FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 3 Forest Country Street: City, State, Zip: Lake City, FL, 32025 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Clima	ate Zone 2)
a. U-Factor: Dbl, U=0.36 180 SHGC: SHGC=0.25	a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (2170.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage	Insulation Area R=13.0 1689.00 ft² R=13.0 204.00 ft² R= ft² R= ft² Insulation Area R=38.0 2170.00 ft² R= ft² Ft² R= ft² Ft² R= ft² F
Area Weighted Average SHGC: 0.2 8. Floor Types (2067.0 sqft.) Insulation A	ft²	22.9 SEER:14.00 kBtu/hr Efficiency 31.8 HSPF:8.20 Cap: 50 gallons EF: 0.920 CV, Pstat
I (-lass/Floor Area: ()()8/	osed Modified Loads: 52.18 otal Baseline Loads: 53.36	PASS
I hereby certify that the plans and specifications cover this calculation are in compliance with the Florida Encode. PREPARED BY: DATE: I hereby certify that this building, as designed, is in cowith the Florida Energy Code. OWNER/AGENT: DATE:	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:	

- 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).

				PROJE	СТ							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 3 Forest Cour User 1 Columbia County Single-family New (From Plans		Bedrooms: Conditioned Total Storie Worst Case Rotate Angl Cross Vent Whole Hou	s: e: e: ilation:	4 2067 1 No 0 Yes No		Lot # Block PlatB Stree Cour	k/Subdivis Book: et:	3 sion: Fo	ot Informati orest Count olumbia oke City ,	try	
				CLIMA	TE							
	gn Location	TMY Site		97	esign Temp .5 % 2.5 %	Wint		ner Deg	eating ree Days		-	Temp ange
FL,	Gainesville	FL_GAINESVILLE	_REGI		32 92	70	75	1	305.5	51	Me	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	2067	18603									
				SPAC	ES							
Number	Name	Area	Volume K	itchen	Occupants	Bedro	oms l	nfil ID	Finished	Coo	led	Heate
1	Main	2067	18603	Yes	8	4	1		Yes	Yes		Yes
				FLOO	RS							
	Floor Type	Space	Perir		R-Value	Area				Tile Wo		rpet
1 Slat	o-On-Grade Edge In:	sulation M	ain 248	ft	0	2067 ft ²	2			0 0)	1
				ROO	F							
√ #	Туре	Materials	Roof Area	Gable Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitcl (deg
1	Hip	Composition shing	les 2485 ft²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	33.
				ATTI	С							
√ #	Туре	Ventil	ation	Vent Rati	io (1 in)	Area	RBS	IR	cc			
1	Full attic	Ven	ted	300	0 2	2067 ft ²	Υ	1	١			
				CEILII	NG							
V #	Ceiling Type		Space	R-Valu	e Ins Ty	ре	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Vente		Main	38	Double E		2170 ft ²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	. Orn	t	Adjace		Туре	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing	g Framing Fraction	Solar Absor.	Below Grade%
1	S		xterior		me - Wood	Main	13	16	4	9	147.0 ft ²		0.23	0.75	0
2	W	Е	Exterior	Frai	me - Wood	Main	13	4		9	36.0 ft ²		0.23	0.75	0
3	S	Е	Exterior	Frai	me - Wood	Main	13	24		9	216.0 ft ²		0.23	0.75	0
4	S	(Garage	Frai	me - Wood	Main	13	22	8	9	204.0 ft ²		0.23	0.75	0
5	Е	Е	Exterior	Frai	me - Wood	Main	13	28		9	252.0 ft ²		0.23	0.75	0
6	N	Е	Exterior	Frai	me - Wood	Main	13	20		9	180.0 ft ²		0.23	0.75	0
7	N	E	Exterior	Frai	me - Wood	Main	13	26	4	9	237.0 ft ²		0.23	0.75	0
8	Е	Е	Exterior	Frai	me - Wood	Main	13	12		9	108.0 ft ²		0.23	0.75	0
9	N	Е	Exterior	Frai	me - Wood	Main	13	16	8	9	150.0 ft ²		0.23	0.75	0
10) W	E	Exterior	Frai	me - Wood	Main	13	40	4	9	363.0 ft ²		0.23	0.75	0
							DO	ORS							
\checkmark	#		Ornt		Door Type	Space			Storms	U-Va	lue F	Width t In	Height Ft I	n	Area
	1		S		Insulated	Main			None	.46	3 ;	3	6	8 :	20 ft²
	2		S		Insulated	Main			None	.46	3	3	6	8 :	20 ft²
					С	rientation sh		DOWS ntered, F		orientatio					
$\sqrt{}$	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHCC	Imp	Area		erhang Separation	Int Sha	de '	Screening
	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²	•	1 ft 0 in	None		None
	2	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²		1 ft 0 in	None		None
	3	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft ²	1 ft 6 in	1 ft 0 in	None		None
	4	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²		1 ft 0 in	None		None
	5	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²		1 ft 0 in	None		None
	6	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft ²		1 ft 0 in	None		None
	7	N	7	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft ²		1 ft 0 in	None		None
	8	W	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft ²		1 ft 0 in	None		None
							GAF	RAGE							
<u> </u>	#		Floo	r Area	Ceiling	g Area	Exposed V	Vall Per	imeter	Avg. V	Vall Height	Expos	sed Wall Ins	ulation	
	1		528.82	2111 ft²	528.82		64.6	6667 ft			9 ft	-	1		
							INFILT	RATIC	N						
#	Scope		N	/lethod		SLA	CFM 50	ELA	F	EqLA	ACH	AC	H 50		

INPUT SUMMARY CHECKLIST REPORT

ORM R4	105-2017	7	INP	<u>UT SU</u>	MM.	<u>ARY C</u>	HECK	LIST RE	PORT					
						HEAT	ING SY	STEM						
$\sqrt{}$	# Sy	stem Type		Subty	ре	Spe	ed	Efficiency	/ Ca _l	oacity			Block	Ducts
	1 Ele	ectric Heat Pur	mp/	None		Sing	gle	HSPF:8.2	2 31.81	kBtu/hr			1	sys#1
						COOL	ING SY	STEM						
$\sqrt{}$	# Sy	stem Type		Subty	ре	Sub	type	Efficiency	Capacity	Air F	low	SHR	Block	Ducts
	1 Ce	entral Unit/		None		Sing	gle	SEER: 14	22.93 kBtu/l	nr 690	cfm	0.7	1	sys#1
						HOT W	ATER S	YSTEM						
$\sqrt{}$	# ;	System Type	SubType	Loca	ation	EF	C	Сар	Use	SetPnt		Co	nservatio	n
	1 I	Electric	None	Gar	age	0.92	50	gal	40 gal	120 deg			None	
					SOL	AR HO	T WATE	R SYSTE	EM					
\checkmark	FSEC Cert #	Company Na	ame			System	Model#	Co	ollector Model		ollector Area	Stor Volu	-	FEF
	None	None									ft²			
							DUCTS							
\/		Supp				turn			Air	CFM 25	CFM2			HVAC
V	#		-Value Area		cation	Area		ageType	Handler		OUT	QN	RLF	Heat C
	1	Attic	6 516.75	of A	ttic	103.35 f	Defau PERATU	It Leakage	Garage	(Default)	c(Defaul	lt) c		1 '
Drogram	nableThern	nostat: V			C	eiling Fans		INLO						
_			[] Mar	[] A m.				[2]	[V] A	[V] Cor		l Oot	[] Nov	[] Do
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apı [] Apı [X] Apı	r i	[]May []May []May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Ser [] Ser [] Ser) [X	Oct Oct Oct	[] Nov [X] Nov [X] Nov	[] De [X] De [] De
	at Schedule	: HERS 200	06 Reference						ours _	_				
Schedule 1			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	80 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	78 78
Heating (W	VD)	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 (W	VEH)	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
							MASS							
Ма	ass Type			Area	1		Thicknes	s	Furniture Fra	ction	S	Space		
De	efault(8 lbs/	/sq.ft.		0 ft²			0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0
3. No. of units (if multiple-family)	31	c) AHU location Garage
4. Number of bedrooms	44	13. Cooling system: Capacity 22.9 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62067	d) Room unit/PTAC EER e) Other 14.0
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.360 7b. 0.250 7c. 180.0	14. Heating system: Capacity 31.8 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8a. <u>NA</u> 8b. <u>NA</u>	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.20
9. Floor type, insulation level:a) Slab-on-grade (R-value)b) Wood, raised (R-value)c) Concrete, raised (R-value)	9a. 0.0 9b. 9c.	15. Water heating system a) Electric resistance EF 0.92
10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value)	10A1. <u>13.0</u> 10A2. <u>13.0</u>	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
 2. Masonry (Insulation R-value) 11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed 	10B2 11a38.0 11b 11c 11dYes	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation Yes c) Whole house fan No d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	lorida Building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or ex- display card will be completed based on installed)	ceeded) in this home befo	
Builder Signature:		Date:
Address of New Home:		Citv/FL Zip: Lake Citv. FL 32025

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: 3
Add	dress:	
City	r: Lake City State	e: FL Zip: 32025
Air	Leakage Test Results Passing results must meet	t either the Performance, Prescriptive, or ERI Method
C	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	
the		all be tested and verified as having an air leakage rate of not exceeding or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50. It (Performance) or R406-2017 (ERI): 5.000
	CFM(50) x 60 ÷ 18603 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department.	Method for calculating building volume: ○ Retrieved from architectural plans ○ Code software calculated ○ Field measured and calculated
Tes 489 pro Dur 1. E con 2. E mes 3. II 4. E	D2.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/F sting shall be conducted by either individuals as defined in Section 553.5 and 5.105(3)(f), (g), or (i) or an approved third party. A written report of the revided to the official. Testing shall be performed at any time after creating testing: Exterior windows and doors, fireplace and stove doors shall be closed, but the measures. Dampers including exhaust, intake, makeup air, back draft and flue dampasures. Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery vent deating and cooling systems, if installed at the time of the test, shall be test.	esults of the test shall be signed by the party conducting the test and ation of all penetrations of the uilding thermal envelope. Out not sealed, beyond the intended weatherstripping or other infiltration pers shall be closed, but not sealed beyond intended infiltration control iilators shall be closed and sealed.
6. 8	Supply and return registers, if installed at the time of the test, shall be full the standard	
C	ompany Name:	Phone:
۱r	nereby verify that the above Air Leakage results are in accordancegy Conservation requirements according to the compliance	
Si	gnature of Tester:	Date of Test:
Pı	rinted Name of Tester:	
Li	cense/Certification #:	Issuing Authority:

Residential System Sizing Calculation

Summary Project Title: Lot 3 Forest Country

Lake City, FL 32025

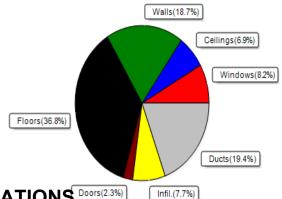
8/27/2020

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)								
Winter design temperature(TMY3	Winter design temperature(TMY3 99%) 30 F Summer design temperature(TMY3 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 31803 Btuh			Total cooling load calculation	22925	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	100.0	31803	Sensible (SHR = 0.70)	87.5	16048			
Heat Pump + Auxiliary(0.0kW)	100.0	31803	Latent	150.2	6878			
			Total (Electric Heat Pump)	100.0	22925			

WINTER CALCULATIONS

Winter Heating Load (for 2067 sqft)

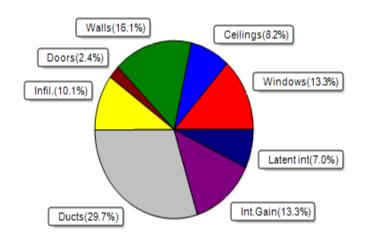
Load component			Load	
Window total	180	sqft	2592	Btuh
Wall total	1673	sqft	5940	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	2170	sqft	2203	Btuh
Floor total	2067	sqft	11706	Btuh
Infiltration	56	cfm	2450	Btuh
Duct loss			6177	Btuh
Subtotal			31803	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			31803	Btuh



SUMMER CALCULATIONS Doors (2.3%)

Summer Cooling Load (for 2067 sqft)

Load component			Load	
Window total	180	sqft	3055	Btuh
Wall total	1673	sqft	3680	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	2170	sqft	1873	Btuh
Floor total			0	Btuh
Infiltration	42	cfm	873	Btuh
Internal gain			3040	Btuh
Duct gain			5272	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			18345	Btuh
Latent gain(ducts)			1532	Btuh
Latent gain(infiltration)			1448	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occupa	1600	Btuh		
Total latent gain	4580	Btuh		
TOTAL HEAT GAIN			22925	Btuh





EnergyGauge® System Sizing PREPARED BY:	
DATE:	_

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title: Lot 3 Forest Country Building Type: User

Lake City, FL 32025

8/27/2020

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

Component Loads for Whole House

Window	Panes/Type	Fran	ne U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Viny		S	15.0	14.4	216 Btuh
2	2, NFRC 0.25	Viny		S	30.0	14.4	432 Btuh
3	2, NFRC 0.25	Viny		Ē	4.0	14.4	58 Btuh
4	2, NFRC 0.25	Viny		Е	16.0	14.4	230 Btuh
5	2, NFRC 0.25	Vinyl		N	30.0	14.4	432 Btuh
6	2, NFRC 0.25	Vinyl		N	15.0	14.4	216 Btuh
7	2, NFRC 0.25	TIM		N	40.0	14.4	576 Btuh
8	2, NFRC 0.25	Viny		W	30.0	14.4	432 Btuh
	Window Total	,			180.0(sqft)		2592 Btuh
Walls	Туре	Ornt.	Ueff.	R-Value	Area X	HTM=	Load
	"			(Cav/Sh)			
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	132	3.55	469 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	36	3.55	128 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	166	3.55	589 Btuh
4	Frame - Wood	- Adj	(0.089)	13.0/0.0	184	3.55	653 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	232	3.55	824 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	150	3.55	533 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	182	3.55	646 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	108	3.55	383 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	150	3.55	533 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	333	3.55	1182 Btuh
	Wall Total				1673(sqft)		5940 Btuh
Doors	Туре		n Ueff.		Area X	HTM=	Load
1	Insulated - Exte		` ,		20	18.4	368 Btuh
2	Insulated - Gara	ige, n	(0.460)		20	18.4	368 Btuh
	Door Total				40(sqft)		736Btuh
Ceilings	Type/Color/Surf		Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/S	Shing (C	0.025)	38.0/0.0	2170	1.0	2203 Btuh
	Ceiling Total				2170(sqft)		2203Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	248.0 ft(pe	rim.) 47.2	11706 Btuh
	Floor Total				2067 sqft		11706 Btuh
				_			00470 5: 1
				E	Envelope Subto	otal:	23176 Btuh
Infiltration	Туре	Who	lehouse A	.CH Volume(cuft) Wall Rat	tio CFM=	
	Natural		0	.18 18603	•	55.9	2450 Btuh
Duct load	Average sealed	, R6.0, S	Supply(Att), Return(Att)	(DLM	1 of 0.241)	6177 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title: Lot 3 Forest Country

Building Type: User

Lake City, FL 32025

8/27/2020

All Zones		Sensible Subtotal All Zones	31803 Btuh				
WHOLE HOUS	E TOTALS						
Totals for Heating		Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	31803 Btuh 0 Btuh 31803 Btuh				
EQUIPMENT							
1. Electric Hea	at Pump	#	31803 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: Lot 3 Forest Country

Lake City, FL 32025

8/27/2020

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

	Type*			Overhang W			ndow Area(sqft)		HTM		Load			
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1		0.25, 0.36	No	No	S	1.5ft.	1.0ft.	15.0	15.0	0.0	12	14	181	Btuh
2	2 NFRC	0.25, 0.36	No	No	S	7.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
3	2 NFRC	0.25, 0.36	No	No	Ε	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh
4		0.25, 0.36	No	No	Ε	1.5ft.	1.0ft.	16.0	1.0	15.0	12	31	477	Btuh
5		0.25, 0.36	No	No	N	1.5ft.	1.0ft.	30.0	0.0	30.0	12	12	363	Btuh
6		0.25, 0.36	No	No	N	9.5ft.	1.0ft.	15.0	0.0	15.0	12	12	181	Btuh
7		0.25, 0.36	No	No	N	9.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh
8		0.25, 0.36	No	No	W	1.5ft.	1.0ft.	30.0	1.5	28.5	12	31	901	
	Windov	v i otal						180 (9					3055	Btun
Walls	Туре				U	-Valu	e R-\		Area	(sqft)		HTM	Load	
								Sheath						
1		Wood - Ext				0.09		0/0.0		2.0		2.3	299	Btuh
2		Wood - Ext				0.09		0.0		3.0		2.3	81	
3		Wood - Ext				0.09		0.0		6.0		2.3	376	
4		Wood - Adj				0.09		0.0		4.0		1.7	310	
5		Wood - Ext				0.09		0/0.0		2.0		2.3	525	Btuh
6		Wood - Ext				0.09		0.0		0.0		2.3	340	
7		Wood - Ext				0.09		0.0		2.0		2.3	412	
8		Wood - Ext				0.09 13.0/0.0 0.09 13.0/0.0			108.0 150.0		2.3	244		
9 10		Wood - Ext Wood - Ext				0.09 0.09)/0.0)/0.0		0.0 3.0		2.3 2.3	340 754	
10	Wall To				,	J.U9	13.0	0.0		3.0 73 (sqft)		2.3	3680	
Doors	Type	, tai								(sqft)		НТМ	Load	Dian
1	• •	l - Exterior).0		13.8		Btuh
2		l - Exterior).0).0		13.8		Btuh
	Door To	•								0 (sqft)		15.0		Btuh
Ceilings		olor/Surf	ace		Ш	-Valu		R-Value				НТМ	Load	Diuii
1		ttic/Light/Sh		חם		0.025		38.0/0.0		(3 4 11) 70.0		0.86		Btuh
ı		-	iingie/r	(D		0.025		30.0/0.0				0.00		
Floors	Ceiling	Total					DΙ	/alue		'0 (sqft) ze		нтм	1873 Load	Diun
	Туре	0					Γ.							Dtul
1	Slab On (0.0		67 (ft-perin	neter)	0.0		Btuh
	Floor To	otai							2067	.0 (sqft)			0	Btuh
									Е	nvelope	Subtota	ıl:	9160	Btuh
Infiltration	Туре				Aver	age A	CH	Volui		:) Wall R	atio	CFM=	Load	
	Natural	<u> </u>					0.14		18603			42.0	873	Btuh
Internal					Occupants			Btuh/occupant Appliar		Appliance	Load			
gain							8		C 23	•		1200	3040	Btuh
										ensible E				Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Lot 3 Forest Country

Lake City, FL 32025

8/27/2020

Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.403)	5272 Btuh
		Sensible Load All Zones	18345 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Climate:FL GAINESVILLE REGIONAL A Project Title: Lot 3 Forest Country

Lake City, FL 32025

8/27/2020

WHOLE HOUSE TOTALS						
	Sensible Envelope Load All Zones	13073	Btuh			
	Sensible Duct Load	5272	Btuh			
	Total Sensible Zone Loads	18345	Btuh			
	Sensible ventilation	0	Btuh			
	Blower	0	Btuh			
Whole House	Total sensible gain	18345	Btuh			
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1448	Btuh			
	Latent ventilation gain	0	Btuh			
	Latent duct gain	1532	Btuh			
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600	Btuh			
	Latent other gain	0	Btuh			
	Latent total gain	4580	Btuh			
	TOTAL GAIN	22925	Btuh			

EQUIPMENT							
1. Central Unit	#	22925 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)

