FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Renae Preston Street: 344 Blue Jay Ct City, State, Zip: Ft White , FL , 32038 Owner: Renae Preston Design Location: FL, Gainesville	Builder Name: LDM Construction Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 7. Windows (162.0 sqft.) Description a. U-Factor: Dbl, U=0.36 162.00 ft² SHGC: SHGC=0.25 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: 3.105 ft. Area Weighted Average SHGC: 0.250 8. Floor Types (1371.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1371.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types (1378.5 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (1438.0 sqft.) b. N/A R= ft² c. N/A R= ft² c. N/A R= ft² 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 12. Cooling systems a. Central Unit Retired to the at Pump 13. Heating systems a. Electric Heat Pump 15. Credits Insulation R=13.0 192.00 ft² R=13.0 192.00 ft² R= R= ft² R=
Glass/Floor Area: 0.118 Total Proposed Modified Total Baseline	Loads: 41.11 PASS Loads: 41.39
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 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 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).

Under Attic (Vented)

38

Double Batt

1438 ft²

0.11

Main

Wood

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	
1	Wholehouse	Proposed ACH(50)	.000286	1028.3	56.45	106.16	.1128	5	

HEATING SYSTEM

$\overline{}$	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump/	None	Single	HSPF:8.2	21.43 kBtu/hr	1	sys#1

Below

Grade%

0

0

0

0

0

0

Area

20 ft²

20 ft²

Screening

None

None

None

None

None

None

None

					COO	LING SY	STEM						
\checkmark	# 5	System Type		Subtype	Su	btype	Efficiency	Capacity	Air	Flow S	SHR	Block	Ducts
	1 (Central Unit/		None	Sin	gle	SEER: 14	17 kBtu/hr	510	cfm	0.75	1	sys#1
					HOT W	ATER S	YSTEM						
$\sqrt{}$	#	System Type	SubType	Location	on EF	C	Сар	Use	SetPnt		Co	onservatio	n
	1	Electric	None	Garage	e 0.92	40	gal	40 gal	120 deg			None	
				S	OLAR HO	T WATE	R SYSTE	EM					
	FSEC Cert #		ame		System	Model#	Co	ollector Model		ollector Area		rage ume	FEF
	None	None								ft²			
						DUCTS						The second second	
/	#	Sup Location R	ply -Value Area	 Locat	Return ion Area	Leak	ageType	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC :
	1	Attic	6 274 ft ²	Attio	68.5 ft ²	Defau	lt Leakage	Garage	(Default)	c(Default)	С		1 1
					TEM	PERATU	JRES						
Program	ableThe	rmostat: Y			Ceiling Fan	s:					Second Santitioning		
Cooling Heating Venting	[X] Ja	an []Feb an [X]Feb an []Feb	[] Mar [X] Mar [X] Mar	Apr Apr [X] Apr	[] May [] May [] May	[X] Jun Jun Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Se [] Se [] Se		Oct Oct Oct	[] Nov [X] Nov [X] Nov	[] Dec [X] Dec [] Dec
Thermosta Schedule		ile: HERS 200	06 Reference	2	3 4	5	Ho 6	ours 7	8	9	10	11	12
Cooling (V		AM PM	78 80	THE RESERVE TO THE PARTY OF THE	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (V	/EH)	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
Heating (V	/D)	AM PM	66 68	66 68	66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (V	/EH)	AM PM	66 68	66 6 68 6	66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
					MECHANI	CAL VEN	ITILATIC	N					
Туре		Sı	upply CFM	Exhaust CFM Fan Watts HRV		V Heating	Heating System		Run Time	Co	oling Syst	em	
Runtime V	ent		10	0		0	1 - Electric	Heat Pump		%	1 - Ce	entral Unit	CONTRACTOR OF THE SAME
						MASS							
M	ass Type			Area		Thickness	S	Furniture Fra	ction	Sp	ace		

Default(8 lbs/sq.ft.

0 ft

0.3

Main

0 ft²

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0
3. No. of units (if multiple-family)	31	c) AHU location Garage
4. Number of bedrooms	43	13. Cooling system: Capacity 17.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	61371	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.360 7b. 0.250 7c. 162.0	14. Heating system: Capacity21.4 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8bNA	e) Gas furnace, LPG AFUE
9. Floor type, insulation level:		f) Other 8.20
a) Slab-on-grade (R-value)	9a. 0.0	
b) Wood, raised (R-value)	9b.	15. Water heating system
c) Concrete, raised (R-value)	9c.	a) Electric resistance EF 0.92
		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank EF
Wood frame (Insulation R-value)	10A113.0	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:	1001 100	g) Other
Wood frame (Insulation R-value) Mesonny (Insulation B value)	10B113.0	
2. Masonry (Insulation R-value)	10B2	16 HIVAC gradite alaimed (Dorformance Mathed)
11. Ceiling type and insulation level		 HVAC credits claimed (Performance Method) a) Ceiling fans
a) Under attic	11a38.0	b) Cross ventilation Yes
b) Single assembly	11b.	c) Whole house fan No
c) Knee walls/skylight walls	11c.	d) Multizone cooling credit
d) Radiant barrier installed	11d. Yes	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the FI	orida Building Code, Ene	eray Conservation, if not DEFAULT
	J,	3,
I certify that this home has complied with the saving features which will be installed (or exc display card will be completed based on installed)	eeded) in this home befo	
Builder Signature:		Date:
Address of New Home: 344 Blue Jay Ct		City/FL Zip: Ft White FL 32038

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: LDM Construction Community:	Lot: NA						
Address: 344 Blue Jay Ct							
City: Ft White State	e: FL Zip: 32038						
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method						
PRESCRIPTIVE METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim							
PERFORMANCE or ERI METHOD-The building or dwelling unit sha the selected ACH(50) value, as shown on Form R405-2017 (Performance) ACH(50) specified on Form R405-2017-Energy Cale							
CFM(50) Building Volume ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.	Method for calculating building volume: Retrieved from architectural plans Code software calculated Stallation Field measured and calculated						
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/R Testing shall be conducted by either individuals as defined in Section 553.9 489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to theode official. Testing shall be performed at any time after creation buring testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, be control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers 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 ventions. Heating and cooling systems, if installed at the time of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the test, shall be full for the first of the first of the test, shall be full for the first of the first	eg3(5) or (7F,lorida Statues.or individuals licensed as set forth in Section sults of the test shall be signed by the party conducting the test and ation of all penetrations of the intended weatherstripping or other infiltration overs shall be closed, but not sealed beyond intended infiltration control illators shall be closed and sealed. urned off.						
Testing Company							
Company Name: I hereby verify that the above Air Leakage results are in accordance Energy Conservation requirements according to the compliance	nce with the 2017 6th Edition Florida Building Code						
Signature of Tester:	Date of Test:						
Printed Name of Tester:							
License/Certification #:	Issuing Authority:						