FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Wilkinson Residence Street: City, State, Zip: Lake City, FL, Owner: Design Location: FL, Gainesville	Builder Name: IC Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climat	te 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? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(223.0 sqft.) Description a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 0. 220	9. Wall Types (2412.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2140.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Main, Ret: Main, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump	Insulation Area R=13.0 2047.50 ft² R=13.0 364.50 ft² R= ft² R= ft² Insulation Area R=30.0 2140.00 ft² R= ft² R= ft² R= ft² R= ft² R= ft² A ft² A ft² A 428 kBtu/hr Efficiency 36.0 SEER:14.00 kBtu/hr Efficiency 36.0 HSPF:8.50
8. Floor Types (2140.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A Insulation Area R=0.0 2140.00 ft² R= ft² R= ft²	a. Electric b. Conservation features None 15. Credits	Cap: 40 gallons EF: 0.920 Pstat
Glass/Floor Area: 0.104 Total Proposed Modi Total Baselin		PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: 9-21-20 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.	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.	COD WE TRUSH

- 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).

DATE:

BUILDING OFFICIAL:

- 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.

OWNER/AGENT:_

DATE:

		01 00		PROJECT	Γ							
Title: Building Ty Owner Nam # of Units: Builder Nar Permit Offic Jurisdiction Family Typ New/Existir Comment:	ne: 1 ne: IC Construction ce: : e: Single-family	n	Bedrooms: Conditioned Total Stories Worst Case: Rotate Angle Cross Ventil Whole Hous	s: 1 No e: 0 ation:			Lot # Block PlatB Stree Coun	x/Subdivis sook: et:	sion:	olumbia ake City ,	SS	
				CLIMATE								
\checkmark	Design Location	TMY Site		Desig 97.5 %	gn Temp % 2.5 %		esign Tem er Summ		eating ree Days	Design Moisture	-	Temp
	FL, Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	Me	edium
				BLOCKS	}							
Number	Name	Area	Volume									
1	Block1	2140	19260									
				SPACES								
Number	Name	Area	Volume Ki	tchen Oc	cupants	Bedroo	ms Ir	nfil ID	Finished	d Cool	ed	Heated
1	Main	2140	19260	Yes	8	4	1		Yes	Yes		Yes
				FLOORS								
V #	Floor Type	Space	Perim	eter R-	Value	Area				Tile Wo	od Ca	rpet
1	Slab-On-Grade Edge	Insulatio Ma	ain 286 f	t	0	2140 ft ²				0.33 0.3	3 0	.34
				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 shing	es 2479 ft ²	626 ft²	Medium	N	0.85	No	0.9	No	0	30.3
				ATTIC								
V #	‡ Type	Ventila	ation	Vent Ratio (1	in)	Area	RBS	IR	CC			
1	···	Vent		300		2140 ft²	N	1				
				CEILING								
V #	# Ceiling Type		Space	R-Value	Ins Ty	ре	Area	Fram	ning Fra	c Truss	Туре	
	Under Attic (Ve		Main	30		n :	2140 ft ²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

						WA	ALLS							
V #	Adjacent # Ornt To Wall Type				Space	Cavity R-Value			Height Ft In	Area	Sheathing R-Value		Solar Absor.	Below Grade%
1	N	Exterior		me - Wood	Main	13	6	ln	9	58.5 ft ²	. value	0.23	0.75	0
2	W	Exterior	Fra	me - Wood	Main	13	6		9	54.0 ft ²		0.23	0.75	0
3	Ν	Exterior	Fra	me - Wood	Main	13	13	6	9	121.5 ft ²		0.23	0.75	0
4	Е	Exterior	Fra	me - Wood	Main	13	11	2	9	100.5 ft ²		0.23	0.75	0
5	Ν	Exterior	Fra	me - Wood	Main	13	27	4	10	273.3 ft ²		0.23	0.75	0
6	W	Exterior	Fra	me - Wood	Main	13	19	8	9	177.0 ft ²		0.23	0.75	0
7	Ν	Exterior	Fra	me - Wood	Main	13	21	8	9	195.0 ft ²		0.23	0.75	0
8	Ε	Exterior	Fra	me - Wood	Main	13	26	2	9	235.5 ft ²		0.23	0.75	0
9	S	Exterior	Fra	me - Wood	Main	13	8	2	9	73.5 ft ²		0.23	0.75	0
10	E	Exterior	Fra	me - Wood	Main	13	5	4	9	48.0 ft ²		0.23	0.75	0
11	S	Exterior	Fra	me - Wood	Main	13	32	8	10	326.7 ft ²		0.23	0.75	0
12	W	Exterior	Fra	me - Wood	Main	13	8	2	9	73.5 ft ²		0.23	0.75	0
13	S	Exterior	Fra	me - Wood	Main	13	6	6	9	58.5 ft ²		0.23	0.75	0
14	W	Exterior	Fra	me - Wood	Main	13	28		9	252.0 ft ²		0.23	0.75	0
15	S	Garage	Fra	me - Wood	Main	13	40	6	9	364.5 ft ²		0.23	0.75	0
						DO	ORS							
$\sqrt{}$	#	Ornt	İ	Door Type	Space			Storms	u-Val	ue Fi	Width t In	Height Ft	ln	Area
	1	N		Insulated	Main			None	.4	5		8		40 ft ²
	2	N		Insulated	Main			None	.4	5	;	8	4	40 ft²
	3	W		Insulated	Main			None	.4	3	}	8	2	24 ft²
	4	S		Insulated	Main			None	.4	6	;	8	4	48 ft²
	5	S		Insulated	Main			None	.4	3	3	8	:	24 ft²
							DOWS							
		Wall		Ori	entation sho	wn is the ei	ntered, I	ropose	d orientatio		rhang			
\checkmark	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	o Area		Separation	Int Sha	de S	Screening
	1	N 3	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
	2	N 5	Vinyl	Low-E Double	Yes	0.33	0.22	N	16.0 ft ²	10 ft 6 in	1 ft 4 in	None)	None
	3	W 6	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
	4	N 7	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
	5	E 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
	6	E 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
	7	E 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	6.0 ft ²	1 ft 6 in	1 ft 4 in	None)	None
		S 9	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 ft ²		1 ft 4 in	None		None
	8		-											
	8 9	S 11	Vinyl	Low-E Double	Yes	0.33	0.22	N	72.0 ft ²	9 ft 6 in	1 ft 4 in	None	•	None
	9		Vinyl Vinyl	Low-E Double Low-E Double	Yes Yes	0.33 0.33	0.22 0.22	N N	72.0 ft ² 15.0 ft ²	9 ft 6 in 1 ft 6 in	1 ft 4 in 1 ft 4 in	None None		None None

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

				OT COMINE		ARAGE										
\vee	/ #	Floor Area	(Ceiling Area	Ceiling Area Exposed Wall Perimeter Avg. Wall Height							t Exposed Wall Insulation				
	1	504 ft ²		504 ft ²		50 ft		9 ft			1					
	INFILTRATION															
#	Scope	Method		SLA	CFM 50	ELA	Ec	ηLA /	ACH	ACH	l 50					
1	Wholehouse	Proposed AC	CH(50)	.000286	1605	88.11	165	5.71 .	1128	5	i					
					HEATIN	NG SYST	ΞM									
\vee	/ #	# System Type Subtype		Subtype	Speed	d E	Efficiency		y Capacity			Block	Dι	ıcts		
	1	Electric Heat Pu	mp/	None	Singl	Н	SPF:8.5	36 kl	Btu/hr			1	sy	s#1		
					COOLIN	NG SYST	EM									
\vee	/ #	System Type		Subtype	Subtyp	pe Eff	iciency	Capacity	Air F	Flow SI	HR	Block	Dι	ıcts		
	1	Central Unit/		None	Singl	SE	ER: 14	36 kBtu/hr	1080	cfm 0.	.85	1	sy	s#1		
					HOT WA	TER SYS	TEM									
\vee	/ #	System Type	SubType	Location	EF	Сар		Use	SetPnt		Cons	servatio	า			
	1	Electric	None	Garage	0.92	40 gal		70 gal	120 deg		١	None				
				SOL	AR HOT	WATER S	SYSTE	M								
V	FSEC Cert		ame		System Mo	odel #	Co	llector Mode		ollector Area	Storag Volum		FEF			
	None	None								ft²						
					D	UCTS										
V	/ #	Supp Location R-	oly Value Area	Ret Location	urn Area	Leakage	Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC# Cool		
	1	Main	6 428 ft	² Main	107 ft ²	Prop. Lea		Main	cfm	64.2 cfm	0.03	0.50	1	1		

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

TEMPEDATURES														
	TEMPERATURES													
Programa	able Thermo	stat: Y			С	eiling Fan	s:							
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] 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] So [] So [] So	ep ep ep	Oct Oct X Oct	[] Nov [X] Nov [X] Nov	Dec [X] Dec Dec
Thermostat	Schedule:	HERS 200	6 Reference	9				Но	ours					
Schedule T	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	EH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Heating (W	D)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
Heating (W	EH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
MASS														
Ma	ss Type			Area			Thickness		Furniture Fraction		Space			
Def	fault(8 lbs/so	q.ft.		0 ft²			0 ft	0.3		Main				