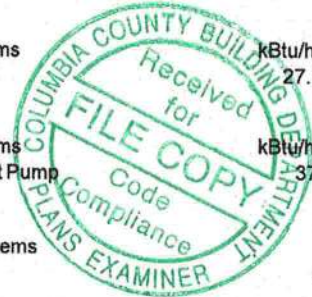


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

<p>Project Name: Lane Residence Street: Mission Ridge Drive City, State, Zip: Lake City, FL, Owner: Dustin & Laurie Lane Design Location: FL, Gainesville</p>	<p>Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)</p>
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Glass/Floor Area: 0.127	Total Proposed Modified Loads: 59.69	PASS
	Total Baseline Loads: 62.91	

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


PREPARED BY: _____
 DATE: 5/13/2020

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

OWNER/AGENT: _____
 DATE: 6/12/2020

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 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:	Lane Residence	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2498	Lot #	
Owner Name:	Dustin & Laurie Lane	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	Mission Ridge Drive
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
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, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2498	22482

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2498	22482	Yes	8	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	Main	259.667 ft	0	2498 ft²	----	0	0 1

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	3003 ft²	832 ft²	Medium	Y	0.96	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2498 ft²	Y	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	38	Double Batt	2623 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	S	Exterior	Frame - Wood	Main	13	38		9		342.0 ft²		0.23	0.75	0
___ 2	E	Exterior	Frame - Wood	Main	13	5	6	9		49.5 ft²		0.23	0.75	0
___ 3	S	Exterior	Frame - Wood	Main	13	7		9		63.0 ft²		0.23	0.75	0
___ 4	W	Exterior	Frame - Wood	Main	13	5	6	9		49.5 ft²		0.23	0.75	0
___ 5	S	Exterior	Frame - Wood	Main	13	24		9		216.0 ft²		0.23	0.75	0
___ 6	E	Exterior	Frame - Wood	Main	13	35	0	9		315.0 ft²		0.23	0.75	0
___ 7	N	Garage	Frame - Wood	Main	13	24		9		216.0 ft²		0.23	0.75	0
___ 8	N	Exterior	Frame - Wood	Main	13	32	6	9		292.5 ft²		0.23	0.75	0
___ 9	E	Exterior	Frame - Wood	Main	13	12		9		108.0 ft²		0.23	0.75	0
___ 10	N	Exterior	Frame - Wood	Main	13	12	6	9		112.5 ft²		0.23	0.75	0
___ 11	W	Exterior	Frame - Wood	Main	13	7	10	9		70.5 ft²		0.23	0.75	0
___ 12	N	Exterior	Frame - Wood	Main	13	6	4	9		57.0 ft²		0.23	0.75	0
___ 13	W	Exterior	Frame - Wood	Main	13	12	10	9		115.5 ft²		0.23	0.75	0
___ 14	S	Exterior	Frame - Wood	Main	13	6	4	9		57.0 ft²		0.23	0.75	0
___ 15	W	Exterior	Frame - Wood	Main	13	25	4	9		228.0 ft²		0.23	0.75	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

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	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	72.0 ft²	9 ft 6 in	1 ft 6 in	None	None
___ 2	S	1	TIM	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	9 ft 6 in	1 ft 6 in	None	None
___ 3	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 4	S	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 5	E	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 6	E	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 7	N	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	13 ft 6 in	1 ft 0 in	None	None
___ 8	N	8	Metal	Low-E Double	Yes	0.36	0.25	N	80.0 ft²	13 ft 6 in	1 ft 0 in	None	None
___ 9	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None
___ 10	W	13	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft²	1 ft 0 in	2 ft 0 in	None	None
___ 11	W	15	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

GARAGE													
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation							
✓	1	624 ft²	624 ft²	76 ft	9 ft	1							
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50					
1	Wholehouse	Proposed ACH(50)	.000286	1873.5	102.85	193.43	.1128	5					
HEATING SYSTEM													
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts					
✓	1	Electric Heat Pump/	None	Single	HSPF:8.2	37.13 kBtu/hr	1	sys#1					
COOLING SYSTEM													
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts			
✓	1	Central Unit/	None	Single	SEER: 14	27.09 kBtu/hr	810 cfm	0.7	1	sys#1			
HOT WATER SYSTEM													
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation				
✓	1	Electric	None	Main	0.92	50 gal	40 gal	120 deg	None				
SOLAR HOT WATER SYSTEM													
✓	FSEC Cert #	CompanyName	System Model#	Collector Model#	Collector Area	Storage Volume	FEF						
✓	None	None			ft²								
DUCTS													
✓	#	--- Supply ---		--- Return ---		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
✓	1	Location	R-Value	Area	Location	Area						Heat	Cool
	1	Attic	6	624.5 ft²	Attic	124.9 ft²	Default Leakage	Main	(Default) c	(Default) c		1	1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

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 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 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 checked="" 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	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	66	66
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	66	66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.3	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 95

The lower the Energy Performance Index, the more efficient the home.

<p>1. New home or, addition</p> <p>2. Single-family or multiple-family</p> <p>3. No. of units (if multiple-family)</p> <p>4. Number of bedrooms</p> <p>5. Is this a worst case? (yes/no)</p> <p>6. Conditioned floor area (sq. ft.)</p> <p>7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area</p> <p>8. Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)</p> <p>9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value)</p> <p>10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value)</p> <p>11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed</p>	<p>1. <u>New (From Plans)</u></p> <p>2. <u>Single-family</u></p> <p>3. <u>1</u></p> <p>4. <u>3</u></p> <p>5. <u>No</u></p> <p>6. <u>2498</u></p> <p>7a. <u>0.360</u> 7b. <u>0.250</u> 7c. <u>316.0</u></p> <p>8a. <u>NA</u> 8b. <u>NA</u></p> <p>9a. <u>0.0</u> 9b. _____ 9c. _____</p> <p>10A1. <u>13.0</u> 10A2. _____ 10B1. <u>13.0</u> 10B2. _____</p> <p>11a. <u>38.0</u> 11b. _____ 11c. _____ 11d. <u>Yes</u></p>	<p>12. Ducts, location & insulation level a) Supply ducts R <u>6.0</u> b) Return ducts R <u>6.0</u> c) AHU location <u>Main</u></p> <p>13. Cooling system: Capacity <u>27.1</u> a) Split system SEER _____ b) Single package SEER _____ c) Ground/water source SEER/COP _____ d) Room unit/PTAC EER _____ e) Other <u>14.0</u></p> <p>14. Heating system: Capacity <u>37.1</u> a) Split system heat pump HSPF _____ b) Single package heat pump HSPF _____ c) Electric resistance COP _____ d) Gas furnace, natural gas AFUE _____ e) Gas furnace, LPG AFUE _____ f) Other <u>8.20</u></p> <p>15. Water heating system a) Electric resistance EF <u>0.92</u> b) Gas fired, natural gas EF _____ c) Gas fired, LPG EF _____ d) Solar system with tank EF _____ e) Dedicated heat pump with tank EF _____ f) Heat recovery unit HeatRec% _____ g) Other _____</p> <p>16. HVAC credits claimed (Performance Method) a) Ceiling fans _____ b) Cross ventilation <u>Yes</u> c) Whole house fan <u>No</u> d) Multizone cooling credit _____ e) Multizone heating credit _____ f) Programmable thermostat <u>Yes</u></p>
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*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: 6/12/2020

Address of New Home: Mission Ridge Drive City/FL Zip: Lake City, FL

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:	Permit #:
---------------	-----------

Job Information

Builder:	Community:	Lot:	NA
Address: Mission Ridge Drive			
City: Lake City	State: FL	Zip:	

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 + \frac{22482}{\text{Building Volume}} = \text{ACH}(50)$ <p style="text-align: center; font-size: 2em; font-weight: bold;">PASS</p> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
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R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

- During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
 3. Interior doors, if installed at the time of the test, shall be open.
 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
 6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____