FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Montgomery Residence Street: City, State, Zip: Lake City , FL , 32024 Owner: Design Location: FL, Gainesville	Builder Name: IC Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate 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) 7. Windows(286.0 sqft.) 8. U-Factor: 9. V/A 9. HgC: 9. U-Factor: 9. V/A 9. HgC 9. U-Factor: 9. V/A 9. HgC 9. U-Factor: 9. V/A 9. HgC 9. U-Factor: 9. V/A 9. Hg2 9. Title part of the plants) 9. Single-family 9. Single-fa	9. Wall Types (2146.5 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (2386.0 sqft.) b. N/A c. N/A R= ft² 11. Ducts a. Sup: Main, Ret: Main, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Propane 15. Credits Insulation Area R=13.0 210.00 ft² R= f
Glass/Floor Area: 0.120 Total Proposed Modified Total Baseline	d Loads: 57.73
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. OWNER/AGENT:	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).

DATE: _

- 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.

DATE: _

01110111400 20	-		ZIVIIVIAITI V	PROJEC	<u>Γ</u>							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Montgomery Rouser 1 IC Construction Single-family New (From Pla	ו	Bedrooms: Conditioned Total Stories Worst Case: Rotate Angle Cross Ventil Whole Hous	: 1 No e: 0 ation:			Lot # Block PlatB Stree Coun	/Subdivis ook: t:	sion: Co	olumbia ake City , , 3202		
				CLIMATE	:							
	sign Location , Gainesville	TMY Site	_REGI	Desig 97.5 % 32	yn Temp % 2.5 % 92		sign Temp Summ 75	er Degr	eating ree Days 305.5	Design Moisture 51	e Ra	Temp nge edium
				BLOCKS	<u> </u>							
Number	Name	Area	Volume									
1	Block1	2386	21474									
				SPACES								
Number	Name	Area	Volume Kit		cupants	Bedroor	ns Ir	nfil ID	Finished	d Coo	led	Heated
1	Main	2386		Yes	8	4	1		Yes	Yes		Yes
				FLOORS								
/ # 1 Sla	Floor Type ab-On-Grade Edge	Space Insulatio Ma	Perime		Value 0	Area 2386 ft²				Tile Wo	od Ca	rpet 34
				ROOF								
√ #	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	les 2764 ft²	698 ft²	Medium	N	0.85	No	0.9	No	0	30.3
				ATTIC								
/ #	Туре	Ventila		Vent Ratio (1		Area	RBS	IRO				
1	Full attic	Vent	ed	300	2	2386 ft²	N	١	١			
				CEILING								
√ #	Ceiling Type		Space	R-Value	Ins Ty		Area		ning Frac			
1	Under Attic (Ve	ented)	Main	30	Blowr	າ 2	386 ft ²	(0.11	Wo	od	

INPUT SUMMARY CHECKLIST REPORT

WALLS														
V #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing B-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior		me - Wood	Main	13	14	8	9	132.0 f		0.23	0.75	0
2	W	Exterior	Frai	me - Wood	Main	13	2	8	9	24.0 ft	2	0.23	0.75	0
3	Ν	Exterior	Frai	me - Wood	Main	13	7		9	63.0 ft	2	0.23	0.75	0
4	Е	Exterior	Frai	me - Wood	Main	13	2	8	9	24.0 ft	2	0.23	0.75	0
5	Ν	Exterior	Frai	me - Wood	Main	13	13		9	117.0 f	t²	0.23	0.75	0
6	Е	Exterior	Frai	me - Wood	Main	13	13		9	117.0 f	t²	0.23	0.75	0
7	Ν	Exterior	Frai	me - Wood	Main	13	28		9	252.0 f	t²	0.23	0.75	0
8	Е	Exterior	Frai	me - Wood	Main	13	34	4	9	309.0 f	t²	0.23	0.75	0
9	S	Exterior	Frai	me - Wood	Main	13	14	2	9	127.5 f	t²	0.23	0.75	0
10	Е	Exterior	Frai	me - Wood	Main	13	4	8	9	42.0 ft	2	0.23	0.75	0
11	S	Exterior	Frai	me - Wood	Main	13	7	8	10	76.7 ft	2	0.23	0.75	0
12	Ε	Exterior	Frai	me - Wood	Main	13	4	8	10	46.7 ft	2	0.23	0.75	0
13	S	Exterior	Frai	me - Wood	Main	13	14	2	10	141.7 f	t²	0.23	0.75	0
14	W	Exterior	Frai	me - Wood	Main	13	5	4	10	53.3 ft	2	0.23	0.75	0
15	S	Exterior	Frai	me - Wood	Main	13	5	8	10	56.7 ft	2	0.23	0.75	0
16	W	Exterior	Frai	me - Wood	Main	13	39	4	9	354.0 f	t²	0.23	0.75	0
17	S	Garage	Frai	me - Wood	Main	13	23	4	9	210.0 f	t²	0.23	0.75	0
	DOORS													
\vee	#	Ornt		Door Type	Space			Storm	s U-\	'alue	Width Ft In	Height Ft	t In	Area
	1	N		Insulated	Main			None		4	2 8	6	8 1	7.8 ft²
	2	S		Insulated	Main			None		4	5	8		40 ft ²
	3	S		Insulated	Main			None		4	3	6	8	20 ft ²
				Orie	entation sho		DOWS		ad orienta	ion				
/		Wall		One	mation sno	WIT IS THE CI	itoroa, i	торозс	ou onoma		verhang			
\vee	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	lm	p Are		Separation	Int Sha	ade :	Screening
	1	N 1	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0	ft² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	2	N 5	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0	ft² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	3	N 7	Vinyl	Low-E Double	Yes	0.33	0.22	N	96.0	ft ² 11 ft 6	in 1 ft 4 in	None	Э	None
	4	N 7	Vinyl	Low-E Double	Yes	0.33	0.22	N	30.0	ft ² 11 ft 6	in 1 ft 4 in	None	е	None
	5	E 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	20.0	ft² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	6	E 8	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 f	t² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	7	S 9	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0	ft ² 9 ft 6 i	n 1 ft 4 in	None	Э	None
	8	S 13	Vinyl	Low-E Double	Yes	0.33	0.22	N	36.0	ft ² 9 ft 6 in	n 1 ft 4 in	None	Э	None
	9	S 15	Vinyl	Low-E Double	Yes	0.33	0.22	N	8.0 f	t² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	10	W 16	Vinyl	Low-E Double	Yes	0.33	0.22	N	9.0 f	t² 1 ft 6 i	n 1 ft 4 in	None	Э	None
	11	W 16	Vinyl	Low-E Double	Yes	0.33	0.22	N	15.0	ft ² 1 ft 6 in	n 1 ft 4 in	None	Э	None
	12	W 16	Vinyl	Low-E Double	Yes	0.33	0.22	N	3.0 f	t² 1 ft 6 i	n 1 ft 4 in	None	Э	None

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

None None						GA	RAGE							
# Scope Method SLA CFM 50 ELA EqLA ACH ACH 50 1 Wholehouse Proposed ACH(50) .000286 1789.5 98.24 184.76 .1128 5 HEATING SYSTEM # System Type Subtype Speed Efficiency Capacity Block	# Floor Area			Ceiling Area	Exposed	Wall Perim	eter	Avg. Wall	Height	Exposed	on			
# Scope Method SLA CFM 50 ELA EqLA ACH ACH 50 1 Wholehouse Proposed ACH(50) .000286 1789.5 98.24 184.76 .1128 5 #EATING SYSTEM # System Type Subtype Speed Efficiency Capacity Block 1 Electric Heat Pump/ None Singl HSPF:8.5 42 kBtu/hr 1 2		1	725.356 ft ²		725.356 ft² 86.667 ft				9 ft					
Wholehouse						INFIL	TRATION	I						
HEATING SYSTEM	S	Scope	Method		SLA	CFM 50	ELA	Eq	LA /	ACH	ACH 5	0		
# System Type	Who	olehouse	Proposed AC	CH(50)	.000286	1789.5	98.24	184	.76 .	1128	5			
1 Electric Heat Pump/ None Singl HSPF:8.5 42 kBtu/hr 1						HEATIN	G SYSTI	EM						
COOLING SYSTEM # System Type Subtype Subtype Efficiency Capacity Air Flow SHR Block 1 Central Unit/ None Singl SEER: 14 42 kBtu/hr 1260 cfm 0.85 1 HOT WATER SYSTEM # System Type SubType Location EF Cap Use SetPnt Conservation 1 Propane None Garage 0.59 40 gal 70 gal 120 deg None SOLAR HOT WATER SYSTEM FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None DUCTS DUCTS Air CFM 25 CFM25	$\sqrt{}$	#	System Type		Subtype	Speed	E	fficiency	Cap	oacity		Block	Duct	ts
# System Type Subtype Subtype Efficiency Capacity Air Flow SHR Block 1 Central Unit/ None Singl SEER: 14 42 kBtu/hr 1260 cfm 0.85 1 HOT WATER SYSTEM # System Type SubType Location EF Cap Use SetPnt Conservation 1 Propane None Garage 0.59 40 gal 70 gal 120 deg None SOLAR HOT WATER SYSTEM FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None None DUCTS Air CFM 25 CFM25		1	Electric Heat Pu	mp/	None	Singl	Н	SPF:8.5	42 k	Btu/hr		1	sys#	!1
1 Central Unit/ None Singl SEER: 14 42 kBtu/hr 1260 cfm 0.85 1						COOLIN	G SYST	EM						
HOT WATER SYSTEM ✓ # System Type SubType SubType Location EF Cap Use SetPnt Conservation Conservation 1 Propane None Garage 0.59 40 gal 70 gal 120 deg None None SOLAR HOT WATER SYSTEM ✓ FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None Tit² None Tit² Air CFM 25 CFM25	$\sqrt{}$	#	System Type		Subtype	Subtyp	e Eff	iciency	Capacity	Air Flo	ow SHF	R Block	Duct	ts
✓ # System Type SubType Location EF Cap Use SetPnt Conservation 1 Propane None Garage 0.59 40 gal 70 gal 120 deg None SOLAR HOT WATER SYSTEM ✓ FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None ft² DUCTS		1	Central Unit/		None	Singl	SE	ER: 14	42 kBtu/hr	1260 d	ofm 0.85	5 1	sys#	Ħ
1 Propane None Garage 0.59 40 gal 70 gal 120 deg None SOLAR HOT WATER SYSTEM						HOT WAT	ER SYS	TEM						
SOLAR HOT WATER SYSTEM FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None	$\sqrt{}$	#	System Type	SubType	Location	EF	Сар		Use	SetPnt		Conservation	n	
FSEC Cert # Company Name System Model # Collector Model # Area Volume FE None None DUCTS Supply Return Return Air CFM 25 CFM25		1	Propane	None	Garage	0.59	40 gal	7	70 gal	120 deg		None		
Cert # Company Name System Model # Collector Model # Area Volume FE None None ft² DUCTS / Supply Return Air CFM 25 CFM25					SOL	AR HOT \	WATER S	SYSTE	М					
DUCTS / Supply Return	\checkmark			ame		System Mo	odel #	Col	llector Mode			-	FEF	
/ Supply Return Air CFM 25 CFM25		None	None							f	ft²			
						DI	JCTS							
∨ # Location H-value Area Location Area Leakage Type Handler TOT OUT QN RLF He	\/	,,		•				-				ON 5' 5	HVAC	
1 Main 6 477.2 ft Main 119.3 ft Prop. Leak Free Main cfm 71.6 cfm 0.03 0.50	V	#					Leakage	туре	Handler				Heat C	00ر

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

TEMPEDATURES														
TEMPERATURES														
Programat	ole Thermo	stat: Y			Ce	iling 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] S [] S [] S	ep ep ep	Oct Oct X Oct	[] Nov [X] Nov [X] Nov	Dec [X] Dec Dec
Thermostat S	Schedule:	HERS 200	6 Reference	9				Но	urs					
Schedule Ty	pe		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 (WE	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 (WD	0)	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 (WE	EH)	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
MASS														
Mass Type				Area			Thickness	hickness Furniture Fraction			Space			
Defa	ault(8 lbs/sc	q.ft.		0 ft²			0 ft 0.3				Main			