


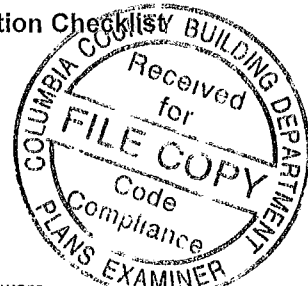
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Glass/Floor Area 0 208	Total Proposed Modified Loads 36 86 Total Standard Reference Loads 46 18	PASS
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<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code</p> <p>PREPARED BY <u>Daniel Shaleeh</u></p> <p>DATE <u>12-16-13</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code</p> <p>OWNER/AGENT <u>[Signature]</u></p> <p>DATE <u>12-16-13</u></p>	<p>Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code</p> <p>Before construction is completed this building will be inspected for compliance with Section 553 908 Florida Statutes</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL _____</p> <p>DATE _____</p>
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- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



PROJECT

Title	The Bristol	Bedrooms	3	Address Type	Street Address
Building Type	FLProp2010	Conditioned Area	2182	Lot #	
Owner	N/A	Total Stories	1	Block/SubDivision	
# of Units	1	Worst Case	No	PlatBook	
Builder Name	Aaron Simque Homes	Rotate Angle	0	Street	
Permit Office	Columbia County	Cross Ventilation	No	County	Columbia
Jurisdiction		Whole House Fan	No	City, State, Zip	LC ,
Family Type	Single-family				FL , 32025-
New/Existing	New (From Plans)				
Comment					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2182	20729

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	RoomsInBlock1	2182	20729	Yes	3	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulation	RoomsInBlock1	229 ft	5	2182 ft²	----	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2885 ft²	800 ft²	Medium	0.96	No	0.9	No	0	33.7

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral ceiling	Vented	303	2400 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	RoomsInBlock1	30	2400 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
	1	E	Exterior	Frame - Wood	RoomsInBlock	13	35	8	9	6	338 8333		0 23	0 75	0
	2	N	Exterior	Frame - Wood	RoomsInBlock	13	42	0	9	6	399 ft²		0 23	0 75	0
	3	W	Exterior	Frame - Wood	RoomsInBlock	13	57	10	10	6	607 25 ft²		0 23	0 75	0
	4	S	Exterior	Frame - Wood	RoomsInBlock	13	58	4	9		525 ft²		0 23	0 75	0
	5	E	Garage	Frame - Wood	RoomsInBlock	13	22		9		198 ft²		0 23	0 01	0
	6	E	Garage	Frame - Wood	RoomsInBlock	13	18		9		162 ft²		0 23	0 01	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
	1	E	Insulated	RoomsInBlock	None	0 460000	2	8	6	8	17 77777

WINDOWS

Orientation shown is the entered, Proposed orientation

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
	1	E	1	Metal	Double (Clear)	Yes	0 3	0 5	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	2	E	1	Metal	Double (Clear)	Yes	0 3	0 5	N	40 ft²	7 ft 6 in	1 ft 0 in	HERS 2006	None
	3	E	1	Metal	Double (Clear)	Yes	0 3	0 5	N	51 ft²	11 ft 6 in	1 ft 6 in	HERS 2006	None
	4	N	2	Metal	Double (Clear)	Yes	0 3	0 5	N	6 ft²	1 ft 0 in	8 ft 0 in	HERS 2006	None
	5	N	2	Metal	Double (Clear)	Yes	0 3	0 5	N	15 ft²	1 ft 0 in	8 ft 0 in	HERS 2006	None
	6	N	2	Metal	Double (Clear)	Yes	0 3	0 5	N	36 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	7	W	3	Metal	Double (Clear)	Yes	0 3	0 5	N	72 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	8	W	3	Metal	Double (Clear)	Yes	0 3	0 5	N	144 ft²	9 ft 6 in	1 ft 6 in	HERS 2006	None
	9	S	4	Metal	Double (Clear)	Yes	0 3	0 5	N	54 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation
	1	704 ft²	704 ft²	68 667 ft	9 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	BySpaces	Proposed SLA	0 000360	2060 43	113 114	212 729	0 27719	5 96390

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Electric Heat Pump	None	HSPF 7 7	45 9 kBtu/hr	1	sys#1

COOLING SYSTEM														
✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
	1	Central Unit	None	SEER 20	45.9 kBtu/hr	1377 cfm	0.75	1	sys#1					

HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
	1	Electric	None	RoomsInBlock10	92	80 gal	60 gal	120 deg	None					

SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF							
	None	None						ft²						

DUCTS														
✓	#	---- Supply ----			---- Return ----		Leakage Type	Air Handler CFM 25	Percent Leakage	QN	RLF	HVAC #		
		Location	R-Value	Area	Location	Area						Heat	Cool	
	1	Attic	6	545.5 ft²	Attic	109.1 ft²	DSE=0.88	Garage	0.0 cfm	0.00 %	0.00	0.60	1	1

TEMPERATURES														
Programable Thermostat Y					Ceiling Fans									
Cooling	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Heating	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Venting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Thermostat Schedule	HERS 2006 Reference	Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	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 (WEH)	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 (WD)	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 (WEH)	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 #.

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 existing	New (From Plans)	9 Wall Types	Insulation	Area
2 Single family or multiple family	Single-family	a Frame - Wood, Exterior	R=13 0	1870 10 ft²
3 Number of units, if multiple family	1	b Frame - Wood, Adjacent	R=13 0	360 00 ft²
4 Number of Bedrooms	3	c N/A	R=	ft²
5 Is this a worst case?	No	d N/A	R=	ft²
6 Conditioned floor area (ft²)	2182	10 Ceiling Types	Insulation	Area
7 Windows**	Description	a Under Attic (Vented)	R=30 0	2400 00 ft²
a U-Factor	DbI, U=0 30	b N/A	R=	ft²
SHGC	SHGC=0 50	c N/A	R=	ft²
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SHGC		a Sup Attic, Ret. Attic, AH Garage	6	545 5
c U-Factor	N/A	12 Cooling systems	kBtu/hr	Efficiency
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b N/A	R=	ft²		
c N/A	R=	ft²		
		b Conservation features		
		None		
		15 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