#### FORM R405-2020

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Chandler & Yates Street: City, State, Zip: , FL , Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing       New (From Plans)         2. Single family or multiple family       Detached         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 (ft <sup>2</sup> )       1500         Conditioned floor area below grade (ft <sup>2</sup> )       0         7. Windows(92.0 sqft.)       Description       Area         a. U-Factor:       Dbl, U=0.60       92.00 ft <sup>2</sup>	10. Wall Type\$1440.0 sqft.)InsulationAreaa. Frame - Wood, ExteriorR=13.01440.00 ft²b. N/AR=ft²c. N/AR=ft²d. N/AR=ft²11. Ceiling Types (1500.0 sqft.)InsulationAreaa. Under Attic (Vented)R=30.01500.00 ft²b. N/AR=ft²c. N/AR=ft²12. DuctsRft²a. Sup: Attic, Ret: Attic, AH: Main6300
SHGC:       SHGC=0.27         b. U-Factor:       N/A       ft²         SHGC:       ft²         c. U-Factor:       N/A       ft²         SHGC:       ft²         Area Weighted Average Overhang Depth:       4.924 ft.         Area Weighted Average SHGC:       0.270         8. Skylights       Area         c. U-Factor:(AVG)       N/A         9. Floor Types (1500.0 sqft.)       Insulation         a. Slab-On-Grade Edge Insulation       R=0.0         b. N/A       R=         c. N/A       R=	13. Cooling systemskBtu/hrEfficiencya. Central Unit36.0SEER:14.0014. Heating systemskBtu/hrEfficiencya. Electric Heat Pump36.0HSPF:8.5015. Hot water systemsCap: 50 gallonsa. ElectricCap: 50 gallonsb. Conservation featuresEF: 0.920NoneCF, Pstat
Glass/Floor Area: 0.061 Total Proposed Modified Total Baseline	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: 4-29-21 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code OWNER/AGENT: 5-3-21	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.

- 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).

- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors,

tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.

				PROJEC	т							
Title: Building T Owner Na # of Units Builder Na Permit Of Jurisdictic Family Ty New/Exist Comment	ame: : 1 ame: ffice: on: rpe: Detached ting: New (From Pl		Bedrooms: Conditioned Total Stories Worst Case Rotate Angle Cross Ventil Whole Hous	5: 1 : No e: 0 lation:	944		Lot # Block/ PlatBo Street Count	:	on: Co	eet Addre	SS	
				CLIMATI	E				telelogi e pelan			
$\checkmark$	Design Location	TMY Site		Desi 97.5	gn Temp % 2.5 %		sign Temp Summe		ating ee Days	Design Moistur	n Daily e Ra	Tem nge
	FL, Gainesville	FL_GAINESVILLE_	REGI	32	92	70	75	13	05.5	51	Me	edium
				BLOCKS	3							
Number	r Name	Area	Volume									
1	Block1	1500	13500								0 2 10 11	
				SPACES	5							
Number	r Name	Area	Volume Ki	tchen O	ccupants	Bedroon	ns In	fil ID F	inished	Coo	led	Heat
1	Main	1500	13500	Yes	4	2	1	Y	'es	Yes		Yes
				FLOORS	3							
	# Floor Type	Space	Perim	eter R-	Value	Area				Tile Wo	od Ca	rpet
	1 Slab-On-Grade Edg	je Insulatio Ma	in 160 f	t	0	1500 ft <sup>2</sup>				0 0	)	1
							and the second second					
				ROOF								a la contra de la co
./			Roof	ROOF Gable	Roof	Rad	Solar	SA	Emitt	Emitt	Deck	Pite
$\checkmark$	# Туре	Materials	Roof Area		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	
√	# Type 1 Gable or shed	Materials Composition shingle	Area	Gable					Emitt 0.9			Pite (de 33.
✓			Area	Gable Area	Color	Barr	Absor.	Tested		Tested	Insul.	(de
✓ ✓ ✓	1 Gable or shed	Composition shingle	Area	Gable Area 500 ft <sup>2</sup> ATTIC	Color Dark	Barr N	Absor. 0.96	Tested No	0.9	Tested	Insul.	(de
✓ ✓ ✓			Area es 1803 ft² tion	Gable Area 500 ft²	Color Dark 1 in)	Barr	Absor.	Tested	0.9 C	Tested	Insul.	(de
<ul> <li>✓</li> <li>✓</li> </ul>	1 Gable or shed # Type	Composition shingle	Area es 1803 ft² tion	Gable Area 500 ft <sup>2</sup> <b>ATTIC</b> Vent Ratio (	Color Dark 1 in)	Barr N Area	Absor. 0.96 RBS	Tested No IRC	0.9 C	Tested	Insul.	(de
✓ ✓ ✓ ✓	1 Gable or shed # Type	Composition shingle	Area es 1803 ft² tion	Gable Area 500 ft <sup>2</sup> ATTIC Vent Ratio ( 300	Color Dark 1 in)	Barr N Area 1500 ft²	Absor. 0.96 RBS	Tested No IRC N	0.9 C	Tested No	Insul. 0	(de

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## INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	Ornt	,	Adjace To		Туре	Spac	e Cavity R-Value	Wic Ft	lth In	Height Ft In	Area	Sheathin R-Value	g Framing Fraction	Solar Absor.	Below Grade <sup>6</sup>
1	N	Ex	xterior	Fra	me - Wood	Main	13	50		9	450.0 ft <sup>2</sup>	0.625	0.23	0.75	0
2	Е	E	xterior	Fra	me - Wood	Main	13	30		9	270.0 ft <sup>2</sup>	0.625	0.23	0.75	0
3	S	E	xterior	Fra	me - Wood	Main	13	50		9	450.0 ft <sup>2</sup>	0.625	0.23	0.75	0
4	W	E	xterior	Fra	me - Wood	Main	13	30	-	9	270.0 ft <sup>2</sup>	0.625	0.23	0.75	C
							DO	ORS							
$\checkmark$	#		Ornt	t	Door Type	Space			Storms	U-Val	ue F	Width t In	Heigh Ft	t In	Area
	1		N		Insulated	Main			None	.21		3	6	8	40 ft <sup>2</sup>
	2		S		Insulated	Main			None	.21		3	6	8	20 ft <sup>2</sup>
	3		w		Insulated	Main			None	.21		3	6	8	20 ft²
					c	Drientation sh	WIN nown is the en	DOWS		d orientatio	n.				
$\checkmark$	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor		Imp		Ove	rhang Separation	Int Sha	obe	Screenir
	1	N	1	Vinyl	Low-E Double	Yes	0.6	0.27	N	3.0 ft <sup>2</sup>	1 ft 6 in	2 ft 4 in	Non		None
	2	N	1	Vinyl	Low-E Double	Yes	0.6	0.27	N	12.0 ft <sup>2</sup>	1 ft 6 in	2 ft 4 in	Non		None
	3	E	2	Vinyl	Low-E Double	Yes	0.6	0.27	N	12.0 ft <sup>2</sup>	1 ft 6 in	2 ft 4 in	Non		None
	4	E	2	Vinyl	Low-E Double	Yes	0.6	0.27	N	20.0 ft <sup>2</sup>	1 ft 6 in		Non		None
	5	S	3	Vinyl	Low-E Double	Yes	0.6	0.27	N	45.0 ft <sup>2</sup>			Non		None
							INFILT	RATIC	N		terioren itzetz (7,000) er				
S	Scope		N	/lethod		SLA	CFM 50	ELA	E	EqLA	ACH	AC	H 50		
Wh	olehous	se	Prop	osed AC	H(50) .0	00286	1125	61.72	1	15.87	.1027		5	Hataan	
							HEATING	S SYS	TEM						
$\bigvee$	#		stem T			Subtype	Speed		Efficience		Capacity		I	Block	Ducts
	1	Ele	ctric H	leat Pur	np/ M	lone	Singl		HSPF:8	.5 3	6 kBtu/hr			1	sys#1
,							COOLING	G SYS	TEM						
$\bigvee$	#	Sys	stem T	уре	8	Subtype	Subtype		Efficiency	y Capac	ity A	ir Flow	SHR I	Block	Ducts
	1	Cei	ntral U	Init/	Ν	lone	Singl	\$	SEER: 14	4 36 kBt	u/hr 10	80 cfm	0.85	1	sys#1
						ł	IOT WAT	ER SY	STEM					11.20 E 11.20 E	
$\bigvee$	#	S	system	п Туре	SubType	Location	EF	Ca	p	Use	SetP	nt	Conse	rvation	
10-10-10-10-10-10-10-10-10-10-10-10-10-1	1		lectric		None	Main	0.92	50 g		50 gal	140 de		No		With the second

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## INPUT SUMMARY CHECKLIST REPORT

					SOL	AR HO	T WATER	SYST	EM						
✓ FSEC Cert # Company Name						System Model # Collect			ollector Model	Collector ector Model # Area			age ime	FEF	
<u></u>	None	None									ft²				
							DUCTS								
$\checkmark$	#		upply R-Value Are	a L	Rel ocation	turn Area	Leakag	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC # Coo
	1	Attic	6 300 1	ť²	Attic	75 ft²	Prop. Le	eak Free	Main	cfm	45.0 cfm	0.03	3 0.50	1	1
						TEM	PERATUR	RES							
Program	able Ther	mostat: Y			C	eiling Fan	s:								
Cooling Heating Venting	[ ] Jar [X] Jar [ ] Jar	n []Fe n X]Fe n []Fe	b [] Mar b [X] Mar b [X] Mar		vpr Vpr Vpr	] May ] May ] May	[X] Jun [ ] Jun [ ] Jun	[X] Jul [ ] Jul [ ] Jul	[X] Aug [ ] Aug [ ] Aug	[X] Ser [ ] Ser [ ] Ser		Oct Oct Oct	X Nov X Nov X Nov		Dec Dec Dec
Thermosta		le: HERS :	2006 Reference			134			ours	-		1892	6255	5	inter a
Schedule	Гуре		1	2	3	4	5	6	7	8	9	10	11		12
Cooling (V	/D)	AN PN	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	80 78
Cooling (V	/EH)	AN PN	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	Ę	78 78
Heating (V	VD)	AN PN	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	f	68 66
Heating (V	VEH)	AN PN	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	f	68 66
							MASS					10-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5			
Ma	ass Type			Ar	ea		Thickness		Furniture Frac	ction	Sp	ace			
De	efault(8 lbs	s/sq.ft.		0	ft²		0 ft		0.3			Main			

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

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 97

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

#### , , FL,

1.	New construction or exis	sting	New (Fr	om Plans)			
2.	Single family or multiple	family	Detached				
3.	Number of units, if multip	ple family	1				
4.	Number of Bedrooms		2				
5.	Is this a worst case?		No				
6.	Conditioned floor area (f	t²)	1944				
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.60 SHGC=0.27		Area 92.00 ft <sup>2</sup>			
	b. U-Factor: SHGC:	N/A		ft²			
	c. U-Factor: SHGC:	N/A		ft²			
	d. U-Factor: SHGC:	N/A		ft²			
	Area Weighted Average Area Weighted Average	· · · · · · · · · · · · · · · · · · ·		4.924 ft. 0.270			
8	<ol> <li>Skylights</li> <li>a. U-Factor(AVG): SHGC(AVG):</li> </ol>	Description N/A N/A		Area ft²			
ę	<ol> <li>Floor Types         <ul> <li>a. Slab-On-Grade Edg</li> <li>b. N/A</li> <li>c. N/A</li> </ul> </li> </ol>	e Insulation	Insulation R=0.0 R= R=	Area 1500.00 ft² ft² ft²			

10. Wall Type and Insulation	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	1440.00 ft <sup>2</sup>
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
<ol> <li>Ceiling Type and insulation level</li> </ol>	Insulation	Area
a. Under Attic (Vented)	R=30.0	1500.00 ft <sup>2</sup>
b. N/A	R=	ft²
c. N/A	R=	ft²
<ol> <li>Ducts, location &amp; insulation level a. Sup: Attic, Ret: Attic, AH: Main</li> </ol>		R ft <sup>2</sup> 6 300
13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	36.0	SEER:14.00
14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	36.0	HSPF:8.50
15. Hot water systems	0	50 - U
a. Electric	Cap	50 gallons EF: 0.92
b. Conservation features		
None		
Credits (Performance method)		CF, 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.

based on installed Code compliant reaction. Builder Signature: \_\_\_\_\_\_ Date: 5-3-21 Address of New Home: 133 NW ARMADILLO CAME City/FL Zip: Lake City, F 32055



\*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.

4/29/2021 3:15 PM

7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software