FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 2 Forest Country, 6th Edition 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 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) Conditioned floor area below grade (ft²) 7. Windows (177.2 sqft.) Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: New (From Plans) Detached 1 At 4 A 5 A 6 A 7 A 7 B 6 B 7 B 7 B 7 B 7 B 7 B 7 B	10. Wall Types(1992.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1770.00 ft² b. Frame - Wood, Adjacent R=13.0 222.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2351.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 2351.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Garage 6 559.75 13. Cooling systems kBtu/hr Efficiency a. Central Unit 23.9 SEER:14.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 33.6 HSPF:8.20
8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (2239.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2239.00 ft² b. N/A R= ft² c. N/A R= ft²	15. Hot water systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservationfeatures None 16. Credits CV, Pstat
Glass/Floor Area: 0.079 Total Proposed Modified Total Baseline	PA33
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: DATE:

- Compliance requires 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	ECT							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Lot 2 Forest Co User 1 Columbia Cour Detached New (From Pla		Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	s: e: le: ilation:	4 2239 1 No 0 Yes No		Lot # Block PlatB Stree Cour	x/Subdivis look: et:	2 sion: Fo	ot Informati orest Coun olumbia ake City ,	try	
				CLIMA	ATE							
V Desi	gn Location	TMY Site			Design Temp 7.5 % 2.5 %	Int D Wint	esign Tem er Summ		eating ree Days	Desigr Moistur	-	/Temp ange
FL,	Gainesville	FL_GAINESVILLE	_REGI		32 92	70	75	1	305.5	51	M	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	2239	20151									
				SPAC	ES							
Number	Name	Area	Volume k	Citchen	Occupants	Bedro	oms l	nfil ID	Finished	l Coo	led	Heate
1	Main	2239	20151	Yes	8	4	1		Yes	Yes		Yes
				FLOO	RS							
· ·	Floor Type	Space		neter	R-Value	Area						arpet
1 Slab	o-On-Grade Edge	Insulation M	ain 260	ft	0	2239 ft²	2			0 ()	1
				ROC	F							
√ #	Туре	Materials	Roof Area	Gabl Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitc (de
1	Gable or shed	Composition shing	les 2691 ft²	746 f	t² Medium	Υ	0.96	No	0.9	No	0	33.6
				ATT	C							
√ #	Туре	Ventil	ation	Vent Rat	io (1 in)	Area	RBS	IR	СС			
1	Full attic	Ven	ted	30	0 2	2239 ft²	Υ	1	N			
				CEILI	NG							
V #	Ceiling Type		Space	R-Valu	e Ins Ty	ре	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Ve	4	Main	38	Double E		2351 ft ²		0.11	Wo		

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS								
V #	e Ornt		djacer o	nt Wall	Туре	Space	Cavity R-Value	Wid Ft	th In	He Ft	eight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
1	S	Ext	erior	Fran	ne - Wood	Main	13	17	4	9		156.0 ft ²		0.23	0.75	0
2	W	Ext	erior	Fran	ne - Wood	Main	13	3		9		27.0 ft ²		0.23	0.75	0
3	S	Ext	erior	Fran	ne - Wood	Main	13	24		9		216.0 ft ²		0.23	0.75	0
4	S	Gai	rage	Fran	ne - Wood	Main	13	24	8	9		222.0 ft ²		0.23	0.75	0
5	Е	Ext	erior	Fran	ne - Wood	Main	13	29		9		261.0 ft ²		0.23	0.75	0
6	N	Ext	erior	Fran	ne - Wood	Main	13	22		9		198.0 ft ²		0.23	0.75	0
7	N	Ext	erior	Fran	ne - Wood	Main	13	26	4	9		237.0 ft ²		0.23	0.75	C
8	Е	Ext	erior	Fran	ne - Wood	Main	13	14		9		126.0 ft ²		0.23	0.75	C
9	N	Ext	erior	Fran	ne - Wood	Main	13	17	8	9		159.0 ft ²		0.23	0.75	C
10) W	Ext	erior	Fran	ne - Wood	Main	13	43	4	9		390.0 ft ²		0.23	0.75	C
							DO	ORS								
\vee	#		Ornt		Door Type	Space			Storms		U-Valu	ie Fi	Width : In	Heigh Ft	t In	Area
	1		S		Insulated	Main			None		.46	3		6	8	20 ft²
	2		S		Insulated	Main			None		.46	3		6	8	20 ft²
					0	rientation sh	WINI nown is the e	OOWS ntered, F		dorie	ntation.					
./			Vall										rhang			
V				Frame	Panes	NFRC	U-Factor		Imp		Area	•	Separation	Int Sha		Screenir
	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N		5.0 ft ²	1 ft 6 in	1 ft 0 in	Non		None
	2	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N		30.0 ft ²	7 ft 6 in	1 ft 0 in	Non		None
	3	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N		4.7 ft ²	1 ft 6 in	1 ft 0 in	Non	е	None
	4	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		30.0 ft ²	1 ft 6 in	1 ft 0 in	Non		None
	5	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N		7.5 ft ²	9 ft 6 in	1 ft 0 in	Non		None
	6	N	7	TIM	Low-E Double	Yes	0.36	0.25	N		10.0 ft ²	9 ft 6 in	1 ft 0 in	Non		None
	7	W	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	3	30.0 ft²	1 ft 6 in	1 ft 0 in	Non	е	None
,							GAF	RAGE								
$\sqrt{}$	#			Area	Ceiling		Exposed\		imeter			all Height	Expos	ed Wall Ins	sulation	
	1	5	50.81	411 ft²	550.814	111 ft²	65.	6667 ft	_		9	ft		1		_
							INFILT	RATIC)N							
ŧ	Scope		M	ethod		SLA	CFM 50	ELA	-	EqLA	A	ACH	ACI	H 50		
		e F			H(50) .000		1679.3	92.13	1			.1027		5		

INPUT SUMMARY CHECKLIST REPORT

							HEATI	NG SYS	TEM						
$\sqrt{}$	#	System Ty	/ре		Subtyp	е	Spee	d	Efficiency	/ Ca	pacity			Block	Ducts
	1	Electric He	eat Pun	np/	None		Single	Э	HSPF:8.2	33.56	kBtu/hr			1	sys#1
							COOLI	NG SYS	STEM						
\vee	#	System Ty	/ре		Subtyp	е	Subty	ре	Efficiency	Capacity	Air F	low	SHR	Block	Ducts
	1	Central Ur	nit/		None		Single	e	SEER: 14	23.87 kBtu/	nr 720	cfm	0.7	1	sys#1
							HOT WA	TER S	STEM						
\vee	#	System	Туре	SubType	Loca	tion	EF	C	ар	Use	SetPnt		Co	nservatio	n
	1	Electric		None	Gara	ge	0.92	50	gal	40 gal	120 deg			None	
					;	SOL	AR HOT	WATE	RSYSTE	M					
\checkmark	FSEC Cert :		any Na	me			System M	odel#	Co	ollector Model		ollector Area	Stor Volu	-	FEF
	None	None										ft²			
								UCTS							
\checkmark	#		Supp on R-	oly Value Area		Ref	turn Area	Leaka	ageType	Air Handler	CFM 25 TOT	CFM2 OUT		RLF	HVAC Heat C
	1	Attic		6 559.75	f At	tic	111.95 f		t Leakage	Garage	(Default)	c(Defau	ult) c		1
								ERATU	RES						
-	nableTh	ermostat:				C	eiling Fans:								
Cooling Heating Venting	[x];	lan [X] lan [X] lan [Feb Feb 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] Ser [] Ser [] Ser] Oct] Oct (] Oct	[] Nov [X] Nov [X] Nov	[] De [X] De [] De
Thermosta Schedule		ule: HEF	RS 200	6 Reference 1	2	3	4	5	Но 6	ours 7	8	9	10	11	12
Cooling (W	VD)		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	VEH)		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
			. 141					MASS							
Ma	ass Typ	e			Area			Thickness	i	Furniture Fra	ction		Space		
De	efault(8	lbs/sq.ft.			0 ft²			0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

, Lake City, FL, 32025

1.	New construction or exis	ting	New (Fr	om Plans)	Wall Type and Insulation	Insulation	Area
2.	Single family or multiple f	family	Detache	d	a. Frame - Wood, Exterior	R=13.0	1770.00 ft²
3.	Number of units, if multip	ole family	1		b. Frame - Wood, Adjacent c. N/A	R=13.0 R=	222.00 ft ² ft ²
4.	Number of Bedrooms		4		d. N/A	R=	ft²
5.	Is this a worst case?		No		 Ceiling Type and insulation level Under Attic (Vented) 	Insulation R=38.0	Area 2351.00 ft ²
6.	Conditioned floor area (ft	²)	2239		b. N/A	R=	ft²
7.	Windows**	Description		Area	c. N/A12. Ducts, location & insulation level	R=	ft² R ft²
	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		177.17 ft²	a. Sup: Attic, Ret: Attic, AH: Garage		6 559.75
	b. U-Factor:	N/A		ft²			
	SHGC:				13. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	23.9	SEER:14.00
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency
	Area Weighted Average Area Weighted Average			5.112 ft. 0.250	a. Electric Heat Pump	33.6	HSPF:8.20
	8. Skylights a. U-Factor(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Са	p: 50 gallons EF: 0.92
	SHGC(AVG):	IN/A			b. Conservationfeatures		
	9. Floor Types		Insulation	Area	None		
	a. Slab-On-Grade Edge b. N/A	e Insulation	R=0.0 R=	2239.00 ft ² ft ²	Credits (Performance method)		CV, Pstat
	c. N/A		R=	ft²			

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.

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: Community:	Lot: 2							
Address:								
City: Lake City State	e: FL Zip: 32025							
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 Cal								
x 60 ÷ 20151 = 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							
R402.4.1.2 Testing. 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 (Thlorida Statuesor 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 theode official. Testing shall be performed at any time after creation of all penetrations of the unit didn't the un								
Testing Company								
Company Name: I hereby verify that the above Air Leakage results are in accorda Energy Conservation requirements according to the compliance								
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							

Residential System Sizing Calculation

Summary Project Title:

Project Title: Lot 2 Forest Country, 6th Edition

Lake City, FL 32025

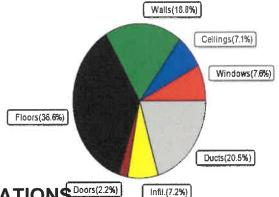
6/30/2021

	Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%	Outdooi	r wet bulb (7							
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	33556	Btuh	Total cooling load calculation	23866	Btuh				
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh				
Total (Electric Heat Pump)	100.0	33556	Sensible (SHR = 0.70)	87.5	16706				
Heat Pump + Auxiliary(0.0kW)	100.0	33556	Latent	150.0	7160				
, , ,			Total (Electric Heat Pump)	100.0	23866				

WINTER CALCULATIONS

Winter Heating Load (for 2239 soft)

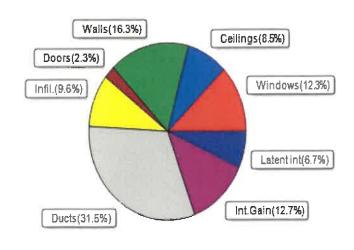
THIRD HOUSING LOUG (10)	EE-00 0010			
Load component			Load	
Window total	177	sqft	2551	Btuh
Wall total	1775	sqft	6301	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	2351	sqft	2387	Btuh
Floor total	2239	sqft	12272	Btuh
Infiltration	55	cfm	2417	Btuh
Duct loss			6892	Btuh
Subtotal			33556	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			33556	Btuh



SUMMER CALCULATION \$ Doors (2.2%)

Summer Cooling Load (for 2239 sqft)

Load component			Load	
Window total	177	sqft	2941	Btuh
Wall total	1775	sqft	3901	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	2351	sqft	2029	Btuh
Floor total			0	Btuh
Infiltration	41	cfm	861	Btuh
Internal gain			3040	Btuh
Duct gain			5771	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			19094	Btuh
Latent gain(ducts)			1744	Btuh
Latent gain(infiltration)			1429	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occu	r)	1600	Btuh	
Total latent gain		4772	Btuh	
TOTAL HEAT GAIN			23866	Btuh



8th Edition

EnergyGauge® System Sizing
PREPARED BY:
DATE:

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title: Lot 2 Forest Country, 6th Edition Building Type: User

Lake City, FL 32025

6/30/2021

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

Component Loads for Whole House

1 2, NFRC 0.25 Vinyl 0.36 S 15.0 14.4 216 Btuh 2 2, NFRC 0.25 Vinyl 0.36 S 30.0 14.4 432 Btuh 3 2, NFRC 0.25 Vinyl 0.36 N 30.0 14.4 211 Btuh 4 2, NFRC 0.25 Vinyl 0.36 N 30.0 14.4 432 Btuh 5 2, NFRC 0.25 Vinyl 0.36 N 17.5 14.4 252 Btuh 6 2, NFRC 0.25 Vinyl 0.36 N 40.0 14.4 576 Btuh 7 2, NFRC 0.25 Vinyl 0.36 W 30.0 14.4 432 Btuh 7 2, NFRC 0.25 Vinyl 0.36 W 30.0 14.4 432 Btuh 7 2, NFRC 0.25 Vinyl 0.36 N 40.0 14.4 432 Btuh 8 19 0.01 1.30 0.0 14.1 3.55 560 Btuh 10	Window	Panes/Type	Frame	U	Orientation /	Area(sqft) X	HTM=	Load
2	1		Vinyl	0.36			14.4	216 Btuh
3 2, NFRC 0.25 Vinyl 0.36 E 14.7 14.4 211 Btuh 4 32 Btuh 4 32 Btuh 5 4 2, NFRC 0.25 Vinyl 0.36 N 30.0 14.4 432 Btuh 5 6 2, NFRC 0.25 Vinyl 0.36 N 40.0 14.4 252 Btuh 5 6 2, NFRC 0.25 Vinyl 0.36 N 30.0 14.4 432 Btuh 432 Btuh 77.2 (sqft) Walls Type Ornt. Ueff. R-Value (Cav/Sh) Area X HTM= Load 1 Frame - Wood - Ext (0.089) 13.0/0.0 141 3.55 501 Btuh 556 Btuh 355 2 Frame - Wood - Ext (0.089) 13.0/0.0 27 3.55 96 Btuh 356 3 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 501 Btuh 55 4 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 501 Btuh 56 5 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 717 Btuh 56 6 Frame - Wood - Ext (0.089) 13.0/0.0 180 3.55 596 Btuh 57 7 Frame - Wood - Ex	2		•	0.36	S	30.0	14.4	
4		2, NFRC 0.25	•					
5 2, NFRC 0.25 Vinyl 0.36 N 17.5 14.4 252 Btuh 6 6 2, NFRC 0.25 TIIM 0.36 N 40.0 14.4 432 Btuh 77.2 (sqft) 7 2, NFRC 0.25 Vinyl 0.36 W 30.0 14.4 432 Btuh 432 Btuh 177.2 (sqft) Walls Type Ornt. Ueff. R-Value (Cav/Sh) Area X HTM Load 1 Frame - Wood - Ext (0.089) 13.0/0.0 14.1 3.55 501 Btuh 5251 Btuh 18.0 2 Frame - Wood - Ext (0.089) 13.0/0.0 27 3.55 501 Btuh 5251 Btuh 18.0 4 Frame - Wood - Ext (0.089) 13.0/0.0 166 3.55 589 Btuh 53.0 4 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 717 Btuh 55 5 Frame - Wood - Ext (0.089) 13.0/0.0 246 3.55 589 Btuh 66 7 Frame - Wood - Ext (0.089) 13.0/0.0 180 3.55 568 Btuh 66 7 Frame - Wood - Ext (0.089) 13.0/0.0 180 3.55 568 Btuh 67 9		1 '	•					
6 2, NFRC 0.25 TIM 0.36 N 40.0 14.4 576 Btuh 7 2, NFRC 0.25 Vinyl 0.36 W 30.0 14.4 432 Btuh Window Total 177.2(sqft) 2551 Btuh Walls Type Ornt. Ueff. R-Value (Cav/Sh) 12551 Btuh 1 Frame - Wood - Ext (0.089) 13.0/0.0 141 3.55 501 Btuh 2 Frame - Wood - Ext (0.089) 13.0/0.0 141 3.55 501 Btuh 3 Frame - Wood - Ext (0.089) 13.0/0.0 166 3.55 589 Btuh 4 Frame - Wood - Ext (0.089) 13.0/0.0 166 3.55 589 Btuh 4 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 717 Btuh 5 Frame - Wood - Ext (0.089) 13.0/0.0 202 3.55 717 Btuh 6 Frame - Wood - Ext (0.089) 13.0/0.0 186 3.55 586 Btuh 7 Frame - Wood - Ext (0.089) 13.0/0.0 188 3.55 566 Btuh 7 Frame - Wood - Ext (0.089) 13.0/0.0 180 3.55 637 Btuh 8 Frame - Wood - Ext (0.089) 13.0/0.0 180 3.55 637 Btuh 9 Frame - Wood - Ext (0.089) 13.0/0.0 126 3.55 447 Btuh 9 Frame - Wood - Ext (0.089) 13.0/0.0 126 3.55 447 Btuh 9 Frame - Wood - Ext (0.089) 13.0/0.0 159 3.55 565 Btuh 10 Frame - Wood - Ext (0.089) 13.0/0.0 159 3.55 565 Btuh 10 Frame - Wood - Ext (0.089) 13.0/0.0 159 3.55 565 Btuh 10 Brundled - Exterior, n (0.460) 20 18.4 368 Btuh 20 Insulated - Exterior, n (0.460) 20 18.4 368 Btuh Door Total 40(sqft) 736Btuh Ceiling Total 2351(sqft) 2351 1.0 2387 Btuh Ceiling Total 2351(sqft) 2351 1.0 2387 Btuh Ceiling Total 2351(sqft) 2337 Btuh Floors Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh		1 '	•					
Type								576 Btuh
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Type			`	,				
Wall Total			`	,				
Doors Type Storm Ueff. Area X HTM= Load 1 Insulated - Exterior, n (0.460) 20 18.4 368 Btuh 2 Insulated - Garage, n (0.460) 20 18.4 368 Btuh Door Total 40(sqft) 736Btuh Ceilings Type/Color/Surface Ueff. R-Value Area X HTM= Load 1 Vented Attic/L/Shing (0.025) 38.0/0.0 2351 1.0 2387 Btuh Ceiling Total 2351(sqft) 2387 Btuh 2387 Btuh 1 Slab On Grade (1.180) 0.0 260.0 ft(perim.) 47.2 12272 Btuh Floor Total Envelope Subtotal: 24247 Btuh Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh			\	,				
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2	1		rior, n (0	.460)		20	18.4	368 Btuh
Door Total	2	Insulated - Gara	ge, n (0	.460)		20	18.4	
Ceilings Type/Color/Surface Ueff. R-Value Area X HTM= Load 1 Vented Attic/L/Shing (0.025) 38.0/0.0 2351 1.0 2387 Btuh Ceiling Total 2351(sqft) 2387Btuh 2387Btuh Floors Type Ueff. R-Value Size X HTM= Load 1 Slab On Grade (1.180) 0.0 260.0 ft(perim.) 47.2 12272 Btuh Floor Total Envelope Subtotal: 24247 Btuh Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh			•	,		40(sqft)		
Ceiling Total 2351(sqft) 2387Btuh	Ceilings	Type/Color/Surf	ace U	eff.	R-Value		HTM=	Load
Floors Type Ueff. R-Value Size X HTM= Slab On Grade (1.180) Load 12272 Btuh 12272 Btuh 12272 Btuh 12272 Btuh 12272 Btuh 12272 Btuh Infiltration Type Wholehouse ACH Volume(cuft) Natural Wall Ratio CFM= Natural 24247 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh	1	Vented Attic/L/S	hing (0.0	25)	38.0/0.0	2351	1.0	2387 Btuh
1 Slab On Grade Floor Total (1.180) 0.0 260.0 ft(perim.) 47.2 12272 Btuh 12272 Btuh 12272 Btuh 12272 Btuh 12272 Btuh Envelope Subtotal: 24247 Btuh Infiltration Type Natural Wholehouse ACH Volume(cuft) Wall Ratio CFM= 0.16 20151 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh		Ceiling Total		,		2351(sqft)		2387Btuh
Floor Total Envelope Subtotal: 24247 Btuh Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh	Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh	1	Slab On Grade		(1.180)	0.0	260.0 ft(peri	m.) 47.2	12272 Btuh
Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh		Floor Total			-	2239 sqft	·	12272 Btuh
Infiltration Type Wholehouse ACH Volume(cuft) Wall Ratio CFM= Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh					F	- -nvelone Subtot	·al·	24247 Rtub
Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh					_			Z IZTI Didil
Natural 0.16 20151 1.00 55.2 2417 Btuh Duct load Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.258) 6892 Btuh	Infiltration	Туре	Wholeh	nouse A	ACH Volume(cuft) Wall Ratio	CFM=	
		1 * *		C	•	•	55.2	2417 Btuh
All Zones Sensible Subtotal All Zones 33556 Btuh	Duct load	Average sealed	R6.0, Su	pply(At	t), Return(Att)	(DLM	of 0.258)	6892 Btuh
	All Zones		ones	33556 Btuh				

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Lake City, FL 32025

Project Title: Lot 2 Forest Country, 6th Edition Building Type: User

6/30/2021

WHOLE HOUSE TOTALS

Subtotal Sensible Heat Loss	33556 Btuh
Ventilation Sensible Heat Loss	0 Btuh
Total Heat Loss	33556 Btuh
V	entilation Sensible Heat Loss

EQUIPMENT

	1. Electric Heat Pump	#	33556 Btuh
1			

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 2 Forest Country, 6th Edition

Lake City, FL 32025

6/30/2021

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

Component Loads for Whole House

	Type*			Overhang Window			dow Area	ow Area(sqft)		НТМ				
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross		Unshaded	Shaded	Unshaded		
1		0.25, 0.36		No	S	1.5ft.	1.0ft.	15.0	15.0	0.0	12	14	181	Btuh
2		0.25, 0.36		No	S	7.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
3		0.25, 0.36		No	Е		1.0ft.	14.7	0.9	13.8	12	31		Btuh
4	2 NFRC	0.25, 0.36	No	No	Ν	1.5ft.	1.0ft.	30.0	0.0	30.0	12	12	363	Btuh
5	2 NFRC	0.25, 0.36	No	No	Ν	9.5ft.	1.0ft.	17.5	0.0	17.5	12	12	212	Btuh
6	2 NFRC	0.25, 0.36	No	No	Ν	9.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh
7	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	30.0	1.5	28.5	12	31	901	Btuh
	Window Total					177 (saft)				2941	Btuh		
Walls	Туре				U	-Value	R-V				HTM	Load		
	Cav/Sheath													
1	Frame - \	Wood - Ext			(0.09	13.0		14	1.0		2.3	319	Btuh
2	Frame - \	Wood - Ext			(0.09 13.0/0.0			27	27.0		2.3	61	Btuh
3	Frame - \	Wood - Ext			(0.09	13.0	0.0	16	6.0		2.3	376	Btuh
4	Frame - \	Wood - Adj			(0.09 13.0/0.0			20	202.0		1.7	341	Btuh
5	Frame - Wood - Ext				0.09 13.0/0.0				246.3		2.3	558	Btuh	
6					0.09 13.0/0.0			16	168.0		2.3	380	Btuh	
7	Frame - \	Frame - Wood - Ext			(0.09 13.0/0.0			179	179.5		2.3	406	Btuh
8	Frame - \	Wood - Ext			(0.09	.09 13.0/0.0		126.0			2.3	285	Btuh
9	Frame - \	Wood - Ext			(0.09	13.0			9.0		2.3	360	Btuh
10	Frame - \	Wood - Ext			(0.09	13.0	/0.0	36	360.0		2.3	815	Btuh
	Wall Total				1775 (sqft)				3901	Btuh				
Doors	Type								Area	(sqft)		HTM	Load	
1	Insulated	I - Exterior							20	0.0		13.8	276	Btuh
2	Insulated	I - Garage							20	0.0		13.8	276	Btuh
Door To		Ū							4	0 (sqft)			552	Btuh
Ceilings	Type/C	olor/Sur	face		U	-Value	9	R-Valu	e Area			HTM	Load	
1			51.0		0.86	2029	Btuh							
·	Ceiling					0.020		2351 (sqft)		0.00	2029			
Floors	Type	Total					R-\	/alue	Si			НТМ	Load	Dian
1		Crada				0.0				2239 (ft-perimeter)		0.0		Btuh
ı	_	Slab On Grade												
	Floor Total 2239.0 (sqft)								U	Btuh				
	Envelope Subtotal:								9422	Btuh				
nfiltration Type Average ACH Volume(cuft) Wall Ratio CF					CFM=	Load								
	Natural	I			, (401	age /	0.12	V 010	20151		4110	41.4		Btuh
Internal	Tacara	•				Occup			Btuh/od			Appliance	Load	Dian
gain						- 554	8		X 23	-	,	1200		Btuh
94	Sensible Envelope Load:								13323					
Duct load	Average sealed, Supply (R6.0-Attic), Return (R6.0-Attic) (DGM of 0.433)							5771	Btuh					
	Sensible Load All Zones							19094						

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A

Lot 2 Forest Country, 6th Edition

Lake City, FL 32025

6/30/2021

WHOLE HOUSE TOTALS							
	Sensible Envelope Load All Zones	13323	Rtub				
	Sensible Duct Load		Btuh				
	Total Sensible Zone Loads	19094	Blun				
	Sensible ventilation	0	Btuh				
	Blower	0	Btuh				
Whole House	Total sensible gain	19094	Btuh				
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1429	Btuh				
	Latent ventilation gain	0	Btuh				
	Latent duct gain	1744	Btuh				
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600	Btuh				
	Latent other gain	0	Btuh				
	Latent total gain	4772	Btuh				
	TOTAL GAIN	23866	Btuh				

EQUIPMENT							
1. Central Unit	#	23866 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