

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Womble Residence Street: City, State, Zip: Lake City, FL, 32055 Owner: Brad & Brandy Womble Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.160	Total Proposed Modified Loads: 100.57 Total Baseline Loads: 103.13	PASS
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I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 9/14/2020 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE: 9-16-20	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 requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Womble Residence	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	3846	Lot #	14
Owner Name:	Brad & Brandy Womble	Total Stories:	2	Block/Subdivision:	LakewoodEst
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32055
Family Type:	Single-family				
New/Existing:	New (From Plans)				
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_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	3846	37494

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	3363	33630	Yes	8	4	1	Yes	Yes	Yes
2	Bonus Room	483	3864	No	2	0	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	1st Floor	328.333 ft	0	3363 ft²	----	0	0	1
_____	2	Floor over Garage	Bonus Room	----	----	483 ft²	19	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	5006 ft²	1602 ft²	Medium	Y	0.96	No	0.9	No	0	39.8

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3846 ft²	Y	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	1st Floor	38	Double Batt	3531 ft²	0.11	Wood
✓	2	Under Attic (Vented)	Bonus Room	38	Double Batt	531 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
✓	1	S	Exterior	Frame - Wood	1st Floor	13	5	4	10		53.3 ft²		0.23	0.75	0
✓	2	W	Exterior	Frame - Wood	1st Floor	13	6	0	10		60.0 ft²		0.23	0.75	0
✓	3	S	Exterior	Frame - Wood	1st Floor	13	13	4	10		133.3 ft²		0.23	0.75	0
✓	4	E	Exterior	Frame - Wood	1st Floor	13	11	4	10		113.3 ft²		0.23	0.75	0
✓	5	S	Exterior	Frame - Wood	1st Floor	13	15	8	10		156.7 ft²		0.23	0.75	0
✓	6	W	Exterior	Frame - Wood	1st Floor	13	11	4	10		113.3 ft²		0.23	0.75	0
✓	7	S	Exterior	Frame - Wood	1st Floor	13	18	10	10		188.3 ft²		0.23	0.75	0
✓	8	S	Garage	Frame - Wood	1st Floor	13	16	8	10		166.7 ft²		0.23	0.75	0
✓	9	E	Exterior	Frame - Wood	1st Floor	13	52	6	10		525.0 ft²		0.23	0.75	0
✓	10	N	Exterior	Frame - Wood	1st Floor	13	17	4	10		173.3 ft²		0.23	0.75	0
✓	11	W	Exterior	Frame - Wood	1st Floor	13	17	4	10		173.3 ft²		0.23	0.75	0
✓	12	N	Exterior	Frame - Wood	1st Floor	13	33	6	10		335.0 ft²		0.23	0.75	0
✓	13	E	Exterior	Frame - Wood	1st Floor	13	14		10		140.0 ft²		0.23	0.75	0
✓	14	E	Exterior	Frame - Wood	1st Floor	13	7	10	10		78.3 ft²		0.23	0.75	0
✓	15	N	Exterior	Frame - Wood	1st Floor	13	17		10		170.0 ft²		0.23	0.75	0
✓	16	W	Exterior	Frame - Wood	1st Floor	13	14	4	10		143.3 ft²		0.23	0.75	0
✓	17	N	Exterior	Frame - Wood	1st Floor	13	5	4	10		53.3 ft²		0.23	0.75	0
✓	18	W	Exterior	Frame - Wood	1st Floor	13	42		10		420.0 ft²		0.23	0.75	0
✓	19	S	Exterior	Frame - Wood	Bonus Room	13	13		8		104.0 ft²		0.23	0.75	0
✓	20	E	Exterior	Frame - Wood	Bonus Room	13	38		8		304.0 ft²		0.23	0.75	0
✓	21	W	Exterior	Frame - Wood	Bonus Room	13	38		8		304.0 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	S	Insulated	1st Floor	None	.46	3		8		24 ft²
✓	2	S	Insulated	1st Floor	None	.46	3		8		24 ft²
✓	3	E	Insulated	1st Floor	None	.46	3		8		24 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 0 in	6 ft 0 in	None	None
✓	2	S	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	12 ft 0 in	1 ft 0 in	None	None
✓	3	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	10 ft 0 in	1 ft 0 in	None	None
✓	4	S	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	5	S	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	6	E	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	1 ft 6 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	7	E	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	25.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	8	E	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	3.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	9	E	9	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	10	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	10 ft 0 in	1 ft 0 in	None	None
_____	11	N	10	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft²	10 ft 0 in	1 ft 0 in	None	None
_____	12	W	11	TIM	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	14 ft 0 in	1 ft 0 in	None	None
_____	13	N	12	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	14 ft 0 in	1 ft 0 in	None	None
_____	14	N	12	Metal	Low-E Double	Yes	0.36	0.25	N	128.0 ft²	14 ft 0 in	1 ft 0 in	None	None
_____	15	E	13	TIM	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	14 ft 0 in	1 ft 0 in	None	None
_____	16	E	14	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	17	N	15	Vinyl	Low-E Double	Yes	0.36	0.25	N	54.0 ft²	1 ft 0 in	3 ft 0 in	None	None
_____	18	W	18	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	19	W	18	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft²	1 ft 6 in	1 ft 0 in	None	None
_____	20	S	19	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft²	1 ft 0 in	2 ft 0 in	None	None
_____	21	W	21	Vinyl	Low-E Double	Yes	0.36	0.25	N	26.3 ft²	1 ft 0 in	0 ft 6 in	None	None

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	912 ft²	912 ft²	103.6667 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.00031	3124.5	171.53	322.59	.1664	5

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	Single	HSPF:8.2	30.88 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	Single	SEER: 14	22.4 kBtu/hr	660 cfm	0.7	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Propane	Tankless	Exterior	0.59	1 gal	40 gal	120 deg	None

INPUT SUMMARY CHECKLIST REPORT

SOLAR HOT WATER SYSTEM

✓	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

✓	#	Location	--- Supply --- R-Value Area	Location	--- Return --- Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
_____	1	Attic	6 961.5 ft²	Attic	192.3 ft²	Default Leakage	Garage	(Default) c	(Default) c			1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans:									
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: HERS 2006 Reference													
Schedule Type	Hours												
	1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM 78	78	78	78	78	78	78	78	80	80	80	80	
	PM 80	80	78	78	78	78	78	78	78	78	78	78	
Cooling (WEH)	AM 78	78	78	78	78	78	78	78	78	78	78	78	
	PM 78	78	78	78	78	78	78	78	78	78	78	78	
Heating (WD)	AM 66	66	66	66	66	68	68	68	68	68	68	68	
	PM 68	68	68	68	68	68	68	68	68	68	66	66	
Heating (WEH)	AM 66	66	66	66	66	68	68	68	68	68	68	68	
	PM 68	68	68	68	68	68	68	68	68	68	66	66	

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	1st Floor
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	Bonus Room

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location <u>Garage</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>22.4</u>
6. Conditioned floor area (sq. ft.)	6. <u>3846</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.360</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>616.3</u>	e) Other <u>14.0</u>
8. Skylights		14. Heating system: Capacity <u>30.9</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u>19.0</u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>8.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u> </u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u>0.59</u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>Yes</u>
d) Radiant barrier installed	11d. <u>Yes</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: KEZ Date: 9-16-20

Address of New Home: 300 NW Emporia Dr. City/FL Zip: Lake City, FL 32055