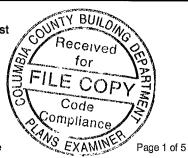
## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name Farnell Residence Street Seminole Terrace City, State, Zip Lake City , FL , 32055- Owner Mason Farnell Design Location FL, Gainesville		Builder Name Owner Permit Office Columbia Permit Number Jurisdiction 221000	
	(From Plans) le-family Area	9 Wall Types (2118 8 sqft ) a. Frame - Wood, Exterior b N/A c N/A d N/A 10 Ceiling Types (2651 0 sqft ) a. Under Attic (Vented) b N/A c N/A 11 Ducts a. Sup Attic, Ret Attic, AH Main	Insulation Area R=13 0 2118 80 ft² R= ft² R= ft² R= ft² Insulation Area R=30 0 2651 00 ft² R= ft² R= ft²
a. U-Factor Dbl, U=0 55 SHGC SHGC=0 60 b U-Factor N/A SHGC c U-Factor N/A SHGC d U-Factor N/A SHGC d U-Factor N/A SHGC Area Weighted Average Overhang Depth Area Weighted Average SHGC 8 Floor Types (2651 0 sqft.) Insulation a. Slab-On-Grade Edge Insulation R=0 0 b N/A c N/A R=	216 22 ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup> ft <sup>2</sup> 4 743 ft. 0 600	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	kBtu/hr Efficiency 35 0 SEER 14 00  kBtu/hr Efficiency 35 0 HSPF 7 70  Cap 40 gallons EF 0 920  CF, Pstat
L Glass/Finor Area: 0.082	Proposed Modified Standard Reference	d Loads: 36.00	PASS
I hereby certify that the plans and specification this calculation are in compliance with the Floric Code  PREPARED BY: DATE:  I hereby certify that this building, as designed, with the Florida Energy Code.	da Energy Usuc	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.	THE STATION OF THE ST

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



OWNER/AGENT:

DATE:

**BUILDING OFFICIAL:** 

				PROJECT							
Title Building Towner # of Units Builder N Permit Or Jurisdictic Family Ty New/Exis Commen	Mason Farne 1 Iame Owner Iffice Columbia on 221000 ype Single-family sting New (From F	əll '	Bedrooms Conditioned A Total Stories Worst Case Rotate Angle Cross Ventila Whole House	1 No 0 ation	I		Address T Lot # Block/Subi PlatBook Street County City, State	Division , Zip	Street Add Seminole Columbia Lake City FL, 3	Terrace	•
				CLIMATE		<del> </del>					
$\checkmark$	Design Location	TMY Site	IECC Zone	•	Temp 25%	Int Desig Winter		Heating Degree Da		_	aily Temp Range
	FL, Gainesville	FL_GAINESVILLE	:_REGI 2	32	92	70	75	1305 5	5	1	Medium
		<del></del>		BLOCKS		· · · · · · · · · · · · · · · · · · ·					
Numbe	er Name	Area	Volume								
1	Block1	2651	23859								
4				SPACES			•				
Numbe	er Name	Area	Volume Ki	tchen Occ	upants	Bedrooms	Infil IC	) Finish	ed C	Cooled	Heate
1	Main	2651	23859	Yes	2	3	1	Yes	\	'es	Yes
				FLOORS							
<u></u>	# Floor Type 1 Slab-On-Grade Ed	Space Ige Insulation M	Perim lain 257.5		'alue 0	Area 2651 ft²		•	Tile 0 25	Wood 0 75	Carpet 0
				ROOF							
<b>/</b>	# Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Decl Insu	
	1 Gable or shed	Composition shing	gles 2965 ft²	664 ft <sup>2</sup>	Medium	0 96	No	0 9	No	0	26 6
				ATTIC							
$\checkmark$	# Туре	Venti	lation	Vent Ratio (1	in)	Area	RBS	IRCC			
	1 Full attic	Ver	nted	300		2651 ft²	N	N			
				CEILING							
$\vee$	# Ceiling Type	)	Space	R-Value	A	rea	Framing	Truss Type			
	1 Under Attic	(Vented)	Main	30	26	551 ft <sup>2</sup>	0 1	1		Wood	

							W	ALLS					***************************************			
$\checkmark$	# Orn		Adjace To	nt Wall	Туре	Spac	Cavity		dth ln	H(	eight In	Area	Sheathing R-Value		Solar Absor	Below Grade%
	1 N		xterior		me - Wood	Mai		37		9	11-1	333 0 ft <sup>2</sup>		0 23	0.75	0
	2 E	E	xterior	Fra	me - Wood	Mai	n 13	46.5		9		418 5 ft <sup>2</sup>		0 23	0.75	0
	3 E	Е	xterior	Fra	me - Wood	Mai	n <b>1</b> 3	30	3	9	0	272 3 ft <sup>2</sup>		0 23	0 75	0
	4 S	E	xterior	Fra	me - Wood	Mai	n 13	45		9		405.0 ft <sup>2</sup>		0 23	0.75	0
	5 W	Е	xterior	Fra	me - Wood	Mai	n 13	27		9		243 0 ft <sup>2</sup>		0 23	0.75	0
	6 W	E	xterior	Fra	me - Wood	Mai	n 13	49	8	9	0	447 0 ft <sup>2</sup>		0 23	0.75	0
							DO	OORS								
$\checkmark$	#		Ornt		Door Type	Space			Storms		U-Valu	ie Ft	Width In	Heigh Ft	i In	Area
	_ 1		W		Wood	Main			Metal	•	32	3		6	8	20 ft <sup>2</sup>
	2		Е		Insulated	Main			Metal		28	3		6	8	20 ft <sup>2</sup>
	_ 3		Е		Insulated	Main			Metal		.28	3		6	8	20 ft <sup>2</sup>
	_ 4		Е		Insulated	Main			Metal		.28	3		6	8	20 ft <sup>2</sup>
						Orientation	WIN shown is the	IDOWS entered, F		d orie	entation					
/			Wall					•				Over	hang			
V	#	Ornt	ID	Frame	Panes	NFRC	U-Facto	r SHGC			Area	Depth	Separation	Int Sha	ade	Screenin
	_ 1	Ν	1	Vinyl	Low-E Double	Yes	0.55	0 6		(	37 3 ft²	2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 2	N	1	Vinyl	Low-E Double	Yes	0 55	0 6			7 1 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 3	Е	2	Vinyl	Low-E Double	Yes	0 55	06			7 1 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 4	E	2	Vinyl	Low-E Double	Yes	0 55	0 6			4 4 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 5	Е	3	Vinyl	Low-E Double	Yes	0 55	0 6		2	24 9 ft <sup>2</sup>	15 ft 10 in	0 ft 4 in	Drapes/b	olinds	None
	_ 6	S	4	Vinyl	Low-E Double	Yes	0 55	0 6		2	24 9 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 7	W	5	Vinyl	Low-E Double	Yes	0 55	0 6		2	24 9 ft <sup>2</sup>	12 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	_ 8	W	6	Vinyl	Low-E Double	Yes	0.55	0 6		{	85 6 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	Drapes/k	olinds	None
							INFIL	TRATIO	NC							
ŧ	Scope		N	lethod		SLA	CFM 50	ELA		EqL/	A	ACH	ACI	H 50		
V	Vholehou	se	Best 0	Guess		0005	3476 8	190 87	3	358 9	96	385	8 7	434		
							HEATIN	G SYS	TEM					<del></del>		
$\bigvee$	#	Sy	stem T	уре		Subtype			Efficier	юу	-{	Capacity			Block	Ducts
	_ 1	Ele	etric H	eat Pun	пр	None			HSPF	77	3	5 kBtu/hr			1	sys#1

					C	OOLI	NG SYS	TEM				<u></u>		
		vstem Type entral Unit		Subtype None	ı			Efficiency SEER 14	Capacity 35 kBtu/hr	Air F		SHR 0 75	Block 1	Ducts sys#1
	<u></u>				НО	T WA	TER SY	STEM				, <del>, , , , , , , , , , , , , , , , , , </del>		
$\sqrt{}$	#	System Type	SubType	Locati	on	EF	Ca	р	Use	SetPnt		Co	nservatior	
***	1	Electric	None	Main		0 92	40 g	al	60 gal	120 deg			None	
				S	OLAR	нот	WATER	SYSTE	EM					-
$\checkmark$	FSEC Cert #	Company Na	ame		Sy	stem M	1odel #	Co	ollector Model		llector Area	Stora Volu	•	FEF
	None	None									ft²			
						[	DUCTS		<del></del>					
<b>/</b>	#	Supp Location R	ply -Value Area	Loca	Return -	Area	Leakaç	је Туре	Air Handler	CFM 25 TOT	CFM2 OUT	-	RLF	HVAC # Heat Cool
	1	Attic	6 530 2 ft	<sup>2</sup> Att	ic 13	32 55 f	Default	Leakage	Main	(Default)	c(Defau	ılt) c		1 1
					•	ГЕМР	ERATU	RES						
Program	able Therr	nostat Y			Ceiling	, Fans								
Cooling Heating Venting	[ ] Jar [X] Jar [ ] Jar	i (X) Feb	[ ] Mar [X] Mar [X] Mar	Apr Apr X Apr	[][	ay ay lay	[X] Jun [ ] Jun [ ] Jun	[X] Jul [ ] Jul [ ] Jul	[X] Aug [ ] Aug [ ] Aug	[X] Sep [ ] Sep [ ] Sep		Oct Oct Oct	[ ] Nov [X] Nov [X] Nov	[ ] Dec [X] Dec [ ] Dec
Thermosta Schedule		HERS 200	06 Reference 1	2	3	4	5	He	ours 7	8	9	10	11	12
Cooling (W	/D)	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 (W	/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 (W	VD)	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 (W	VEH)	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

FORM 405-10

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

ADDRESS: Seminole Terrace	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	403.2.2 403.3.3	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.	V
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.	NA
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.	L-