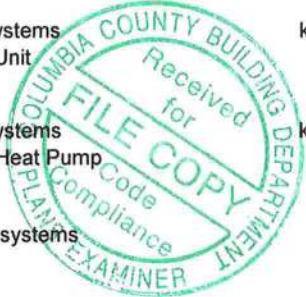


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Benson Residence	Builder Name:
Street:	Permit Office:
City, State, Zip: Ft White, FL,	Permit Number:
Owner:	Jurisdiction:
Design Location: FL, Gainesville	County: Columbia (Florida Climate Zone 2)

<p>1. New construction or existing: New (From Plans)</p> <p>2. Single family or multiple family: Single-family</p> <p>3. Number of units, if multiple family: 1</p> <p>4. Number of Bedrooms: 1</p> <p>5. Is this a worst case?: No</p> <p>6. Conditioned floor area above grade (ft²): 672 Conditioned floor area below grade (ft²): 0</p> <p>7. Windows (68.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22</td> <td>68.00 ft²</td> </tr> <tr> <td>b. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> <tr> <td>c. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> <tr> <td>d. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> </tbody> </table> <p>Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.220</p> <p>8. Floor Types (672.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Crawlspace: R=19.0</td> <td>672.00 ft²</td> </tr> <tr> <td>b. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table>	Description	Area	a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22	68.00 ft²	b. U-Factor: N/A SHGC:	ft²	c. U-Factor: N/A SHGC:	ft²	d. U-Factor: N/A SHGC:	ft²	Insulation	Area	a. Crawlspace: R=19.0	672.00 ft²	b. N/A: R=	ft²	c. N/A: R=	ft²	<p>9. Wall Types (832.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Frame - Wood, Exterior: R=19.0</td> <td>832.00 ft²</td> </tr> <tr> <td>b. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>d. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table> <p>10. Ceiling Types (672.0 sqft.)</p> <table border="1"> <thead> <tr> <th>Insulation</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>a. Under Attic (Vented): R=30.0</td> <td>672.00 ft²</td> </tr> <tr> <td>b. N/A: R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A: R=</td> <td>ft²</td> </tr> </tbody> </table> <p>11. Ducts</p> <table border="1"> <thead> <tr> <th>R</th> <th>ft²</th> </tr> </thead> <tbody> <tr> <td>a. Sup: Main, Ret: Main, AH: Main: 6</td> <td>134.4</td> </tr> </tbody> </table> <p>12. Cooling systems</p> <table border="1"> <thead> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> </thead> <tbody> <tr> <td>a. Central Unit: 18.0</td> <td>SEER:14.00</td> </tr> </tbody> </table> <p>13. Heating systems</p> <table border="1"> <thead> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> </thead> <tbody> <tr> <td>a. Electric Heat Pump: 18.0</td> <td>HSPF:8.50</td> </tr> </tbody> </table> <p>14. Hot water systems</p> <table border="1"> <tbody> <tr> <td>a. Electric</td> <td>Cap: 40 gallons</td> </tr> <tr> <td>b. Conservation features: None</td> <td>EF: 0.920</td> </tr> </tbody> </table> <p>15. Credits: CF, Pstat</p>	Insulation	Area	a. Frame - Wood, Exterior: R=19.0	832.00 ft²	b. N/A: R=	ft²	c. N/A: R=	ft²	d. N/A: R=	ft²	Insulation	Area	a. Under Attic (Vented): R=30.0	672.00 ft²	b. N/A: R=	ft²	c. N/A: R=	ft²	R	ft²	a. Sup: Main, Ret: Main, AH: Main: 6	134.4	kBtu/hr	Efficiency	a. Central Unit: 18.0	SEER:14.00	kBtu/hr	Efficiency	a. Electric Heat Pump: 18.0	HSPF:8.50	a. Electric	Cap: 40 gallons	b. Conservation features: None	EF: 0.920
Description	Area																																																				
a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22	68.00 ft²																																																				
b. U-Factor: N/A SHGC:	ft²																																																				
c. U-Factor: N/A SHGC:	ft²																																																				
d. U-Factor: N/A SHGC:	ft²																																																				
Insulation	Area																																																				
a. Crawlspace: R=19.0	672.00 ft²																																																				
b. N/A: R=	ft²																																																				
c. N/A: R=	ft²																																																				
Insulation	Area																																																				
a. Frame - Wood, Exterior: R=19.0	832.00 ft²																																																				
b. N/A: R=	ft²																																																				
c. N/A: R=	ft²																																																				
d. N/A: R=	ft²																																																				
Insulation	Area																																																				
a. Under Attic (Vented): R=30.0	672.00 ft²																																																				
b. N/A: R=	ft²																																																				
c. N/A: R=	ft²																																																				
R	ft²																																																				
a. Sup: Main, Ret: Main, AH: Main: 6	134.4																																																				
kBtu/hr	Efficiency																																																				
a. Central Unit: 18.0	SEER:14.00																																																				
kBtu/hr	Efficiency																																																				
a. Electric Heat Pump: 18.0	HSPF:8.50																																																				
a. Electric	Cap: 40 gallons																																																				
b. Conservation features: None	EF: 0.920																																																				



Glass/Floor Area: 0.101

Total Proposed Modified Loads: 28.98
Total Baseline Loads: 32.94

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____
DATE: 9-8-20

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: _____

- 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).
- Compliance with a proposed duct leakage Qn requires a 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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Benson Residence	Bedrooms:	1	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2023	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Ft White , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily Temp Range
			97.5 %	2.5 %	Winter	Summer			
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	672	5376

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	672	5376	Yes	1	1	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Exposed PerWall	Ins. R-Value	Area	Floor Joist R-Value	Tile	Wood	Carpet
_____	1	Crawlspace	Main	104 ft	0	672 ft ²	19	0	1	0

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	Metal	728 ft ²	140 ft ²	Unfinishe	N	0.7	No	0.7	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	672 ft ²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	672 ft ²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

SOLAR HOT WATER SYSTEM

✓	FSEC	Collector	Storage				
	Cert #	Company Name	System Model #	Collector Model #	Area	Volume	FEF
_____	None	None			ft ²		

DUCTS

✓	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
_____	1	Main	6	134.4 ft	Main	33.6 ft ²	Prop. Leak Free	Main	--- cfm	20.2 cfm	0.03	0.50	1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[X] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[] Dec
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[] Nov	[] Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type		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	80	80	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.3	Main