

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wentworth Residence 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? Yes 6. Conditioned floor area above grade (ft²) 2230 Conditioned floor area below grade (ft²) 0 7. Windows(334.0 sqft.) Description Area a. U-Factor: Dbl, U=0.33 190.00 ft² SHGC: SHGC=0.23 b. U-Factor: Dbl, U=0.36 80.00 ft² SHGC: SHGC=0.19 c. U-Factor: Dbl, U=0.30 40.00 ft² SHGC: SHGC=0.25 Area Weighted Average Overhang Depth: 5.429 ft Area Weighted Average SHGC: 0.224 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 2230.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(2598.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 2221.70 ft² b. Frame - Wood, Adjacent R=13.0 240.00 ft² c. Frame - Wood, Adjacent R=19.0 136.67 ft² d. N/A R= ft² 11. Ceiling Types(2230.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2230.00 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 6 446 b. c. 13. Cooling Systems kBtu/hr Efficiency a. Central Unit 45.5 SEER:16.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 9.0 HSPF:9.00 15. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.950 b. Conservation features None CF, Pstat 16. Credits
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Glass/Floor Area: 0.150	Total Proposed Modified Loads: 50.13	PASS
	Total Baseline Loads: 61.33	

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: 06/16/2022 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: Caleb Wentworth 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Wentworth Residence				Address type:		Street Address																	
Building Type:	User				Bedrooms:	3	Lot #:	---																
Owner:					Conditioned Area:	2230	Block/SubDivision:	---																
					Total Stories:	1	PlatBook:	---																
Builder Name:					Worst Case:	Yes	Street:																	
Permit Office:					Rotate Angle:	180	County:	Columbia																
Jurisdiction:					Cross Ventilation:		City, State, Zip:	, FL,																
Family Type:	Detached				Whole House Fan:																			
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 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		2230		22300 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	Main		2230		22300		Yes		4		3		Yes		Yes		Yes							
FLOORS (Total Exposed Area = 2230 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		222.16		0		2230 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	Hip		Composition shingles		2680 ft²		0 ft²		Dark		N		0.96		No		0.9		No		0		33.69	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	Full attic		Vented		150		2230 ft²		N		N													
CEILING (Total Exposed Area = 2230 sq.ft.)																								
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
___ 1	Flat ceiling under attic(Vented)		Main		30.0		Blown		2230.0ft²		0.030		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 2598 sq.ft.)																
Note: First wall orientation below is as entered. Actual orientation is modified by the rotate angle (180 degrees) as shown in the "Project" section on page 1.																
✓ #	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	E=>W	Exterior	Frame - Wood	Main	19.0	8.0	8	10.0	0	86.7	0.058	0.69	0.23	0.50	0 %	
___ 2	E=>W	Exterior	Frame - Wood	Main	19.0	13.0	0	10.0	0	130.0	0.058	0.69	0.23	0.50	0 %	
___ 3	E=>W	Exterior	Frame - Wood	Main	19.0	23.0	4	10.0	0	233.3	0.058	0.69	0.23	0.50	0 %	
___ 4	N=>S	Exterior	Frame - Wood	Main	19.0	46.0	4	10.0	0	463.3	0.058	0.69	0.23	0.50	0 %	
___ 5	S=>N	Exterior	Frame - Wood	Main	19.0	60.0	10	10.0	0	608.3	0.058	0.69	0.23	0.50	0 %	
___ 6	W=>E	Exterior	Frame - Wood	Main	19.0	21.0	0	10.0	0	210.0	0.058	0.69	0.23	0.50	0 %	
___ 7	W=>E	Exterior	Frame - Wood	Main	19.0	49.0	0	10.0	0	490.0	0.058	0.69	0.23	0.50	0 %	
___ 8	E=>W	Garage	Frame - Wood	Main	13.0	24.0	0	10.0	0	240.0	0.084		0.23	0.01	0 %	
___ 9	N=>S	Garage	Frame - Wood	Main	19.0	13.0	8	10.0	0	136.7	0.061		0.23	0.01	0 %	

DOORS (Total Exposed Area = 24 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	E=>W	Garage	Wood	Main	None	0.19	3.00	0	8.00	0	24.0ft²

WINDOWS (Total Exposed Area = 334 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	E=>W	1	Wood	Low-E Double	Y 0.30	0.25	N	N	24.0	1	3.00	8.00	10.0	1.0	Drapes/blinds	None
___ 2	E=>W	1	Wood	Low-E Double	Y 0.30	0.25	N	N	16.0	2	1.00	8.00	10.0	1.0	Drapes/blinds	None
___ 3	E=>W	2	Vinyl	Low-E Double	Y 0.33	0.23	N	N	36.0	2	3.00	6.00	6.0	1.0	Drapes/blinds	Ex. 50%
___ 4	E=>W	3	Vinyl	Low-E Double	Y 0.33	0.23	N	N	36.0	2	3.00	6.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 5	E=>W	3	Vinyl	Low-E Double	Y 0.33	0.23	N	N	8.0	1	2.00	4.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 6	N=>S	4	Vinyl	Low-E Double	Y 0.33	0.23	N	N	8.0	1	2.00	4.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 7	N=>S	4	Vinyl	Low-E Double	Y 0.27	0.24	N	N	16.0	1	4.00	4.00	1.3	1.0	Drapes/blinds	None
___ 8	N=>S	4	Vinyl	Low-E Double	Y 0.27	0.24	N	N	4.0	1	4.00	1.00	1.3	1.0	None	None
___ 9	S=>N	5	Vinyl	Low-E Double	Y 0.27	0.24	N	N	4.0	1	4.00	1.00	1.3	1.0	None	None
___ 10	S=>N	5	Vinyl	Low-E Double	Y 0.33	0.23	N	N	18.0	1	3.00	6.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 11	W=>E	6	Vinyl	Low-E Double	Y 0.36	0.19	N	N	80.0	1	10.00	8.00	12.0	1.0	Drapes/blinds	None
___ 12	W=>E	7	Vinyl	Low-E Double	Y 0.33	0.23	N	N	54.0	3	3.00	6.00	1.3	1.0	Drapes/blinds	Ex. 50%
___ 13	W=>E	7	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	2602	142.74	267.97	0.1500	7.0	All	22300 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	605 ft²	605 ft²	62 ft	10 ft	1

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

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current	Ducts	Block
___ 1	Electric Heat Pump	Split/Single		HSPF: 9.00	9.0	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	45.5	1365	0.75	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	0.95 (0.93)	50.00 gal	60 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
___ 1 Attic	6.0 446 ft²	Attic 6.0 112 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: FloridaCode 2017														
✓ Schedule Type	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	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	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	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	72 72	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 82

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(2598.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	2221.70 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	240.00 ft ²
4. Number of Bedrooms	3	c. Frame - Wood, Adjacent	R=19.0	136.67 ft ²
5. Is this a worst case?	Yes	d. N/A	R=	ft ²
6. Conditioned floor area above grade (ft ²)	2230	11. Ceiling Types(2230.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	2230.00 ft ²
7. Windows**	Description	b. N/A	R=	ft ²
a. U-Factor:	Dbl, U=0.33	c. N/A	R=	ft ²
SHGC:	SHGC=0.23	12. Ducts, location & insulation level	R	ft ²
b. U-Factor:	Dbl, U=0.36	a. Sup: Attic, Ret: Attic, AH: Main	6	446
SHGC:	SHGC=0.19	b.		
c. U-Factor:	Dbl, U=0.30	c.		
SHGC:	SHGC=0.25	13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	5.429 ft	a. Central Unit	45.5	SEER:16.00
Area Weighted Average SHGC:	0.224	14. Heating Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Electric Heat Pump	9.0	HSPF:9.00
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: 0.950	
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: _____ 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.