


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: New Project ROWLEY Street: City, State, Zip: , FL , 32615 Owner: Design Location: FL, Gainesville	Builder Name: JERRY LERNER Permit Office: 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 Single-family 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) 1308 Conditioned floor area below grade (ft²) 0 7. Windows (128.0 sqft.) Description Area a. U-Factor: Dbl, U=0.34 128.00 ft² SHGC: SHGC=0.23 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 4.953 ft. Area Weighted Average SHGC: 0.230 8. Floor Types (1308.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1308.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types (1368.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1152.00 ft² b. Frame - Wood, Adjacent R=13.0 216.00 ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (1308.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 1308.00 ft² b. N/A R= ft² c. N/A R= ft² 11. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 261.6 12. Cooling systems kBtu/hr Efficiency a. Central Unit 28.6 SEER:14.00 13. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 28.6 HSPF:8.20 14. Hot water systems a. Electric Tankless Cap: 1 gallons b. Conservation features EF: 0.920 None 15. Credits Pstat
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Glass/Floor Area: 0.098	Total Proposed Modified Loads: 36.63	PASS
	Total Baseline Loads: 37.83	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>M. Houghtaling</u> DATE: <u>8-27-20</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>[Signature]</u> DATE: <u>9/1/20</u>	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> BUILDING OFFICIAL: _____ DATE: _____
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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).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	New Project ROWLEY	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1308	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	JERRY LERNER	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	FL, 32615
Family Type:	Single-family				
New/Existing:	New (From Plans)				
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_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1308	11772

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1308	11772	Yes	1	2	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	152 ft		1308 ft²	0.3	0.3	0.4

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	1417 ft²	0 ft²	Medium	N	0.96	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1308 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Blown	1308 ft²	0.11	Wood

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	36	0	9	0	324.0 ft²		0.23	0.55	0
2	W	Exterior	Frame - Wood	Main	13	16	0	9	0	144.0 ft²		0.23	0.55	0
3	S	Exterior	Frame - Wood	Main	13	36	0	9	0	324.0 ft²		0.23	0.55	0
4	E	Exterior	Frame - Wood	Main	13	40	0	9	0	360.0 ft²		0.23	0.55	0
5	W	Garage	Frame - Wood	Main	13	24	0	9	0	216.0 ft²		0.23	0.55	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	N	Insulated	Main	None	.46	3		6	8	20 ft²
2	S	Insulated	Main	None	.46	2	6	6	8	16.7 ft²
3	S	Insulated	Main	None	.46	5		6	8	33.3 ft²
4	W	Insulated	Main	None	.46	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	0.34	0.23	N	10.0 ft²	1 ft 6 in	0 ft 0 in	Drapes/blinds	None
2	N	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	30.0 ft²	1 ft 6 in	0 ft 0 in	Drapes/blinds	None
3	S	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	12.0 ft²	10 ft 0 in	0 ft 0 in	Drapes/blinds	None
4	S	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	10.0 ft²	10 ft 0 in	0 ft 0 in	Drapes/blinds	None
5	S	3	Vinyl	Low-E Double	Yes	0.34	0.23	N	30.0 ft²	10 ft 0 in	0 ft 0 in	Drapes/blinds	None
6	E	4	Vinyl	Low-E Double	Yes	0.34	0.23	N	30.0 ft²	1 ft 6 in	0 ft 0 in	Drapes/blinds	None
7	E	4	Vinyl	Low-E Double	Yes	0.34	0.23	N	6.0 ft²	1 ft 6 in	0 ft 0 in	Drapes/blinds	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
1	576 ft²	576 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	981	53.86	101.28	.1128	5

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	Split	Singl	HSPF:8.2	28.6 kBtu/hr	1	sys#1

HOT WATER SYSTEM

#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric	Tankless	Exterior	0.92	1 gal	50 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

#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
1	Attic	6	261.6 ft	Attic	65.4 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<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 checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" 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 checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<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 checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec

Thermostat Schedule: HERS 2006 Reference

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	68	68
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	68	68

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) ALTERNATIVE DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

, , FL, 32615

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0	1152.00 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	216.00 ft ²
4. Number of Bedrooms	2	c. N/A	R=	ft ²
5. Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1308	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=38.0	1308.00 ft ²
a. U-Factor:	DbI, U=0.34	b. N/A	R=	ft ²
SHGC:	SHGC=0.23	c. N/A	R=	ft ²
b. U-Factor:	N/A	11. Ducts		R ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Main		6 261.6
c. U-Factor:	N/A	12. Cooling systems	kBtu/hr	Efficiency
SHGC:		a. Central Unit	28.6	SEER:14.00
d. U-Factor:	N/A	13. Heating systems	kBtu/hr	Efficiency
SHGC:		a. Electric Heat Pump	28.6	HSPF:8.20
Area Weighted Average Overhang Depth:	4.953 ft.	14. Hot water systems		Cap: 1 gallons
Area Weighted Average SHGC:	0.230	a. Electric		EF: 0.92
8. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	15. Credits		Pstat
c. N/A	R=			

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: 9/2/20

Address of New Home: PARCE #10042-005

City/FL Zip: HIGH SPRINGS
FL. 32643



*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 EnergyGauge Rating. Email EnergyGauge tech support at techsupport@energygauge.com or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. 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.