## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 35 Jewel Lake II Street: City, State, Zip: Lake City , FL , 32025 Owner: Design Location: FL, Gainesville	Builder Name: Century CMP Florida Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existingNew (From Plans)2. Single family or multiple familyDetached3. Number of units, if multiple family14. Number of Bedrooms45. Is this a worst case?No6. Conditioned floor area above grade (ft²)1398Conditioned floor area below grade (ft²)0	10. Wall Types(1380.7 sqft.)       Insulation       Area         a. Frame - Wood, Exterior       R=13.0       1090.00 ft²         b. Frame - Wood, Adjacent       R=13.0       290.67 ft²         c. N/A       R=       ft²         d. N/A       R=       ft²         11. Ceiling Types (1468.0 sqft.)       Insulation       Area         a. Under Attic (Vented)       R=38.0       1468.00 ft²         b. N/A       R=       ft²         c. N/A       R=       ft²         j. N/A       R=       ft²
<ul> <li>7. Windows (123.3 sqft.) Description</li> <li>a. U-Factor: Dbl, U=0.36</li> <li>SHGC:</li> <li>b. U-Factor: N/A</li> <li>ft<sup>2</sup></li> <li>SHGC:</li> <li>c. U-Factor: N/A</li> <li>ft<sup>2</sup></li> <li>SHGC:</li> <li>Area Weighted Average Overhang Depth:</li> <li>Area Weighted Average SHGC:</li> <li>0.250</li> <li>8. Skylights</li> <li>c. U-Factor: (AVG) N/A</li> <li>9. Floor Types (1398.0 sqft.)</li> <li>a. Slab-On-Grade Edge Insulation</li> <li>R=</li> <li>ft<sup>2</sup></li> <li>Stab</li> </ul>	12. Ducts       R       1°         a. Sup: Attic, Ret: Attic, AH: Main       6       349.5         13. Cooling systems       kBtu/hr       Efficiency         a. Central Unit       17.8       SEER:15.00         14. Heating systems       kBtu/hr       Efficiency         a. Electric Heat Pump       21.9       HSPF:8.20         15. Hot water systems       a. Electric       Cap: 50 gallons         a. Electric       Cap: 50 gallons         b. Conservationfeatures       EF: 0.920         hone       16. Credits       CV, Pstat
Glass/Floor Area: 0.088 Total Proposed I Total Ba	Modified Loads: 36.82 PASS aseline Loads: 38.16
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:	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:

- 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).

FORM R405-2020	INPUT SUN	IMARY CHE	CKLIST RE	PORT					
		PRO	JECT						
Title:Lot 35 JBuilding Type:UserOwner Name:## of Units:1Builder Name:CenturyPermit Office:ColumbJurisdiction:Family Type:Family Type:DetacheNew/Existing:New (FrComment:	ewel Lake II CMP Florida ia County ed om Plans)	Bedrooms: Conditioned Area: Total Stories: Worst Case: Rotate Angle: Cross Ventilation: Whole House Fan:	4 1398 1 No 9 Yes No		Address T Lot # Block/Sut PlatBook: Street: County: City, State	Fype: Lo 35 odivision: Je c c e, Zip: La FL	t Information wel Lake II olumbia ke City , . , 32025		
		CLIN	IATE						
Design Locatio	n TMY Site		Design Temp 97.5 % 2.5 %	Int Des Winter	sign Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range	
FL, Gainesville	FL_GAINESVILLE_RE	EGI	32 92	70	75	1305.5	51	Medium	
		BLO	CKS						
Number Nar	ne Area	Volume							
1 Block1	1398	11184							
		SPA	CES						
Number Name	Area Vo	olume Kitchen	Occupants	Bedroom	ıs Infil II	D Finished	Cooled	Heated	
1 Main	1398 11	184 Yes	8	4	1	Yes	Yes	Yes	
		FLO	ORS						
V # Floor Type	e Space	Perimeter	R-Value	Area		-	Tile Wood	Carpet	
1 Slab-On-Grad	e Edge Insulation Main	172.5 ft	0	1398 ft <sup>2</sup>		-	0 0	1	
		RC	OF						
🗸 # Туре	Materials	Roof Ga Area Ar	ible Roof rea Color	Rad Barr	Solar S Absor. Te	SA Emitt sted	Emitt D Tested Ir	Deck Pitch Insul. (deg)	
1 Hip	Composition shingles	1563 ft <sup>2</sup> 0	ft² Medium	Y	0.96 1	No 0.9	No	0 26.57	
		AT	TIC						
🗸 # Туре	Ventilatio	n Vent R	atio (1 in)	Area	RBS	IRCC			
1 Full attic	vented	:	300	1398 ft <sup>2</sup>	Y	N			
	CEILING								
	Гуре	Space R-Va	alue Ins T	уре А	Area	Framing Frac	Truss Ty	/pe	
1 Under A	ttic (Vented)	Main 38	Double	Batt 14	468 ft²	0.11	Wood		

FORM R405-2020

### INPUT SUMMARY CHECKLIST REPORT

						WA	ALLS								
$\checkmark$	/ # Orn	Adja	acent Wall	Туре	Space	Cavity R-Value	Wid Ft	lth In	He Ft	eight	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
	1 W	/ Exteri	ior Fra	me - Wood	Main	13	11	10	8		94.7 ft <sup>2</sup>		0.23	0.75	0
	2 N	Exteri	ior Fra	me - Wood	Main	13	4		8		32.0 ft <sup>2</sup>		0.23	0.75	0
	3 W	/ Exteri	ior Fra	me - Wood	Main	13	4	3	8		34.0 ft <sup>2</sup>		0.23	0.75	0
	4 N	Garad	qe Fra	me - Wood	Main	13	16	4	8		130.7 ft <sup>2</sup>		0.23	0.75	0
	5 W	/ Garao	oe Fra	me - Wood	Main	13	20		8		160.0 ft <sup>2</sup>		0.23	0.75	0
	6 N	l Exteri	ior Fra	me - Wood	Main	13	29	8	8		237.3 ft <sup>2</sup>		0.23	0.75	0
	7 E	Exter	ior Fra	me - Wood	Main	13	36	6	8		292.0 ft <sup>2</sup>		0.23	0.75	0
	8 S	Exter	ior Fra	me - Wood	Main	13	50	-	8		400.0 ft <sup>2</sup>		0.23	0.75	0
									-						-
	/						UKS								
$\vee$	#	0	rnt	Door Type	Space			Storms	5	U-Valu	ie Ft	Width In	Height Ft	t In	Area
	1	I	E	Insulated	Main			None		.46	3		6	8	20 ft <sup>2</sup>
	2	I	E	Insulated	Main			None		.46	3		6	8	20 ft²
						WINI	DOWS	5							
					Orientation sh	own is the e	ntered, F	Propose	d orie	entation.					
	<i>'</i>	Wa	all _	_							Over	rhang			<b>.</b> .
V	#	Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	)	Area	Depth	Separation	Int Sha	ade	Screening
	1	W 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	3	30.0 ft <sup>2</sup>	5 ft 6 in	1 ft 0 in	None	Э	None
	2	N 6	Vinyl	Low-E Double	Yes	0.36	0.25	N	1	15.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	Э	None
	3	E 7	Vinyl	Low-E Double	Yes	0.36	0.25	N	3	30.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	9	None
	4	E 7	Metal	Low-E Double	Yes	0.36	0.25	N	3	33.3 ft²	1 ft 6 in	1 ft 0 in	None	e	None
	5	S 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	1	15.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	e	None
						GAF	RAGE								
$\checkmark$	#	FI	loor Area	Ceilir	ng Area	Exposed \	Wall Per	imeter		Avg. Wa	all Height	Expose	ed Wall Ins	ulation	
	1	41	6.765 ft²	416.	765 ft²	44	.833 ft			8	ft		1		
INFILTRATION															
#	Scope		Method		SLA (	CFM 50	ELA		EqLA	4	ACH	ACH	1 50		
1	Wholehou	use Pro	oposed AC	.0 EH(50)	00254	932	51.13		96		.098	5	5		
HEATING SYSTEM															
$\vee$	#	System	п Туре	S	Subtype	Speed		Efficier	ю	(	Capacity		E	Block	Ducts
	1	Electric	: Heat Pur	np/ N	lone	Single		HSPF:8	3.2	21.	87 kBtu/hr			1	sys#1

FORM R4	FORM R405-2020 INPUT SUMMARY CHECKLIST REPORT											
	COOLING SYSTEM											
$\square$	# \$	System Type		Subtype	Sub	type I	Efficiency	Capacity	Air Fl	ow SHR	Block	Ducts
	1 (	Central Unit/		None	Sinę	gle S	SEER: 15	17.82 kBtu/l	nr 540 c	fm 0.7	1	sys#1
					HOT W	ATER SY	STEM					
$\square$	#	System Type	SubType	Locatior	EF	Ca	р	Use	SetPnt	С	onservatio	n
	1	Electric	None	Main	0.92	50 g	al	40 gal	120 deg		None	
				SC	LAR HO	T WATER	SYSTE	EM				
$\checkmark$	FSEC	CompanyN	ame		System	Model#	Cr	allector Model	Coll	ector Sto	orage	FFF
	None	None			Oystern					t <sup>2</sup>		
						DUCTS						
_/	щ	Sup	pply	R	eturn	Looko		Air	CFM 25	CFM25		HVAC #
v	1					Dofault		Main	(Defeult) of			
	I	Auic	0 349.3 1		TFM		RES	IVIAILI		Delault) C		1 1
Program	ableThe	rmostat <sup>.</sup> Y			Ceiling Eans							
Cooling		an []Feb	[]Mar	[]Apr	[] May	[X] lun	[X] Iul		[X] Sen	[]Oct	[]Nov	[]Dec
Heating Venting	[ ] Ja [ ] Ja	an [X] Feb an [] Feb	[X] Mar [X] Mar	[ ] Apr [X] Apr	May   May   May	[ ] Jun [ ] Jun	[]Jul []Jul	[ ] Aug [ ] Aug	[ ] Sep [ ] Sep	[X] Oct	X Nov X Nov	X Dec ] Dec
Thermosta	at Schedu	lle: HERS 20	06 Reference	0 0	4	F	Ho	ours	0	0 10	44	10
Schedule I			70	2 3	4	5	70	7	8	9 10	11	12
Cooling (W	/D)	AM PM	78 80	78 78 80 78	78 78	78 78	78 78	78 78	78 78	80 80 78 78	80 78	80 78
Cooling (W	/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 78
Heating (W	/D)	AM PM	66 68	66 66 68 68	66 68	66 68	68 68	68 68	68 68	68 68 68 68	68 66	68 66
Heating (W	/EH)	AM PM	66 68	66 66 68 68	66 68	66 68	68 68	68 68	68 68	68 68 68 68	68 66	68 66
	MASS											
Ma	ass Type	1		Area		Thickness		Furniture Fra	ction	Space		
De	efault(8 lb	s/sq.ft.		0 ft <sup>2</sup>		0 ft		0.3		Main		

# **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 96

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

#### , Lake City, FL, 32025

1.	New construction or exist	ing	New (Fr	om Plans)			
2.	Single family or multiple fa	amily	Detached				
3.	Number of units, if multip	le family	1				
4.	Number of Bedrooms		4				
5.	Is this a worst case?		No				
6.	Conditioned floor area (ft <sup>2</sup>	)	1398				
7.	Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average C Area Weighted Average S	Description Dbl, U=0.36 SHGC=0.25 N/A N/A N/A N/A Overhang Depth: SHGC:		Area 123.33 ft² ft² ft² ft² 2.473 ft. 0.250			
8	. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²			
g	. Floor Types a. Slab-On-Grade Edge b. N/A c. N/A	Insulation	Insulation R=0.0 R= R=	Area 1398.00 ft² ft² ft²			

<ol> <li>Wall Type and Insulation         <ul> <li>a. Frame - Wood, Exterior</li> <li>b. Frame - Wood, Adjacent</li> <li>c. N/A</li> <li>d. N/A</li> </ul> </li> </ol>	Insulation         Area           R=13.0         1090.00 ft²           R=13.0         290.67 ft²           R=         ft²           R=         ft²           R=         ft²
<ol> <li>Ceiling Type and insulation level         <ul> <li>a. Under Attic (Vented)</li> <li>b. N/A</li> <li>c. N/A</li> </ul> </li> <li>12. Ducts, location &amp; insulation level         <ul> <li>a. Sup: Attic, Ret: Attic, AH: Main</li> </ul> </li> </ol>	Insulation Area R=38.0 1468.00 ft <sup>2</sup> R= ft <sup>2</sup> R= ft <sup>2</sup> R ft <sup>2</sup> 6 349.5
13. Cooling systems a. Central Unit	kBtu/hr Efficiency 17.8 SEER:15.00
14. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 21.9 HSPF:8.20
15. Hot water systems a. Electric b. Conservationfeatures	Cap: 50 gallons EF: 0.92
None Credits (Performance method)	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:	3 rittany	Dunn	Date:
Address of New Home:	ſ		City/FL Zip:

\*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.

COD WE