FORM 405-10

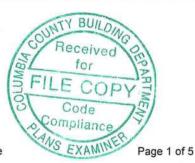
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Ward - Main House Street: City, State, Zip: Lake City , FL , 32055 Owner: Ward Design Location: FL, Gainesville		Builder Name: Blake Construction Permit Office: Columbia Co Permit Number: Jurisdiction: 221000	
Slab-On-Grade Edge Insulation N/A	New (From Plans) Single-family 1 3 No 2006 0 Area 177.78 ft² ft² ft² ft² 4.555 ft. 0.500 Insulation Area R=0.0 2006.00 ft² R= ft² R= ft²	9. Wall Types (2004.8 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (2006.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits	Insulation Area R=13.0 2004.80 ft² R= ft² R= ft² R= ft² Insulation Area R=30.0 2006.00 ft² R= ft² R= ft² R= ft² A ft² C A ft²
Glass/Floor Area: 0.089	Total Proposed Modified Total Standard Reference		PASS
I hereby certify that the plans and specific this calculation are in compliance with the Code. PREPARED BY: 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	GREATS OF THE STATE

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

I hereby certify that this building, as designed, is in compliance



with the Florida Energy Code.

OWNER/AGENT:

DATE:

Florida Statutes.

DATE:

BUILDING OFFICIAL:



					PROJE	СТ	3					
Title: Building Owner: # of Unit Builder N Permit C Jurisdict Family T New/Exis	ts: Name: Office: tion: Type: sting:	Ward - Main House User Ward 1 Blake Construction Columbia Co 221000 Single-family New (From Plans)		Bedrooms Condition Total Stor Worst Cas Rotate An Cross Ver Whole Ho	ed Area: ies: se: gle: ntilation:	3 2006 1 No 0		Address T Lot # Block/Sub PlatBook: Street: County: City, State	Division:	Columbi Lake Cit	rry Farm	1
	3,				CLIMA	TE						
V		gn Location	TMY Site	Zo	ne 97.	esign Temp 5 % 2.5 %		Summer	Heating Degree Da	ys Moi	isture	aily Temp Range
	FL,	Gainesville Fl	_GAINESVILLE_	REGI	1000 HOLD TO THE TOTAL TO THE T	2 92	70	75	1305.5		51	Medium
	901500	N € College ov			BLOCI	KS						
Number 1	er	Name Block1	Area 2006	Volume 18054							-	
	_	DIOCKT	2000	10034	SPACE							
Numbe	er	Name	Area	Volume		Occupants	Bedrooms	Infil ID) Finish	ed (Cooled	Heate
1		Main		18054	Yes	2	3	1	Yes		Yes	Yes
	45 - IIV				FLOOF	RS		25				
V	#	Floor Type	Space	Per	meter	R-Value	Area			Tile	Wood	Carpet
	1 Slab	o-On-Grade Edge Ins	ulatio Mai	n 272	2 ft	0	2006 ft²			0.3	0	0.7
		,			ROOI	=						
\checkmark	#	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck	
	1	Hip Co	omposition shingle	s 2243 ft	0 ft²	Medium	0.96	No	0.9	No	0	26.6
					ATTIC	;						
V	#	Туре	Ventilat	ion	Vent Ratio	(1 in)	Area	RBS	IRCC			
	1	Full attic	Vente	d	300	2	2006 ft²	N	N			
					CEILIN	G						
\checkmark	#	Ceiling Type		Space	R-Value	Aı	ea	Framing	Frac	Tr	uss Typ	е
	1	Under Attic (Venter	JV.	Main	30	20	06 ft²	0.11			Wood	



						WA	ALLS							
V #	Ornt	Adjad To		Туре	Space	Cavity R-Value	Wid	ith In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	
1	S	Exterio	r Fra	me - Wood	Main	13	14		9	126 ft²		0.23	0.75	(
2	S	Exterio	r Fra	me - Wood	Main	13	14		9	126 ft ²		0.23	0.75	(
3	Е	Exterio	r Fra	me - Wood	Main	13	12	6	9 0	112.5 ft²		0.23	0.75	(
4	S	Exterio	r Fra	me - Wood	Main	13	20	6	9 0	184.5 ft ²		0.23	0.75	
5	W	Exterio	r Fra	me - Wood	Main	13	41	2	9 0	370.5 ft ²		0.23	0.75	1
6	N	Exterio	r Fra	me - Wood	Main	13	42	9	9 0	384.75 ft	2	0.23	0.75	(
7	N	Exterio	r Fra	me - Wood	Main	13	27	8	9 0	249 ft ²		0.23	0.75	
8	E	Exterio	r Fra	me - Wood	Main	13	22	2	9 0	199.5 ft²		0.23	0.75	
9	S	Exterio	r Fra	me - Wood	Main	13	28		9	252 ft ²		0.23	0.75	
						DO	ors							
\checkmark	#	Ori	nt	Door Type	Space			Storms	U-Valu	ie F	Width t In	Height Ft	In	Area
	1	N		Insulated	Main			Metal	0.4600				200	20 ft²
	2	s		Insulated	Main			Metal	0.4600	00 3	0	6	8	20 ft²
	3	S		Insulated	Main			Metal	0.4600	00 3	0	6	8	20 ft²
		Wal		C	rientation sh		DOWS ntered, f		d orientation	-	rhang			
V	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC		Area	Depth	Separation	Int Sha	de	Screeni
	1	S 1	Vinyl	Low-E Double	Yes	0.55	0.5		9.777777	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	2	S 2	Vinyl	Low-E Double	Yes	0.55	0.5		15.55555	12 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	3	E 3	Vinyl	Low-E Double	Yes	0.55	0.5		4.44444	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	4	S 4	Vinyl	Low-E Double	Yes	0.55	0.5		9.777777	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	5	W 5	Vinyl	Low-E Double	Yes	0.55	0.5		15.55555	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	6	W 5	Vinyl	Low-E Double	Yes	0.55	0.5		24.88888	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	7	W 5	Vinyl	Low-E Double	Yes	0.55	0.5		2.22222	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	8	N 6	Vinyl	Low-E Double	Yes	0.55	0.5		49.77777	8 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	9	N 7	Vinyl	Low-E Double	Yes	0.55	0.5		14.22222	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
	40	N 7	Vinyl	Low-E Double	Yes	0.55	0.5		24.88888	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
_	10		Vinyl	Low-E Double	Yes	0.55	0.5		2.22222	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
_	11	E 8			Yes	0.55	0.5		4.44444	2 ft 0 in	0 ft 4 in	Drapes/b	linds	None
		S 1	Vinyl	Low-E Double	100									
	11		Vinyl	Low-E Double		INFILT	RATIC	N						
	11	S 1	Vinyl	Low-E Double		INFILT	RATIO		EqLA	ACH	ACH	1 50		



		99			HE	ATING S	YSTEM		- 0				
. /	# 5	System Type		Subtyp	e		Efficiency	y Ca	pacity		Bl	ock	Ducts
		Electric Heat Pu	ımp	Throug	h the Wall(Split)	HSPF: 7.		Btu/hr		1		sys#1
					CC	OLING S	YSTEM						the same the
\vee	# 5	System Type		Subtyp	e		Efficiency	Capacity	Air	Flow SI	HR BI	ock	Ducts
	1 (Central Unit		Throug	h the Wall(Split)	SEER: 14	35 kBtu/h	r 1050	cfm 0.	75 1		sys#1
					НОТ	WATER	SYSTEM						
$\sqrt{}$	#	System Type	SubType	Loca	tion	EF	Сар	Use	SetPnt		Conserv	ation	
	1	Electric	None	Main	0	.92	40 gal	60 gal	120 deg		Non	ð	
					SOLARI	TAW TOP	ER SYSTE	M					
\checkmark	FSEC	CN								ollector	Storage		
	Cert #	Company N	ame		Sys	tem Model #	Co	ollector Mode	1 #	Area	Volume	FE	EF
	None	None								ft²			
						DUCT	s 						
. 🗸	#	Supp Location R-	oly Value Area	Loca	- Return ation Ar		kage Type	Air Handler	CFM 25	Percent Leakage	QN R		HVAC
	1	Attic	6 401 ft²	At	tic 100	.3 ft Defa	ult Leakage	Main	(Default)	(Default)	%		1 .
					TE	MPERAT	URES						
Progran	nable The	rmostat: Y			Ceiling F	ans:							
Cooling Heating Venting	[X] Ja [X] Ja [X] Ja	n [] Feb n [X] Feb n [] Feb	[] Mar [X] Mar [X] Mar	Apr Apr X Apr	[] May [] May [] May	(X) Jun Jun Jun	[X] Jul	[X] Aug [] Aug [] Aug	[X] Ser Ser Ser		ct [X] N	ov ov ov	X Dec
Thermosta Schedule	at Schedu	le: HERS 200	6 Reference	2	3	4 5	Ho 6	ours		•	40		
Cooling (V		ΔΜ						7	8	9		11	12
Journal (V		AM PM	78 80	78 80		78 78 78 78		78 78	78 78	80 78		30 78	80 78
	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
Cooling (V					00		00	60	68	68	68	20	00
Cooling (V Heating (V	VD)	AM PM	66 68	66 68	66 68	66 66 68 68	68 68	68 68	68 68	68 68	68	88 66	68 66



FORM 405-10

Florida Code Compliance Checklist

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

ADDRESS:	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.	V
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	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.	MA
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.
Ceilings/knee walls	405.2.1	R-19 space permitting.	1