FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Brinkley Street: City, State, Zip: , FL , Owner: Design Location: FL, Gainesville		Builder Name: Fierce Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate	e Zone 2)				
 New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Windows(306.2 sqft.) Description U-Factor: Dbl, U=0.60 SHGC: SHGC=0.27 U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: Area Weighted Average Overhang Depth Area Weighted Average SHGC: Skylights U-Factor:(AVG) N/A SHGC(AVG): N/A Floor Types (4800.0 sqft.) Slab-On-Grade Edge Insulation Floor Over Other Space N/A 	New (From Plans) Detached 1 4 No 4800 0 Area 306.22 ft² ft² ft² ft² ft² ft² ft² ft²	10. Wall Type\$4000.0 sqft.) a. Frame - Steel, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types (4800.0 sqft.) a. Cathedral/Single Assembly (Unventob. N/A c. N/A 12. Ducts a. Sup: 2nd Floor, Ret: 2nd Floor, AH: 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump 15. Hot water systems a. Electric b. Conservation features None 16. Credits d Loads: 111.05	R= ft² R= ft² R ft² 1st Floor 6 960 kBtu/hr Efficiency 60.0 SEER:15.00 kBtu/hr Efficiency 60.0 HSPF:8.50 Cap: 50 gallons EF: 0.920 CF, Pstat				
I hereby certify that the plans and specthis calculation are in compliance with a Code. PREPARED BY: DATE: I hereby certify that this building, as dewith the Florida Energy Code.	Total Baseline ifications covered by the Florida Energy		PASS COLUMN THE STATE OF THE S				
OWNER/AGENT: DATE:		BUILDING OFFICIAL:					

- 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.

				PROJ	ECT									
Title: Building Type Owner Name # of Units: Builder Name Permit Office Jurisdiction: Family Type: New/Existing Comment:	: 1 e: Fierce Construction : Detached		Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	s: e: le: lation:	4 4773 2 No 0			Lot # Block PlatB Stree Coun	t:	sion: (p: ,	Street Ad Columbia			
				CLIMA	ATE									
	esign Location	TMY Site		97	Design ⁻ 7.5 %	2.5 %	Int Desig Winter	Summ	er Degi		s Moi	sign I sture	Rar	nge
F	L, Gainesville FL_	GAINESVILLE_F	REGI		32	92	70	75	1	305.5	5	51	Ме	dium
				BLOC	KS									
Number	Name	Area	Volume											
1	Block1	4800	48000											
				SPAC	ES									
Number	Name	Area \	/olume K	itchen	Occu	pants	Bedrooms	lr.	ıfil ID	Finishe	ed (Cooled	i 1	Heated
1	1st Floor		24000	Yes		2	1	1		Yes		Yes		Yes
2	2nd Floor	2400 2	24000	No		6	3	1		Yes		Yes		Yes
				FLOC	RS									
√ #	Floor Type	Space		neter Per		R-Value	Area	Jois	t R-Value	Э	Tile	Wood		
	Slab-On-Grade Edge Insul			π	0		2400 ft ²				0.33	0.33	0.3	34
2 F	Floor Over Other Space	2nd Fl	oor				2400 ft ²		0		0.33	0.33	0.3	34
				ROC)F									
√ #	Туре	Materials	Roof Area	Gab Are		Roof Color		Solar Absor.	SA Tested	Emitt	Em Teste		eck sul.	Pitch (deg)
1	Gable or shed	Metal	2474 ft²	300 f	t²	Light	N	0.6	No	0.9	N	o	0	14.04
				ATT	IC									
√ #	Туре	Ventilati	on	Vent Rat	tio (1 in)	Area	RBS	IR	СС				
1	No attic	Unvente		0			2400 ft ²	N	١					

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INPUT SUMMARY CHECKLIST REPORT

				INFOI	SUIVIIVIAN		LING							
\vee	#	Ceiling	Туре		Space	R-V	alue	Ins Ty	ре	Area	Framing	Frac -	Truss Typ	е
	1	Cathedral/Single Assembly (Unventedst Floor				30)	Blown	2	2400 ft ²	0.11		Wood	
	2	Cathed	Cathedral/Single Assembly (Unvente2nd Floor)	Blown	2	2400 ft ²	0.11		Wood	
						WA	ALLS							
\/ #	0	Adjace	nt	T	Space	Cavity	Wic		Height	Δ	Sheathing			Below
/ # 1	Ornt N	To Exterior		Type me - Steel	1st Floor	R-Value 19	Ft_ 60	lnF: 10		Area 600.0 ft ²	R-Value		Absor. 0.75	Grade% 0
2	Е	Exterior	Fra	me - Steel	1st Floor	19	40	10)	400.0 ft ²		0.23	0.75	0
3	S	Exterior	Fra	me - Steel	1st Floor	19	60	10		600.0 ft ²		0.23	0.75	0
4	W	Exterior	Fra	me - Steel	1st Floor	19	40	10)	400.0 ft ²		0.23	0.75	0
5	N	Exterior	Fra	me - Steel	2nd Floor	19	60	10)	600.0 ft ²		0.23	0.75	0
6	Е	Exterior	Fra	me - Steel	2nd Floor	19	40	10)	400.0 ft ²		0.23	0.75	0
7	S	Exterior	Fra	me - Steel	2nd Floor	19	60	10)	600.0 ft ²		0.23	0.75	0
8	W	Exterior	Fra	me - Steel	2nd Floor	19	40	10)	400.0 ft ²		0.23	0.75	0
						DO	ORS							
\vee	#	Ornt		Door Type	Space			Storms	U-Valu	ле Ft	Width In	Heigh Ft	nt In	Area
	1	N		Insulated	1st Floor			None	.21	6	4	6		2.2 ft²
	2	Е		Insulated	1st Floor			None	.21	6		6	8	40 ft²
	3	S		Insulated	1st Floor			None	.21	3		6	8	20 ft²
							DOWS							
				Ori	ientation shov	vn is the ei	ntered, I	Proposed o	rientation					
\checkmark	#	Wall Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		hang Separation	Int Sh	ade	Screening
·	1	N 1	Vinyl	Low-E Double	Yes	0.6	0.27	N	35.6 ft ²	1 ft 6 in	2 ft 4 in	Nor		None
	2	N 1	Vinyl	Low-E Double	Yes	0.6	0.27	N	5.4 ft ²	1 ft 6 in	2 ft 4 in	Nor		None
	3	E 2	Vinyl	Low-E Double	Yes	0.6	0.27	N	35.6 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	4	S 3	Vinyl	Low-E Double	Yes	0.6	0.27	N	17.8 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	5	S 3	Vinyl	Low-E Double	Yes	0.6	0.27	N	5.4 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	6	S 3	Vinyl	Low-E Double	Yes	0.6	0.27	N	35.6 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	7	W 4	Vinyl	Low-E Double	Yes	0.6	0.27	N	17.8 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	8	N 5	Vinyl	Low-E Double	Yes	0.6	0.27	N	35.6 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	9	N 5	Vinyl	Low-E Double	Yes	0.6	0.27	N	5.4 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	10	E 6	Vinyl	Low-E Double	Yes	0.6	0.27	N	35.6 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	11	S 7	Vinyl	Low-E Double	Yes	0.6	0.27	N	5.4 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	12	S 7	Vinyl	Low-E Double	Yes	0.6	0.27	Ν	17.8 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None
	13	W 8	Vinyl	Low-E Double	Yes	0.6	0.27	N	53.3 ft ²	1 ft 6 in	2 ft 4 in	Nor	ne	None

INPUT SUMMARY CHECKLIST REPORT

					INFIL	TRATIO	N							
#	Scope	Method	i	SLA	CFM 50	ELA	Ed	qLA /	ACH	ACH	50			
1 '	Wholehouse	Proposed A	ACH(50)	.000317	4000	219.45	4	12 .	1413	5				
					HEATII	NG SYST	EM							
\bigvee	/ #	System Type		Subtype	Spee	d E	fficiency	<i>,</i> Саг	acity			Block	Dι	ucts
	1	Electric Heat P	ump/	None	Singl	H	ISPF:8.5	60 k	Btu/hr			1	sy	s#1
					COOLI	NG SYST	ЕМ							
V	/ #	System Type		Subtype	Subty	pe Et	ficiency	Capacity	Air F	low SF	I R	Block	Dι	ıcts
	1	Central Unit/		None	Singl	SI	EER: 15	60 kBtu/hr	1800	cfm 0.8	85	1	sy	s#1
					HOT WA	TER SYS	TEM							
\bigvee	/ #	# System Type SubType		Location	Сар	Cap Use			SetPnt			Conservation		
	1	Electric	None	1st Floor	0.92	50 ga	I	70 gal	140 deg			None		
				SOI	LAR HOT	WATER	SYSTE	М						
\vee	FSEC Cert #		Name		System M	lodel #	Co	ollector Mode		ollector Area	Stora Volur	· ·	FEF	
	None	None								ft²				
						UCTS								
\checkmark	/ #	Sup Location R	oply R-Value Area	Re Location	turn Area	Leakage	Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC # Co
	1	2nd Floor	6 960 ft ²	2nd Floor	240 ft ²	Prop. Lea	ak Free	1st Floor	cfm	144.0 cfm	0.03	0.50	1	1
					TEMP	ERATUR	ES							
Pro	ogramable Th	ermostat: Y		С	eiling Fans:									
Hea	oling [] J ating [X] J nting [] J	an []Feb lan [X]Feb an []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] Ser [] Ser [] Ser		ct ct ct	Nov X Nov X Nov	[X]	Dec Dec Dec

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INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule:	Thermostat Schedule: HERS 2006 Reference Hours												
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	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 (WEH)	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 (WD)	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 (WEH)	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
					I	MASS							
Mass Type			Ar	Area Thick			s Furniture Fraction			5	Space		
Default(8 lbs/so	Default(8 lbs/sq.ft.			0 ft²			0.3				1st Floor		
Default(8 lbs/so	q.ft.		0	ft²		0 ft		0.3		2nd Floor			