FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Boardman Addition Street: 355 SW Sweetbreeze Drive City, State, Zip: Lake City , FL , 32055- Owner: Design Location: FL, Galnesville	Builder Name: Don Reed Construction Permit Office: Columbia County Permit Number: Jurisdiction: 221000
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 (189.4 sqft.) Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.50 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC:	9. Wall Types (1710.0 sqft.) a. Concrete Block - Int Insul, Exterior b. Frame - Wood, Exterior c. N/A d. N/A fl= ti² fl= 10.0 ceiling Types (1134.0 sqft.) b. N/A c. N/A fl= ti² fl= 10.0 ceiling Types (1134.0 sqft.) fl= ti² fl= fl² fl=
Glass/Floor Area: 0.167 Total Proposed Modified Total Standard Reference	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	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: DATE:

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist Received



				PROJECT				PARAMETER STATE	* ALCONOMIC			
Title. Building Typ Owner: # of Units: Builder Nam Permit Offic Jurisdiction: Family Type New/Existing Comment:	1 Don Reed Constree: Columbia County 221000 Single-family	ruction ,	Bedrooms: Conditioned A Total Stories: Worst Case: Rotate Angle: Cross Ventila Whole House	1 No 0	4		Address T Lot # Block/Sub PlatBook: Street: County: City, State	Division: 3 C , Zip: L	Bireet Addr 155 SW Sv Columbia Lake City , 320		eze Dr	
				CLIMATE								
V	Design Location	TMY Site	IECC Zone		Temp 2.5 %	Int Desig Winter		Heating Degree Day	Desig s Moistu		lly Temp Range	
	FL, Gainesville	FL_GAINESVILLE	_REGI 2	32	92	70	75	1305.5	51		Medium	
				BLOCKS				·				
Number	Name	Area	Volume					·				
1	Block1	1134	10206			9						
			**************************************	SPACES								
Number	Name	Area	Volume Kit	chen Occ	upants	Bedrooms	Infil IC			oled	Heated	
1	Main	1134	10206	Yes	2	1	1	Yes	Ye	s ·	Yes	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				FLOORS	*****					******		
		Space	Perim		/alue	Area					Carpet	
	Slab-On-Grade Edge In	nsulation M	ain 194 ft		0	1134 ft²	14 14 14 14 14 14 14 14 14 14 14 14 14 1		0.6	0	0.5	
			***************************************	ROOF	· · · · · · · · · · · · · · · · · · ·		Management of the second			***************************************	Myres and Allerton	
<u> </u>	‡ Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt I	Emitt Tested	Deck Insul.		
	l Hip	Composition shing	les 1313 ft²	0 ft²	Medlum	0.96	No	0.9	No	0	30.3	
				ATTIC								
V 4	# Туре	Ventil	ation	Vent Ratio (1	ln)	Area	RBS	IRCC			With a supply and a supply and a supply	
AMMATERIALIZATION	Full attic	Ven	ted	300		1134 ft²	N	N				
				CEILING			nanom.					
V 1	# Celling Type		Space	R-Value	I-Value Area			g Frac	Truss Type			
	1 Under Attic (Ven	ited)	Main	30	11	34 ft²	0.1	1	1	Wood	•	

				es e disconducio	-1011111111	WA	LLS							I TOTAL TOTAL
\sqrt{t}	Ornt_	Adjace To	nt Wall	Tyne	Space	Cavity R-Value	Widti	ı lı	-leight	Area	Sheathing B-Value	Framing Fraction	Solar Absor	
1	N	Exterior		crete Block - Int Insul	Maln	5	28	9		252.0 ft²	1.1	0	0.75	0
2	E	Exterior	Con	crete Block - Int Insul	Main	5	24	9	•	216.0 ft ²	1.1	0	0.75	0
з	s	Exterior	Con	crete Block - Int Insut	Main	5	28	9		252.0 ft ²	1.1	0	0.75	0
4	W	Exterior	Fran	ne - Wood	Main	13	24	9		216.0 ft ²	0.6	0.23	0.75	0
5	N	Exterior	Con	crete Block - Int Insul	Main	5	21	9		189.0 ft ²	1.1	0	0.75	0
6	W	Exterior	Con	crete Block - Int Insul	Maln	5	22	9		198,0 ft²	1.1	0	0.75	0
7	N	Exterior	Fran	ne - Wood	Main	13	21	9		189.0 ft²	0.6	0.23	0.75	0
8	N	Exterior	Con	orete Block - Int Insul	Main	5	22	9		198.0 ft²	1.1	0	0.75	0
						DO	ORS					, , , , , , , , , , , , , , , , , , ,	(
\checkmark	#	Orni		Door Type	Space			Storms	U-Valu	ie Ft	Width In	Helgh Ft	it In	Area
	1	W	N	Insulated	Main			Metal	.28	3	***************************************	6	8	20 ft²
	2	N		Insulated	Main			Metal	.46	3		6	8	20 ft²
***************************************	7700		Visitititititi.				ows				***********	arm Perm		William
		14/13	71000111111111111111111111111111111111	Orie	ntation s	nown is the er	itered, Pr	oposed or	ientation.	0	t			
\checkmark	Wall # Ornt ID Frame Panes			NFRC	U-Factor	SHGC		Area		hang Separation	Int Sh	ade	Screening	
	1	N 1	Vinyl	Low-E Double	Yes	0.55	0.5		41.6 ft ²	2 ft 0 in	0 ft 4 ln	Drapes/		None
	2	N 1	Vinyl	Low-E Double	Yes	0.55	0.5		32.1 ft²	2 ft 0 in	0 ft 4 ln	Drapes/	blinds	None
	3	E 2	Vinyl	Low-E Double	Yes	0.55	0.5		32.1 ft²	2 ft 0 in	0 ft 4 in	Drapes/		None
	4	8 3	Vinyl	Low-E Double	Yes	0.55	0.5		17,1 ft²	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
	5	N 5	Vinyl	Low-E Double	Yes	0.55	0.5		25.0 ft²	2 ft 0 in	0 ft 4 in	Drapes/	blinds	None
	6	W 6	Vinyl	Low-E Double	Yes	0.55	0.5		41.6 ft ²	2 ft 0 in	0 ft 4 ln	Drapes/	blinds	None
_					(0///////	INFILT	RATIO	N	- WHA					
#	Scope	٨	/lethod	SI	A	CFM 50	ELA	Eq	LA	ACH	AC	H 50		
	nolehous	e Best	Guess	.000.	5	1487.3	81.65	153		.385		434	******	
***************************************						HEATING	SYST	EM			VI. L 			
\vee	#	System T	уре	Subt	уре			Efficiency		Capacity			Block	Ducts
······································	1	Electric F	Win farm	······································	·	***************************************		ISPF: 7.7		6 kBtu/hr		XIVI III	1	sys#1
	Marie III					COOLING	3 SYS	EM					***	
V	#	System 1	уре	Subt	уре		E	fficiency	Сарас	ity A	ir Flow	ЭНЯ	Block	Ducts
	1	Central U	lnit	Split			٥	EER: 15	36 kBtu	uba 40	80 cfm	0.75	1	sys#1

			(((((((((((((((((((HOT W	ATER SY	STEM	, and the	- GTellerii					1998
V	#	System Type	SubType	Location	EF.	Ca	p	Use	SetPnt	······	Co	nservation	1	
767(4) (Washington)	1	Electrio	None	Main	0.92	40 g	ai	40 gai	120 deg			None	-	
antitus ut	··			SC	DLAR HO	T WATER	SYST	EM						
V	FSEC Cert #	Company Na	me	1000	System	Model#	C	ollector Model		ollector Area	Stor Volu		FEF	
*************	None	None					70000000000000000000000000000000000000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	fiz			·····	
						DUCTS	HERITAGE L						H8-1	- 1
V	#	Supp Location R	oly -Value Area	F Locatio	Return on Area	Leakag	је Туре	Air Handler	CFM 25 TOT	OFM29 OUT	5 QN	RLF	HV Heat	AC # Cool
-	1	Attic	6 226,8 f	t ² Attic	56.7 ft²	Default	Leakage	Main	(Default)	c(Defau	lt) c		1	1
					TEM	PERATU	RES							
Program	nable Then	nostat: Y			Ceiling Fans	3;						·····		,
Cooling Heating Venting	X Jar X Jar Jar Jar	[X] Feb [X] Feb [Y] Feb	X Mar X Mar X Mar	Apr Apr (X) Apr	May May May May	[X] Jun [] Jun [] Jun		X Aug Aug Aug	[X] Se Se Se Se	6 X	Oct Oct Oct	X Nov X Nov X Nov	[x]	Dec Dec Dec
Thermosta		e: HERS 200	6 Reference		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			lours						
Schedule '			1	2 3		5	6	7	8	9	10	11	AP	12
Cooling (V	VD)	AM PM	78 80	78 79 80 79	8 78 8 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78		80 78
Cooling (V	VEH)	AM PM	78 78	78 77 78 7	8 78 8 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 66 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66
Heating (V	WEH)	AM PM	66 68	66 6 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66

Florida Code Compliance Checklist
Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS: 355 SW Sweetbreeze Drive	PERMIT #:
Lake City, FL, 32055-	

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	/
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	/
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	/
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	ИД
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	V
Cellings/knee walls	405.2.1	R-19 space permitting.	V