FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 8 Crosswinds Street: City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Gainesville	Builder/Name: Rhett Smithey Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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? 6. Conditioned floor area above grade (ft²) 7. Windows (240.0 sqft.) Description a. U-Factor: Dbl, U=0.35 SHGC: SHGC=0.26 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types (1595.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A R= ft²	10. Wall Types 1557.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A d. N/A 11. Ceiling Types (1674.8 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump 16. Credits Insulation Area R= 162
Glass/Floor Area: () 150	dified Loads: 43.67 eline Loads: 43.70
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: A / 12 / 2022 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.	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.

- 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 5.00 ACH50 (R402.4.1.2).

BUILDING OFF

DATE:

COD WE TR

OWNER/AGENT:_

DATE: .

INPUT SUMMARY CHECKLIST REPORT

				PROJEC	т							
Title: Building Ty Owner Nar # of Units: Builder Na: Permit Offi Jurisdiction Family Typ New/Existi Comment:	me: 1 me: Rhett Smithey ice: Columbia Coun n: pe: Detached ing: New (From Plan	ty	Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Vent Whole Hou	s: 1 e: N e: 0 ilation: Y	595 No		Lot # Block PlatE Stree Cour	d/Subdivis Book: et:	8 sion: Cr Cc	t Informati osswinds olumbia ke City , , 3202		
Control of State Co.	All Control of the Co			CLIMAT	E	2-1-1-2						ternial co
√	Design Location	TMY Site		Des 97.5	sign Temp % 2.5 %		esign Tem er Summ		eating ree Days		Daily e Ra	Temp
	FL, Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	M	edium
		t-o. All Illianos post		BLOCK	S							
Number	Name	Area	Volume									
1	Block1	1595	14355									
				SPACE	S							
Number	Name	Area	Volume F	Citchen C	Occupants	Bedro	oms I	nfil ID	Finished	Coo	led	Heate
1	Main	1595	14355	Yes	6	3	1	ı	Yes	Yes		Yes
				FLOOR	S							
$\sqrt{}$	# FloorType	Space	Peri	meter F	R-Value	Area				Tile Wo	od Ca	arpet
	1 Slab-On-Grade Edge	Insulation N	lain 177.	1 ft	0	1595 ft ²	2			0 ()	1
				ROOF								
\checkmark	# Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
	1 Hip	Composition shing	les 1783 ft²	O ft²	Medium	Υ	0.96	No	0.9	No	0	26.5
or mile were the				ATTIC								
\checkmark	# Type	Venti	lation	Vent Ratio	(1 in)	Area	RBS	IR	cc			
	1 Full attic	Ver	ited	300		1595 ft²	Υ	1	N			
				CEILIN	G							
V	# Ceiling Type		Space	R-Value	Ins Ty	/pe	Area	Fran	ming Frac	Truss	Туре	
	1 Under Attic (Ve	ented)	Main	38	Double B	Ratt	1674.75 ft²		0.11	Wo	ood	

FORM R405-2020 INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	. Ornf		Adjace	nt Wall	Type	Space	Cavity R-Value	Wid Et		Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade
1	S		xterior		ne - Wood	Main	13	17		9	153.0 ft²		0.23	0.75	0
2	W	E	xterior	Fran	ne - Wood	Main	13	8		9	72.0 ft²		0.23	0.75	0
3	s	Е	xterior	Fran	ne - Wood	Main	13	2	8	9	24.0 ft²		0.23	0.75	0
4	s	G	arage	Fran	ne - Wood	Main	13	21	8	9	195.0 ft ²		0.23	0.75	0
5	Ε	E	xterior	Fran	ne - Wood	Main	13	43		9	387.0 ft ²		0.23	0.75	0
6	N	E	xterior	Fran	ne - Wood	Main	13	24	4	9	219.0 ft ²		0.23	0.75	0
7	W	E	xterior	Fran	ne - Wood	Main	13	8		9	72.0 ft²		0.23	0.75	0
8	N	E	xterior	Fran	ne - Wood	Main	13	17		9	153.0 ft ²		0.23	0.75	0
9	W	E	xterior	Fran	ne - Wood	Main	13	31	4	9	282,0 ft²		0.23	0.75	0
							DO	ors							
$\sqrt{}$	#		Ornt		Door Type	Space			Storms	U-Va	ilue Ft	Width In	Height Ft	t In	Area
	. 1		S		Insulated	Main			None	.40	6 3		6	8	20 ft²
	. 2		S		Insulated	Main			None	.40	6 3		6	8	20 ft ²
et i i i a con						\		oows							
7	emires		Wall			Drientation sh	own is the e	nterea, F	roposed	onentatio		rhang			i de la composición della comp
$\sqrt{}$	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ade	Screenin
	1	s	1	Vinyl	Low-E Double	Yes	0.35	0.26	N	30.0 ft	2 10 ft 6 in	1 ft 0 in	None	9	None
	2	E	5	Vinyl	Low-E Double	Yes	0.35	0.26	Ν	30.0 ft	1 ft 6 in	1 ft 0 in	None	е	None
	3	Ν	6	Vinyl	Low-E Double	Yes	0.35	0.26	Ν	45.0 ft	1 ft 6 in	1 ft 0 in	None	е	None
	4	Ν	8	Metal	Low-E Double	Yes	0.35	0.26	N	60.0 ft	9 ft 6 in	1 ft 0 in	None	е	None
	_ 5	W	9	Vinyl	Low-E Double	Yes	0.35	0.26	Ν	75.0 ft	1 ft 6 in	1 ft 0 in	None	е	None
					11		GAI	RAGE	Maria Salara						
V	#	-10-2	Floo	r Area	Ceilin	g Area	Exposed	Wall Per	imeter	Avg.\	Wall Height	Expos	ed Wall Ins	sulation	
-	_ 1		498.3	3341 ft²	498.33	341 ft²	65	5.67 ft			9 ft		1		
Was illes		W.					INFILT	RATIO	N						
	Scope			/lethod		SLA	CFM 50	ELA		EqLA	ACH	۸۵	H 50		
W	/holehou	ise.		osed AC	H(50) 00	0286	1196.3	65.63		23.21	.1027		5		
							HEATING						-		Marie College
		0	stem T	`vno	0	ubtype	Speed		Efficien	21/	Capacity			Block	Ducts
1/	#	- 11													

INPUT SUMMARY CHECKLIST REPORT

					COOL	ING SYS	TEM						W. Control
V	# 5	System Type		Subtype	Sub	otype	Efficiency	Capacity	Air	Flow	SHR	Block	Ducts
	1 (Central Unit/		None	Sing	gle	SEER: 14	20.24 kBtu/	hr 600	cfm	0.7	1	sys#1
	11.,,,,				HOT W	ATER SY	STEM					DOM: US	
$\sqrt{}$	#	System Type	SubType	Locatio	n EF	Ca	ip	Use	SetPnt		Co	nservatio	n
	1	Electric	None	Garage	0.92	40 (gal	40 gal	120 deg			None	
				S	OLAR HO	T WATER	SYSTE	EM					unio Autoriano de la composición del composición de la composición
\checkmark	FSEC Cert #	Company N	ame		System	Model#	Co	ollector Model		ollector Area	Stor	age ume	FEF
	None	None								ft²			
808/810E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-	High control					DUCTS							
\checkmark	#	Sup Location F	oply R-Value Area	Locati	Return on Area	Leaka	geType	Air Handler	CFM 25 TOT	CFM2		RLF	HVAC #
	1	Attic	6 398.75	f Attic	79.75 ft	² Default	Leakage	Garage	(Default)	c(Defa	ult) c		1 1
					TEM	PERATU	RES						
Program	ableThe	rmostat: Y			Ceiling Fans	S:					/		
Cooling Heating Venting	[X] J	an [X] Feb	[] Mar [X] Mar [X] Mar	Apr Apr (X) Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Se [] Se [] Se	p [Oct Oct X) Oct	X Nov X Nov X Nov	Dec Dec
Thermosta		ule: HERS 20	06 Reference					ours					
Schedule T	ype		1	2	3 4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 80	78 7 80 7	78 78 78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	EH)	AM PM	78 78	78 7 78 7	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 6 68 6	66 66 8 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 6	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
	***************************************					MASS							
Ma	ass Type)		Area		Thickness		Furniture Fra	ction		Space		
De	efault(8 lb	os/sq.ft.		0 ft²		0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100

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

, Lake City, FL, 32024

1.	New construction or exi	sting	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	Area
2.	Single family or multiple	family	Detache	ed	a. Frame - Wood, Exterior	R=13.0	1362.00 ft ²
3.	Number of units, if mult	iple family	1		 b. Frame - Wood, Adjacent c. N/A 	R=13.0 R=	195.00 ft²
4.	Number of Bedrooms		3		d. N/A	R=	ft² ft²
5.	Is this a worst case?		No		11. Ceiling Type and insulation level	Insulation	Area
6.	Conditioned floor area (f	t²)	1595		a. Under Attic (Vented) b. N/A	R=38.0 R=	1674.80 ft ² ft ²
7.	Windows**	Description		Area	c. N/A	R=	ft²
	a. U-Factor: SHGC:	Dbl, U=0.35 SHGC=0.26		240.00 ft ²	 Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage 		R ft ² 6 398.75
	b. U-Factor:	N/A		ft²			
	SHGC: c. U-Factor: SHGC:	N/A		ft²	13. Cooling systems a. Central Unit	kBtu/hr 20.2	Efficiency SEER:14.00
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
	Area Weighted Average Area Weighted Average			4.625 ft. 0.260	a. Electric Heat Pump	25.3	HSPF:8.20
8	Skylightsa. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Car	o: 40 gallons EF: 0.92
9	. Floor Types a. Slab-On-Grade Edg b. N/A c. N/A	e Insulation	Insulation R=0.0 R= R=	Area 1595.00 ft² ft² ft²	b. Conservationfeatures None Credits (Performance method)		CV, 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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

4/12/2022 12:04 PM

7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software

Page 1 of 1

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:				
Job Information					
Builder: Rhett Smithey Community:	Lot: 8				
Address:					
City: Lake City State	: FL Zip: 32024				
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method				
PRESCRIPTIVE METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim					
PERFORMANCE or ERI METHOD-The building or dwelling unit sha the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Cali					
x 60 ÷ <u>14355</u> =	Method for calculating building volume:				
CFM(50) Building Volume ACH(50)	Retrieved from architectural plans				
PASS	Code software calculated				
When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.	nstallation Field measured and calculated				
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/R Testing shall be conducted by either individuals as defined in Section 553.9 489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to the ode official. Testing shall be performed at any time after creating shall be performed as any time after creating shall be performed.	93(5) or (7F/lorida Statues.or individuals licensed as set forth in Section sults of the test shall be signed by the party conducting the test and				
During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, b control measures.	ut not sealed, beyond the intended weatherstripping or other infiltration				
Dampers including exhaust, intake, makeup air, back draft and flue damp measures.	pers shall be closed, but not sealed beyond intended infiltration control				
Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery ventilation.					
5. Heating and cooling systems, if installed at the time of the test, shall be to 6. Supply and return registers, if installed at the time of the test, shall be full	urned off. ly open.				
Testing Company					
Company Name: I hereby verify that the above Air Leakage results are in accorda	Phone:				
I hereby verify that the above Air Leakage results are in accorda Energy Conservation requirements according to the compliance	nce with the 2020 7th Edition Florida Building Code method selected above.				
Signature of Tester:	Date of Test:				
Printed Name of Tester:					
License/Certification #:	Issuing Authority:				



Residential System Sizing Calculation

Summary Project Title: Lot 8 Crosswinds

Lake City, FL 32024

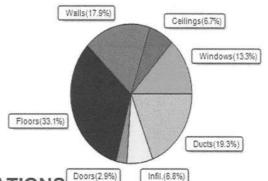
4/12/2022

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(152 ft.) Ter	mp Range(N	1)
Humidity data: Interior RH (50%	6) Outdoor	r wet bulb ((77F) Humidity difference(51gr.)		
Winter design temperature(TMY3	3 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	25297	Btuh	Total cooling load calculation	20241	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.0	25297	Sensible (SHR = 0.70)	84.2	14169
Heat Pump + Auxiliary(0.0kW)	100.0	25297	Latent	177.9	6072
			Total (Electric Heat Pump)	100.0	20241

WINTER CALCULATIONS

Winter Heating Load (for 1595 sqft)

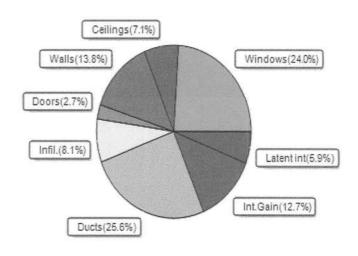
Load component			Load	
Window total	240	sqft	3360	Btuh
Wall total	1277	sqft	4534	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1675	sqft	1700	Btuh
Floor total	1595	sqft	8373	Btuh
Infiltration	39	cfm	1722	Btuh
Duct loss			4872	Btuh
Subtotal			25297	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			25297	Btuh



SUMMER CALCULATIONS Doors (2.9%)

Summer Cooling Load (for 1595 sqft)

Load component			Load	
Window total	240	sqft	4865	Btuh
Wall total	1277	sqft	2789	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	1675	sqft	1445	Btuh
Floor total			0	Btuh
Infiltration	29	cfm	613	Btuh
Internal gain			2580	Btuh
Duct gain		1	3982	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			16828	Btuh
Latent gain(ducts)		- 1	1196	Btuh
Latent gain(infiltration)		1	1018	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occ	cupants/othe	er)	1200	Btuh
Total latent gain			3414	Btuh
TOTAL HEAT GAIN			20241	Btuh



Powered by
ACCA
MANUAL J.

8th Edition

EnergyGauge® System Sizing PREPARED BY:

DATE: 4 / 12 / 2022

EnergyGauge® / USRCZB v7.0.00

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Lake City, FL 32024

Project Title: Lot 8 Crosswinds Building Type: User

4/12/2022

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Window	Panes/Type	Fran	ne U	Orientation /	Area(sqft) X	HTM=	Load
1	2, NFRC 0.26	Viny	0.35	S	30.0	14.0	420 Btu
2	2, NFRC 0.26	Viny	0.35	E	30.0	14.0	420 Btu
3	2, NFRC 0.26	Viny	0.35	N	45.0	14.0	630 Btu
4	2, NFRC 0.26	Meta	al 0.35	N	60.0	14.0	840 Btu
5	2, NFRC 0.26	Viny	0.35	W	75.0	14.0	1050 Btu
	Window Total				240.0(sqft)		3360 Btu
Walls	Туре	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	103	3.55	366 Btu
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	72	3.55	256 Btu
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	24	3.55	85 Btul
4	Frame - Wood	- Adj	(0.089)	13.0/0.0	175	3.55	621 Btul
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	357	3.55	1267 Btul
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	174	3.55	618 Btul
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	72	3.55	256 Btul
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	93	3.55	330 Btul
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	207	3.55	735 Btul
	Wall Total				1277(sqft)		4534 Btul
Doors	Туре	Stori	m Ueff.		Area X	HTM=	Load
1	Insulated - Exter	rior, n	(0.460)		20	18.4	368 Btul
2	Insulated - Gara	ige, n	(0.460)		20	18.4	368 Btul
	Door Total		ot ot		40(sqft)		736Btul
Ceilings	Type/Color/Surf	ace	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/S	hing (0	0.025)	38.0/0.0	1675	1.0	1700 Btuh
	Ceiling Total	255 36	- 10		1675(sqft)		1700Btul
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	177.4 ft(per	rim.) 47.2	8373 Btuh
	Floor Total				1595 sqft	20000MD 20000MD	8373 Btul
				E	Envelope Subto	otal:	18703 Btuh
nfiltration	Type	Who	lehouse A	CH Volume(c	cuft) Wall Rat	io CFM=	
	Natural			16 14355			1722 Btuh
Ouct load	Average sealed,	R6.0, S	Supply(Att)), Return(Att)	(DLM	l of 0.239)	4872 Btul
II Zones				Sensible	Subtotal All Z	Cones	25297 Btul

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lake City, FL 32024

Lot 8 Crosswinds Building Type: User

4/12/2022

WHOLE HOUSE TOTALS		
Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	25297 Btuh 0 Btuh 25297 Btuh
EQUIPMENT		
1. Electric Heat Pump	#	25297 Btuh

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)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details Project Title:

Lake City, FL 32024

4/12/2022

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

		Тур	e*			Over	hang	Wind	low Area	a(sqft)	Н	ITM	Load	
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.26, 0.35	No	No	S	10.5f	1.0ft.	30.0	30.0	0.0	12	14	364	Btuh
2	2 NFRC	0.26, 0.35	No	No	E	1.5ft.	1.0ft.	30.0	1.5	28.5	12	32	923	Btuh
3	2 NFRC	0.26, 0.35	No	No	N	1.5ft.	1.0ft.	45.0	0.0	45.0	12	12	545	Btuh
4	2 NFRC	0.26, 0.35	No	No	N	9.5ft.	1.0ft.	60.0	0.0	60.0	12	12	727	Btuh
5	2 NFRC	0.26, 0.35	No	No	W	1.5ft.	1.0ft.	75.0	3.7	71.3	12	32	2307	Btuh
	Window	v Total						240 (sqft)				4865	Btuh
Walls	Туре				U	-Valu	e R-\	/alue	Area	(sqft)		HTM	Load	
	777a: 579							Sheath						
1	1 (2) (2) (2) (3) (3) (3) (4) (4)	Nood - Ext				0.09	13.0			3.0		2.3	233	Btuh
2		Wood - Ext				0.09	13.0			2.0		2.3	163	Btuh
3		Wood - Ext				0.09	13.0			.0		2.3	54	Btuh
4		Wood - Adj				0.09	13.0	100000000000000000000000000000000000000		5.0		1.7	295	Btuh
5	10.000	Wood - Ext				0.09	13.0			7.0		2.3	808	Btuh
6		Wood - Ext				0.09	13.0			4.0		2.3	394	Btuh
7		Wood - Ext				0.09	13.0		600	2.0		2.3	163	Btuh
8		Wood - Ext				0.09	13.0			3.0		2.3	210	Btuh
9		Wood - Ext				0.09	13.0	0.0		7.0		2.3	469	
	Wall To	otal							127	7 (sqft)			2789	Btuh
Doors	Type								Area	(sqft)		HTM	Load	
1	Insulated	- Exterior							20	0.0		13.8	276	Btuh
2	Insulated	- Garage							20	0.0		13.8	276	Btuh
	Door To	otal							4	0 (sqft)		50000	552	Btuh
Ceilings	Type/C	olor/Sur	face		U	l-Valu	е	R-Valu	e Area			HTM	Load	
1	Vented A	kttic/Light/S	hinale/F	RB		0.025		38.0/0.0	167	4.8		0.86	1445	Btuh
	Ceiling	1000	-						167	5 (sqft)			1445	
Floors	Туре						R-N	/alue	Si	ze		HTM	Load	
1	Slab On	Grade						0.0	15	95 (ft-perir	neter)	0.0	0	Btuh
	Floor To									.0 (sqft)		0.0		Btuh
	1 1001 1	otai							1000	0 (3911)				Dian
									Е	nvelope	Subtota	d:	9652	Btuh
nfiltration	Туре				Avei	rage A	CH	Volu	me(cuff) Wall R	atio	CFM=	Load	10-315-
mination	Natural	1				3-1	0.12		14355			29.5		Btul
Internal	, total al					Occu			100000000000000000000000000000000000000	cupant		Appliance	Load	200
gain						5 000	6		X 23		,	1200	2580	Rtui
yaiii							0	-						
									S	ensible E	Envelop	e Load:	12845	Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.310)								3982	Btul				
									Ser	sible Lo	oad All	Zones	16828	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A

Lot 8 Crosswinds

Lake City, FL 32024

4/12/2022

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	12845	Btuh
	Sensible Duct Load	3982	Btuh
	Total Sensible Zone Loads	16828	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	16828	Btul
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1018	Btuh
	Latent ventilation gain		Btuh
	Latent duct gain		Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3414	Btul
	TOTAL GAIN	20241	Btuh

EQUIPMENT								
1. Central Unit	#	20241 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