

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: David Reyes Res Street: 165 NE Shelly Glen City, State, Zip: Lake City, FL, 32055 Owner: David Reyes Design Location: FL, Gainesville	Builder Name: 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 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 1400 Conditioned floor area below grade (ft²) 0 7. Windows(164.1 sqft.) Description Area a. U-Factor: Dbl, U=0.36 164.08 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.250 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 1400.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1248.0 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=4.2 1248.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(1540.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 1540.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 1517 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 350 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 18.4 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 23.8 HSPF2:8.80 16. Hot Water Systems a. Electric Cap: 40 gallons EF: 0.920 b. Conservation features None 17. Credits CV, Pstat
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Glass/Floor Area:0.117

Total Proposed Modified Loads: 40.22

Total Baseline Loads: 42.24

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.

PASS

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

PREPARED BY: _____

DATE: _____

10 / 24 / 2024

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 563.908 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	David Reyes Res	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1400	Lot #:	---
Owner:	David Reyes	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	165 NE Shelly Glen
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32055
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2024				
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp	Design Temp	Int Design Temp	Heating	Design	Daily temp
		97.5%	2.5%	Winter Summer	Degree Days	Moisture	Range
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70 75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	1400	11200 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	1st Floor	1400	11200	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1400 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	1st Floor	156	1400 sqft	0 ---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00

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	1517 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	22.62

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Partial cathedral ceiling	Vented	300	1400 ft²	Y	N

CEILING

(Total Exposed Area = 1540 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	1540.0ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS														(Total Exposed Area = 1248 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	S	Exterior	Conc. Blk - Int Ins	1st Floor	4.2	50.0	0	8.0	0	400.0	0.147		0	0.75	0 %		
2	E	Exterior	Conc. Blk - Int Ins	1st Floor	4.2	28.0	0	8.0	0	224.0	0.147		0	0.75	0 %		
3	N	Exterior	Conc. Blk - Int Ins	1st Floor	4.2	50.0	0	8.0	0	400.0	0.147		0	0.75	0 %		
4	W	Exterior	Conc. Blk - Int Ins	1st Floor	4.2	28.0	0	8.0	0	224.0	0.147		0	0.75	0 %		

DOORS										(Total Exposed Area = 20 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
1	S	Exterior	Insulated	1st Floor	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS														(Total Exposed Area = 164 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	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	60.0	4	3.00	5.00	1.5	0.5	None	None
2	E	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	0.5	None	None
3	E	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.4	1	1.83	1.83	1.5	0.5	None	None
4	N	3	TIM	Low-E Double	Y	0.36	0.25	N	N	40.0	2	3.00	6.67	1.5	0.5	None	None
5	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	0.5	None	None
6	N	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.4	1	1.83	1.83	1.5	0.5	None	None
7	W	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	0.5	None	None
8	W	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.4	1	1.83	1.83	1.5	0.5	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
1	Wholehouse	Proposed ACH(50)	0.00036	1307	71.69	134.59	0.1372	7.0	All	11200 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry	Power	Volt	Current	Block
1	Electric Heat Pump	None/Single		HSPF2: 8.80	23.8		0.00	0.00	0.00	sys#1

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	Central Unit	None/Single		SEER2:15.5	18.4	540	0.75	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	1st Floor	0.92 (0.92)	40.00 gal	40 gal	120 deg	Standard	None	12
	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 OUT	RLF	HVAC # Heat	HVAC # Cool
___ 1	Attic	6.0	350 ft²	Attic	6.0	70 ft²	Default Leakage	1st Floor	(Default)	(Default)			1	1

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	7	8	9	10	11	12			
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78		
___ Cooling (WEH)	AM 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		
___ Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66		
___ Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 95

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

165 NE Shelly Glen, Lake City, FL, 32055

1. New construction or existing	New (From Plans)	10. Wall Types(1248.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=4.2	1248.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1400	11. Ceiling Types(1540.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1540.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1517 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: 1st Floor	6	350
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	18.4	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	23.8	HSPF2:8.80
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric		Cap: 40 gallons
b. N/A	R=			EF: 0.920
c. N/A	R=	b. Conservation features		
				None
		17. Credits		CV, 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: _____

Address of New Home: 165 NE Shelly Glen

City/FL Zip: Lake City, FL, 32055



*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.