

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Bristol Model Street: City, State, Zip: Lake City, FL, 32024 Owner: Spec House Design Location: FL, Gainesville	Builder Name: Aaron Simque Homes Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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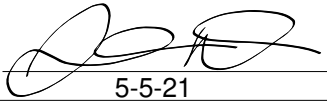
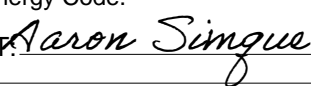

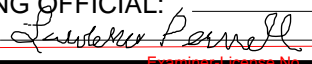
  

1. New construction or existing      New (From Plans) 2. Single family or multiple family      Detached 3. Number of units, if multiple family      1 4. Number of Bedrooms      4 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      3119 Conditioned floor area below grade (ft²)      0 7. Windows(393.3 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.33      393.33 ft² SHGC:      SHGC=0.22 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      6.087 ft. Area Weighted Average SHGC:      0.220 8. Skylights      Area c. U-Factor:(AVG)      N/A      ft² SHGC(AVG):      N/A 9. Floor Types (3119.0 sqft.)      Insulation      Area a. Slab-On-Grade Edge Insulation      R=0.0      3119.00 ft² b. N/A      R=      ft² c. N/A      R=      ft²	10. Wall Types(2103.0 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=13.0      1770.00 ft² b. Frame - Wood, Adjacent      R=13.0      333.00 ft² c. N/A      R=      ft² d. N/A      R=      ft² 11. Ceiling Types (3119.0 sqft.)      Insulation      Area a. Under Attic (Vented)      R=30.0      3119.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 12. Ducts      R      ft² a. Sup: Attic, Ret: Attic, AH: Garage      8      623.8 13. Cooling systems      kBtu/hr      Efficiency a. Central Unit      60.0      SEER:15.00 14. Heating systems      kBtu/hr      Efficiency a. Electric Heat Pump      60.0      HSPF:8.50 15. Hot water systems a. Electric      Cap: 40 gallons EF: 0.920 b. Conservation features None 16. Credits      CF, Pstat
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Glass/Floor Area: 0.126	Total Proposed Modified Loads: 59.77	<b>PASS</b>
	Total Baseline Loads: 66.71	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:  DATE: 5-5-21  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.  <div style="text-align: center;">  <div style="display: inline-block; vertical-align: middle;"> <b>Review for Code Compliance</b>  <b>Universal Engineering Science</b> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>           BUILDING OFFICIAL:            DATE:  </div> <div style="text-align: right;">           PX2707      06/30/2022  <small>Examiner License No.</small> </div> </div>
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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).
- 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:	Bristol Model	Bedrooms:	4	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	3119	Lot #	
Owner Name:	Spec House	Total Stories:	1	Block/Subdivision:	Preserves
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Aaron Simque Homes	Rotate Angle:	0	Street:	
Permit Office:	Columbia County	Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City , FL , 32024
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

## CLIMATE

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

## BLOCKS

Number	Name	Area	Volume
1	Block1	3119	24952

## SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	3119	24952	Yes	6	4	1	Yes	Yes	Yes

## FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	235 ft	0	3119 ft²	----	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	Composition shingles	3749 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	33.7

## ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3119 ft²	N	N

## CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	3119 ft²	0.11	Wood



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## INPUT SUMMARY CHECKLIST REPORT

## 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	N	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
___ 2	W	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
___ 3	N	Exterior	Frame - Wood	Main	13	29	4	9		264.0 ft²	0.625	0.23	0.75	0
___ 4	W	Exterior	Frame - Wood	Main	13	16	4	9		147.0 ft²	0.625	0.23	0.75	0
___ 5	N	Exterior	Frame - Wood	Main	13	14	8	9		132.0 ft²	0.625	0.23	0.75	0
___ 6	E	Exterior	Frame - Wood	Main	13	39	4	9		354.0 ft²	0.625	0.23	0.75	0
___ 7	S	Exterior	Frame - Wood	Main	13	8	4	9		75.0 ft²	0.625	0.23	0.75	0
___ 8	E	Exterior	Frame - Wood	Main	13	4	8	9		42.0 ft²	0.625	0.23	0.75	0
___ 9	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
___ 10	W	Exterior	Frame - Wood	Main	13	1		9		9.0 ft²	0.625	0.23	0.75	0
___ 11	S	Exterior	Frame - Wood	Main	13	13	8	9		123.0 ft²	0.625	0.23	0.75	0
___ 12	E	Exterior	Frame - Wood	Main	13	33	8	9		303.0 ft²	0.625	0.23	0.75	0
___ 13	S	Garage	Frame - Wood	Main	13	37		9		333.0 ft²		0.23	0.75	0

## DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	S	Insulated	Main	None	.4	3		6	8	20 ft²
___ 2	S	Insulated	Main	None	.4	3		6	8	20 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	N	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	18.0 ft²	17 ft 10 in	1 ft 4 in	None	None
___ 2	N	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	144.0 ft²	9 ft 6 in	1 ft 4 in	None	None
___ 3	N	5	Vinyl	Low-E Double	Yes	0.33	0.22	N	54.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___ 4	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___ 5	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___ 6	E	6	Vinyl	Low-E Double	Yes	0.33	0.22	N	4.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___ 7	S	7	Vinyl	Low-E Double	Yes	0.33	0.22	N	13.3 ft²	12 ft 2 in	1 ft 4 in	None	None
___ 8	S	9	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	7 ft 6 in	1 ft 4 in	None	None
___ 9	S	11	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None
___ 10	E	12	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0 ft²	1 ft 6 in	1 ft 4 in	None	None

## GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	520.674 ft²	520.674 ft²	64 ft	8 ft	1



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## INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50		
1	Wholehouse	Proposed ACH(50)	.000254	2079.3	114.08	214.17	.098	5		

HEATING SYSTEM										
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block		Ducts	
✓	1	Electric Heat Pump/	None	Singl	HSPF:8.5	60 kBtu/hr	1		sys#1	

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	None	Singl	SEER: 15	60 kBtu/hr	1800 cfm	0.8	1	sys#1

HOT WATER SYSTEM										
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
✓	1	Electric	None	Garage	0.92	40 gal	70 gal	120 deg	None	

SOLAR HOT WATER SYSTEM										
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF			
✓	None	None					ft²			

DUCTS														
✓	#	---- Supply ----			---- Return ----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
✓	1	Attic	8	623.8 ft	Attic	155.95	Prop. Leak Free	Garage	--- cfm	93.6 cfm	0.03	0.50	1	1

TEMPERATURES																								
Programable Thermostat: Y					Ceiling Fans:																			
Cooling	<input type="checkbox"/>	Jan	<input type="checkbox"/>	Feb	<input type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input type="checkbox"/>	Jan	<input type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input type="checkbox"/>	Jun	<input type="checkbox"/>	Jul	<input type="checkbox"/>	Aug	<input type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec



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**INPUT SUMMARY CHECKLIST REPORT**

Thermostat Schedule: HERS 2006 Reference		Hours											
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	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
<b>MASS</b>													
Mass Type		Area		Thickness		Furniture Fraction		Space					
Default(8 lbs/sq.ft.)		0 ft <sup>2</sup>		0 ft		0.3		Main					



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# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX\* = 90

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

, Lake City, FL, 32024

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	1770.00 ft <sup>2</sup>
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	333.00 ft <sup>2</sup>
4. Number of Bedrooms	4		c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No		d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area (ft <sup>2</sup> )	3119		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	3119.00 ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.33	393.33 ft <sup>2</sup>	b. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.22		c. N/A	R=	ft <sup>2</sup>
b. U-Factor:	N/A	ft <sup>2</sup>	12. Ducts, location & insulation level	R	ft <sup>2</sup>
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	8	623.8
c. U-Factor:	N/A	ft <sup>2</sup>	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	60.0	SEER:15.00
d. U-Factor:	N/A	ft <sup>2</sup>	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	60.0	HSPF:8.50
Area Weighted Average Overhang Depth:	6.087 ft.		15. Hot water systems		
Area Weighted Average SHGC:	0.220		a. Electric	Cap: 40 gallons	
8. Skylights	Description	Area		EF: 0.92	
a. U-Factor(AVG):	N/A	ft <sup>2</sup>	b. Conservation features		
SHGC(AVG):	N/A		None		
9. Floor Types	Insulation	Area	Credits (Performance method)		CF, Pstat
a. Slab-On-Grade Edge Insulation	R=0.0	3119.00 ft <sup>2</sup>			
b. N/A	R=	ft <sup>2</sup>			
c. N/A	R=	ft <sup>2</sup>			



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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: Aaron Singue Date: 6.30.22

Address of New Home: \_\_\_\_\_ City/FL Zip: \_\_\_\_\_



\*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.