FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Street: City, State, Zip: Owner: Design Location:	125 Milkweed Ct 125 Milkweed Ct Lake City, FL, 32 Peter & Anna Le FL, Gainesville	025		Builder Name: Permit Office: Columbia Coun Permit Number: Jurisdiction: County: Columbia(Floric	nty da Climate Zone 2)
7. Windows(220.3 a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: Area Weighted Ave Area Weighted Ave 8. Skylights U-Factor:(AVG) SHGC(AVG): 9. Floor Types a. Slab-On-Grade b. N/A	multiple family if multiple family boms se? r area above grad r area below grade sqft.) Description Dbl, U=0.3 SHGC=0.2 N/A N/A N/A erage Overhang Derage SHGC: Description N/A N/A	e (ft²) e (ft²) n 6 25 Depth: Insulation R= 0.0 R=	Tom Plans) Detached 1 3 No 1888 0 Area 220.33 ft² ft² ft² 2.789 ft 0.250 Area N/A ft² Area 1888.00 ft² ft²	10. Wall Types (1757.8 sqft.) a. Concrete Block - Int Insul, Exb. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1982.0 sqft.) a. Flat ceiling under att (Vented b. N/A c. N/A 12. Roof (Comp. Shingles, Vente 13. Ducts, location & insulation le a. Sup: Attic, Ret: Attic, AH: Mab. c. 14. Cooling Systems a. Central Unit 15. Heating Systems a. Electric Heat Pump	R=13.0 244.22 ft ² Insulation Area) R=38.0 1982.00 ft ² d) Deck R=0.0 2269 ft ² evel R ft ²
c. N/A		R=	ft²	b. Conservation features17. Credits	None CV, Pstat
Glass/Floor Area:0.	117	Total Pr	oposed Modifie Total Baselir		PASS
I hereby certify that this calculation are i Code. PREPARED BY: DATE: I hereby certify that with the Florida Ene OWNER/AGENT: DATE:	12 / 20 this building, as d	the Florida I / 2022 esigned, is in	Energy and a compliance	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 regu	iires certification	bv the air h	andler unit m	anufacturer that the air handler en	iclosure qualifies as

- 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

				PRO	JECT						
Title: Building Type: Owner: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	125 Milkweed Ct User Peter & Anna Lev Columbia County Detached New (From Plans) 2022		Bedrooms Condition Total Stor Worst Ca: Rotate Ar Cross Vel Whole Ho Terrain: Shielding:	ed Area: ies: se: agle: ntilation: use Fan:	3 1888 1 No 0 Yes No Suburban Suburban	Lot # Block PlatE Stree Cour	c/SubDivisio sook: et:	Street Add on: 125 Milkwe Columbia Lake City, FL, 32025			
				CLIM	ATE						
Design Location		Tmy Site		Desi 97.5%	gn Temp 2.5%	Int Desig Winter		Heating Degree Days	Design Moisture	Dai Rar	ly temp nge
FL, Gainesville		FL_GAINESVILLE_I	REGIONA	. 32	92	70	75	1305.5	51	Mediu	ım
				BLO	CKS						
Number	Name	Area	Vol	ume							
1	Block1	1888	176	15 cu ft							
				SPA	CES						
Number	Name	Area	Volume	Kitchen	Occupants	Bedr	ooms	Finished	Cool	ed H	eated
1	Main	1888	17615	Yes	6	3	3	Yes	Ye	s	Yes
				FLO	ORS	(Γotal Ex	posed Are	ea = 18	88 sq.	.ft.)
√# Floor Typ	е	Space	Exposed	Perim	Perimeter R-V	alue Area	U-Facto	r Joist R-Value	e Tile \	Vood	Carpet
1 Slab-On-Gr	ade Edge Ins	Main	188.67	7	0	1888	ft 0.304		0.00	0.00	1.00
				RO	OF						
√# Type		Materials		oof rea	Gable Room		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
1 Hip	1	Composition shingle	s 220	69 ft²	0 ft² Ligh	: Y	0.96	No 0.9	No	0	33.69
				ΑT	ГІС						
/# Type		Ventilation		Vent F	Ratio (1 in)	Area	RBS	IRCC			
1 Full attic		Vented			300	1888 ft²	Υ	N			
				CEIL	.ING	(Γotal Ex	posed Are	ea = 19	82 sq.	.ft.)
# Ceiling Ty	/ре	5	Space	R-Va	alue Ins. Ty	pe Are	a U-Fa	actor Framin	g Frac.	Truss	з Туре
	under attic(Vented)		Main	38		Batt 1982	.0ft² 0.0	024 0.1			ood

INPUT SUMMARY CHECKLIST REPORT

							W	ALLS	3			(Tota	al Exp	osed	Area =	= 175	8 sq.1	t.)
√# Ornt	Adjacer To	nt	Wall Type		Space)		avity ·Value	Width Ft I			eight In	Area sq.ft.		Sheath R-Value		Solar . Absor.	Below Grade
1 S 2 S 3 E 4 S 5 E 6 N 7 W	Ext Ga Ga Ext Ext	erior erior rage rage erior erior erior	Conc. Blk - In Conc. Blk - In Frame - Wood Frame - Wood Conc. Blk - In Conc. Blk - In	t Ins d d t Ins t Ins	N N N N	Main Main Main Main Main Main		5.0 5.0 13.0 13.0 5.0 5.0	12.0 28.0 4.0 22.0 27.0 62.0 31.0	0 8 2 0 2 8	9.0 9.0 9.0 9.0 9.0 9.0) 4) 4) 4) 4) 4	112.0 267.6 38.9 205.3 253.6 584.9 295.6	0.132 0.084 0.084 0.132 0.132	2 - - - -	0 0 0.23 0.23 0 0	0.75 0.75 0.75 0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 % 0 % 0 %
							DC	ORS	3			(T	otal E	xpose	ed Are	a = 4	0 sq.1	t.)
# Ornt Adjacent To Door Type Space Storms U-Value Ft In Ft In Area										ea								
1 S 2 E											0.46 3.00 0 6.00 8 20.0ft² 0.46 3.00 0 6.00 8 20.0ft²							
						V	/IN	DOW	/S			(To	tal Ex	posed	d Area	= 22	20 sq.1	t.)
/	Wall ID Fr	ame	Panes	NFRC	U-Factor	SHGC	lmp	Storm	Total Area (ft²)		ime nits	Width (ft)	Height (ft)	Over Depth (ft)		Interior	Shade	Screen
1 S 2 S 3 S 4 S 5 E 6 N 7 E 8 N 9 N 10W	2 T 2 V 2 V 5 V 6 V 6 V 6 T	'inyl 'inyl 'inyl 'inyl 'inyl 'inyl 'inyl	Low-E Double	Y Y Y Y Y Y Y	0.36 0.36 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 0.25	N N N N N N N N N N N N N N N N N N N	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	30.0 13.3 25.0 9.0 10.0 60.0 20.0 9.0 40.0 4.0		2 2 2 1 1 4 1 1 2	3.00 1.00 2.50 3.00 2.00 3.00 5.00 3.00 4.00	5.00 6.67 5.00 3.00 5.00 5.00 4.00 3.00 6.67 1.00	1.5 7.5 7.5 7.5 1.5 1.5 1.5 1.5	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	No No No No No No No No	ne ne ne ne ne ne ne	None None None None None None None None
						INF	ILT	RAT	ION									
/# Scope		Meti	hod osed ACH(50)		_A 0	CFM50 1468		ELA 80.53	EqL			CH 1042	ACH5	0 Spac		Infiltra	tion Test	Volume
							3 A	RAG	E									
\ #	Floo	r Area		Roof Are	а			d Wall F		er		Avg	. Wall He	eight	Ехро	sed Wa	all Insula	tion
1	49	1 ft²		491 ft²				58 ft					9 ft			1	l	
							M	ASS										
√# Mas	ss Type			Ar	ea		Т	hicknes	ss		Furnit	ure Fra	action		Space			
1 Defa	ault(8 lbs/	sq.ft.)		0	ft²			0 ft				0.30			Main			

INPUT SUMMARY CHECKLIST REPORT

					Н	EATING	G SYS	TEM							
\ #	System Type		Sub	otype/Spee	d	AHRI#	Efficiend	су	Capaci kBtu/h		Geothe try Pov		atPump olt Curr		Block
1	Electric Heat Po	ump	N	one/Single			HSPF: 8.	.20	30.0		0.0	0 0	.00 0.0	0 sys#1	1
					CC	OOLIN	G SYS	TEM							
\ #	System Type		Sub	otype/Spee	d	AHRI#	Efficie	ency		Capacity kBtu/hr		Flow cfm	SHR	Duct	Block
1	Central Unit			None/Sing	le		SEER:	:14.0	21.2		(630	0.70	sys#1	1
HOT WATER SYSTEM															
/ #	System Type	Subtype		Location		EF(UEF)	Сар	U	se	SetPnt	Fixture	Flow	Pipe Ins	. Pip	e length
1	Electric	None		Garage		0.92 (0.92	2) 50.00 ga	ıl 40	gal ´	120 deg	Stan	dard	None		12
	Recirculation System		c Control ype		Loop length	Branch length	Pump power	DW		Facilitie Connec			DWHR Eff	Othe	er Credits
1	No				NA	NA	NA	No		NA	N	4	NA	Nor	ne
						DU	ICTS								
V Buct		ply R-Value Ai		Reton I		 e Area	Leakage ¹	Гуре		Air Indler	CFM 25 TOT	CFM 2 OUT		RLF H	HVAC # leat Cool
1 A	ttic	6.0 472 1	ft² Attic		6.0	94 ft²	Default Lea	akage	N	/lain	(Default) (Default)			1 1
					Т	EMPE	RATUF	RES							
Progr Coolii Heatii Ventii	ng [X] Jan	stat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] []	May [ː	(] Jun] Jun	[X] Jul [] Jul [] Jul	[]] Aug Aug Aug	[X] Sep [] Sep [] Sep	[]([](Oct [X] Nov 〈] Nov 〈] Nov	[] Dec [X] Dec [] Dec
,	ermostat Schedu nedule Type	ıle: HERS 2	:006 Referer 1	nce 2	3	4	5	6	Hours 7	7	8	9	10	11	12
Co	oling (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
Co	oling (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
He	ating (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
Hea	ating (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* = 97

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

125 Milkweed Ct, Lake City, FL, 32025

1.	New construction or ex	isting	New (Fr	om Plans)		Wall Types(1757.8 sqft.)	Insulatio	
2.	Single family or multiple	e family		Detached		Concrete Block - Int Insul, Exterio		1513.60 ft ²
3.	Number of units, if mult	iple family		1		Frame - Wood, Adjacent N/A	R=13.0	244.22 ft ²
4.	Number of Bedrooms			3		N/A		
5.	Is this a worst case?			No		Ceiling Types(1982.0 sqft.)	Insulatio	_
6.	Conditioned floor area			1888 0	b.	Flat ceiling under att (Vented) N/A N/A	R=38.0	1982.00 ft ²
а	Windows** . U-Factor: SHGC: . U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25 N/A		Area 220.33 ft ² ft ²	12. 13.	Roof(Comp. Shingles, Vented) D Ducts, location & insulation level Sup: Attic, Ret: Attic, AH: Main	eck R=0.0	2269 ft ² R ft ² 6 472
	. U-Factor: SHGC: .rea Weighted Average	N/A Overhang De	epth:	ft ² 2.789 ft	14.	Cooling Systems Central Unit	kBtu/hr 21.2	Efficiency SEER:14.00
Α	rea Weighted Average	SHGC:	•	0.250				
	Skylights U-Factor:(AVG) SHGC(AVG):	Description N/A N/A		Area N/A ft²		Heating Systems Electric Heat Pump	kBtu/hr 30.0	Efficiency HSPF:8.20
a b	Floor Types . Slab-On-Grade Edge . N/A . N/A	Insulation F F	Insulation R= 0.0 R= R=	Area 1888.00 ft ² ft ² ft ²	a.	Hot Water Systems Electric Conservation features	Сар	o: 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: _____



*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.

Address of New Home: 125 Milkweed Ct

City/FL Zip: Lake City,FL,32025

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: 125 Milkweed Ct	
City: Lake City State	e: FL Zip: 32025
Air Leakage Test Results Passing results must mee	t 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 Clin	sted and verified as having an air leakage rate of not exceeding 7 air nate Zones 1 and 2.
PERFORMANCE or ERI METHOD-The building or dwelling unit sh the selected ACH(50) value, as shown on Form R405-2020 (Performance ACH(50) specified on Form R405-2020-Energy Ca	
x 60 ÷ 17615 Building Volume = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation must be verified by building department.	Method for calculating building volume: ○ Retrieved from architectural plans ○ Code software calculated installation Field measured and calculated
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/F Testing shall be conducted by either individuals as defined in Section 553.489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to the code official. Testing shall be performed at any time after creating shall be conducted in accordance with ANSI/F and Section 553.	esults 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, be control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dam measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ven. 5. Heating and cooling systems, if installed at the time of the test, shall be 6. Supply and return registers, if installed at the time of the test, shall be full.	npers shall be closed, but not sealed beyond intended infiltration control tilators shall be closed and sealed. turned off.
Testing Company	
Company Name: I hereby verify that the above Air Leakage results are in accordance 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

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025 Project Title: 125 Milkweed Ct

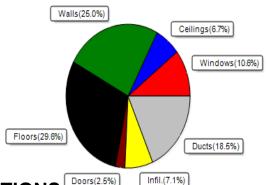
12/20/2022

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(152 ft.) Ter	np Range(M	l)					
Humidity data: Interior RH (50%	6) Outdoo	r wet bulb (7	77F) Humidity difference(51gr.)							
Winter design temperature(TMY3	399%) 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	30037	Total cooling load calculation	21238	Btuh						
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh					
Total (Electric Heat Pump)	100.0	30037	Sensible (SHR = 0.70)	85.8	14867					
Heat Pump + Auxiliary(0.0kW)	100.0	30037	Latent	162.5	6371					
Total (Electric Heat Pump) 100.0 21238										

WINTER CALCULATIONS

Winter Heating Load (for 1888 sqft)

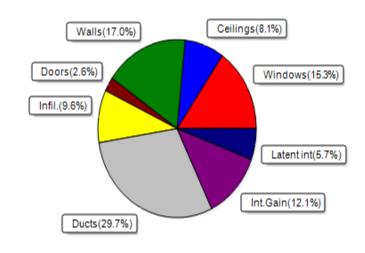
Load component			Load	·
Window total	220	sqft	3173	Btuh
Wall total	1497	sqft	7496	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1982	sqft	2012	Btuh
Floor total	1888	sqft	8905	Btuh
Infiltration	49	cfm	2143	Btuh
Duct loss			5571	Btuh
Subtotal			30037	Btuh
Ventilation	Ex:0 cfm; Sup:0	cfm	0	Btuh
TOTAL HEAT LO	oss		30037	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1888 sqft)

Load component			Load	
Window total	220	sqft	3256	Btuh
Wall total	1497	sqft	3611	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	1982	sqft	1710	Btuh
Floor total			0	Btuh
Infiltration	37	cfm	764	Btuh
Internal gain			2580	Btuh
Duct gain			4845	Btuh
Sens.Ventilation Ex:0	cfm; Sup:0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			17318	Btuh
Latent gain(ducts)			1453	Btuh
Latent gain(infiltration)			1267	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occu	pants/othe	er)	1200	Btuh
Total latent gain			3920	Btuh
TOTAL HEAT GAIN			21238	Btuh





EnergyGauge® System Sizing PREPARED BY:
DATE: 12 / 20 / 2022

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025 Project Title: 125 Milkweed Ct Building Type: User

12/20/2022

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	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	S	30.0	14.4	432 Btuh
2	2, NFRC 0.25	TIM	0.36	S	13.3	14.4	192 Btuh
3	2, NFRC 0.25	Vinyl	0.36	S	25.0	14.4	360 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	9.0	14.4	130 Btuh
5	2, NFRC 0.25	Vinyl	0.36	Е	10.0	14.4	144 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	60.0	14.4	864 Btuh
7	2, NFRC 0.25	Vinyl	0.36	Е	20.0	14.4	288 Btuh
8	2, NFRC 0.25	Vinyl	0.36	Ν	9.0	14.4	130 Btuh
9	2, NFRC 0.25	TIM	0.36	N	40.0	14.4	576 Btuh
10	2, NFRC 0.25	Vinyl	0.36	W	4.0	14.4	58 Btuh
	Window Total				220.3(sqft)		3173 Btuh
Walls	Туре	Ornt. Ue	eff.	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Conc Blk,Hollow	- Ext (0.	132)	5.0/0.0	82	5.26	432 Btuh
2	Conc Blk,Hollow	,	,	5.0/0.0	200	5.26	1054 Btuh
3	Frame - Wood	- Adj (0.	,	13.0/0.0	19	3.55	67 Btuh
4	Frame - Wood	• `	089)	13.0/0.0	205	3.55	729 Btuh
5	Conc Blk,Hollow	,	,	5.0/0.0	224	5.26	1176 Btuh
6	Conc Blk,Hollow	,	,	5.0/0.0	476	5.26	2504 Btuh
7	Conc Blk,Hollow	- Ext (0.	132)	5.0/0.0	292	5.26	1534 Btuh
	Wall Total				1497(sqft)		7496 Btuh
Doors	Туре	Storm U			Area X	HTM=	Load
1	Insulated - Exteri				20	18.4	368 Btuh
2	Insulated - Garaç	ge, n (0.	460)		20	18.4	368 Btuh
	Door Total				40(sqft)		736Btuh
Ceilings	Type/Color/Surfa			R-Value	Area X	HTM=	Load
1	Flat ceil/L/Shing	(0.0)	25)	38.0/0.0	1982	1.0	2012 Btuh
	Ceiling Total				1982(sqft)		2012Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	((1.180)	0.0	188.7 ft(pe	rim.) 47.2	8905 Btuh
	Floor Total				1888 sqft		8905 Btuh
					Envelope Subt	otol:	22323 Btuh
					Envelope Subt	olai.	ZZ3Z3 Bluii
Infiltration	Туре	Wholeh					
	Natural		0	.17 1761	5 1.00) 48.9	2143 Btuh
Duct load	Average sealed,	R6.0, Sup	ply(Att), Return(Att) (DLM	1 of 0.228)	5571 Btuh
				•	,	´	

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025

1. Electric Heat Pump

Project Title: 125 Milkweed Ct Building Type: User

12/20/2022

All Zones		Sensible Subtotal All Zones							
WHOLE HOUS	E TOTALS								
Totals fo	r Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss	30037 Btuh 0 Btuh 30037 Btuh						
EQUIPMENT									

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)

#



30037 Btuh

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025 Project Title: 125 Milkweed Ct

12/20/2022

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*				Over	hang	Wind	ow Area	a(sqft)	H	ITM	Load		
Window	Panes SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC 0.25,	0.36	No	No	S	1.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
2	2 NFRC 0.25,		No	No	S	7.5ft.	1.0ft.	13.3	13.3	0.0	12	14	161	Btuh
3	2 NFRC 0.25,		No	No	S	7.5ft.	1.0ft.	25.0	25.0	0.0	12	14	302	Btuh
4	2 NFRC 0.25,		No	No	S	7.5ft.	1.0ft.	9.0	9.0	0.0	12	14	109	Btuh
5 6	2 NFRC 0.25, (2 NFRC 0.25, (No No	No No	E N	1.5ft. 1.5ft.	1.0ft. 1.0ft.	10.0 60.0	0.5 0.0	9.5 60.0	12 12	31 12	300 726	Btuh Btuh
7	2 NFRC 0.25, 0		No	No	E	1.5ft.	1.0ft.	20.0	1.2	18.8	12	31	596	Btuh
8	2 NFRC 0.25,		No	No	N	1.5ft.	1.0ft.	9.0	0.0	9.0	12	12	109	Btuh
9	2 NFRC 0.25,		No	No	N	1.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh
10	2 NFRC 0.25,		No	No	W	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh
	Window Tota	al						220 (s	sqft)				3256	Btuh
Walls	Туре				U	-Valu	e R-∖	/alue	Área	(sqft)		HTM	Load	
							Cav/S	Sheath						
1	Concrete Blk,He					0.13	5.0/0			2.0		2.5	208	Btuh
2	Concrete Blk,He		Ext			0.13	5.0/0			0.2		2.5	508	Btuh
3	Frame - Wood -	,				0.09	13.0			3.9		1.7	32	
4 5	Frame - Wood - Concrete Blk,He	,	⊏vt			0.09 0.13	13.0 5.0/0			5.3 3.6		1.7 2.5	346 568	Btuh Btuh
6	Concrete Blk,He					0.13	5.0/0			5.0 5.9		2.5	1208	Btuh
7	Concrete Blk,He					0.13	5.0/0			1.6		2.5	740	Btuh
,	Wall Total	Ollow	LA			0.10	0.0/	5.0		7 (sqft)		2.0	3611	
Doors	Туре								Area	(sqft)		HTM	Load	
1	Insulated - Exte	rior							20	0.0		13.8	276	Btuh
2	Insulated - Gara	age							20	0.0		13.8	276	Btuh
	Door Total									0 (sqft)			552	Btuh
Ceilings	Type/Color/S	Surfa	ace		U	-Valu	Э	R-Value	e Area	(sqft)		HTM	Load	
1	Vented Attic/Lig	ht/Shi	ingle/F	RB		0.025	;	38.0/0.0	198	32.0		0.86	1710	Btuh
	Ceiling Total									32 (sqft)			1710	Btuh
Floors	Туре						R-\	/alue	Si	ze		HTM	Load	
1	Slab On Grade							0.0	18	88 (ft-perir	neter)	0.0	0	Btuh
	Floor Total								1888.	.0 (sqft)			0	Btuh
									E	nvelope	Subtota	l:	9129	Btuh
Infiltration	Туре				Aver	age A	CH	Volur	ne(cuft) Wall R	atio	CFM=	Load	
	Natural					•	0.13		17615			36.7	764	Btuh
Internal						Occu			Btuh/occupant			Appliance	Load	
gain							6	>			•	1200	2580	Btuh
										ensible l	Envelop		12473	
											-		1	

Manual J Summer Calculations

Residential Load - Component Details (continued) Project Title: Climate:FL_GAINESVILLE_REGIONAL_A 125 Milkweed Ct

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025

12/20/2022

Duct load	Average sealed, Supply (R6.0-Attic), Return (R6.0-Attic)	(DGM of 0.388)	4845 Btuh
		Sensible Load All Zones	17318 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev 125 Milkweed Ct Lake City, FL 32025

Project Title: 125 Milkweed Ct Climate:FL GAINESVILLE REGIONAL A

12/20/2022

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	12473	Btuh
	Sensible Duct Load		Btuh
	Total Sensible Zone Loads	17318	Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	17318	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)		Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain Latent occupant gain (6.0 people @ 200 Btuh per person)		Btuh
			Btuh
	Latent other gain		Btuh
	Latent total gain		Btuh
	TOTAL GAIN	21238	Btuh

EQUIPMENT						
1. Central Unit	#	21238 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