FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 322 Rolling Meadows Glen Street: 322 Rolling Meadows Glen City, State, Zip: Ft White , FL , Owner: Peter & Anna Lev 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 (216.3 sqft.) Description a. U-Factor: BHGC: SHGC=0.25 b. U-Factor: N/A SHGC: C. U-Factor: N/A ft²	10. Wall Types(1751.6 sqft.) a. Concrete Block - Int Insul, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 11. Ceiling Types (1897.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main 13. Cooling systems a. Central Unit Insulation Area R= Insulation Area R= Insulation Area R=	0 ft² 8 ft² ft² a 0 ft² ft² ft² ft² ft² ft²
SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights C. U-Factor:(AVG) Area 6. V-Factor:(AVG) C. V-Factor:(AVG) Area C. V-Factor:(AVG) C. V-Factor:(AVG)	14. Heating systems kBtu/hr Efficie a. Electric Heat Pump 29.5 HSPF:8	•
SHGC(AVG): N/A 9. Floor Types (1807.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1807.00 ft² b. N/A R= ft² c. N/A R= ft²	15. Hot water systems a. Electric b. Conservationfeatures None 16. Credits Cap: 50 gall EF: 0.	920
Glass/Floor Area: 0.120 Total Proposed Modifi Total Baseline	PASS	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 10 / 20 / 2022 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:	ACTO OF PLORIDA

- 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).

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT								
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	322 Rolling Meadow User Peter & Anna Lev 1 Columbia County Detached New (From Plans)	s Glen	Bedrooms: Conditione Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	dArea: es: e: le: ilation:	3 1807 1 No 0 Yes No			Lot# Block PlatE Stree Cour	k/Subdivis Book: et:	sion: 3: C o: F	treet Addre 22 Rolling olumbia t White , L ,		vs Gl
				CLIM	ATE								
	ign Location	TMY Site	BEOL			2.5 %	Winte	esign Tem er Summ	ner Deg	eating ree Day		re Ra	/Temp ange
FL,	Gainesville FL_	_GAINESVILLE	_REGI		32	92	70	75	1	305.5	51	IVI	edium
				BLO	CKS								
Number	Name	Area	Volume	•									
1	Block1	1807	16859.		250								
				SPA									
Number	Name Main	Area 1807	Volume 16859.3	Kitchen Yes	Occupai 6	nts	Bedroo			Finished Yes	d Coo Yes		Heated Yes
1	Maii	1007	10009.3	FLO			3	1		165	res		168
./ #	- Flace Time	Crass	Desir				A				T:1- \A/		4
√ # 1 Sla	Floor Type b-On-Grade Edge Insula	Space ation Ma	ain 188.6	meter 7 ft	R-Value 0)	Area 1807 ft²					ood Ca 0	arpet 1
	-			RO	OF								
√ #	Туре	Materials	Roof Area	Gal Are	ole F	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
1	Hip	Metal	2172 ft²	0 ff	.² L	ight	Y	0.96	No	0.9	No	0	33.69
				AT1	TC								
√ #	Туре	Ventil	ation	Vent Ra	atio (1 in)		Area	RBS	IR	cc			
1	Full attic	Ven	ted	3	00	1	807 ft²	Υ	١	N			
				CEIL	ING								
V #	Ceiling Type		Space	R-Val	ue	Ins Typ	ре	Area	Fran	ning Fra	c Truss	з Туре	
1	Under Attic (Vented)		Main	38	Do	ouble B	-++	1897 ft²		0.11	١٨/،	ood	

INPUT SUMMARY CHECKLIST REPORT

							WA	LLS								
V #	Orn		Adjace To	nt Wall	Туре	Space	Cavity R-Value	Wid Ft	th In	H Ft	eight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
1	S	Е	xterior	Con	crete Block - Int Insul	Main	5	12		9	4	112.0 ft ²		0	0.75	0
2	S	Е	xterior	Con	crete Block - Int Insul	Main	5	28	8	9	4	267.6 ft ²		0	0.75	0
3	Е	G	Sarage	Fran	me - Wood	Main	13	7	4	9	4	68.4 ft ²		0.23	0.75	C
4	S	G	Sarage	Fran	me - Wood	Main	13	22		9	4	205.3 ft ²		0.23	0.75	C
5	Е	Е	xterior	Con	crete Block - Int Insul	Main	5	23	4	9	4	217.8 ft ²		0	0.75	C
6	N	Е	xterior	Con	crete Block - Int Insul	Main	5	62	8	9	4	584.9 ft ²		0	0.75	C
7	W	E	xterior	Con	crete Block - Int Insul	Main	5	31	8	9	4	295.6 ft²		0	0.75	(
							DO	ORS								
\vee	#		Ornt		Door Type	Space			Storms		U-Valı	ıe Ft	Width In	Height Ft I	n	Area
	1		S		Insulated	Main			None		.46	3		6	8	20 ft²
	2		Е		Insulated	Main			None		.46	3		6	8	20 ft²
					Orie	ntation sh	WINE	OWS		dorie	entation.					
. /			Wall										hang			
V	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp)	Area	Depth	Separation	Int Sha	de	Screenii
	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	;	30.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	2	S	2	TIM	Low-E Double	Yes	0.36	0.25	N		13.3 ft ²	7 ft 6 in	1 ft 0 in	None)	None
	3	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	2	25.0 ft ²	7 ft 6 in	1 ft 0 in	None)	None
	4	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N		9.0 ft ²	7 ft 6 in	1 ft 0 in	None)	None
	5	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	2	20.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	6	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	(60.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	7	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		6.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	8	Ν	6	Vinyl	Low-E Double	Yes	0.36	0.25	N		9.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	9	Ν	6	TIM	Low-E Double	Yes	0.36	0.25	N	4	40.0 ft ²	1 ft 6 in	1 ft 0 in	None)	None
	10	W	7	Vinyl	Low-E Double	Yes	0.36	0.25	N		4.0 ft ²	1 ft 6 in	1 ft 0 in	None	•	None
							GAF	RAGE								
$\sqrt{}$	#		Floor	Area	Ceiling A	rea	Exposed V	Vall Per	imeter		Avg. W	all Height	Expose	ed Wall Ins	ulation	
	1		491.2	26 ft²	491.26 f	t²	58	.33 ft			9.3	33 ft		1		
							INFILT	RATIC	N							
;	Scope		М	ethod	SI	_A	CFM 50	ELA	ı	EqL	Ą	ACH	ACH	H 50		
Wh	olehou	se	Propo	sed AC	H(50) .00029	96	1404.9	77.08	1	44.7	71	.1042	Ę	5		

INPUT SUMMARY CHECKLIST REPORT

	105-2020				HEAT	TING SYS							
	# Sy	stem Type		Subtype	Spe	eed	Efficiency	v Cap	oacity			Block	Ducts
·	1 Ele	ectric Heat Pu	mp/	None	Sin	gle	HSPF:8.2	29.51	kBtu/hr			1	sys#1
					COOI	LING SYS	TEM						
\checkmark	# Sy	stem Type		Subtype	Sub	otype	Efficiency	Capacity	Air F	low S	HR	Block	Ducts
	1 Ce	entral Unit/		None	Sin	gle	SEER: 14	20.55 kBtu/h	nr 630	cfm 0).7	1	sys#1
					HOT W	ATER SY	STEM						
$\sqrt{}$	# :	System Type	SubType	Locatio	on EF	Ca	ар	Use	SetPnt		Co	onservatio	n
	1 I	Electric	None	Garage	0.92	50 (gal	40 gal	120 deg			None	
				S	OLAR HO	T WATER	SYSTE	M					
\checkmark	FSEC Cert #	Company Na	ame		System	Model#	Co	ollector Model		ollector Area		rage ume	FEF
None None									ft²				
						DUCTS							
Supply Return Air CFM 25 CFM25 HVAC # Location R-Value Area Location Area Leakage Type Handler TOT OUT QN RLF Heat Cod													
	 1	Location R Attic	6 451.75				Leakage	Main		c(Default)		IXLI	1
	· ·	7 11110				PERATU			(20.00.1)	5(2 51441)	_		
Program	nableThern	nostat: Y			Ceiling Fans	s:							
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[X] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep		ct	[] Nov [X] Nov [X] Nov	[] De [X] De [] De
Thermosta Schedule	at Schedule Type	: HERS 200	06 Reference 1	2	3 4	5	Ho 6	ours 7	8	9	10	11	12
Cooling (W		AM PM	78 80	78 7	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
Heating (W	VD)	AM PM	66 68		66 66 88 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 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
						MASS						-	-
M	ass Type			Area		Thickness		Furniture Fra	ction	Spa	ace		
De	efault(8 lbs/	/sq.ft.		0 ft ²		0 ft		0.3		N	Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

322 Rolling Meadows Glen, Ft White, FL,

1. New construction or existing		New (Fro	om Plans)	10. Wall Туре	e and Insulation	Insulation	Area
2. Single family or multiple fami	ily	Detache	d		Block - Int Insul, Exterior	R=5.0 R=13.0	1477.80 ft ² 273.78 ft ²
3. Number of units, if multiple fa	amily	1		c. N/A	Wood, Adjacent	R=13.0 R=	273.76 II ft²
4. Number of Bedrooms		3		d. N/A		R=	ft²
5. Is this a worst case?		No		0 ,	pe and insulation level ttic (Vented)	Insulation R=38.0	Area 1897.00 ft²
6. Conditioned floor area (ft²)		1807		b. N/A	(,	R=	ft²
a. U-Factor: Db	escription ol, U=0.36 HGC=0.25		Area 216.33 ft²		ation & insulation level c, Ret: Attic, AH: Main	R=	ft² R ft² 6 451.75
b. U-Factor: N/	'A		ft²				
SHGC: c. U-Factor: N/. SHGC:	′A		ft²	13. Cooling sy a. Central U		kBtu/hr 20.5	Efficiency SEER:14.00
d. U-Factor: N/. SHGC: Area Weighted Average Over			ft² 2.813 ft.	14. Heating sy a. Electric l		kBtu/hr 29.5	Efficiency HSPF:8.20
Area Weighted Average SH0	GC:		0.250				
8. Skylights De a. U-Factor(AVG): N/. SHGC(AVG): N/.			Area ft²	15. Hot water: a. Electric	systems vationfeatures	Ca	ap: 50 gallons EF: 0.92
Floor Types a. Slab-On-Grade Edge Ins b. N/A	sulation	Insulation R=0.0 R=	Area 1807.00 ft² ft²	None	rmance 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: NA
Address: 322 Rolling Meadows Glen	
City: Ft White State	e: FL Zip:
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 sha the selected ACH(50) value, as shown on Form R405-2020 (Performance) ACH(50) specified on Form R405-2020-Energy Cal	
CFM(50) Building Volume ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department. R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/R Testing shall be conducted by either individuals as defined in Section 553.9.489.105(3)(f), (g), or (i) or an approved third party. A written report of the reprovided to the code official. Testing shall be performed at any time after creating shall be conducted by shall be performed at any time after creating shall be conducted by shall be c	ESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 93(5) or (7F) orida Statues.or individuals licensed as set forth in Section sults of the test shall be signed by the party conducting the test and
During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, b control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue damp 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 vent 5. Heating and cooling systems, if installed at the time of the test, shall be to 6. Supply and return registers, if installed at the time of the test, shall be full.	pers shall be closed, but not sealed beyond intended infiltration control illators 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	nce with the 2020 7th Edition Florida Building Code
Signature of Tester:	Date of Test:
Printed Name of Tester:	
License/Certification #:	Issuing Authority:

Residential System Sizing Calculation

Summary Project Title:

Peter & Anna Lev 322 Rolling Meadows Glen Ft White, FL Project Title: 322 Rolling Meadows Glen

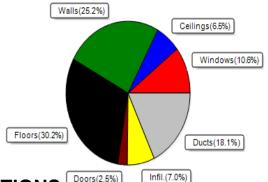
10/20/2022

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	399%) 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	29510	Btuh	Total cooling load calculation	20549	Btuh				
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh				
Total (Electric Heat Pump)	100.0	29510	Sensible (SHR = 0.70)	85.9	14385				
Heat Pump + Auxiliary(0.0kW)	100.0	29510	Latent	162.1	6165				
			Total (Electric Heat Pump)	100.0	20549				

WINTER CALCULATIONS

Winter Heating Load (for 1807 sqft)

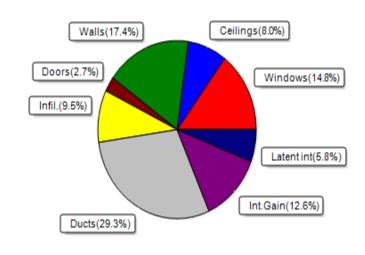
Load component			Load	
Window total	216	sqft	3115	Btuh
Wall total	1495	sqft	7434	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1897	sqft	1926	Btuh
Floor total	1807	sqft	8905	Btuh
Infiltration	47	cfm	2051	Btuh
Duct loss			5342	Btuh
Subtotal			29510	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			29510	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1807 sqft)

Load component			Load	
Window total	216	sqft	3033	Btuh
Wall total	1495	sqft	3580	Btuh
Door total	40	sqft	552	Btuh
Ceiling total	1897	sqft	1637	Btuh
Floor total			0	Btuh
Infiltration	35	cfm	731	Btuh
Internal gain			2580	Btuh
Duct gain			4635	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			16747	Btuh
Latent gain(ducts)			1390	Btuh
Latent gain(infiltration)			1213	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occupa	1200	Btuh		
Total latent gain	3802	Btuh		
TOTAL HEAT GAIN			20549	Btuh





EnergyGauge® System Sizing PREPARED BY:
DATE: 10 / 20 / 2022

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Peter & Anna Lev 322 Rolling Meadows Glen Ft White, FL Project Title: 322 Rolling Meadows Glen Building Type: User

10/20/2022

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

Component Loads for Whole House

1		Frame	e U	Officiation	Area(sqft) X	HTM=	Load
	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	E	20.0	14.4	288 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	60.0	14.4	864 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	6.0	14.4	86 Btuh
8	2, NFRC 0.25	Vinyl	0.36	N	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	,			216.3(sqft)		3115 Btuh
Walls	Туре	Ornt. U	Jeff.	R-Value	Area X	HTM=	Load
	•			(Cav/Sh)			
1	Conc Blk, Hollow	- Ext (0	0.132)	5.0/0.Ó	82	5.26	432 Btuh
2	Conc Blk, Hollow	`).132)	5.0/0.0	200	5.26	1054 Btuh
3	Frame - Wood	`).089	13.0/0.0	48	3.55	172 Btuh
4	Frame - Wood	, ,).089	13.0/0.0	205	3.55	729 Btuh
5	Conc Blk, Hollow	• •).132)	5.0/0.0	198	5.26	1041 Btuh
6	Conc Blk, Hollow	,	,	5.0/0.0	470	5.26	2473 Btuh
7	Conc Blk, Hollow	`	,	5.0/0.0	292	5.26	1534 Btuh
	Wall Total	(,		1495(sqft)		7434 Btuh
Doors	Туре	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exteri	or, n (0	0.460)		20	18.4	368 Btuh
2	Insulated - Garaç).460)		20	18.4	368 Btuh
	Door Total	, ,	,		40(sqft)		736Btuh
Ceilings	Type/Color/Surfa	ice U	Jeff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/M		025)	38.0/0.0	1897	1.0	1926 Btuh
	Ceiling Total	`	,		1897(sqft)		1926Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	188.7 ft(per	im.) 47.2	8905 Btuh
	Floor Total		, ,		1807 sqft	,	8905 Btuh
					•		
					Envelope Subto	otal:	22116 Btuh
Infiltration	Туре	Whole	house A	CH Volume	(cuft) Wall Rati	io CFM=	
	Natural		0	.17 1685	9 1.00	46.8	2051 Btuh
Duct load	Average sealed,	D8 0 S11	ınnly/A++) Paturn/A++) (DLM	of 0.221\	52/12 Ptub
Duct Idau	Average Sealed,	1.0.0, 30	iphià(\(\)	, Neturn(All) (DLIVI	of 0.221)	5342 Btuh
All Zones				Sensible	Subtotal All Z	ones	29510 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Peter & Anna Lev 322 Rolling Meadows Glen Ft White, FL

Project Title: 322 Rolling Meadows Glen Building Type: User

10/20/2022

WHOLE HOUSE TOTALS

EQUIPMENT

1. Electric Heat Pump	#	29510 Btuh
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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

Peter & Anna Lev 322 Rolling Meadows Glen Ft White, FL Project Title: 322 Rolling Meadows Glen

10/20/2022

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)		ITM	Load			
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross		 Unshaded	Shaded	Unshaded		
1	2 NFRC			No	No	S	1.5ft.	1.0ft.	30.0	30.0	0.0	12	14	363	Btuh
2	2 NFRC	,		No	No	S	7.5ft.	1.0ft.	13.3	13.3	0.0	12	14	161	Btuh
3	2 NFRC	,		No	No	S	7.5ft.		25.0	25.0	0.0	12	14		Btuh
4	2 NFRC	,		No	No	S	7.5ft.	1.0ft.	9.0	9.0	0.0	12	14	109	Btuh
5	2 NFRC	,		No	No	Ē	1.5ft.		20.0	1.0	19.0	12	31	600	Btuh
6	2 NFRC			No	No	Ν	1.5ft.	1.0ft.	60.0	0.0	60.0	12	12	726	Btuh
7	2 NFRC			No	No	Ν	1.5ft.	1.0ft.	6.0	0.0	6.0	12	12	73	Btuh
8	2 NFRC	,		No	No	N	1.5ft.	1.0ft.	9.0	0.0	9.0	12	12	109	Btuh
9	2 NFRC	,		No	No	Ν	1.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484	Btuh
10	2 NFRC	,		No	No	W	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105	Btuh
	Windov	-							216 (saft)			-	3033	Rtuh
\A/elle		v i Ota				- 11	1/01	- D\		<u> </u>	'~ ~.ft\		HTM		Dian
Walls	Туре					U	-value	e R-∖		Area(sqit)		HIM	Load	
								Cav/S							
1	Concrete					(0.13	5.0/0	0.0	82	.0		2.5	208	Btuh
2	Concrete	Blk,Ho	llow	- Ext		(0.13	5.0/0	0.0	200			2.5	508	Btuh
3	Frame - \	Wood - A	Adj			(0.09	13.0	/0.0	48	.4		1.7	82	Btuh
4	Frame - \	Wood - A	Adj			(0.09	13.0	/0.0	205	5.3		1.7	346	Btuh
5	Concrete	Blk,Ho	llow	/- Ext		(0.13	5.0/0	0.0	197	7.8		2.5	502	Btuh
6	Concrete	Blk,Ho	llow	/- Ext		(0.13	5.0/0	0.0	469	9.9		2.5	1193	Btuh
7	Concrete	Blk,Ho	llow	/- Ext		(0.13	5.0/0	0.0	291	1.6		2.5	740	Btuh
	Wall To	otal								149	5 (sqft)			3580	Btuh
Doors	Туре									Area			HTM	Load	
1	Insulated	l - Exter	ior							20			13.8	276	Btuh
2	Insulated									20			13.8		Btuh
2	Door To		ge								0 (sqft)		13.0		Btuh
Ceilings	Type/C		turf	ace		Ш	-Value		R-Valu	e Area(HTM	Load	Diuii
_						U									D
1	Vented A		it/IVI	etarke	i		0.025	,	38.0/0.0	189			0.86		Btuh
	Ceiling	Total								189	7 (sqft)			1637	Btuh
Floors	Туре							R-\	/alue	Siz			HTM	Load	
1	Slab On	Grade							0.0	180	07 (ft-perir	neter)	0.0	0	Btuh
	Floor T	otal								1807.	0 (sqft)			0	Btuh
										г.	valana	Cubtoto	d.	8802	Dtub
			Envelope Subtotal:							0002	Dluii				
Infiltration	Type					Aver	age A	ιCΗ	Volu	me(cuft)) Wall R	atio	CFM=	Load	
	Natura	ı					5	0.13		16859			35.1		Btuh
Internal	rtatara					(Occup			Btuh/oc			Appliance	Load	Dian
gain							₋ -	6		X 230	-	•	1200		Btuh
J -											ensible l	Envelop		12113	
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.383)								4635	Btuh					
	9	21		, , (,,	-(,	Sen	sible Lo		,	16747	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev 322 Rolling Meadows Glen Ft White, FL

Climate:FL GAINESVILLE REGIONAL A Project Title: 322 Rolling Meadows Glen

10/20/2022

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	12113	Btuh
	Sensible Duct Load	4635	Btuh
	Total Sensible Zone Loads	16747	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	16747	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	1213	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	1390	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3802	Btuh
	TOTAL GAIN	20549	Btuh

EQUIPMENT							
1. Central Unit	#	20549 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