FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Pamela Thomas	Builder Name: Parrish Builders Group	
Street:	1061 SW	Permit Office: Columbia County	
City, State, Zip:	Nebraska Ter Fort White, FL	Permit Number:	
Owner:		Jurisdiction: County	
Design Location:	FL, Gainesville	County: Columbia	Columbia(Florida Climate Zone 2)

1. New construction or existing		New (From Plans)	10. Wall Types(1158.0 sqft.)		Insulation	Area
2. Single family or multiple family		Detached	a. Frame - Wood, Exterior		R=13.0	1158.00 ft²
3. Number of units, if multiple family		1	b. N/A		R=	ft²
4. Number of Bedrooms		2	c. N/A		R=	ft²
5. Is this a worst case?		No	d. N/A		R=	ft²
6. Conditioned floor area above grade (ft²)		962	11. Ceiling Types(962.0 sqft.)		Insulation	Area
Conditioned floor area below grade (ft²)		0	a. Under Attic (Unvented)		R=30.0	962.00 ft²
7. Windows(174.0 sqft.)	Description	Area	b. N/A		R=	ft²
a. U-Factor:	Dbl, U=0.26	174.00 ft²	c. N/A		R=	ft²
SHGC:	SHGC=0.20		12. Ducts, location & insulation level			R ft²
b. U-Factor:	N/A	ft²	a. a. Sup: Attic, Ret: Attic, AH: Main			6 192.4
SHGC:			b.			
c. U-Factor:	N/A	ft²	c.			
SHGC:			13. Cooling Systems		kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:		3.983 ft	a. Central Unit		24.0	SEER:15.00
Area Weighted Average SHGC:		0.200				
8. Skylights	Description	Area	14. Heating Systems		kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	N/A ft²	a. Electric Heat Pump		24.0	HSPF:8.50
SHGC(AVG):	N/A					
9. Floor Types	Insulation	Area	15. Hot Water Systems			
a. Slab-On-Grade Edge Insulation	R= 0.0	962.00 ft²	a. ElectricTankless			Cap: 1 gallons
b. N/A	R=	ft²				EF: 0.920
c. N/A	R=	ft²	b. Conservation features			None
			16. Credits			CF, Pstat

Glass/Floor Area: 0.181

Total Proposed Modified Loads: 34.66

Total Baseline Loads: 35.18

PASS

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

PREPARED BY: _____

DATE: 5-10-22

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

OWNER/AGENT: _____

DATE: 6-15-22

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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.000 Qn for whole house.

- 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 5.00 ACH50 (R402.4.1.2).

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INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Pamela Thomas			Address type:	Street Address
Building Type:	SFD	Bedrooms:	2	Lot #:	---
Owner:		Conditioned Area:	962	Block/SubDivision:	---
Builder Name: Parrish Builders Group		Total Stories:	1	PlatBook:	---
Permit Office: Columbia County		Worst Case:	No	Street: 1061SW Nebraska Ter	
Jurisdiction: County		Rotate Angle:	0	County: Columbia	
		Cross Ventilation:		City, State, Zip: Ft White, FL	
Family Type:	Detached	Whole House Fan:			
New/Existing:	New (From Plans)	Terrain:	Rural		
Year Construct:	2022	Shielding:	Moderate/Rural		
Comment:					

CLIMATE

√	Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp 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	962	8658

SPACES

√	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Main	962	8658	Yes	4	2	Yes	Yes	Yes

FLOORS (Total Exposed Area = 962 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	128.667	0	962 ft	0.578	---	0.25	0.50	0.25

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	Composition shingles	1042 ft²	200 ft²	Medium	N	0.85	No	0.9	No	0	22.62

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	Full attic	Vented	300	962 ft²	N	N

CEILING (Total Exposed Area = 962 sq.ft.)

√	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___	1	Under Attic(Vented)	Main	30.0	Blown	962.0ft²	0.053	0.11	Wood

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INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1158 sq.ft.)

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	13.0	23.0	8	9.0	0	213.0	0.094		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	Main	13.0	40.0	8	9.0	0	366.0	0.094		0.23	0.75	0 %
___ 3	S	Exterior	Frame - Wood	Main	13.0	23.0	8	9.0	0	213.0	0.094		0.23	0.75	0 %
___ 4	W	Exterior	Frame - Wood	Main	13.0	40.0	8	9.0	0	366.0	0.094		0.23	0.75	0 %

DOORS (Total Exposed Area = 72 sq.ft.)

√ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	N	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²
___ 2	N	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²
___ 3	S	Exterior	Insulated	Main	None	0.40	3.00	0	8.00	0	24.0ft²

WINDOWS (Total Exposed Area = 174 sq.ft.)

√ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang----- Depth	Separation	Interior Shade	Screening
___ 1	E	2	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	36.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 2	E	2	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	3.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 3	S	3	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	54.0ft²	9.0 ft 6 in	2.0 ft 4 in	None	None
___ 4	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	72.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 5	W	4	Vinyl	Low-E Double	Yes	0.26	0.20	N	N	9.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None

INFILTRATION

√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00029	722	39.58	74.31	0.1027	5.0	All

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---- Entry	Power	Volt	Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	24.0		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:15.0	24.0	720	0.85	sys#1	1

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INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	Tankless	Exterior	0.92 (0.92)	1.00 gal	50 gal	120 deg	Standard	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	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___ 1	Attic	6.0	192 ft²	Attic	6.0	48 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y Ceiling Fans: N

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

√ 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	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

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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

1061 SW Nebraska Ter Ft White, FL 32038

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		2
5. Is this a worst case?		No
6. Conditioned floor area above grade (ft²)		962
Conditioned floor area below grade (ft²)		0

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.26	174.00 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		3.983 ft
Area Weighted Average SHGC:		0.200

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	962.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Types(1158.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1158.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

11. Ceiling Types(962.0 sqft.)	Insulation	Area
a. Under Attic (Unvented)	R=30.0	962.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

12. Ducts, location & insulation level	R	ft²
a. a. Sup: Attic, Ret: Attic, AH: Main	6	192.4
b.		
c.		

13. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	24.0	SEER:15.00

14. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	24.0	HSPF:8.50

15. Hot Water Systems	
a. ElectricTankless	Cap: 1 gallons
	EF: 0.920
b. Conservation features	
	None
16. Credits	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: 6-15-22

Address of New Home:1061 SW Nebraska Ter Ft White, FL 32038

*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.