## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name Aaron Simque Residenc Street City, State, Zip Lake City , FL , 32024- Owner Aaron Simque Design Location FL, Gainesville	е	Builder Name Aaron Simque Permit Office Permit Number Jurisdiction	
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)	New (From Plans) Single-family 1 4 No 2359	9 Wall Types (3268 3 sqft ) a Frame - Wood, Exterior b Frame - Wood, Adjacent c N/A d N/A 10 Ceiling Types (2359 0 sqft ) a Under Attic (Vented) b N/A c N/A 11 Ducts	Insulation Area R=13 0 2828 30 ft² R=13 0 440 00 ft² R= ft² R= ft² Insulation Area R=38 0 2359 00 ft² R= ft² R= ft² R= ft²
7 Windows(302 1 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	Area 302 11 ft² ft² ft² ft²	a Sup Attic, Ret Attic, AH Garage  12 Cooling systems a Central Unit  13 Heating systems a Electric Heat Pump	6 471 8  kBtu/hr Efficiency 36 2 SEER 14 00  kBtu/hr Efficiency 49 0 HSPF 7 70
Area Weighted Average Overhang Depth Area Weighted Average SHGC 8 Floor Types (2359 0 sqft) In:	::	<ul><li>14 Hot water systems</li></ul>	Cap 1 gallons EF 0 940 Pstat
Glass/Floor Area 0 128	Total Proposed Modified Fotal Standard Reference		PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy

Code

PREPARED BY DATE 2-19-2014

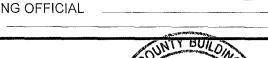
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code

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

DATE

**BUILDING OFFICIAL** 



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



PROJECT													
Title Building Ty Owner # of Units Builder Na Permit Off Jurisdiction Family Typ New/Existi	Aaron Simque 1 Aaron Simque iice n pe Single-family ing New (From Pla		Bedrooms Conditioned Total Stories Worst Case Rotate Angle Cross Ventil Whole Hous	s 1 N e 0 ation	359 o		Address T Lot # Block/Sub PlatBook Street County City, State	DDivision T	ot Inforr The Pres Columbia ake City	erve			
				CLIMAT	E								
	Design Location	TMY Site	IECC Zone		gn Temp % 25%	Int Desig Winter	-	Heating Degree Day		-	Paily Temp Range		
	FL, Gainesville	FL_GAINESVILLE	_REGI 2	32	92	70	75	1305 5	5	51	Medium		
	BLOCKS												
Number	Name	Area	Volume										
1	Block1	2359	18872										
				SPACES	3								
Number	Name	Area	Volume Ki	tchen O	ccupants	Bedrooms	Infil II	D Finishe	ed (	Cooled	Heated		
1	Main	2359	18872	Yes	4	4	1	Yes	`	⁄es	Yes		
				FLOOR	3								
V	# Floor Type	Space	Perim	***	-Value	Area					Carpet		
	1 Slab-On-Grade Edge	Insulatio Ma	ain 348 fi	t	0	2359 ft²		•	0 33	0 33	0 34		
				ROOF									
<u></u>	# Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Dec			
	1 Hip	Composition shingl	es 2835 ft²	O ft²	Medium	0 96	No	0 9	No	0	33 7		
	ATTIC												
✓	# Type	Ventila	ation	Vent Ratio	(1 in)	Area	RBS	IRCC					
	1 Full attic	Vent	ed	300	2	2359 ft²	N	N					
	CEILING												
$\sqrt{}$	# Ceiling Type		Space	R-Value	Aı	ea	Framing	g Frac	Tr	uss Ty	pe		
	1 Under Attic (Ve	ented)	Main	38	23	59 ft²	0 1	1		Wood			

WALLS															
V #	_Ornt_	Adjacei To	nt Wall_	Typo	Space	Cavity R-Value	Widt Et	h _ln	Heigh Et Ir		Area	Sheathing R-Value	Framing	Solar	Below Grade%
1	SE	Exterior		ne - Wood	Main	13	4		10		40 0 ft <sup>2</sup>		0 23	0 75	0
2	s	Exterior	Fran	ne - Wood	Main	13	24		10		240 0 ft <sup>2</sup>		0 23	0 75	0
3	W	Exterior	Fran	ne - Wood	Main	13	6	4	10		63 3 ft²		0 23	0 75	0
4	S	Exterior	Fran	ne - Wood	Main	13	14		10		140 0 ft <sup>2</sup>		0 23	0 75	0
5	Ε	Exterior	Fran	ne - Wood	Main	13	53		10		530 0 ft²		0 23	0 75	0
6	N	Exterior	Fran	ne - Wood	Main	13	45		10		450 0 ft <sup>2</sup>		0 23	0 75	0
7	W	Exterior	Fran	ne - Wood	Main	13	32		20		640 0 ft <sup>2</sup>		0 23	0 75	0
8	NW	Exterior	Fran	ne - Wood	Main	13	37		10		370 0 ft <sup>2</sup>		0 23	0 75	0
9	NE	Exterior	Fran	ne - Wood	Main	13	14	6	10		145 0 ft²		0 23	0 75	0
10	sw	Exterior	Fran	ne - Wood	Main	13	14	6	10		145 0 ft²		0 23	0 75	0
11	SE	Garage	Fran	ne - Wood	Main	13	24		10		240 0 ft <sup>2</sup>		0 23	0 75	0
12	SW	Garage	Fran	ne - Wood	Main	13	20		10		200 0 ft <sup>2</sup>		0 23	0 75	0
13	E	Exterior	Fran	ne - Wood	Main	13	6	6	10		65 0 ft²		0 23	0 75	0
	DOORS														
$\vee$	#	Ornt		Door Type	Space			Storm	s U	-Valu	e Ft	Width In	Height Ft	i In	Area
	1	SE		Wood	Main			None		46	2	8	8	2	1 3 ft²
	2	S		Wood	Main			None		46	5	8	8	4	15 3 ft²
	3	W		Wood	Main			None		46	6		8		48 ft²
	4	N		Wood	Main			None		46	6		8		48 ft²
	5	N		Wood	Main			None		46	5		8		40 ft²
	6	N		Wood	Main			None		46	5		8		40 ft²
	7	W		Wood	Main			None		46	3		8		24 ft <sup>2</sup>
	8	SW		Wood	Maın			None		46	2	8	8	2	21 3 ft²
	9	NW		Insulated	Main			None		46	9		8		72 ft²
	10	NW		Insulated	Main			None	!	46	6		8		48 ft²
				Orie	entation show		OWS Itered, F	ropose	ed orient	ation					
. /		Wall									Over	hang			
			Frame	Panes	NFRC	U-Factor				ea		Separation	Int Sha		Screening
	1	S 2	Metal	Double (Tinted)	Yes	0 55	0 5			0 ft²	6 ft 18 in		Drapes/b		None
	2	S 2	Metal	Double (Tinted)	Yes	0 55	0 5				6 ft 18 in		Drapes/k		None
	3	S 4	Metal	Double (Tinted)	Yes	0 55	0 5				0 ft 18 in		Drapes/b		None
	4	E 5	Metal	Double (Tinted)	Yes	0 55	0 5				0 ft 18 in		Drapes/k		None
	5	E 5	Metal	Double (Tinted)	Yes	0 55	0 5				0 ft 18 in		Drapes/b		None
	6	N 6	Metal	Double (Tinted)	Yes	0 55	0 5				0 ft 18 in		Drapes/b		None
	7	N 6	Metal	Double (Tinted)	Yes	0 55	05				0 ft 18 in		Drapes/b		None
	8	N 6	Metal	Double (Tinted)	Yes	0 55	0 5				0 ft 18 in		Drapes/l		None
<del></del>	9	E 13	Metal	Double (Tinted)	Yes	0 55	05				0 ft 18 in		Drapes/		None
l		W 7	Metal	Double (Tinted)	Yes	0 55	05				0 ft 18 in		Drapes/i		None
	11	SW 10	Metal	Double (Tinted)	Yes	0 55	0 5		18	U ft²	0 ft 18 in	0 ft 6 in	Drapes/l	olinds	None

					G	ARAGE							
. V	/ #	Floor Area	Ce	iling Area	Expose	d Wall Perimete	er /	Avg Wall I	leight	Exposed	Wall Insulati	on	
	1	535 ft <sup>2</sup>		535 ft²		47 ft		9 ft			13		
					INFIL	TRATION							
#	Scope	Method		SLA	CFM 50	ELA	EqLA	A	кСН	ACH	50		
1	Wholehouse	e Best Guess		0003	1856 3	101 91	191 6	5	231	5 901	18		
					HEATI	NG SYSTEM	1						**************************************
V	#	System Type		Subtype		Effic	iency	Сар	acity		Block	. D	ucts
	1	Electric Heat Pur	mp	None		HSP	F 77	48 98	kBtu/hr		1	sy	/s#1
•••••					COOLI	NG SYSTEN	/1				111 111 111		
V	/ #	System Type		Subtype		Efficie	ency	Capacity	Air F	Flow SH	IR Block	; D	ucts
	1	Central Unit		None		SEEF	R 14 36	22 kBtu/h	nr 1080	cfm 0 7	75 1	sy	/s#1
				·	HOT WA	TER SYSTE	EIVI						
V	/ #	System Type	SubType	Location	EF	Сар	l	Jse	SetPnt		Conservati	on	
	1	Natural Gas	Tankless	Garage	0 94	1 gal	70	gal	120 deg		None		
				SOL	AR HOT	WATER SY	STEM					······································	
V	FSE Cert		ame		System M	īodel#	Colle	ctor Mode		ollector Area	Storage Volume	FEF	
	Non-	e None	,							ft²			
					Ĺ	UCTS				· · · · · · · · · · · · · · · · · · ·			<del></del>
V	/ #	Supp Location R-	oly Value Area	Ret Location	urn Area	Leakage Ty	ne	Air Handler	CFM 25 TOT	CFM25 OUT	QN RLF		/AC#
	1	Attic	6 471 8 ft	Attic	117 95	Default Leak		Garage		) (Default)	GIV INLI	1	1

,	. TEMPERATURES													
Programable Thermostat Y Ceiling Fans														
Cooling Heating Venting	[ ] Jan [X] Jan [ ] Jan	[ ] Feb [X] Feb [ ] Feb	[ ] Mar [X] Mar [X] Mar	[ ] Ap [X] Ap	r r r	[ ] 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 XDec Dec
Thermostat Schedule T		HERS 200	6 Reference	2	3	4	5	Hou 6	ırs 7	8	9	10	11	12
Cooling (WI	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 (Wi	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	D)	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	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

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

ADDRESS		PERMIT#
	Lake City, FL, 32024-	

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

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Aır 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	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	
	403 3 3	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	
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	
Ceilings/knee walls	405 2 1	R-19 space permitting	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 75

The lower the EnergyPerformance Index, the more efficient the home

, Lake City, FL, 32024-

2 3 4 5	New construction or existing Single family or multiple family Number of units, if multiple famil Number of Bedrooms Is this a worst case? Conditioned floor area (ft²)	New (From Plans) Single-family y 1 4 No 2359	<ul> <li>9 Wall Types</li> <li>a Frame - Wood, Exterior</li> <li>b Frame - Wood, Adjacent</li> <li>c N/A</li> <li>d N/A</li> <li>10 Ceiling Types</li> <li>a Under Attic (Vented)</li> <li>b N/A</li> </ul>	Insulation   Area   R=13 0   2828 30 ft²   R=13 0   440 00 ft²   R=   ft²   R=   ft²   Insulation   Area   R=38 0   2359 00 ft²   R=   ft²
7	Windows** Description  a U-Factor Dbl, U-SHGC SHGC:  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 Overhal Area Weighted Average SHGC	-0 55 302 11 ft <sup>2</sup> -0 50 ft <sup>2</sup> ft <sup>2</sup>	c N/A 11 Ducts a Sup Attic, Ret Attic, AH Garage  12 Cooling systems a Central Unit  13 Heating systems a Electric Heat Pump	R= ft² R ft² 6 471 8  KBtu/hr Efficiency 36 2 SEER 14 00  KBtu/hr Efficiency 49 0 HSPF 7 70
8	Floor Types a Slab-On-Grade Edge Insulatio b N/A c N/A	Insulation Area on R=0 0 2359 00 ft² R= ft² R= ft²	<ul><li>14 Hot water systems</li></ul>	Cap 1 gallons EF 0 94 Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature \_\_\_\_\_ Date \_\_\_\_\_

Address of New Home \_\_\_\_ City/FL Zip



\*Note This is not a Building Energy Rating If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge com for information and a list of certified Raters For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff

\*\*Label required by Section 303 1 3 of the Florida Building Code, Energy Conservation, if not DEFAULT.