FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name Hartsville Model Street City, State, Zip LC , FL , 32025- Owner N/A Design Location FL, Galnesville	Builder Name Aaron Simque Homes Permit Office Columbia County Permit Number Jurisdiction
1 New construction or existing 2 Single family or multiple family 3 Number of units, if multiple family 4 Number of Bedrooms 5 Is this a worst case? No 6 Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Conditioned floor area below grade (ft²) 7 Windows(339 3 sqft) Description a U-Factor Dbl, U=0 30 339 33 ft² SHGC SHGC=0 50 b U-Factor N/A SHGC c U-Factor N/A SHGC d U-Factor N/A SHGC d U-Factor SHGC Area Weighted Average Overhang Depth Area Weighted Average SHGC 8 Floor Types (2012 0 sqft) Insulation R=5 0 2012 00 ft² b N/A R= ft² C. N/A R= ft²	9 Wall Types (2118 3 sqft.) a Frame - Wood, Exterior b Frame - Wood, Adjacent c. N/A d N/A R= ft² d N/A A R= ft² 10 Ceiling Types (2213 0 sqft) a Under Attic (Vented) b N/A C. N/A R= ft² c. N/A R= ft² 11 Ducts a Sup Attic, Ret Attic, AH Garage Reficiency a Central Unit Reficiency a Electric Heat Pump Reficiency b Conservation features None Read 1740 00 ft² R=13 0 378 33 ft² R= ft² R= ft² R= ft² R= ft² R=30 0 2213 00 ft² R=30 0 2213 00 ft² R= ft²
Glass/Floor Area 0 169 Total Proposed Mod Total Standard Refer	PA.7.7
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code PREPARED BY. DATE. I hereby certify that this building, as designed, is in compliance with the Florida Energy Code OWNER/AGENT AND Single DATE. Compliance requires completion of a Florida Air Bar	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 DATE

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

				PROJEC	CT .						
Title Building Type Owner # of Units Builder Name Permit Office Jurisdiction Family Type New/Existing Comment	Hartsville Model FLProp2010 N/A 1 Aaron Simque Hor Columbla County Single-family New (From Plans)	nes	Bedrooms Conditioned Total Storie Worst Cas Rotate Ang Cross Ven Whole Hou	e N gle 0 tilation N	1012 No		Address Lot # Block/Sut PlatBook Street County City, Stat	Division e, Zip	Street Ad Columbia LC , FL , 3:	dress 2025-	
				CLIMAT	E						
V Desi	gn Location	TMY Site	IEC Zor		sign Temp % 25%	Int Desig Winter	•	Heating Degree Da			aily Temp Range
FL,	Gainesville Fl	GAINESVILLE	_REGI :	2 32		70	75	1305 5	5	1	Medium
				BLOCK	S						
Number	Name	Area	Volume								
1	Block1	2012	20120								
				SPACE	S	*					
Number	Name	Area			Occupants	Bedrooms	Infil II			ooled	Heated
1	RoomsinBlock1	2012	20120	Yes	3	3	1	Yes	Y	es	Yes
				FLOOR	S				.,		
	Floor Type b-On-Grade Edge Ins	Space sulatio Roomsl	Perii InBlock1 190 8		R-Value 5	Area 2012 ft²	and the form	•	Tile 0	Wood 0	Carpet 1
				ROOF							
√ #	Турө	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt I	Emitt Tested	Deck Insul	
1	Hip Co	omposition shing	les 2563 ft²	0 ft²	Medium	0 96	No	0 9	No	0	30 3
				ATTIC							
/ #	Туре	Ventil	atlon	Vent Ratio	(1 ln)	Area	RBS	IRCC			
1	Partial cathedral co	ei Ven	ted	303	:	2213 ft²	N	N			
		<u></u>		CEILIN	G						
V #	Ceiling Type		Space	R-Value	A	rea	Framing	Frac		uss Typ	ЭӨ
1	Under Attic (Vente	d) R	RoomsInBlock1	30	22	13 ft²	0 1	1		Wood	

								W	ALLS							. Kiling
	#	Ornt.		djace	nt \\/all	Туре	Space	Cavity R-Value	Wid		Height Et In	Area_	Sheathing	Framing Eraction	Solar Absor	
Y	1	E		terior		ne - Wood	RoomsinBl		32		i 0	321 6666		0 23	0 75	Grade-76-
	_ 2	Ν	Ex	terlor	Fran	ne - Wood	RoomsinBl	oc 13	50	8 1	0	506 6666	;	0 23	0 75	0
	3	W	Ex	terior	Frai	ne - Wood	RoomsInBl	oc 13	54		0	540 ft²		0 23	0 75	0
	4	s		terior		ne - Wood	RoomsInBI		37		.0	371 6666	,	0 23	0 75	0
	- 5	E		rage		ne - Wood	RoomsinBl		23		0	238 3333		0 23	0 01	0
	_ 6	s		rage		ne - Wood	RoomsinBl		14		0	140 ft²		0 23	0 01	0
<u> </u>				 · .	····			DC	ORS					(1.00-), 1.00-		
\checkmark		#		Ornt	·····	Door Type	Space			Storms	U-Val	ue F	Width t In	Heigh Ft	it In	Area
		1		E		Insulated	RoomsInBloc			None	0 4600			6	8	20 ft²
			,	.,			Orientation show		DOWS		l orientatio	n				
/			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Wall					,,,,o,,ou,	Торосос	· grontatio		rhang			
\vee	#	<u> </u>	Ornt		Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area		Separation	Int Sh	ade	Screening
	_ 1	[Е	1	Metal	Double (Clea	r) Yes	03	0 5	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS 2	2006	None
	_ 2	2	E	1	Metal	Double (Clea	r) Yes	03	05	N	36 ft²	7 ft 6 in	1 ft 6 in	HERS 2	2006	None
	_ 3	3	E	1	Metal	Double (Clea	r) Yes	03	0 5	N	13 33333	3 7 ft 6 in	1 ft 6 in	HERS :	2006	None
	_ 4	Į.	Ν	2	Metal	Double (Clea	r) Yes	03	05	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS 2	2006	None
	{	5	W	3	Metal	Double (Clea	r) Yes	03	0.5	Ν	72 ft²	1 ft 6 in	1 ft 6 in	HERS 2	2006	None
	. (3	W	3	Metal	Double (Clea	r) Yes	03	0.5	N	80 ft²	8 ft 6 in	1 ft 6 in	HERS :	2006	None
	7	7	S	4	Metal	Double (Clea	r) Yes	03	0 5	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS :	2006	None
	_	3	E	1	Metal	Double (Clea	r) Yes	03	0 5	Ν	15 ft²	1 ft 6 in	1 ft 6 in	HERS 2	2006	None
	_)	E	1	Metal	Double (Clea	•	03	0 5	N	15 ft²	7 ft 6 in	1 ft 6 in	HERS :		None
								GA	RAGE							
V		#		Floor	Area	Cei	ling Area	Exposed	Wall Pei	imeter	Avg W	all Height	Expose	d Wall In	sulation	
	_	1	520	3595	58889 fl	520 3	5958889 ft²	5	6 5 ft		1	0 ft		1		
,,,,								INFILT	RATIC	N						
#	Sco	pe		M	ethod		SLA C	FM 50	ELA	E	qLA	ACH	ACH	1 50		
	BySp				sed SL	Α (899 9	104 30		06 15	0 2771	5 6			
 					=		ł	HEATING	G SYS	ГЕМ						
V		#	Syst	em T	уре		Subtype			Efficienc	у	Capacity			Block	Ducts
	_	1	Elec	tric He	eat Pun	np	None			HSPF 7	7 42	3 kBtu/hr			1	sys#1

				•	COOL	ING SYS	TEM					`		
V		stem Type		Subtype			Efficiency	Capacity	Air F		ℲR	Block	Du	
	1 Ce	ntral Unit		None	· · · · · · · · · · · · · · · · · · ·	S	EER [,] 18 5	6423 kBtu/h	r 1269	ctm 0	75	1	sys	;#1
					HOT W	ATER SY	STEM						· · · · · · · · · · · · · · · · · · ·	
$\sqrt{}$	# 5	System Type	SubType	Location		Ca		Use	SetPnt			servatio	1	
<u>-,</u>	1 E	Electric	None	Rooms	sInBlock10 92	80 (gal	60 gal	120 deg			None		of this columns is
				S	OLAR HO	T WATEF	SYSTE	M						
	FSEC Cert #	Company Na	ame		System	Model #	Co	llector Mode		llector \rea	Stora Volun	•	FEF	
	None	None								ft²				
. ,						DUCTS		- HACST	 			· · · · · · · · · · · · · · · · · · ·		Essential Services
\checkmark	#	Supp Location R-	-	Locat	Return ion Area	Leaka	де Туре	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVA Heat	AC # Cool
	1	Attic	6 503 ft ²	Atti	c 100 1 ft	DSE	=0 88	Garage	0 0 cfm	0 00 %	0 00	0 60	1	1
					TEMI	PERATU	RES							
Program	able Ther	mostat Y			Ceiling Fans	S								
Cooling Heating Venting	[X] Jan [X] Jan [X] Jan	[X] Feb [X] Feb [X] Feb	[X] Mar [X] Mar [X] Mar	X Apr X Apr X Apr	[X] May [X] May [X] May	[X] Jun [X] Jun [X] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	[X] Ser [X] Ser [X] Ser		oct oct oct	[X] Nov [X] Nov [X] Nov	XXX	Dec Dec Dec
Thermosta Schedule		e HERS 200	6 Reference 1	2	3 4	5	Но 6	ours 7	8	9	10	11	1	12
Cooling (V	/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	8	30 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	7 7	78 78
Heating (V	VD)	AM PM	66 68	66 68	66 66 38 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 86
Heating (V	VEH)	AM PM	66 68		66 66 38 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	38 36

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

ADDRESS.	PERMIT#
LC, FL, 32025-	

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* = 80

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

, LC, FL, 32025-

1	New construction or exist	New (F	rom Plans)	9	Wall Types	Insulation		rea		
2	Single family or multiple family		Single-family			a Frame - Wood, Exterior b Frame - Wood, Adjacent	R=13 0 R=13 0		00 ft² 33 ft²	
3	Number of units, if multip	le family	1			c N/A	R=	0,0	ft²	
4	Number of Bedrooms		3		41	d N/A	R≓	ft²		
5	Is this a worst case?		No		70	Ceiling Types a Under Attic (Vented)	Insulation R≒30 0		rea 00 ft²	
6	Conditioned floor area (ft²	")	2012			b N/A	R≔		ft²	
7	Windows** a U-Factor SHGC	Description Dbl, U=0 30 SHGC=0 50		Area 339 33 ft²	1	c. N/A I Ducts a Sup Attic, Ret. Attic, AH Garage	R=	R 6		
	b U-Factor SHGC c U-Factor	N/A N/A		ft² ft²	12	2 Cooling systems a Central Unit	kBtu/hr 42 3	Effic SEER	iency 18 50	
	SHGC d U-Factor SHGC Area Weighted Average C Area Weighted Average S	N/A Overhang Depth		ft² 4 288 ft. 0 500		Heating systems a Electric Heat Pump	kBtu/hr 42 3	Effic	iency F 7 70	
8	Floor Types a Slab-On-Grade Edge In b N/A c N/A	Insulation Area R=5 0 2012 00 ft 2 R= ft 2 R= ft 2		On-Grade Edge Insulation R=5 0 2012 00 ft² a Electric R= ft² h Conservation fe		a Electric b Conservationfeatures None	Cap 80 gallo EF 0			
					1	5 Credits			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.