FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:DALE TOMPKINS RESIDENCE - C-1309 - J-6838Street:257 SW Hudson InCity, State, Zip:Lake City , FL , 32025Owner:Tompkins AdditionDesign Location:FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)						
1. New construction or existing Addition 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms(Bedrms In Addition) 4(0) 5. Is this a worst case? No 6. Conditioned floor area above grade (ft ²) 1491 Conditioned floor area below grade (ft ²) 0 7. Windows(102.0 sqft.) Description Area a. U-Factor: Dbl. U=0.35 102.00 ft ²	10. Wall Type (1448.0 sqft.) InsulationAreaa. Face Brick - Wood, ExteriorR=13.01248.00 ft²b. Frame - Wood, AdjacentR=13.0200.00 ft²c. N/AR=ft²d. N/AR=ft²11. Ceiling Types (1488.0 sqft.)InsulationAreaa. Under Attic (Vented)R=30.01488.00 ft²b. N/AR=ft²c. N/AR=ft²d. N/AR=ft²f. DuctsR ft²a. Sup: Attic, Ret: Attic, AH: Main6						
SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.000 ft. Area Weighted Average SHGC: 0.250 8. Skylights c. U-Factor:(AVG) N/A ft² SHGC(AVG):	13. Cooling systemskBtu/hrEfficiencya. Central Unit34.8SEER:16.0014. Heating systemskBtu/hrEfficiencya. Electric Heat Pump34.8HSPF:9.0015. Hot water systems - a. ElectricCap: 40 gallons						
9. Floor Types (1491.1 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1491.10 ft² b. N/A R= ft² c. N/A R= ft²	EF: 0.950 b. Conservation features None 16. Credits Pstat						
Glass/Floor Area: 0.068 Total Proposed Modified Total Baseline	Loads: 25.81 PASS						
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.						

- 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.

FORM R405-2	2020		JMMARY	CHECK	LIST RE	PORT							
				PROJEC	т								
Title: Building Type Owner Name # of Units: Builder Name Permit Office Jurisdiction: Family Type: New/Existing Comment:	DALE TOMPK User Tompkins Addi 1 Detached Addition	INS RESIDEN	Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hous	oms: 4 tioned Area: 1491 Stories: 1 Case: No e Angle: 0 Ventilation: No e House Fan: No				Address Type: Street Address Lot # Block/Subdivision: PlatBook: Street: 257 SW Hudson In County: Columbia City, State, Zip: Lake City , FL , 32025					
				CLIMAT	E								
	esign Location	TMY Site		Des 97.5	ign Temp % 2.5 %	Int Des Winter	sign Tem Summ	p H er Degi	eating ree Days	Desigr Moistur	n Daily 'e Ra	r Temp ange	
F	L, Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	M	edium	
				BLOCK	S								
Number	Name	Area	Volume										
1	Block1	1491	11928										
				SPACE	S								
Number	Name	Area	Volume K	Kitchen C	Occupants	Bedroon	ns Ir	nfil ID	Finished	Coc	led	Heated	
1	Main	1491	11928	Yes	5	4	1		Yes	Yes		Yes	
				FLOOR	S								
#	Floor Type	Space	Perin	neter R	R-Value	Area			-	File Wo	ood Ca	arpet	
19	Slab-On-Grade Edge	e Insulatio M	ain 181	ft		1491.12 ft				0 0	0	1	
				ROOF									
V #	Туре	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	lles 1572 ft ²	248 ft ²	Medium	Ν	0.9	Ν	0.9	No	0	18.43	
				ATTIC									
V #	Туре	Ventil	ation	Vent Ratio	nt Ratio (1 in) Area			RBS IRCC					
1	Full attic	300	1	1491 ft ²	N	Ν	١						
	CEILING												
#	Ceiling Type		Space	R-Value	Ins Ty	/pe /	Area	Fram	ning Frac	Truss	Туре		
1	Under Attic (Ve	ented)	Main	30	Blowr	ר ו	488 ft²		0.1	Wo	bod		

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INPUT SUMMARY CHECKLIST REPORT

	WALLS															
\bigvee	/ #	Ornt	Adja To	acent Wa	ll Type	Spac	cavity	Cavity Width R-Value Et In		Height Ft In	Area	Sheathing R-Value	Framing	Solar Absor	Below Grade%	
	1	N	Exteri	ior Fa	ice Brick - Woo	d Mair	n 13	55	6	8 0	444.0 ft ²	0	0.25	0.8	0	
	2	Е	Exteri	ior Fa	ice Brick - Woo	d Mair	า 13	10	0	80	80.0 ft ²	0	0.25	0.8	0	
	3	S	Exteri	ior Fa	ice Brick - Woo	d Mair	n 13	56	6	80	452.0 ft ²	0	0.25	0.8	0	
	4	W	Exteri	ior Fa	ice Brick - Woo	d Mair	n 13	34	0	80	272.0 ft ²	0	0.25	0.8	0	
	5	-	Gara	ge Fra	ame - Wood	Mair	า 13	25	0	80	200.0 ft ²	0	0.25	0.8	0	
DOORS																
\vee	/	#	0	rnt	Door Type	Space			Storms	U-Va	ilue F	Width t In	Heigh Ft	t In	Area	
		1	I	N	Wood	Main			None	.3	9 ;	3	6	8	20 ft ²	
	_	2	۱.	W	Wood	Main			None	.3	э :	3	6	8	20 ft ²	
		3		-	Wood	Main			None	.3	э :	3	6	8	20 ft ²	
	WINDOWS															
Orientation shown is the entered, Proposed orientation.																
	Wall				LL Eastan	01100	l	A	Ove	rhang	ang					
V	# Ornt ID Frame Panes			0.25	0.25	ппр	N 66.0.ft2 1.ft 0.in		1 ft 0 in	Dranes/blinds		None				
		ו ס	n 1	Moto		Ne res	0.35	0.25	IN N	20.0 ft ² 1 ft 0 in		1 ft 0 in			None	
		2	11 I	Meta		vie res	0.35 0.25		IN N	50.0 ft ² 1 ft 0 in		1 ft 0 in Drapes/blir		linds	None	
		5	0 0	Meta			0.55	0.25		0.0 11			Diapes/L	Jinus	None	
							GAI	RAGE								
$ \checkmark $	/	#	FI	oor Area	Ce	eiling Area	Exposed	Wall Per	rimeter	Avg. V	Vall Height	Expos	ed Wall Ins	sulation		
		1	:	516 ft ²		516 ft ²	² 64 ft 8 ft									
							INFILT	RATIO	ON							
#	S	cope		Method	l	SLA	CFM 50	ELA	E	qLA	ACH	AC	H 50			
1	Who	lehous	e Pro	oposed A	CH(50)	.000254	994	54.53	102.38 .098		5					
							HEATING	g sys	ТЕМ							
	\/ # System Type Sub		Subtype	e Speed		Efficiency		Capacity		E	Block	Ducts				
	1 Electric Heat Pump/Existing/c Split		Split	Singl		HSPF:9	3	4.8 kBtu/hr			1	sys#1				
	COOLING SYSTEM															
\sim	/	#	Systen	n Type		Subtype	Subtype	9	Efficiency	Capa	icity A	ir Flow	SHR E	Block	Ducts	
		1	Centra	l Unit/Exi	sting/confirme	Split	Singl		SEER: 16	34.8 kl	Btu/hr	cfm	0.8	1	sys#1	

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HOT WATER SYSTEM														
\sim	#	System Type	SubType	Locatio	on EF	Ca	р	Use SetPn		Conserva		servatio	n	
	1	Electric	None	Main	0.95	40 gal		60.9 gal	120 deg		None			
SOLAR HOT WATER SYSTEM														
\checkmark	✓ FSEC Cert # Company Name			System Model #			C	Colle Collector Model # Are			ector Storage ea Volume		FEF	
	None	None						ft²						
	DUCTS													
\checkmark	#	Supply Return # Location R-Value Area Location Area Lea		Leaka	де Туре	Air e Type Handler		CFM25 OUT QI		RLF	HV. Heat	AC # Cool		
	1	Attic	6 200 ft ²	Atti	c 100 ft ²	Prop. L	eak Free	Main	cfm	44.7 cfm	0.03	0.50	1	1
					TEM	PERATU	RES							
Program	hable The	rmostat: Y			Ceiling Fan	s:								
Cooling Heating Venting	Cooling [] Jan [] Feb [] M. Heating [X] Jan [X] Feb [X] M Venting [] Jan [] Feb [X] M		[] Mar [X] Mar [X] Mar	Apr May Apr May X Apr May		[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Jul [X] Aug [] Jul [] Aug [] Jul [] Aug) 00 00 00	ct [] Nov ct [X] Nov oct [X] Nov		[] Dec [X] Dec [] Dec	
Thermosta	at Schedu	le: HERS 200	06 Reference				F	lours						
Schedule	Туре		1	2	3 4	5	6	7	8	9	10	11		12
Cooling (V	VD)	AM PM	78 80	78 80	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	2	80 78
Cooling (V	VEH)	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 (V	VD)	AM PM	66 68	66 6 68 6	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66
Heating (WEH) A		AM PM	66 68	66 6 68 6	66 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	(68 66
MASS														
M	Mass Type Area					Thickness		Furniture Fra	ction	Spa	се			
Default(8 lbs/sq.ft.				0 ft ²		0 ft		0.3		N	lain			