

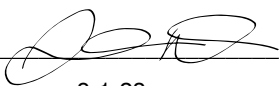

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rich & Noelle Royster 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) 1596 Conditioned floor area below grade (ft²) 0 7. Windows(183.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 183.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 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. Slab-On-Grade Edge Insulation R= 0.0 1596.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1763.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1763.30 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(1596.0 sqft.) Insulation Area a. Single assembly, with (Unvented) R=30.0 1596.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=30.0 1848 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 319 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 36.0 SEER2:14.30 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF2:7.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.930 b. Conservation features None Pstat 17. Credits
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Glass/Floor Area: 0.115	Total Proposed Modified Loads: 41.37	PASS
	Total Baseline Loads: 46.96	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 8-1-23 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.
- 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 4.72 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Rich & Noelle Royster				Address type:		Street Address																	
Building Type:	User				Bedrooms:	3		Lot #:	---															
Owner:					Conditioned Area:	1596		Block/SubDivision:	---															
Builder Home ID:					Total Stories:	1		PlatBook:	---															
Builder Name:					Worst Case:	No		Street:																
Permit Office:					Rotate Angle:	0		County:	Columbia															
Jurisdiction:					Cross Ventilation:			City, State, Zip:	, FL,															
Family Type:	Detached				Whole House Fan:																			
New/Existing:	New (From Plans)				Terrain:	Rural																		
Year Construct:	2023				Shielding:	Moderate/Rural																		
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																			
___ 1	Block1		1596		15960 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	Main		1596		15960		Yes		6		3		Yes		Yes		Yes							
FLOORS (Total Exposed Area = 1596 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		176		0		1596 ft		0.535		---		0.20		0.20		0.60					
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		1848 ft²		466 ft²		Dark		N		0.92		No		0.9		No		30		30.26	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	No attic		Unvented		0		1596 ft²		N		N													
CEILING (Total Exposed Area = 1596 sq.ft.)																								
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
___ 1	Single assembly, with airspace(Unvented)		Main		30.0		Blown		1596.0ft²		0.031		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 1763 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	33.0	0	10.0	0	330.0	0.094		0.23	0.75	0 %					
___ 2	E	Exterior	Frame - Wood	Main	13.0	10.0	10	10.0	0	108.3	0.094		0.23	0.75	0 %					
___ 3	N	Exterior	Frame - Wood	Main	13.0	21.0	4	10.0	0	213.3	0.094		0.23	0.75	0 %					
___ 4	E	Exterior	Frame - Wood	Main	13.0	23.0	0	10.0	0	230.0	0.094		0.23	0.75	0 %					
___ 5	S	Exterior	Frame - Wood	Main	13.0	54.0	4	10.0	0	543.3	0.094		0.23	0.75	0 %					
___ 6	W	Exterior	Frame - Wood	Main	13.0	33.0	10	10.0	0	338.3	0.094		0.23	0.75	0 %					

DOORS																	(Total Exposed Area = 181 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	9.00	0	8.00	0	72.0ft²									
___ 2	N	Exterior	Insulated	Main	None	0.40	2.00	8	8.00	0	21.3ft²									
___ 3	N	Exterior	Insulated	Main	None	0.40	6.00	0	8.00	0	48.0ft²									
___ 4	S	Exterior	Insulated	Main	None	0.40	5.00	0	8.00	0	40.0ft²									

WINDOWS																	(Total Exposed Area = 183 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	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None				
___ 2	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	20.0	2	2.50	4.00	1.5	2.3	None	None				
___ 3	N	1	Vinyl	Low-E Double	Y 0.26	0.20	N	N	30.0	2	2.50	6.00	1.5	2.3	None	None				
___ 4	E	4	Vinyl	Low-E Double	Y 0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None				
___ 5	E	4	Vinyl	Low-E Double	Y 0.26	0.20	N	N	4.0	1	4.00	1.00	1.5	2.3	None	None				
___ 6	S	5	Vinyl	Low-E Double	Y 0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None				
___ 7	S	5	Vinyl	Low-E Double	Y 0.26	0.20	N	N	60.0	4	2.50	6.00	1.5	2.3	None	None				
___ 8	W	6	Vinyl	Low-E Double	Y 0.26	0.20	N	N	15.0	1	3.00	5.00	1.5	2.3	None	None				
___ 9	W	6	Vinyl	Low-E Double	Y 0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	2.3	None	None				

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00030	1255	68.83	129.22	0.1010	4.7	All	15960 cu ft	

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----			Ducts	Block	
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	36.0		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		SEER2:14.3	36.0	1080	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	Main	0.93 (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	-----Return----- R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0 319 ft²	Attic 6.0 80 ft²	Default Leakage	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* = 88

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1763.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1763.30 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1596	11. Ceiling Types(1596.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Single assembly, with (Unvented)	R=30.0	1596.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.26	c. N/A		
SHGC:	SHGC=0.20	12. Roof(Comp. Shingles, Unvent) Deck	R=30.0	1848 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	319
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Central Unit	36.0	SEER2:14.30
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	36.0	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. Electric	Cap: 50 gallons	
b. N/A	R=		EF: 0.930	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			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.