FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Street: 352 SW Buttercup Lane Street: 352 SW Buttercup Lane 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(177.0 sqft.) Description a. U-Factor: BHGC: 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: 8. Skylights U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types a. Slab-On-Grade Edge Insulation a. Slab-On-Grade Edge Insulation R=0.0 Refi2 Refi2 Refi2 Refi2	10. Wall Types (1713.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1477.50 ft² b. Frame - Wood, Adjacent R=13.0 235.50 ft² c. N/A d. N/A 11. Ceiling Types (1933.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 1933.00 ft² b. N/A c. N/A 12. Roof (Comp. Shingles, Vented) Deck R=0.0 2213 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: 1st Floor 6 460 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 21.9 SEER2:14.00 15. Heating Systems a. Electric Heat Pump 27.3 HSPF2:8.20 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features
	None 17. Credits CV, Pstat
Glass/Floor Area: 0.096 Total Proposed Modi Total Base	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: 7 / 26 / 2023 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE: - Compliance requires certification by the air handler unit in the plant of the	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.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

Title: Building Type: Owner: Builder Home Builder Name: Permit Office: Jurisdiction:	User ID:	p Lane	Rodroome			Ado	lress type:	Stroot Add	roos		
Family Type: New/Existing: Year Construc Comment:	r: r: Home ID: r: Name: t Office: Columbia County iction: y Type: Detached Existing: New (From Plans) Construct: 2023			Bedrooms: 4 Conditioned Area: 1841 Total Stories: 1 Worst Case: No Rotate Angle: 0 Cross Ventilation: Yes Whole House Fan: No Terrain: Suburbar Shielding: Suburbar			#: ck/SubDivisi tBook: eet: unty: v, State, Zip:	 on: 352 SW Bo Columbia	 352 SW Buttercup Lane Columbia Lake City,		
				CLIM	IATE						
Design Location		Tmy Site		Desi 97.5%	ign Temp 2.5%		gn Temp Summer	Heating Degree Days	Design Moisture	Dai Rar	ly temp nge
FL, Gainesv	rille	FL_GAINESVILLE_	REGIONA	32	92	70	75	1305.5	51	Mediu	ım
				BLO	CKS						
Number	Name	Area	Vol	ume							
1	Block1	1841	165	69 cu ft							
				SPA	CES						
Number	Name	Area	Volume	Kitchen	Occupants	Bed	Irooms	Finished	Coole	d H	eated
1	1st Floor	1841	16569	Yes	8		4	Yes	Yes	;	Yes
				FLO	ORS	((Total Ex	kposed Are	ea = 184	11 sq.	ft.)
# Floor	Туре	Space	Exposed	Perim	Perimeter R-Va	alue Are	a U-Facto	or Joist R-Value	e Tile W	/ood	Carpet
1 Slab-On	-Grade Edge Ins	1st Floor	198	3	0	184	1 ft 0.304	4	0.00	0.00	1.00
				RO	OF						
√# Type		Materials		oof rea	Gable Roof Area Color			SA Emit Tested	t Emitt Tested	Deck Insul.	Pitch (deg)
1 Hip		Composition shingle	es 22	13 ft²	0 ft² Mediu	m Y	0.96	No 0.9	No	0	33.69
				ΑT	TIC						
√# Type		Ventilation		Vent F	Ratio (1 in)	Area	RBS	IRCC	;		
1 Full attic	;	Vented			300	1841 ft²	Υ	N			
				CEIL	ING		(Total Ex	kposed Are	ea = 190	33 sq.	ft.)
√# Ceiling	д Туре		Space	R-V	alue Ins. Typ	oe A	rea U-F	actor Framin	g Frac.	Truss	з Туре
1 Flat ceili	ing under attic(Vented	1) 19	st Floor	38	.0 Double E	3att 193	3.0ft² 0.	024 0.	11	W	ood

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS	3		(T	ota	al Expo	sed	Area :	= 171	3 sq.1	ft.)
√# Ornt	Adjacent To	Wall Type		Space	!		vity ⁄alue	Width Ft I		Heigl Ft I		Area sq.ft.	U- Factor	Sheath R-Valu		Solar . Absor.	Below Grade
1 N 2 N 3 W 4 S 5 W 6 S 7 E 8 S 9 S 10 E	Exterio Garage Exterio Exterio Exterio Exterio Exterio Exterio	Frame - Wood	1 1 1 1 1 1 1	1st 1st 1st 1st 1st 1st 1st	Floor Floor Floor Floor Floor Floor Floor Floor Floor	1 1 1 1 1 1	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	26.0 18.0 3.0 18.0 25.0 8.0 16.0 12.0	2 2 4 6 0 8 0 6 8 4	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	0 0 0 0 0 0 0	289.5 235.5 165.0 31.5 162.0 231.0 72.0 148.5 114.0 264.0	0.084 0.084 0.084 0.084 0.084 0.084		0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 % 0 % 0 % 0 % 0 %
						DO	ORS	3			(T	otal Ex	kpose	ed Are	a = 4	0 sq.1	ft.)
√# Ornt Adjacent To Door Type Space Storms U-Value Ft In Ft In Area																	
1 N	Exte Gara			1st Flo 1st Flo				one		0.4 0.4		3.00 3.00		6.00 6.00	8 8	20.0 20.0	
WINDOWS (Total Exposed Area = 177 sq.ft.)																	
. /	Wall ID Frame	e Panes	NFRC I	U-Factor	SHGC	lmp	Storm	Total Area (ft²)	Sa Ur		dth ft)	Height (ft)	Overl Depth (ft)	•	Interior	Shade	Screen
1 N 2 W 3 S 4 S 5 S 6 S 7 E	1 Vinyl 3 Vinyl 6 Vinyl 6 Vinyl 8 TIM 9 Vinyl 10 Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Y Y Y Y Y	0.36 0.36 0.36 0.36 0.36 0.36	0.25 0.25 0.25 0.25 0.25 0.25 0.25		N N N N N N	60.0 16.0 30.0 12.0 40.0 15.0 4.0	2	1 4. 2 3. 1 4. 2 3. 1 3.	00 00 00 00 00 00 00	5.00 4.00 5.00 3.00 6.67 5.00 1.00	4.5 1.5 1.5 1.5 9.5 1.5	1.0 1.0 1.0 1.0 1.0 1.0 1.0	No No No No No No	ne ne ne ne ne	None None None None None None
					INF	ILT	RAT	ION									
/# Scope		Method roposed ACH(50)	SL 0.00		CFM50 1381		ELA 5.75	EqL		ACF 0.102		ACH50) Spac		Infiltra	tion Test	Volume
						GAF	RAG	E									
√ #	Floor A	rea l	Roof Area	a	Ex	posed	Wall F	Perimete	er		Avg	. Wall He	ight	Expo	osed Wa	all Insula	tion
1	539 ft	2	539 ft²				66 ft					9 ft			1		
						M	ASS										
√# Mas	s Type		Are	ea		TI	nicknes	ss		Furniture	e Fra	action	;	Space			
1 Defa	ault(8 lbs/sq.f	t.)	0 1	ft²			0 ft			0.	30		,	1st Floor			

INPUT SUMMARY CHECKLIST REPORT

					НЕ	EATING	SYS	ГЕМ						
\ #	System Type		Sul	otype/Spee	d	AHRI#	Efficienc			Geothe itry Pov		atPump /olt Curre		Block
1	1 Electric Heat P	ump	N	one/Single			HSPF2: 8.	20	27.3	0.0	0 0	.00 0.0	0 sys#1	1
COOLING SYSTEM														
\ #	System Type		Sul	otype/Spee	d	AHRI#	Efficie	псу	Capacity kBtu/hr		r Flow cfm	SHR	Duct	Block
1	1 Central Unit			None/Sing	le		SEER2:	14.0	21.9	(660	0.70	sys#1	1
HOT WATER SYSTEM														
/ #	System Type	Subtype		Location		EF(UEF)	Сар	Use	SetPnt	Fixture	Flow	Pipe Ins.	Pip	e length
1	1 Electric	None		Garage		0.92 (0.92)	50.00 gal	40 ga	al 120 deg	Stan	dard	None		12
	Recirculation System		Control ype		Loop length	Branch length	Pump power	DWH	R Faciliti Connec			DWHR Eff	Othe	er Credits
1	1 No				NA	NA	NA	No	NA	N	Ą	NA	Nor	ne
						DU	CTS							
√ ^{Dι}		ply R-Value Ar		Retu ation f			Leakage T	уре	Air Handler	CFM 25 TOT	CFM 2 OUT		RLF H	HVAC # leat Cool
1	1 Attic	6.0 460 ff	t² Attic		6.0	92 ft² D	efault Lea	kage	1st Floor	(Default) (Default))		1 1
					Т	EMPER	ATUR	ES						
Co He	ogramable Thermo oling [] Jan ating [X] Jan nting [] Jan	stat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	1[] 1[]	May []	Jun [Jun	X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] [] [X]	Oct [X] Nov [] Nov [] Nov	[] Dec [X] Dec [] Dec
	Thermostat Schedu Schedule Type	ıle: HERS 20	006 Refere 1	nce 2	3	4	5	Ho 6	ours 7	8	9	10	11	12
(Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
	Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
H	Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
H	Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 92

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

352 SW Buttercup Lane, Lake City, FL, 32025

 New construction or existing 	New (F	rom Plans)	10. Wall Types(1713.0 sqft.)	Insulation Area
2. Single family or multiple family		Detached	a. Frame - Wood, Exterior	R=13.0 1477.50 ft ²
3. Number of units, if multiple fam	ily	1	b. Frame - Wood, Adjacent c. N/A	R=13.0 235.50 ft ²
4. Number of Bedrooms		4	d. N/A	
5. Is this a worst case?		No	11. Ceiling Types(1933.0 sqft.)	Insulation Area
Conditioned floor area above g Conditioned floor area below g		1841 0	a. Flat ceiling under att (Vented)b. N/Ac. N/A	R=38.0 1933.00 ft ²
7. Windows** Descrip a. U-Factor: Dbl, U= SHGC: SHGC= b. U-Factor: N/A SHGC: c. U-Factor: N/A	0.36	Area 177.00 ft ² ft ²	 12. Roof(Comp. Shingles, Vented) 13. Ducts, location & insulation lev a. Sup: Attic, Ret: Attic, AH: 1st F b. c. 14. Cooling Systems 	el R ft ²
SHGC: Area Weighted Average Overhar Area Weighted Average SHGC:		4.325 ft 0.250	a. Central Unit	21.9 SEER2:14.00
8. Skylights Descrip U-Factor:(AVG) N/A SHGC(AVG): N/A	otion	Area N/A ft²	15. Heating Systems a. Electric Heat Pump	kBtu/hr Efficiency 27.3 HSPF2:8.20
 Floor Types Slab-On-Grade Edge Insulation N/A N/A 	Insulation on R= 0.0 R= R=	Area 1841.00 ft ² ft ² ft ²	16. Hot Water Systemsa. Electricb. Conservation features	Cap: 50 gallons EF: 0.920
			17. Credits	None 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: _____ Date: _____
Address of New Home: 352 SW Buttercup Lane City/FL Zip: Lake City,FL,32025



*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: NA
Address: 352 SW Buttercup Lane	
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 tes 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 shat the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Cal	
CFM(50) x 60 ÷ 16569 = 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/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 theode official. Testing shall be performed at any time after creation buring testing:	193(5) or (7F,lorida Statues.or individuals licensed as set forth in Section is ultrastrations of the test shall be signed by the party conducting the test and lation of all penetrations of the ultrastration of the ultrastration of all penetrations of the ultrastration of ultrastration of the ultrastratio
 Exterior windows and doors, fireplace and stove doors shall be closed, b control measures. Dampers including exhaust, intake, makeup air, back draft and flue damp measures. Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery vent Heating and cooling systems, if installed at the time of the test, shall be test. Supply and return registers, if installed at the time of the test, shall be full 	pers shall be closed, but not sealed beyond intended infiltration control ilators shall be closed and sealed. urned off.
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:

352 SW Buttercup Lane Lake City, FL 32025 Project Title: 352 SW Buttercup Lane

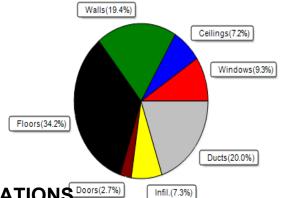
7/25/2023

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(152 ft.) Ter	mp Range(M	l)					
Humidity data: Interior RH (50%	6) Outdooi	r wet bulb (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	27350	Btuh	Total cooling load calculation	21936	Btuh					
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh					
Total (Electric Heat Pump)	100.0	27350	Sensible (SHR = 0.70)	86.6	15355					
Heat Pump + Auxiliary(0.0kW)	100.0	27350	Latent	156.6	6581					
			Total (Electric Heat Pump)	100.0	21936					

WINTER CALCULATIONS

Winter Heating Load (for 1841 sqft)

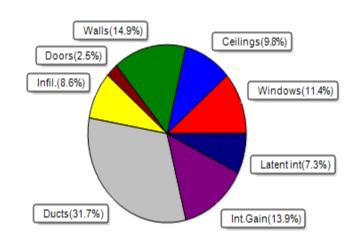
Load component			Load	
Window total	177	sqft	2549	Btuh
Wall total	1496	sqft	5311	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1933	sqft	1962	Btuh
Floor total	1841	sqft	9346	Btuh
Infiltration	45	cfm	1987	Btuh
Duct loss			5458	Btuh
Subtotal			27350	Btuh
Ventilation	Ex:0 cfm; Sup:0	cfm (0	Btuh
TOTAL HEAT LO	SS		27350	Btuh



SUMMER CALCULATIONS Doors (2.7%)

Summer Cooling Load (for 1841 sqft)

Load component			Load	
Window total	177	sqft	2490	Btuh
Wall total	1496	sqft	3262	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	1933	sqft	2159	Btuh
Floor total			0	Btuh
Infiltration	34	cfm	708	Btuh
Internal gain			3040	Btuh
Duct gain			5524	Btuh
Sens.Ventilation Ex:0	cfm; Sup:0	cfm (0	Btuh
Blower Load			0	Btuh
Total sensible gain			17734	Btuh
Latent gain(ducts)			1427	Btuh
Latent gain(infiltration)			1175	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occu	ipants/othe	er)	1600	Btuh
Total latent gain			4201	Btuh
TOTAL HEAT GAIN			21936	Btuh





EnergyGauge® System Sizing PREPARED BY:
DATE: 7 / 26 / 2023

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

352 SW Buttercup Lane Lake City, FL 32025 Project Title: 352 SW Buttercup Lane Building Type: User

7/25/2023

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 °F (TMY3 99%) Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Fram	ne U	Orientation A	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl		N	60.0	14.4	864 Btuh
2	2, NFRC 0.25	Vinyl	0.36	W	16.0	14.4	230 Btuh
3	2, NFRC 0.25	Vinyl		S	30.0	14.4	432 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	12.0	14.4	173 Btuh
5	2, NFRC 0.25	TIM	0.36	S	40.0	14.4	576 Btuh
6	2, NFRC 0.25	Vinyl	0.36	S	15.0	14.4	216 Btuh
7	2, NFRC 0.25	Vinyl	0.36	Е	4.0	14.4	58 Btuh
	Window Total				177.0(sqft)		2549 Btuh
Walls	Туре	Ornt.	Ueff.	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	210	3.55	744 Btuh
2	Frame - Wood	- Adj	(0.089)	13.0/0.0	216	3.55	765 Btuh
3	Frame - Wood		(0.089)	13.0/0.0	149	3.55	529 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	32	3.55	112 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	162	3.55	575 Btuh
6	Frame - Wood		(0.089)	13.0/0.0	189	3.55	671 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	72	3.55	256 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	109	3.55	385 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	99	3.55	351 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	260	3.55	923 Btuh
	Wall Total				1496(sqft)		5311 Btuh
Doors	Туре		n Ueff.		Area X	HTM=	Load
1	Insulated - Exter		` '		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	Flat ceil/M/Shing	g (C).025)	38.0/0.0	1933	1.0	1962 Btuh
	Ceiling Total				1933(sqft)		1962Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	198.0 ft(per	im.) 47.2	9346 Btuh
	Floor Total				1841 sqft		9346 Btuh
				_	Envelope Subto	stal:	19904 Btuh
					Tivelope Subit	nai.	19904 Diuli
Infiltration	Туре	Who	lehouse A	•	•	I .	
	Natural		0	.16 16569	1.00	45.4	1987 Btuh
Duct load	Average sealed,	, R6.0, S	Supply(Att), Return(Att)	(DLM	of 0.249)	5458 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title: 352 SW Buttercup Lane

352 SW Buttercup Lane Lake City, FL 32025

Building Type: User

7/25/2023

All Zones		Sensible Subtotal All Zones	27350 Btuh
WHOLE HOUS	E TOTALS		
Totals for Heating		Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	27350 Btuh 0 Btuh 27350 Btuh
EQUIPMENT			
1. Electric Hea	at Pump	#	27350 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

352 SW Buttercup Lane Lake City, FL 32025 Project Title: 352 SW Buttercup Lane

7/25/2023

Reference City: Gainesville, FL (Defaults)

Humidity difference: 51gr.

Temperature Difference: 19.0F(TMY3 99%)

Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

	Type ³	*		Over	hang	Wind	ow Area(sqft)		F	ITM	Load	
Window	Panes SHGC U I		Ornt	Len	Hgt	Gross		Ùnshaded	Shaded	Unshaded		
1	2 NFRC 0.25, 0.36	No N		4.5ft.	1.0ft.	60.0	0.0	60.0	12	12	726	Btuh
2	2 NFRC 0.25, 0.36	No N	w c	1.5ft.	1.0ft.	16.0	1.0	15.0	12	31	477	Btuh
3	2 NFRC 0.25, 0.36	No N	o S	1.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
4	2 NFRC 0.25, 0.36	No N	o S	1.5ft.	1.0ft.	12.0	12.0	0.0	12	14	145	Btuh
5	2 NFRC 0.25, 0.36	No N		9.5ft.	1.0ft.	40.0	40.0	0.0	12	14	484	Btuh
6	2 NFRC 0.25, 0.36	No N		1.5ft.	1.0ft.	15.0	15.0	0.0	12	14	181	Btuh
7	2 NFRC 0.25, 0.36	No N	о Е	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh
	Excursion										9	Btuh
	Window Total					177 (s	sqft)				2490	Btuh
Walls	Туре		U	-Value	e R-\	/alue	Area	(sqft)		HTM	Load	
	• •				Cav/S	Sheath						
1	Frame - Wood - Ext			0.09		0/0.0	209	9.5		2.3	474	Btuh
2	Frame - Wood - Adj			0.09	13.0	0/0.0	215	5.5		1.7	363	Btuh
3	Frame - Wood - Ext			0.09	13.0	0.0/	149	9.0		2.3	337	Btuh
4	Frame - Wood - Ext			0.09	13.0	0/0.0	31	.5		2.3	71	Btuh
5	Frame - Wood - Ext			0.09	13.0	0/0.0	162	2.0		2.3	367	Btuh
6	Frame - Wood - Ext			0.09	13.0	0/0.0	189			2.3	428	Btuh
7	Frame - Wood - Ext			0.09		0/0.0	72			2.3	163	Btuh
8	Frame - Wood - Ext			0.09		0/0.0	108			2.3	246	Btuh
9	Frame - Wood - Ext			0.09		0/0.0	99			2.3	224	Btuh
10	Frame - Wood - Ext			0.09	13.0	0/0.0	260			2.3	588	Btuh
	Wall Total							6 (sqft)			3262	Btuh
Doors	Туре						Area	(sqft)		HTM	Load	
1	Insulated - Exterior						20	.0		13.8	276	Btuh
2	Insulated - Garage						20	.0		13.8	276	Btuh
	Door Total						4	0 (sqft)			552	Btuh
Ceilings	Type/Color/Surfa	асе	U	-Value	Э	R-Value				HTM	Load	
1	Vented Attic/Med/Shir	nale/RB		0.025		38.0/0.0	193	3.0		1.12	2159	Btuh
	Ceiling Total	5					193	3 (sqft)			2159	Btuh
Floors	Туре				R-\	/alue	Siz			HTM	Load	
1	Slab On Grade					0.0	18	41 (ft-perir	neter)	0.0	0	Btuh
	Floor Total					0.0		0 (sqft)	,	0.0	1	Btuh
	1 looi 1 otal						1041.	o (sqit)			0	Dian
							Eı	nvelope	Subtota	ıl:	8463	Btuh
Infiltration	Туре		Avei	age A	CH	Volur	ne(cuft) Wall R	atio	CFM=	Load	
	Natural		, 1101	~go /	0.12		16569			34.0	708	Btuh
Internal				Occup				cupant		Appliance	Load	
gain				Cooap	8	>			,	1200	3040	Btuh
yanı					0	/	\	U T		1200	3040	Diuil
							Se	ensible E	Envelop	e Load:	12211	Btuh

Manual J Summer Calculations

352 SW Buttercup Lane Lake City, FL 32025

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
352 SW Buttercup Lane

7/25/2023

Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.452)	5524 Btuh
		Sensible Load All Zones	17734 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

352 SW Buttercup Lane Lake City, FL 32025

Climate:FL GAINESVILLE REGIONAL A Project Title: 352 SW Buttercup Lane

7/25/2023

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones Sensible Duct Load		Btuh
			Btuh
	Total Sensible Zone Loads	17734	Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0	Btuh
Blower		0	Btuh
Whole House	Total sensible gain	17734	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1175	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1427	Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600	Btuh
Latent other gain		0	Btuh
	Latent total gain	4201	Btuh
	TOTAL GAIN	21936	Btuh

EQUIPMENT						
1. Central Unit	#	21936 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