

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Robert Coon Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: 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 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2891 Conditioned floor area below grade (ft²) 0 7. Windows(265.7 sqft.) Description Area a. U-Factor: Dbl, U=0.60 265.67 ft² SHGC: SHGC=0.27 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 7.523 ft Area Weighted Average SHGC: 0.270 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 2891.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2266.5 sqft.) Insulation Area a. Insulated Concrete Form, Exterior R=23.5 2023.50 ft² b. Frame - Wood, Adjacent R=13.0 243.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types(2891.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2891.00 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 6 578.2 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 48.0 SEER:15.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 48.0 HSPF:8.50 15. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None Pstat 16. Credits
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Glass/Floor Area:0.092	Total Proposed Modified Loads: 55.67	PASS
	Total Baseline Loads: 68.58	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ 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:	RobertCoon	Bedrooms:	3	Address type:	Street Address
Building Type:	User	ConditionedArea:	2891	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
BuilderName:		Worst Case:	No	PlatBook:	---
Permit Office:		RotateAngle:	0	Street:	
Jurisdiction:		Cross Ventilation:		County:	Columbia
Family Type:	Detached	Whole House Fan:		City, State, Zip:	, FL,
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2021	Shielding:	Moderate/Rural		
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	2891	26019

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	2891	26019	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 2891 sq.ft.)

✓ #	FloorType	Space	ExposedPerim	PerimeterR-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	255	0	2891 ft	0.600	---	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	Compositionshingles	3232 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	26.57

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	300	2891 ft²	N	N

CEILING

(Total Exposed Area = 2891 sq.ft.)

✓ #	CeilingType	Space	R-Value	Ins. Type	Area	U-Factor	FramingFrac.	Truss Type
___ 1	UnderAttic(Vented)	Main	30.0	Blown	2891.0ft²	0.053	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 2267 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	Ins Concrete Form	Main	23.5	19.0	1	9.0	0	171.8	0.038	0	0	0.75	0 %			
___ 2	E	Exterior	Ins Concrete Form	Main	23.5	7.0	2	9.0	0	64.5	0.038	0	0	0.75	0 %			
___ 3	N	Exterior	Ins Concrete Form	Main	23.5	17.0	9	9.0	0	159.8	0.038	0	0	0.75	0 %			
___ 4	W	Exterior	Ins Concrete Form	Main	23.5	7.0	2	9.0	0	64.5	0.038	0	0	0.75	0 %			
___ 5	N	Exterior	Ins Concrete Form	Main	23.5	12.0	4	9.0	0	111.0	0.038	0	0	0.75	0 %			
___ 6	E	Exterior	Ins Concrete Form	Main	23.5	35.0	2	9.0	0	316.5	0.038	0	0	0.75	0 %			
___ 7	S	Exterior	Ins Concrete Form	Main	23.5	7.0	4	9.0	0	66.0	0.038	0	0	0.75	0 %			
___ 8	E	Exterior	Ins Concrete Form	Main	23.5	2.0	0	9.0	0	18.0	0.038	0	0	0.75	0 %			
___ 9	S	Exterior	Ins Concrete Form	Main	23.5	16.0	9	9.0	0	150.8	0.038	0	0	0.75	0 %			
___ 10	E	Exterior	Ins Concrete Form	Main	23.5	4.0	0	9.0	0	36.0	0.038	0	0	0.75	0 %			
___ 11	S	Exterior	Ins Concrete Form	Main	23.5	14.0	1	9.0	0	126.8	0.038	0	0	0.75	0 %			
___ 12	W	Exterior	Ins Concrete Form	Main	23.5	4.0	0	9.0	0	36.0	0.038	0	0	0.75	0 %			
___ 13	S	Exterior	Ins Concrete Form	Main	23.5	19.0	10	9.0	0	178.5	0.038	0	0	0.75	0 %			
___ 14	W	Exterior	Ins Concrete Form	Main	23.5	2.0	0	9.0	0	18.0	0.038	0	0	0.75	0 %			
___ 15	S	Exterior	Ins Concrete Form	Main	23.5	17.0	3	9.0	0	155.3	0.038	0	0	0.75	0 %			
___ 16	W	Exterior	Ins Concrete Form	Main	23.5	38.0	11	9.0	0	350.3	0.038	0	0	0.75	0 %			
___ 17	N	Garage	Frame - Wood	Main	13.0	27.0	0	9.0	0	243.0	0.094		0.23	0.75	0 %			

DOORS												(Total Exposed Area = 88 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	N	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²		
___ 2	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		
___ 3	N	Garage	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²		

WINDOWS															(Total Exposed Area = 266 sq.ft.)	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang----- Depth	Separation	Interior Shade	Screening		
___ 1	N	1	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 2	N	3	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	52.0ft²	20.0 ft 6 in	2.0 ft 4 in	None	None		
___ 3	N	5	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	36.0ft²	13.0 ft 6 in	2.0 ft 4 in	None	None		
___ 4	E	6	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	16.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 5	E	6	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	6.7ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 6	S	9	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 7	S	11	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 8	S	13	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	30.0ft²	7.0 ft 6 in	2.0 ft 4 in	None	None		
___ 9	S	15	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None		
___ 10	W	16	Vinyl	Double (Tinted)	Yes	0.60	0.27	N	N	5.0ft²	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)	0.00029	2168	118.96	223.33	0.1027	5.0	All

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	754 ft²	754 ft²	81 ft	9 ft	19

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	---GeothermalHeatPump---				Ducts	Block
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	48.0		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:15.0	48.0	1440	0.85	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)	50.00 gal	60 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	578 ft²	Attic	6.0	145 ft²	Prop. Leak Free	Garage	---	---	0.03	0.50	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	7	8	9	10	11	12	
___ Cooling (WD)	AM 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM 78	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 68	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 68	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* = 81

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

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1. New construction or existing	New (From Plans)	10. Wall Types(2266.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Insulated Concrete Form, Exterior	R=23.5	2023.50 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	243.00 ft ²
4. Number of Bedrooms	3	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)	2891	11. Ceiling Types(2891.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=30.0	2891.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	DbI, U=0.60	c. N/A	R=	ft ²
SHGC:	SHGC=0.27	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	N/A	a. a. Sup: Attic, Ret: Attic, AH: Garage	6	578.2
SHGC:		b.		
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	7.523 ft	a. Central Unit	48.0	SEER:15.00
Area Weighted Average SHGC:	0.270	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	48.0	HSPF:8.50
U-Factor:(AVG)	N/A			
SHGC(AVG):	N/A	15. Hot Water Systems		
9. Floor Types	Insulation	a. Electric		Cap: 50 gallons
a. Slab-On-Grade Edge Insulation	R= 0.0			EF: 0.920
b. N/A	R=	b. Conservation features		
c. N/A	R=			None
		16. Credits		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: _____ Date: _____

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