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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

			The second section is a second
Project Name: Lot 29 Turkey Creek Street: City, State, Zip: Lake City, FL, 32055 Owner:		Builder Name: Lipscomb & Eagle Permit Office: Columbia County Permit Number:	
Owner: Design Location: FL, Gainesville		Jurisdiction: County: Columbia (Florida Climate	eZone 2)
New construction or existing	New (From Plans)	9. Wall Types (1581.0 sqft.)	Insulation Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0 1383.00 ft ²
Number of units, if multiple family	1	b. Frame - Wood, Adjacentc. N/A	R=13.0 198.00 ft ² R= ft ²
Number of Bedrooms	3	d. N/A	R= ft²
5. Is this a worst case?	No	10. Ceiling Types (1443.0 sqft.)	Insulation Area
Conditioned floor area above grade (ft²)	1375	a. Under Attic (Vented) b. N/A	R=38.0 1443.00 ft ² R= ft ²
Conditioned floor area below grade (ft²)	0	c. N/A	R= ft²
		11. Ducts	R ft ²
7. Windows (174.7 sqft.) Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25	Area 174.67 ft²	a. Sup: Attic, Ret: Attic, AH: Garage	6 343.75
b. U-Factor: N/A SHGC:	ft²	12. Cooling systems a. Central Unit	MBtu/hr Efficiency 17.6 SEER:14.00
c. U-Factor: N/A	ft²	Haceive	ed la
SHGC:	ft²	13. Heating systems	kBtu/hr Efficiency
d. U-Factor: N/A SHGC:	lt:		PY 23.5 HSPF:8.20
Area Weighted Average Overhang Depth:	3.189 ft.	Ol Cade	- m
Area Weighted Average SHGC:	0.250	14. Hot water systems compliance	Cap: 50 gallons
	Insulation Area	a. Electric	MEP Cap: 50 gallons EF: 0.920
	R=0.0 1375.00 ft ²	b. Conservation teatures	- 1 2/22
	R= ft² R= ft²	None	
C. N/A	ζ= π	15. Credits	CV, Pstat
Glass/Floor Area: 0.127	Total Proposed Modified		PASS
\$550 FORESTONES AND A STATE OF	Total Baseline I	Loads: 42.72	
I hereby certify that the plans and specif		Review of the plans and	OF THE STATE
this calculation are in compliance with the	ne Florida Energy	specifications covered by this	STAN 1991
Code.	1	calculation indicates compliance with the Florida Energy Code.	13/10/18
PREPARED BY:)	Before construction is completed	GING
PREPARED BY: 9//	15/2020	this building will be inspected for	A Para Care
I hereby certify that this building, as des with the Florida Energy Code.	igned, is in compliance	compliance with Section 553.908 Florida Statutes.	COD WE TRUST
OWNER/AGENT:		BUILDING OFFICIAL:	

- 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).

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INPUT SUMMARY CHECKLIST REPORT

PROJECT

					PROJE	01							
Title: Building Owner N # of Uni Builder I Permit C Jurisdict Family T New/Ex Comme	Name: its: Name: Office: ction: Type: cisting:	Lot 29 Turkey Cre User 1 Lipscomb & Eagl Columbia County Single-family New (From Plans	е	Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	dArea: es: e: le: illation:	3 1375 1 No 0 Yes No		Lot # Block PlatE Stree Coun	k/Subdivi: Book: et:	sion: To Co: La	ot Information of urkey Cree olumbia ake City, _, 320	ek	
					CLIMA	TE							
\checkmark		gn Location	TMY Site		97.	e 150 - 160 N 50	Winte			leating pree Days	Desig Moistu		y Temp lange
	FL,	Gainesville	FL_GAINESVILL	E_REGI	3	2 92	70	75	1	305.5	51	N	/ledium
					BLOCK	(S							
Numb	er	Name	Area	Volume									
1		Block1	1375	12375									
					SPACE	S							
Numb	er	Name	Area	Volume F	Kitchen	Occupants	Bedroo	ms Ir	nfil ID	Finished	l Cod	oled	Heate
1		Main	1375	12375	Yes	6	3	1		Yes	Yes	P)	Yes
					FLOOF	RS							
\checkmark	#	Floor Type	Space	e Perir	meter	R-Value	Area				Tile W	ood C	arpet
	1 Slab	o-On-Grade Edge In	sulation 1	Main 176.33	33 ft	0	1375 ft²				0	0	1
					ROOF	=							
\checkmark	#	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	
	1	Hip	Compositionshin	gles 1593 ft²	0 ft²	Medium	Y	0.96	No	0.9	No	0	30.3
					ATTIC	:							
\checkmark	#	Туре	Vent	ilation	Vent Ratio	(1 in)	Area	RBS	IRO	cc			
	1	Full attic		nted	300		1375 ft²	Y	١				
					CEILIN	G							
\checkmark	#	Ceiling Type		Space	R-Value	Ins Ty	ре	Area	Fram	ning Frac	Truss	Туре	
	1	Under Attic (Vente	ad)	Main	38	Double E	2044	1443 ft²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS							
/ #	Ornt	Adjao To		Туре	Space	Cavity R-Value	Wid	lth In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade?
1	S	Exterio		me - Wood	Main	13	6	4	9	57.0 ft ²	10.150	0.23	0.75	0
2	W	Exterio	r Fra	me - Wood	Main	13	12	8	9	114.0 ft ²		0.23	0.75	0
_ 3	S	Exterio	r Fra	me - Wood	Main	13	12	4	9	111.0 ft ²		0.23	0.75	0
_ 4	E	Exterio	r Fra	me - Wood	Main	13	4		9	36.0 ft ²		0.23	0.75	0
_ 5	S	Exterio	r Fra	me - Wood	Main	13	6	8	9	60.0 ft ²		0.23	0.75	0
_ 6	S	Garag	e Fra	me - Wood	Main	13	22		9	198.0 ft²		0.23	0.75	0
_ 7	E	Exterio	r Fra	me - Wood	Main	13	30	4	9	273.0 ft ²		0.23	0.75	C
_ 8	N	Exterio	r Fra	me - Wood	Main	13	22		9	198.0 ft²		0.23	0.75	C
_ 9	W	Exterio	r Fra	me - Wood	Main	13	5	8	9	51.0 ft ²		0.23	0.75	C
_10	Ν	Exterio	r Fra	me - Wood	Main	13	14	8	9	132.0 ft²		0.23	0.75	C
_11	E	Exterio	r Fra	me - Wood	Main	13	5	8	9	51.0 ft ²		0.23	0.75	C
_12	N	Exterio	r Fra	me - Wood	Main	13	10	8	9	96.0 ft ²		0.23	0.75	C
_13	W	Exterio	r Fra	me - Wood	Main	13	22	8	9	204.0 ft ²		0.23	0.75	C
						DO	ors				Ann			
/	#	Orr	nt	Door Type	Space			Storms	U-Val	ue F	Width t In	Height Ft	n	Area
	1	S		Insulated	Main			None	.46				100	20 ft²
_	2	s		Insulated	Main			None	.46					20 ft²
1-740	SCHOOL STATE			0	rientation sho		DOWS		dorientation					
,		Wal			memation she	WIT IS THE C	nereu, r	торозес	donemation		rhang			
/	#	Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	de :	Screenir
	1	S 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	2	S 5	TIM	Low-E Double	Yes	0.36	0.25	N	6.7 ft ²	7 ft 0 in	1 ft 0 in	None	1	None
	3	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	4	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 0 in	None	,	None
	5	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	1 ft 0 in	None	1	None
	6	N 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²	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 ft ²	1 ft 6 in	1 ft 0 in	None		None
	8	N 10	TIM	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	6 ft 8 in	1 ft 0 in	None		None
	9	N 10	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	6 ft 8 in	1 ft 0 in	None		None
	10	N 12	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 6 in	1 ft 0 in	None		None
	11	W 13	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
						GAF	RAGE							
/	#	Flo	or Area	Ceiling	Area	Exposed V	posed Wall Perimeter Avg. Wall Heigh			all Height	ht Exposed Wall Insulation			
1 486.2 ft² 486.2 ft² 64.67 ft 9 ft 1														

INPUT SUMMARY CHECKLIST REPORT

					INFI	LTRAT	ION						
#	Scope	Method		SLA	CFM 50	ELA	E	qLA	ACH	ACH	50		
1	Wholehouse	Proposed A	CH(50)	.000286	1031.3	56.6	1 10	6.47	.1128	5			
					HEATI	ING SY	STEM						
\vee	#	System Type		Subtype	Spee	ed	Efficiency	,	Capacity		Block	Du	icts
	_ 1	Electric Heat Pu	imp/	None	Sing	le	HSPF:8.2	2 23	.54 kBtu/hr		1	sys	s#1
					COOL	ING SY	STEM						
V	#	System Type		Subtype	Subt	уре	Efficiency	Capa	city Air	Flow SH	IR Block	Du	cts
	_ 1	Central Unit/		None	Singl	le	SEER: 14	17.6 kB	tu/hr 540	cfm 0.	7 1	sys	s#1
					HOT W	ATER S	YSTEM						
	#	System Type	SubType	Location	EF	C	ap	Use	SetPnt		Conservation	on	
	_ 1	Electric	None	Garage	0.92	50	gal	40 gal	120 deg		None		
				so	LAR HOT	WATE	R SYSTE	M					
\vee	FSEC Cert #		ame		System N	/lodel#	Co	llector Mc		ollector Area	Storage Volume	FEF	
	None	None								ft²			
					ı	DUCTS							
\checkmark	#	Sup Location R	pply t-Value Area	Re Location	eturn Area	Leak	ageType	Ai Hand		CFM25 OUT	QN RLF	HVA Heat	
	_ 1	Attic	6 343.75 f	Attic	68.75 ft²	Defau	lt Leakage	Garag	e (Default)	c(Default) c		1	1
					TEMP	ERATU	RES						
Pro	gramableThe	ermostat: Y		C	eiling Fans:	9 8							
Coo Heat Vent	ling [] Ji ting [X] Ji ting [] Ji	an []Feb an [X]Feb an []Feb	[] Mar [X] Mar [X] Mar	Apr Apr Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Au	g [X] Se g [] Se g [] Se	p []0c	t X Nov		Dec Dec Dec

FORM R405-2017

Default(8 lbs/sq.ft.

8 ...

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule:	HERS 200	6 Referen	ce	Hours									
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
			(2)		ı	MASS							
Mass Type Area		ea	Thickness			Furniture Fraction		Space					
Default(8 lbs/sq.ft. 0 ft²		ft²	O ft			0.3		1st Floor					

0 ft

0.3

Bonus Room

Oft2

1 1 14

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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 c) AHU location Garage
3. No. of units (if multiple-family)	31_	c) And location
4. Number of bedrooms	43	13. Cooling system: Capacity 17.6 a) Split system SEER
5. Is this a worst case? (yes/no)	5No	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1375</u>	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. 174.7	14. Heating system: Capacity 23.5 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)	8aNA_ 8bNA_	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.20
9. Floor type, insulation level:		
a) Slab-on-grade (R-value)	9a0.0_	
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 E
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank EF e) Dedicated heat pump with tank EF
 Wood frame (Insulation R-value) 	10A1. 13.0	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
1. Wood frame (Insulation R-value)	10B1. 13.0	
2. Masonry (Insulation R-value)	10B2	
		HVAC credits claimed (Performance Method)
Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. <u>38.0</u>	b) Cross ventilation Yes
b) Single assembly	11b	c) Whole house fanNo
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11d. <u>Yes</u>	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	lorida Building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or exc display card will be completed based on insta	ceeded) in this home before	
Builder Signature:		Date:
Address of New Home:		City/FL Zip: Lake City, FL 32055

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: Lipscomb & Eagle Community:	Lot: 29							
Address:								
City: Lake City State	: FL Zip: 32055							
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 Clima	ed and verified as having an air leakage rate of not exceeding 7 air ate Zones 1 and 2.							
PERFORMANCE or ERI METHOD-The building or dwelling unit shall the selected ACH(50) value, as shown on Form R405-2017 (Performance) ACH(50) specified on Form R405-2017-Energy Calc								
x 60 ÷ 12375 = 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 Field measured and calculated							
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 (7F/Jorida Statues.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 theode official. Testing shall be performed at any time after creation of all penetrations of the test in the provided to theode official. Testing shall be performed at any time after creation of all penetrations of the test in the provided to the provided t								
Testing Company								
Company Name: I hereby verify that the above Air Leakage results are in accordan Energy Conservation requirements according to the compliance n								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	_ Issuing Authority:							