

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: New Project-Vazquez Street: TBD SW Grassy LN City, State, Zip: Fort White, FL, Owner: Design Location: FL, Gainesville	Builder Name: Harvey Builders Permit Office: Permit Number: Jurisdiction: County: Alachua(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 2 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1899 Conditioned floor area below grade (ft²) 0 7. Windows(190.0 sqft.) Description Area a. U-Factor: Dbl, U=0.33 190.00 ft² SHGC: SHGC=0.22 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 4.184 ft Area Weighted Average SHGC: 0.220 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 1899.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1678.5 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1678.50 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(1899.0 sqft.) Insulation Area a. Roof Deck (Unvented) R=23.0 1899.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Unvent) Deck R=23.0 2057 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 380 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 34.2 SEER2:14.30 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 34.0 HSPF2:7.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.980 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.100

Total Proposed Modified Loads: 46.30

Total Baseline Loads: 46.23

PASS

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

PREPARED BY: Suncoast Insulators

DATE: 9/21/2023

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

OWNER/AGENT: Gerald "Skip" Harvey

DATE: 10.9.23

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.
- 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	New Project-Vazquez				Address type:		Street Address																	
Building Type:	User				Bedrooms:	2	Lot #:	---																
Owner:					Conditioned Area:	1899	Block/SubDivision:	---																
Builder Home ID:					Total Stories:	1	PlatBook:	---																
Builder Name:	Harvey Builders				Worst Case:	No	Street:	TBD SW Grassy LN																
Permit Office:					Rotate Angle:	0	County:	Alachua																
Jurisdiction:					Cross Ventilation:		City, State, Zip:	Fort White, FL,																
Family Type:	Detached				Whole House Fan:																			
New/Existing:	New (From Plans)				Terrain:	Suburban																		
Year Construct:	2023				Shielding:	Suburban																		
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_REGIONA		32	92	70	75	1305.5	51	Medium															
BLOCKS																								
✓ Number	Name		Area		Volume																			
___ 1	Block1		1899		17091 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	Main		1899		17091		Yes		1		2		Yes		Yes		Yes							
FLOORS (Total Exposed Area = 1899 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		186		0		1899 ft		0.547		---		0.22		0.22		0.56					
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		2057 ft²		396 ft²		Medium		N		0.96		No		0.9		No		23		22.62	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	Full attic		Unvented		0		1899 ft²		N		N													
CEILING (Total Exposed Area = 1899 sq.ft.)																								
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
___ 1	Flat ceiling under attic(Unvented)		Main		0.0		Blown		1899.0ft²		0.039		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1679 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	13.0	40.0	0	9.0	0	360.0	0.084		0.23	0.75	0 %				
___ 2	E	Exterior	Frame - Wood	Main	13.0	30.0	0	9.0	0	270.0	0.084		0.23	0.75	0 %				
___ 3	S	Exterior	Frame - Wood	Main	13.0	40.0	0	9.0	0	360.0	0.084		0.23	0.75	0 %				
___ 4	W	Exterior	Frame - Wood	Main	13.0	30.0	0	9.0	0	270.0	0.084		0.23	0.75	0 %				
___ 5	N	Exterior	Frame - Wood	Main	13.0	23.0	3	9.0	0	209.3	0.084		0.23	0.75	0 %				
___ 6	S	Exterior	Frame - Wood	Main	13.0	23.0	3	9.0	0	209.3	0.084		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 164 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	N(Front)		Insulated	Main	None	0.46	6.00	0	8.00	0	48.0ft²			
___ 2	W		Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²			
___ 3	S		Insulated	Main	None	0.46	12.00	0	8.00	0	96.0ft²			

WINDOWS															(Total Exposed Area = 190 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	0.33	0.22	N	N	24.0	3	4.00	2.00	1.5	2.0	Drapes/blinds	Ex. 50%
___ 2	N	5	Vinyl	Low-E Double	Y	0.33	0.22	N	N	60.0	4	3.00	5.00	10.0	2.0	Drapes/blinds	Ex. 50%
___ 3	E	2	Vinyl	Low-E Double	Y	0.33	0.22	N	N	30.0	2	3.00	5.00	1.5	2.0	Drapes/blinds	Ex. 50%
___ 4	S	3	Vinyl	Low-E Double	Y	0.33	0.22	N	N	30.0	2	3.00	5.00	1.5	2.0	Drapes/blinds	Ex. 50%
___ 5	S	3	Vinyl	Low-E Double	Y	0.33	0.22	N	N	8.0	1	4.00	2.00	1.5	2.0	Drapes/blinds	Ex. 50%
___ 6	W	4	Vinyl	Low-E Double	Y	0.33	0.22	N	N	30.0	2	3.00	5.00	1.5	2.0	Drapes/blinds	Ex. 50%
___ 7	W	4	Vinyl	Low-E Double	Y	0.33	0.22	N	N	8.0	1	4.00	2.00	1.5	2.0	Drapes/blinds	Ex. 50%

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00029	1424	78.14	146.70	0.1027	5.0	All	17091 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---- Entry Power	Volt	Current	Ducts	Block	
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	34.0		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

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM(Continued)

___ 1 Central Unit None/Single SEER2:14.3 34.2 1026 0.75 sys#1 1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.98 (0.94)	50.00 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 #	Location	Supply R-Value	Area	Return Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	Cool
___ 1	Attic	6.0	380 ft²	Attic	6.0	95 ft²	Default Leakage	Main	(Default)	(Default)			1	1

MECHANICAL VENTILATION

✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
___ None	0.0	0.0	0.0	0.0 W	0 %	1 - Electric Heat Pump	1 - Central Unit

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N										
Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec		
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec		
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] Nov	[] Dec		
Thermostat Schedule: HERS 2006 Reference														
✓ Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12	
___ Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78	
___ Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	
___ Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

TBD SW Grassy LN ,Fort White,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1678.5 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1678.50 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	2	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1899	11. Ceiling Types(1899.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Roof Deck (Unvented)	R=23.0	1899.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.33	c. N/A		
SHGC:	SHGC=0.22	12. Roof(Comp. Shingles, Unvent) Deck	R=23.0	2057 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main	6	380
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	4.184 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.220	a. Central Unit	34.2	SEER2:14.30
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	34.0	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric		Cap: 50 gallons
b. N/A	R=			EF: 0.980
c. N/A	R=	b. Conservation features		
		17. Credits		None
				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: Gerald "Skip " Harvey Date: 10.9.23

Address of New Home: TBD SW Grassy LN City/FL Zip: Fort White,FL,



*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.