

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Josh Wilson And Nicole Dempsey Street: City, State, Zip: White Springs, FL, 32096 Owner: Josh Wilson and Nicole Dempsey Design Location: FL, Tallahassee	Builder Name: CHRISMILLS HOMES Permit Office: Permit Number: Jurisdiction: County: Hardee(Florida Climate Zone 2)
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Glass/Floor Area: 0.083 Total Proposed Modified Loads: 47.37
 Total Baseline Loads: 50.20

PASS

NOTE Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: Charlotte Shea


DATE: 3-5-26

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Green's Sales & Service

DATE: 3-5-26

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.



GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

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.
- 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:	Josh Wilson And Nicole Dempsey	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1983	Lot #:	---
Owner:	Josh Wilson and Nicole Dempsey	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:	CHRISMILLS HOMES	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Hardee
Jurisdiction:		Whole House Fan:		City, State, Zip:	White Springs, FL, 32096
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2026				
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, Tallahassee	FL_TALLAHASSEE_REGIONA	28	94	70	75	1545	46	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1983	17847 cu ft

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	Main	1983	17847	Yes	4	3	Yes	Yes	Yes

FLOORS (Total Exposed Area = 1983 sq.ft.)

#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
1	Slab-On-Grade Edge Ins	Main	188.9	1983 sqft	0.0	0.710	0 (ft)/0 (ft)	1.00	0.00	0.00

ROOF

#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
1	Hip	Composition shingles	2296 ft²	0 ft²	0.11	Light	N	0.96	No	0.9	No	0	30.26

ATTIC

#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
1	Full attic	Vented	300	1983 ft²	N	N

CEILING (Total Exposed Area = 1983 sq.ft.)

#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
1	Flat ceiling under attic(Vented)	Main	38.0	Blown	1983.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1826 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	19.0	56.0	90	9.0	0	571.5	0.061		0.23	0.75	0.0 %
___ 2	E	Exterior	Frame - Wood	Main	19.0	36.0	0	9.0	0	324.0	0.061		0.23	0.75	0.0 %
___ 3	S	Exterior	Frame - Wood	Main	19.0	58.0	40	9.0	0	552.0	0.061		0.23	0.75	0.0 %
___ 4	W	Exterior	Frame - Wood	Main	19.0	37.0	60	9.0	0	378.0	0.061		0.23	0.75	0.0 %

DOORS												(Total Exposed Area = 76 sq.ft.)	
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	W(Front)	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 2	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²		
___ 3	S	Exterior	Insulated	Main	None	0.46	5.00	4	6.00	8	35.6ft²		

WINDOWS														(Total Exposed Area = 165 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 0.35	0.31	N	Y	93.0	6	3.00	5.17	0.0	0.0	IECC 2012	None
___ 2	E	2	Vinyl	Low-E Double	Y 0.35	0.31	N	Y	31.0	2	3.00	5.17	0.0	0.0	IECC 2012	None
___ 3	E	2	Vinyl	Low-E Double	Y 0.35	0.31	N	Y	16.0	1	4.00	4.00	0.0	0.0	None	None
___ 4	S	3	Vinyl	Low-E Double	Y 0.35	0.31	N	Y	9.0	1	3.00	3.00	0.0	0.0	IECC 2012	None
___ 5	S	3	Vinyl	Low-E Double	Y 0.35	0.31	N	Y	15.5	1	3.00	5.17	0.0	0.0	IECC 2012	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00040	2082	114.23	214.46	0.1400	7.0	All	17847 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	215213861	HSPF2: 15.00	35.8		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	215213861	SEER2:15.2	25.4	762	0.75	sys#1	1	

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
1	Electric	None	Main	0.92 (0.92)	40.0 gal	60 gal	120 deg	Standard	Yes	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	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat	HVAC # Cool
1	Attic	8.0	397 ft²	Attic	8.0	99 ft²	Default Leakage	Attic	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N											
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 type="checkbox"/> Apr	<input 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 type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec			
Thermostat Schedule: HERS 2006 Reference	Hours														
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12			
Cooling (WD)	AM 78 PM 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	
Cooling (WEH)	AM 78 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 78	78 78	
Heating (WD)	AM 66 PM 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66	
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Project Summary
Entire House
Chrismills Homes of Florida

Job:
Date: 03012026
By: Charlotte Green

354 Enterprise Drive, Valdosta, Ga 31601 Phone: 229-212-1100

Project Information

For: Josh Wilson & Nicole Dempsey, Chrismills Homes of FI
White Springs, FI 32096

Notes:

Design Information

Weather: Tallahassee Regional AP, FL, US

Winter Design Conditions

Outside db 29 °F
Inside db 68 °F
Design TD 39 °F

Ventilation Method MJ8

Summer Design Conditions

Outside db 94 °F
Inside db 75 °F
Design TD 19 °F
Daily range M
Relative humidity 50 %
Moisture difference 42 gr/lb

Heating Summary

Structure 17513 Btuh
Ducts (R-6.0) 8158 Btuh
Central vent (0 cfm) 0 Btuh

Humidification 0 Btuh
Piping 0 Btuh
Equipment load 25671 Btuh

Infiltration

Method Simplified
Construction quality Average
Fireplaces 0

	Heating	Cooling
Area (ft ²)	2057	2057
Volume (ft ³)	21255	21255
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	113	57

Heating Equipment Summary

Make
Trade
Model
AHRI ref

Efficiency 80 AFUE
Heating input 0 Btuh
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 1261 cfm
Air flow factor 0.049 cfm/Btuh
Static pressure 0 in H2O
Space thermostat

Sensible Cooling Equipment Load Sizing

Structure 20866 Btuh
Ducts (R-6.0) 9622 Btuh
Central vent (0 cfm) 0 Btuh

Blower 0 Btuh

Use manufacturer's data
Rate/swing multiplier 0.99ⁿ
Equipment sensible load 30184 Btuh

Latent Cooling Equipment Load Sizing

Structure 2812 Btuh
Ducts 1793 Btuh
Central vent (0 cfm) 0 Btuh

Equipment latent load 4605 Btuh

Equipment Total Load (Sen+Lat) 34789 Btuh
Req. total capacity at 0.70 SHR 3.6 ton

Cooling Equipment Summary

Make
Trade
Cond
Coil
AHRI ref
Efficiency 0 SEER
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 1261 cfm
Air flow factor 0.041 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0.87

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

