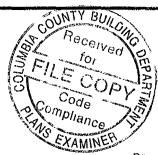
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

XII			
Project Name 157_Simque Street. Lot 133 Preserve City, State, Zip: Lake City, Ft, 32055- Owner Aaron Simque Design Location FL, Jacksonville		Builder Name [*] Aaron Simque Homes Permit Office: Permit Number [*] Jurisdiction:	
 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(294 7 sqft.) Description U-Factor: Dbl, U=0 32 SHGC: SHGC=0.27 U-Factor: N/A SHGC U-Factor: N/A SHGC U-Factor: N/A SHGC Floor SHGC: Area Weighted Average Overhang Depth. Area Weighted Average SHGC: Floor Types (1987.0 sqft.) Instance Slab-On-Grade Edge Insulation R=0 N/A N/A N/A 	ft² ft²	9. Wall Types (1966.3 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c N/A d. N/A 10. Ceiling Types (1987.0 sqft.) a. Under Attic (Vented) b. N/A 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 14 Hot water systems a Electric b. Conservation features None 15. Credits	Insulation Area R=13.0 1726.30 ft² R=13.0 240.00 ft² R= ft² R= ft² Insulation Area R=30.0 1987.00 ft² R= ft² R= ft² R= ft² R= ft² R ft² C 397.4 kBtu/hr Efficiency 42.0 SEER:14.00 kBtu/hr Efficiency 42.0 HSPF:8 50 Cap 50 gallons EF. 0.920 CF, Pstat
I (31888/FIOOT ATER: 1) 148	Total Proposed Modified otal Standard Reference		PASS
I hereby certify that the plans and specifica this calculation are in compliance with the ficode. PREPARED BY: 7-18-13 I hereby certify that this building, as design with the Florida Energy Code. OWNER/AGENT: 7-18-13	Florida Energy	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:	OF THE STATE OF TH

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



				PROJEC	ST						,
Title. Building Ty Owner: # of Units: Builder Na Permit Offi Jurisdictior Family Typ New/Existii Comment	Aaron Simque 1 me: Aaron Simque ce: i: e: Single-family		Bedrooms Conditioned Total Storied Worst Case Rotate Ang Cross Vent Whole Hou	d Area: 1 es 1 e; f ile 0	1 1987 I No		Address T Lot # Block/Sub PlatBook Street: County: City, State	Division [.]	Street Add Lot 133 P Columbia Lake City FI, 32	reserve	
				CLIMAT	E						4.2 (1.10) - 20.11/2 (1.1
V	Design Location	TMY Site	IEC Zon		sign Temp i % 2.5 %	int Desig Winter		Heating Degree Da		ign Dai ture F	ily Temj Range
	FL, Jacksonville	FL_JACKSONVILLI	E_INT 2	2 32	2 93	70	75	1281	49)	Medium
				BLOCK	S						
Number	Name	Area	Volume			*************************************					
1	Block1	1987	19870								
				SPACE	S			**************************************			
Number	Name	Area	Volume K	(itchen (Occupants	Bedrooms	Infil ID) Finish	red C	ooled	Heat
1	Main	1987	19870	Yes	4	4	1	Yes	Υ	es	Yes
				FLOOR	S						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
V 1	# Floor Type	Space	Perin	neter F	₹-Value	Area			Tile '	Nood (Carpet
•	l Slab-On-Grade Edge	Insulatio Ma	in 204.4	2 ft	0	1987 ft²	****		0.25	0	0 75
		//		ROOF							
√ <i>i</i>	‡ Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emiti	Emitt Tested	Deck Insul.	Pitcl (deg
	l Hlp	Composition shingle	es 2301 ft²	0 ft²	Medlum	0.96	No	09	No	O	30 3
				ATTIC							
√ <i>‡</i>	‡ Type	Ventila	tion	Vent Ratio	(1 in)	Area	RBS	IRCC			
	Full attic	Vente	ed	300	*	987 ft²	N	N			,
	······································	<u>, , , , , , , , , , , , , , , , , , , </u>		CEILIN	G	<u> </u>					
V 7	# Ceiling Type		Śpace	R-Value	A	ea	Framing	Frac	Tre	ı s s Туре)
	Under Attic (Ve	nted)	Main	30	19	87 ft²	0 11		,1	Wood	

						WA	LLS	'() '						······································	
V #	Ornt	Adjac To	ent Wall	Type	Space	Cavity R-Value	Wid Et	ith _In	H _Ft	leight ln	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below _Grade%_
1	E	Exterio		me - Wood	Main	13	14	6	10	0	145 ft²		0.23	0.75	0
2	s	Exterior	Fra	me - Wood	Main	13	3	6	10	0	35 ft²		0.23	0.75	0
3	E	Exterior	· Fra	me - Wood	Main	13	7	2	10	0	71.66666	;	0.23	0.75	0
4	N	Exterio	r Fra	me - Wood	Main	13	3	6	10	0	35 ft²		0.23	0.75	0
5	E	Exterio	Fra	me - Wood	Main	13	12	6	10	0	125 ft²		0.23	0 75	0
6	s	Garage	Fra	me - Wood	Main	13	9	0	8	0	72 ft²		0.23	0 75	0
7	E	Garage	Fra	me - Wood	Main	13	21	0	8	0	168 ft²		0 23	0 75	0
8	S	Exterior	· Fra	me - Wood	Main	13	33	5	8	0	267.3333	3	0 23	0.75	0
9	W	Exterio	Fra	me - Wood	Main	13	12	2	8	0	97.33333	3	0.23	0.75	0
10	N	Exterior	· Fra	me - Wood	Main	13	1	8	8	0	13.33333	\$	0 23	0 75	0
11	W	Exterior	Fra	me - Wood	Main	13	13	6	10	0	135 ft²		0.23	0.75	0
12	N	Exterior	Fra	me - Wood	Main	13	9	0	10	0	90 ft²		0 23	0.75	0
13	W	Exterior	Fra	me - Wood	Main	13	29	6	10	0	295 ft²		0 23	0 75	0
14	N	Exterior	Fra	me - Wood	Main	13	18	4	10	0	183.3333	;	0 23	0 75	0
15	W	Exterior	Fra	me - Wood	Main	13	3	0	10	0	30 ft²		0.23	0 75	0
16	Ν	Exterior	Fra	me - Wood	Main	13	7	8	10	0	76 66666	ì	0.23	0.75	0
17	E	Exterior	Fra	me - Wood	Main	13	3	0	10	0	30 ft ²		0.23	0.75	0
18	N	Exterior	Fra	me - Wood	Main	13	9	8	10	0	96 66666	ì	0.23	0 75	0
						DO	ORS			,					
\vee	#	Orn	t	Door Type	Space			Storms	3	U-Valu	ie F	Width t In	Heighi Ft	in	Area
	1	E		Insulated	Main	····		None		0 4600	00 3	0	6	8	20 ft²
	2	E		Insulated	Main			None		0.4600	00 3	0	6	8 17	777777
***************************************	3	W		Insulated	Main			None		0.4600	00 3	0	6	8	96 ft²
	· · · · · · · · · · · · · · · · · · ·				······································	WINE	ows	10 10 10 10 10 10 10 10 10 10 10 10 10 1				**************************************			
				Orie	ntation show			ropose	d or	ientatior),				
\checkmark	# (Wall Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC			Area		rhang Separation	Int Sha	ıde :	Screening
	1	E 1	Vinyl	Double (Tinted)	Yes	0.32	0.27			20 ft²	1 ft 8 in	3 ft 0 in	Drapes/b	linds	None
	2	E 1	Vinyl	Double (Tinted)	Yes	0.32	0.27		E	5.55555	5 1 ft 8 in	1 ft 6 in	Drapes/b	linds	None
	3	E 5	Vlnyl	Double (Tinted)	Yes	0.32	0 27			36 ft²	7 ft 2 in	1 ft 6 in	Drapes/b	linds	None
	4	S 8	Vinyl	Double (Tinted)	Yes	0.32	0.27			30 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	linds	None
****	5	W 9	Vinyl	Double (Tinted)	Yes	0.32	0.27			30 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	linds	None
	6	W 11	Vinyl	Double (Tinted)	Yes	0 32	0.27			36 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	olinds	None
	7	N 12	Vinyl	Double (Tinted)	Yes	0 32	0.27			36 ft²	18 ft 1 in	1 ft 6 in	Drapes/b	olinds	None
	8	W 13	Vinyl	Double (Tinted)	Yes	0.32	0.27			36 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	linds	None
	9	N 14	Vinyl	Double (Tinted)	Yes	0.32	0.27			36 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	olinds	None
	10	N 16	Vinyl	Double (Tinted)	Yes	0 32	0 27		Ē	5.55555	5 1 ft 8 in	1 ft 6 in	Drapes/b	olinds	None
	11	N 18	Vinyl	Double (Tinted)	Yes	0.32	0.27		3	3,555555	5 1 ft 8 in	1 ft 6 in	Drapes/b	olinds	None
	12	N 18	Vinyl	Double (Tinted)	Yes	0.32	0.27			20 ft²	1 ft 8 in	1 ft 6 in	Drapes/b	olinds	None

					G,	ARAGE				, , , , , , , , , , , , , , , , , , , ,			evitos (Pitotella)	,
V	/ #	Floor Area	C	elling Area	Expose	d Wall Perimet	er	Avg. Wali l	Height	Exposed	d Wall Ins	sulation	1	
	1	462 ft²		462 ft²		53 16 ft		9 ft			13			
					INFIL	TRATION								
#	Scope	Method		SLA	CFM 50	ELA	Eql	_A A	ACH	ACH	50			
1	Wholehous	e Best Guess		0.000500	2605.9	143.06	269.	.05 0.	3850	7.86	90			
					HEATI	NG SYSTEM	ń.	() ()						
	/ #	System Type		Subtype		Effic	elency	Car	acity			Block	Du	cts
	1	Electric Heat Pu	mp	None		нѕр	F: 8.5	42 ki	Btu/hr			1	sys	#1
<u></u>					COOLI	NG SYSTE	VI.							
	/ #	System Type	4-41	Subtype		Effici	ency	Capacity	Air I	Flow SI	IR I	Block	Du	cts
	1	Central Unit		None		SEEF	R: 14	42 kBtu/hr	1260	cfm 0.	75	1	sys	#1
			·///\		HOT WA	TER SYSTE	ΞM		· · · · · · · · · · · · · · · · · · ·					en en en en en en en en
V	/ #	System Type	SubType	Location	EF	Сар		Use	SetPnt		Conse	ervation	1	
	1	Electric	None	Garage	0 92	50 gal	7	0 gal	120 deg		No	one		
				SOL	AR HOT	WATER SY	STE	VI.						
٧	FSE Cert		ame		System M	lodel#	Coll	ector Mode		ollector Area	Storage Volume		FEF	
	Non	e None								ft²				
-						UCTS								The state of the s
\ .	/	Supp		Ret		_	· · · · · · · · · · · · · · · · · · ·	Air		Percent			HVA	
V	#	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Value Area	Location	Area	Leakage Ty			CFM 25	Leakage		RLF		Coo
	1	Attic	6 397.4 ft	Attic	99 35 ft	Default Leak	age	Garage	(Default)	(Default)	%		1	1

	TEMPERATURES													
Programa	ble Thermo	stat. Y	,		Ce	eiling Fans	3:							
Cooling Heating Venting	X Jan X Jan Jan	X Feb Feb	Mar X Mar X Mar	X A	or [or [May May May	X Jun Jun Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Se Se Se	ep ep	Oct Oct X) Oct	X Nov X Nov X Nov	X Dec Dec Dec
Thermostat Schedule Ty		HERS 2006	Reference	2	3	4	5	Hot 6	urs 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 (WI	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 (WI	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

FORM 405-10

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

ADDRESS: Lot 133 Preserve

Lake City, FI, 32055-

PERMIT#:

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	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* = 76

The lower the EnergyPerformance Index, the more efficient the home.

Lot 133 Preserve, Lake City, FI, 32055-

1	New construction or exis	ting	New (rom Plans	9.	Wall Types	Insulation	
2.	Single family or multiple	family	Single	family		a. Frame - Wood, Exterior b. Frame - Wood, Adjacent	R≃13.0 R=13.0	1726 30 ft ² 240.00 ft ²
3.	Number of units, if multip	ole family	1			c. N/A	R=	ft²
4	Number of Bedrooms		4		4.2	d. N/A	R≔	ft²
5	Is this a worst case?		No		10	Ceiling Types a. Under Attic (Vented)	Insulatior R≃30 0	n Area 1987 00 ft²
6	Conditioned floor area (ft	2)	1987			b N/A	R≔	ft²
7.	Windows** a. U-Factor SHGC	Description Dbl, U=0 32 SHGC=0 27		Area 294 67 ft	11	c. N/A I. Ducts a. Sup: Attic, Ret: Attic, AH: Garage	R≕	ft² R ft² 6 397 4
	b. U-Factor SHGC:	N/A		ft		2. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC:	N/A		ft	2	a. Central Unit	42.0	SEER.14.00
	d. U-Factor: SHGC. Area Weighted Average O Area Weighted Average			4.344 1 0.270	18	3. Heating systems a. Electric Heat Pump	kBtu/hr 42.0	Efficiency HSPF:8 50
8.	Floor Types a. Slab-On-Grade Edge I b N/A		Insulation R=0 0 R=	Area 1987.00 ft	2	4. Hot water systems a Electric	Ça	ap: 50 gallons EF: 0.92
	c. N/A		R≃	ff	²	 b. Conservation features None 		
					18	5 Credits		CF, 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 compllant features.

Builder Signature:	Hanon	Silve	Date:	7-18-13
Address of New Ho	me:	<i>W</i>	c	ity/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 DEF

EnergyGauge® USA - FlaRes2010 Section 405 4 1 Compliant Software

Florida Code Summary Report

Aaron Simque Lot 133 Preserve Lake City, Fl, 32055-Registration #: Title: 157_Simque FLAsBuilt

TMY City: FL_JACKSONVILLE_ Elec Util: Florida Average Gas Util: Florida Average Run Date:

Energy Uses	Reference Home	Proposed Home	e-Ratio
Heating	4.43 MBtu	3.02 MBtu	0.68
Cooling	11.55 MBtu	8.20 MBtu	0.71
Hot Water	10.78 MBtu	10.50 MBtu	0.97
Total	26.76 MBtu	21.72 MBtu	0.81
Building Loads	Reference Home	Proposed Home	e-Ratio
Heating	7.67 MBtu	5.23 MBtu*	0.68
Cooling	27.22 MBtu	19.34 MBtu*	0.71
Hot Water	9.81 MBtu	9.54 MBtu*	0.97
Total	44.69 MBtu	34.12 MBtu	0.76
* normalized modified lo	pads		
Glass/Floor Area: 0.	148 Total Proposed Modifie	d Loads: 34.12	DACC
	Total Reference	Loads: 44.69	PASS