RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include: This checklist A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater). Energy Performance Level (EPL) Display Card (one page) HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7 Mandatory Requirements (five pages) Required prior to CO for the Performance Method: Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page) A completed Envelope Leakage Test Report (usually one page) If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 200559 Baughn Street: Wilson Springs		Builder Name: Permit Office:	
City, State, Zip: Ft White , FL ,		Permit Number:	
Owner: Ron Baughn		Jurisdiction:	Br.
Design Location: FL, Gainesville		County: Columbia (Florida Clima	ate Zone 2)
New construction or existing	New (From Plans)	9. Wall Types (1120.0 sqft.)	Insulation Area
2. Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=13.0 1120.00 ft ²
Number of units, if multiple family	1	b. N/A c. N/A	R= ft²
Number of Bedrooms	2	d. N/A	R= ft² R= ft²
11 11 11 21 21 11 11 11 11 11 11 11 11 1	A200	10. Ceiling Types (1310.0 sqft.)	R= π² Insulation Area
5. Is this a worst case?	Yes	a. Under Attic (Vented)	R=38.0 1310.00 ft ²
6. Conditioned floor area above grade (ft²)	1144	b. N/A c. N/A	R= ft²
Conditioned floor area below grade (ft²)	0	11. Ducts	R= ft² R ft²
7. Windows(134.7 sqft.) Description	Area	a. Sup: Attic, Ret: Main, AH: Main	6 228.8
a. U-Factor: Sgl, U=0.30	90.00 ft ²		
SHGC: SHGC=0,20	1107.02	12. Cooling systems	kBtu/hr Efficiency
b. U-Factor: Dbl, U=0.30 SHGC: SHGC=0.20	44.67 ft²	The state of the s	
c. U-Factor: N/A	ft²	COUNT	ONO
SHGC:	***	13. Heating systems	RBtu/hr Efficiency
d. U-Factor: N/A	ft²	a. Electric Heat Pump	20.0 HSPF:8.50
SHGC:			
Area Weighted Average Overhang Depth	22.00		OPY
Area Weighted Average SHGC:	0.200	14. Hot water systems a. Electric	Cap: 40 gallons
8. Floor Types (1144.0 sqft.)	Insulation Area	Pilan	EF: 0.950
a. Slab-On-Grade Edge Insulation	R=0.0 1144.00 ft ²	b. Conservation features b. EXAM	INER
b. N/A c. N/A	R= ft² R= ft²	None	
C. IVA	Ν- π	15. Credits	Pstat
Glass/Floor Area: 0.118	Total Proposed Modified	d Loads: 36.26	DACC
Glass/Floor Area. 0.116	Total Baseline	Loads: 36.11	PASS
I hereby certify that the plans and spec	ifications covered by	Review of the plans and	THE STAN
this calculation are in compliance with		specifications covered by this	O TO
Code.		calculation indicates compliance	
*.		with the Florida Energy Code.	5 1111 0
PREPARED BY:		Before construction is completed	
DATE:		this building will be inspected for	O S
		compliance with Section 553.908 Florida Statutes.	* * * * * * * * * * * * * * * * * * * *
I hereby certify that this building, as de-	signed, is in compliance	Florida Statutes.	A CO TRUST
with the Florida Energy Code.			GOD WE TRUDGE
OWNER/AGENT:		BUILDING OFFICIAL:	
DATE:		DATE:	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

				PRO	JECT						(4)		
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	200559 Baughr User Ron Baughn 1 Single-family New (From Plan		Bedrooms Conditions Total Stori Worst Cas Rotate An Cross Ver Whole Ho	ed Area: es: ee: gle: tilation:	2 1144 1 Yes 90			Lot # Bloc Plate Stree Cour	k/Subdivi Book: et:	ision:	Street Addr Wilson Spri Columbia Ft White ,		
				CLIM	ATE								
	sign Location	TMY Site			Design T 97.5 %	emp 2.5 %		sign Tem r Sumn		leating gree Day	Desig ys Moistu		Temp
FL,	, Gainesville	FL_GAINESVILLE	_REGI		32	92	70	75	1	1305.5	51	М	edium
				BLO	CKS								
Number	Name	Area	Volume										
1	Block1	1144	10181										
				SPA			222 33		2000000				
Number 1	Name Main	Area 1144	Volume 10181.6	Kitchen Yes	Occup	ants 4	Bedrooi 2	ns I	nfil ID	Finishe	ed Coo		Heated
	THUM!		10101.0	FLO						163		'	165
V #	Floor Type	Space	Peri	meter	R-Valu	10	Area				Tile W	ood Ca	rnet
Y	ab-On-Grade Edge		ain 140		T-Vai		1144 ft²).4
				RO	OF								
√ #	Туре	Materials	Roof Area	Gat Are		Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Gable or shed	Composition shing	les 1279 ft²	286	ft²	Dark	N	0.92	No	0.9	No	0	26.6
				ATT	ГІС								
√ #	Туре	Ventil	ation	Vent Ra	atio (1 in)		Area	RBS	IR	сс			
1	Full attic	Ven			00		1144 ft²	N		N			
				CEIL	ING								
√ #	Ceiling Type		Space	R-Val	ue	Ins T	уре	Area	Fran	ning Fra	ac Truss	Туре	
1	Under Attic (Ver	nted)	Main	38		Blow	n 1	310 ft ²		0	W	ood	

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INPUT SUMMARY CHECKLIST REPORT

							W	ALLS							
V #	ŧ 0	rnt	Adjac		Туре	Space	Cavity	Wice Ft	ith In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	
1		=>E	Exterio		me - Wood	Mai		44	25765	8	352.0 ft²	TX-Value	0.23	0.75	. Grade:
2	E	=>S	Exterio	r Fra	me - Wood	Mai	1 13	26		8	208.0 ft ²		0.23	0.75	0
3	S=	=>W	Exterio	r Fra	me - Wood	Mai	1 13	44		8	352.0 ft²		0.23	0.75	0
4	W	=>N	Exterio	r Fra	me - Wood	Mai	13	26		8	208.0 ft ²		0.23	0.75	0
							DC	ORS							
\vee	4	#	Orn	nt	Door Type	Space			Storms	U-Val	ue F	Width t In	Height Ft	ln	Area
		1	N=>	E	Insulated	Main			None	.4	2		6	8 1	13.3 ft²
		2	S=>	W	Insulated	Main			None	.4	3		6	8	20 ft²
		3	W=>	·N	Insulated	Main			None	.4	2	8	6	8 1	17.8 ft²
					Orientatio	on shown is t		DOWS		anged to W	orst Case				
,			Wall				io ontorou or	iomation	() ()	anged to TT	And the second second	rhang			
V	#	Or		Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	de	Screenin
	. 1	N=	>E 1	Metal	Low-E Double	Yes	0.3	0.2	N	8.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
	2	N=	>E 1	Metal	Low-E Double	Yes	0.3	0.2	N	26.7 ft ²	1 ft 6 in	0 ft 6 in	None		None
	. 3	N=	>E 1	Metal	Low-E Double	Yes	0.3	0.2	N	10.0 ft ²	1 ft 6 in	0 ft 6 in	None	9	None
	. 4	S=>	-W 3	Metal	Low-E Single	Yes	0.3	0.2	N	90.0 ft ²	1 ft 6 in	0 ft 6 in	None	•	None
							INFILT	RATIO	N						
:	Scop	е	1	Method		SLA	CFM 50	ELA	E	EqLA	ACH	ACH	H 50		
W	noleh	ouse	Prop	osed AC	CH(50) .	000396	1187.9	65.21	1:	22.64	.1554	5	7		
							HEATIN	G SYS	TEM						
$\sqrt{}$	7	# \$	System ⁻	Туре	2	Subtype	Speed		Efficience	су	Capacity		E	Block	Ducts
	a	1 1	Electric I	Heat Pur	np/	None	Singl		HSPF:8	.5 2	0 kBtu/hr			1	sys#1
							COOLIN	G SYS	TEM						
$\sqrt{}$	1	# \$	System 7	Туре		Subtype	Subtype		Efficiency	y Capac	ity A	ir Flow S	HR E	Block	Ducts
		1 (Central L	Jnit/	9	None	Singl	\$	SEER: 14	4 20 kBtu	ı/hr 60	0 cfm 0	.75	1	sys#1
							HOT WAT	ER SY	STEM						
$\sqrt{}$	7	#	Systen	n Type	SubType	Location	EF	Ca	р	Use	SetPn	t	Conse	rvation	
	10	1	Electric	С	None	Main	0.95	40 g	al	50 gal	120 de	~	No		

INPUT SUMMARY CHECKLIST REPORT

				S	OLAR HO	OT WATER	R SYSTI	EM						
\checkmark	FSEC Cert #	Company	Name		Systen	n Model#	C	ollector Mode		llector Area	Stor	•	FEF	
	None	None								ft²				
						DUCTS								
\checkmark	#		ipply R-Value Area	Locat	Return ion Area	Leaka	ge Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC # Cool
	1	Attic	6 228.8 f	t Mai	n 57.2 ft	² Default	Leakage	Main	(Default)	(Default)	9.		1	1
					TEN	IPERATU	RES							
Program	able Then	nostat: Y			Ceiling Far	ns:								
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[X] Feb [X] Feb) [X] Mar	Apr Apr (X) Apr	[] May [] May [] May	[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 Dec Dec
Thermosta		e: HERS 2	006 Reference				Н	ours						
Schedule 7	Гуре		1	2	3 4	5	6	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	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	78 78
Heating (V	VD)	AM PM	66 68	66 68	66 66 68 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 6 68 6	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 86
						MASS								
Ma	ass Type			Area		Thickness		Furniture Fra	ction	Sp	ace			
De	fault(8 lbs	/sq.ft.		0 ft²		0 ft		0.3		i d	Main			

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ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level a) Supply ducts R 6.0
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Main
3. No. of units (if multiple-family)	31_	c) And location wall
4. Number of bedrooms	42	13. Cooling system: Capacity 20.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	61144	d) Room unit/PTAC EER
7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area 2. Claritation	7a. 0.300 7b. 0.200 7c. 134.7	14. Heating system: Capacity 20.0 a) Split system heat pump HSPF b) Single package heat pump HSPF
Skylights a) U-factor:(weighted average)	8a. <u>NA</u>	c) Electric resistance COP d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8bNA	e) Gas furnace, LPG AFUE
9. Floor type, insulation level: a) Slab-on-grade (R-value) b) Wood, raised (R-value) c) Concrete, raised (R-value)	9a0.0 9b 9c	15. Water heating system a) Electric resistance EF 0.95
10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent:	10A113.0 10A2	b) Gas fired, natural gas EF c) Gas fired, LPG EF d) Solar system with tank EF e) Dedicated heat pump with tank EF f) Heat recovery unit HeatRec% g) Other
 Wood frame (Insulation R-value) Masonry (Insulation R-value) 	10B1 10B2	
11. Ceiling type and insulation levela) Under atticb) Single assemblyc) Knee walls/skylight wallsd) Radiant barrier installed	11a. 38.0 11b. 11c. No	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Method No No Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	gy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or excedisplay card will be completed based on installed).	eeded) in this home befor	
Builder Signature:		Date:
Address of New Home: Wilson Springs		City/FL Zip: Ft White, FL

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Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	Wilson Springs	Permit Number:	
	Ft White, FL,		

IVIAI	NDATORT REQUIRENTS See individual code sections for full details.
\checkmark	SECTION R401 GENERAL
	R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
	R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
	Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
	R402.4.1 Building thermal envelope building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
	R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
	R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
	Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.
	During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open.
	R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	R402.4.3 Fenestration air leakageWindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Exception: Site-built windows, skylights and doors.

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MANDATORY REQUIREMENTS - (Continued)	
R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or encroom, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated w passes through conditioned space to a minimum of R-8.	closed in a Table e fully
Exceptions:	
 Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. 	
R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.	
R403.1 Controls. SECTION R403 SYSTEMS	
R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling	system.
R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have control that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.	ols
R403.3.2 Sealing (Mandatory) All ducts, air handlers, filter boxes and building cavities that form the primary air containment passage for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.	
Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553 (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak faccordance with Section R403.3.3.	993(5) or ree" in
R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percentage of the design airflow rate when tested in accordance with ASHRAE 193.	ent of
R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:	
 Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. 	including the mai
 Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during test. 	the
Exceptions:	
 A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the buildir thermal envelope. 	g
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.	
A written report of the results of the test shall be signed by the party conducting the test and provided to the code officia	ı.
R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.	
R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.	
R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that of by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation material. Adhesive tape shall not be permitted.	aused of the
R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)Heated water circulation systems shall be accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.	e in
R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibing Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temporary when there is no demand for hot water.	ted. within the
R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such sy automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordations when heated water is used in the occupancy.	

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MA	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees of true south.
	R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
	R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
	 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUN (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

a.

1	*
MA	NDATORY REQUIREMENTS - (Continued)
	R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
	The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.
	Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
	Exceptions:
	 Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
	When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
	R403.7.1.2 Heating equipment capacity.
	R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
	R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
	R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
	R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
	 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
	 A variable capacity system sized for optimum performance during base load periods is utilized.
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
	R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	R403.10 Pools and permanent spa energy consumption (Mandatory). The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
	Exceptions:
	 Where public health standards require 24-hour pump operation.
	Pumps that operate solar- and waste-heat-recovery pool heating systems.
	Where pumps are powered exclusively from on-site renewable generation.
	R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
	Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.
	R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

	R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EI	LECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
	Exception: Low-voltage lighting.
	R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

2017,- AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Street:

200559 Baughn

Wilson Springs

City, State, Zip: Owner:

Ft White, FL, Ron Baughn

Builder Name: Permit Office:

Permit Number: Jurisdiction:

Owner: Design Location:	Ron Baughn FL, Gainesville	Jurisdiction:	liction:			
COMPONENT	All	R BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA			
General requirements	The exterior thermal er	r shall be installed in the building envelope. nvelope contains a continuous air barrier. air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	1		
Ceiling/attic	insulation and any gap	ropped ceiling/soffit shall be aligned with the s in the air barrier shall be sealed. down stairs or knee wall doors to aces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.			
Walls		ndation and sill plate shall be sealed. plate and the top of exterior walls shall be aled.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.			
Windows, skylights and doors	The space between wing skylights and framing s	ndow/door jambs and framing, and shall be sealed.				
Rim joists	Rim joists shall include	the air barrier.	Rim joists shall be insulated.			
Floors (including above-garage and cantilevered floors)	The air barrier shall be insulation.	installed at any exposed edge of	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			
Crawl space walls		nted crawl spaces shall be covered with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace			
Shafts, penetrations		etrations, and flue shafts opening to ed space shall be sealed.				
Narrow cavities			Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.			
Garage separation	Air sealing shall be pro	vided between the garage and conditioned space	es.			
Recessed lighting	Recessed light fixtures shall be sealed to the d	installed in the building thermal envelope drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.			
Plumbing and wiring			Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.			
Shower/tub on exterior wall		at exterior walls adjacent to showers and m from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.			
Electrical/phone box or exterior walls	The air barrier shall be boxes or air-sealed box	installed behind electrical or communication ses shall be installed.				
HVAC register boots	HVAC register boots the be sealed to the sub-flo	nat penetrate building thermal envelope shall por or drywall.				
Concealed sprinklers	sealed in a manner tha Caulking or other adhe	ealed, concealed fire sprinklers shall only be it is recommended by the manufacturer. sive sealants shall not be used to fill voids cover plates and walls or ceilings.				

between fire sprinkler cover plates and walls or ceilings.

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

A 10 1 1

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:	Permit #:
Jok	Information	
Bui	lder: Community:	Lot: NA
Add	dress: Wilson Springs	
City	y: Ft White State	te: FL Zip:
Air	Leakage Test Results Passing results must meet	et either the Performance, Prescriptive, or ERI Method
C	changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir PERFORMANCE or ERI METHOD-The building or dwelling unit sh	shall be tested and verified as having an air leakage rate of not exceeding be) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
	CFM(50) x 60 ÷ 10182 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.	Method for calculating building volume: Retrieved from architectural plans Code software calculated installation Field measured and calculated
Dur 1. E con 2. C mea 3. II 4. E 5. H	sting shall be conducted by either individuals as defined in Section 553. 9.105(3)(f), (g), or (i) or an approved third party. A written report of the revided to the code official. Testing shall be performed at any time after criting testing: Exterior windows and doors, fireplace and stove doors shall be closed, but of measures.	but not sealed, beyond the intended weatherstripping or other infiltration mpers shall be closed, but not sealed beyond intended infiltration control entilators shall be closed and sealed.
Te	esting Company	
I h	ompany Name: nereby verify that the above Air Leakage results are in accordar nergy Conservation requirements according to the compliance r	ance with the 2017 6th Edition Florida Building Code
Si	ignature of Tester:	Date of Test:
Pr	rinted Name of Tester:	
Lie	cense/Certification #:	Issuing Authority:

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Residential System Sizing Calculation

Summary Project Title:

Ron Baughn Wilson Springs Ft White, FL

200559 Baughn

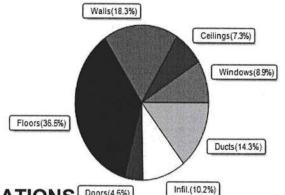
2020-05-27

Location for weather data: Gaine	sville, FL -	Defaults: L	_atitude(29.7) Altitude(152 ft.) Tem	np Range(M))
Humidity data: Interior RH (50%	(a) Outdoor	wet bulb (7	77F) Humidity difference(51gr.)		
Winter design temperature(TMY3	99%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	18119	Btuh	Total cooling load calculation	16766	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	110.4	20000	Sensible (SHR = 0.75)	104.6	15000
Heat Pump + Auxiliary(0.0kW)	110.4	20000	Latent	206.0	5000
			Total (Electric Heat Pump)	119.3	20000

WINTER CALCULATIONS

Winter Heating Load (for 1144 sqft)

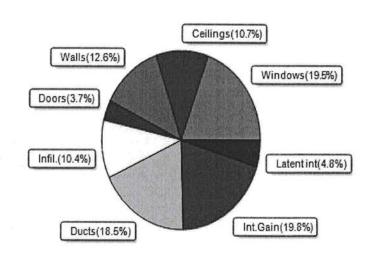
Load component			Load	
Window total	135	sqft	1616	Btuh
Wall total	934	sqft	3317	Btuh
Door total	51	sqft	818	Btuh
Ceiling total	1310	sqft	1330	Btuh
Floor total	1144	sqft	6608	Btuh
Infiltration	42	cfm	1848	Btuh
Duct loss			2583	Btuh
Subtotal			18119	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			18119	Btuh



SUMMER CALCULATIONS Doors(4.5%)

Summer Cooling Load (for 1144 sqft)

Load component			Load	
Window total	135	sqft	3271	Btuh
Wall total	934	sqft	2114	Btuh
Door total	51	sqft	613	Btuh
Ceiling total	1310	sqft	1795	Btuh
Floor total			0	Btuh
Infiltration	32	cfm	658	Btuh
Internal gain			3320	Btuh
Duct gain		- 1	2566	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			14339	Btuh
Latent gain(ducts)		- 1	535	Btuh
Latent gain(infiltration)			1092	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occup	ants/othe	r)	800	Btuh
Total latent gain			2428	Btuh
TOTAL HEAT GAIN			16766	Btuh





EnergyGauge® System Sizing PREPARED BY: ____ DATE:

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System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Ron Baughn Wilson Springs Ft White, FL Project Title: 200559 Baughn Building Type: User

2020-05-27

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%) This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Whole House

Window	Panes/Type	Frame			Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal	0.30	W	8.0	12.0	96 Btuh
2	2, NFRC 0.20	Metal	0.30	W	26.7	12.0	320 Btuh
3	2, NFRC 0.20	Metal	0.30	W	10.0	12.0	120 Btuh
4	1, NFRC 0.20	Metal	0.30	E	90.0	12.0	1080 Btuh
	Window Total				134.7(sqft)		1616 Btuh
Walls	Туре	Ornt. U	eff.	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Frame - Wood	- Ext (0	.089)	13.0/0.0	294	3.55	1044 Btuh
2	Frame - Wood		.089)	13.0/0.0	208	3.55	738 Btuh
3	Frame - Wood	- Ext (0		13.0/0.0	242	3.55	859 Btuh
4	Frame - Wood	- Ext (0	.089)	13.0/0.0	190	3.55	675 Btuh
	Wall Total				934(sqft)		3317 Btuh
Doors	Туре	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exte		.400)		13	16.0	213 Btuh
2	Insulated - Exte		.400)		20	16.0	320 Btuh
3	Insulated - Exte	rior, n (0	.400)		18	16.0	284 Btuh
	Door Total				51(sqft)		818Btuh
Ceilings	Type/Color/Surf		eff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/S	Shing (0.0	25)	38.0/0.0	1310	1.0	1330 Btuh
	Ceiling Total				1310(sqft)		1330Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	140.0 ft(per	im.) 47.2	6608 Btuh
	Floor Total		3.1 %		1144 sqft		6608 Btuh
				E	Envelope Subto	otal:	13689 Btuh
							7
Infiltration	Туре	Wholeh	nouse A	CH Volume(cuft) Wall Rat	tio CFM=	
	Natural		0.	25 10182	1.00	42.2	1848 Btuh
Duct load	Average sealed	, R6.0, Sup	oply(Att)), Return(Con) (DLM	l of 0.166)	2583 Btuh
All Zones				Sensible	Subtotal All Z	ones	18119 Btuh

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Manual J Winter Calculations

Residential Load - Component Details (continued)

Ron Baughn Wilson Springs Ft White, FL

1. Electric Heat Pump

Project Title: 200559 Baughn Building Type: User

2020-05-27

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	18119 Btuh 0 Btuh 18119 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values) or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults) U - (Window U-Factor) HTM - (ManualJ Heat Transfer Multiplier)

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20000 Btuh

Version 8

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System Sizing Calculations - Summer

Residential Load - Whole House Component Details Project Title:

Ron Baughn Wilson Springs Ft White, FL

200559 Baughn

2020-05-27

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr. This calculation is for Worst Case. The house has been rotated 270 degrees.

Component Loads for Whole House

		Тур	e*			Over	hang	Wind	low Area	a(sqft)	H	ITM	Load	
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.20, 0.30	No	No	W	1.5ft.	0.5ft.	8.0	6.0	2.0	10	25	110	Btuh
2	2 NFRC	0.20, 0.30	No	No	W	1.5ft.	0.5ft.	26.7	3.0	23.7	10	25	621	Btuh
3	Construction (Construct)	0.20, 0.30		No	W	- Committee Comm	0.5ft.	10.0	3.0	7.0	10	25	205	Btuh
4	1.54	0.20, 0.30	No	No	Е	1.5ft.	0.5ft.	90.0	13.4	76.6	10	25	2046	
	Excursio	The state of the s							1.222					Btuh
	Windov	w Total						135 (3271	Btuh
Walls	Type				U	-Value			Area	(sqft)		HTM	Load	
2	100							Sheath				1		
1		Wood - Ext				0.09		0.0\0	7777	4.0		2.3	665	Btuh
2	1000	Wood - Ext				0.09		0/0.0		8.0		2.3	471	Btuh
3		Wood - Ext				0.09		0/0.0		2.0		2.3	548	Btuh
4	1	Wood - Ext				0.09	13.0	0/0.0	7.5	0.2		2.3	431	
	Wall To	otal								34 (sqft)			2114	Btuh
Doors	Type								Area	(sqft)		HTM	Load	
1	Insulated	d - Exterior							13	3.3		12.0	160	Btuh
2		d - Exterior								0.0		12.0	240	Btuh
3		d - Exterior			17.8 12.0				213	Btuh				
	Door To									1 (sqft)			613	Btuh
Ceilings	Type/C	color/Surf	face		U	-Value	Э	R-Value	e Area	(sqft)		HTM	Load	
1	Vented A	Attic/DarkSh	ningle			0.025		38.0/0.0	131	0.0		1.37	1795	Btuh
	Ceiling	Total							131	0 (sqft)			1795	Btuh
Floors	Туре						R-\	/alue	Si	ze		HTM	Load	
1	Slab On	Grade						0.0	11	44 (ft-perir	neter)	0.0	0	Btuh
	Floor T	otal								.0 (sqft)		200000		Btuh
										0 (0411)				Dian
									Е	nvelope	Subtota	I:	7794	Btuh
nfiltration	Type				Aver	age A	CH	Volu	me(cuf	t) Wall R	atio	CFM=	Load	
	Natural	ı				-9-1	0.19	· Old	10182			31.6	658	Btuh
Internal	1 Tatal a					Occur	The second second second							Diul
						Occup				ccupant	F	Appliance	Load	D
gain							4		X 23	0 +		2400	3320	Btuh
									S	ensible E	Envelope	e Load:	11773	Btuh
Duct load	Average	sealed, Su	pply(R	6.0-A	ttic), F	Return(F	R6.0-C	ondi)		(DGI	M of 0.2	18)	2566	Btuh
									Ser	nsible Lo	oad All	Zones	14339	Btuh

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Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A

Ron Baughn Wilson Springs Ft White, FL

200559 Baughn

2020-05-27

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	11773	12:22 (c)
	Sensible Duct Load Total Sensible Zone Loads	2566 14339	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	14339	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1092	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	535	Btuh
, .	Latent occupant gain (4.0 people @ 200 Btuh per person)	800	Btuh
	Latent other gain	0	Btuh
	Latent total gain	2428	Btuh
	TOTAL GAIN	16766	Btuh

EQUIPMENT		
1. Central Unit	#	20000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed For Draperies: Assume medium weave, half closed For Roller shades: Assume translucent, half closed (IS - Insect screen: none(N), Full(F) or Half(1/2))

(Ornt - compass orientation)



Version 8

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