0	0	256.0	0.074		0.111	0.15	0 %				

DOORS												(Total Exposed Area = 7 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	W	Exterior	Insulated	Main	None	0.46	1.00	0	6.00	8	6.7ft²		

WINDOWS															(Total Exposed Area = 133 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	W	1	Vinyl	Low-E Double	Y 0.35	0.20	N	N	13.3	1	2.00	6.67	1.5	1.5	Drapes/blinds	None	
___ 2	W	1	Vinyl	Low-E Double	Y 0.35	0.20	N	N	45.0	3	3.00	5.00	1.5	1.5	Drapes/blinds	None	
___ 3	N	2	Vinyl	Low-E Double	Y 0.35	0.20	N	N	9.0	1	3.00	3.00	1.5	1.5	Drapes/blinds	None	
___ 4	N	2	Vinyl	Low-E Double	Y 0.35	0.20	N	N	30.0	2	3.00	5.00	1.5	1.5	Drapes/blinds	None	
___ 5	E	3	Vinyl	Low-E Double	Y 0.35	0.20	N	N	6.0	1	2.00	3.00	1.5	1.5	Drapes/blinds	None	
___ 6	S	4	Vinyl	Low-E Double	Y 0.35	0.20	N	N	30.0	2	3.00	5.00	1.5	1.5	Drapes/blinds	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00025	427	23.41	43.95	0.1293	5.0	All	5120 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	640 ft²	640 ft²	64 ft	8 ft	1

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	None/Single		HSPF: 9.00	16.8	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	None/Single		SEER:16.0	18.8	627	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	FixtureFlow	Pipe Ins.	Pipe length
___ 1	Electric	None	Garage	0.92 (0.92)	40.00 gal	40 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	Location	Return R-Value	Area	LeakageType	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	128 ft²	Attic	6.0	32 ft²	DefaultLeakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N										
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] 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	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 86

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

708 SW Bluff drive,Fort white,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(832.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	832.00 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	1	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)	640	11. Ceiling Types(640.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	640.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.35	c. N/A	R=	ft ²
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. Sup: Attic, Ret: Attic, AH: Main	6	128
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	1.500 ft	a. Central Unit	18.8	SEER:16.00
Area Weighted Average SHGC:	0.200	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	16.8	HSPF:9.00
U-Factor:(AVG)	N/A			
SHGC(AVG):	N/A	15. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 40 gallons	
a. Floor over Garage	R= 19.0		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=			
		16. 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: Scott Rosenboom Date: 12.7.22

Address of New Home: 708 SW Bluff drive City/FL Zip: Fort white,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.