

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Lot 10 Creek Run Plantation	Bedrooms:	3	Address Type:	Lot Information								
Building Type:	User	Conditioned Area:	1807	Lot #	10								
Owner Name:	Peter & Anna Lev	Total Stories:	1	Block/Subdivision:	Creek Run Plant								
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:		Rotate Angle:	0	Street:									
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia								
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32055								
Family Type:	Detached												
New/Existing:	New (From Plans)												
Comment:													
CLIMATE													
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range				
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium				
BLOCKS													
	Number	Name	Area	Volume									
	1	Block1	1807	16859.3									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	1807	16859.3	Yes	6	3	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet			
_____	1	Slab-On-Grade Edge Insulation	Main	188.67 ft	0	1807 ft²	----	0	0	1			
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Metal	2172 ft²	0 ft²	Light	Y	0.96	No	0.9	No	0	33.69
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Vented	300	1807 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Double Batt	1897 ft²	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS														
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___ 1	S	Exterior	Concrete Block - Int Insul	Main	5	12		9	4	112.0 ft²		0	0.75	0
___ 2	S	Exterior	Concrete Block - Int Insul	Main	5	28	8	9	4	267.6 ft²		0	0.75	0
___ 3	E	Garage	Frame - Wood	Main	13	7	4	9	4	68.4 ft²		0.23	0.75	0
___ 4	S	Garage	Frame - Wood	Main	13	22		9	4	205.3 ft²		0.23	0.75	0
___ 5	E	Exterior	Concrete Block - Int Insul	Main	5	23	4	9	4	217.8 ft²		0	0.75	0
___ 6	N	Exterior	Concrete Block - Int Insul	Main	5	62	8	9	4	584.9 ft²		0	0.75	0
___ 7	W	Exterior	Concrete Block - Int Insul	Main	5	31	8	9	4	295.6 ft²		0	0.75	0

DOORS											
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	S	Insulated	Main	None	.46	3		6	8	20 ft²	
___ 2	E	Insulated	Main	None	.46	3		6	8	20 ft²	

WINDOWS														
Orientation shown is the entered, Proposed orientation.														
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening	
___ 1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	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 ft²	7 ft 6 in	1 ft 0 in	None	None	
___ 3	S	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	25.0 ft²	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 ft²	7 ft 6 in	1 ft 0 in	None	None	
___ 5	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	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 ft²	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 ft²	1 ft 6 in	1 ft 0 in	None	None	
___ 8	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft²	1 ft 6 in	1 ft 0 in	None	None	
___ 9	N	6	TIM	Low-E Double	Yes	0.36	0.25	N	40.0 ft²	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 ft²	1 ft 6 in	1 ft 0 in	None	None	

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation	
___ 1	491.26 ft²	491.26 ft²	58.33 ft	9.33 ft	1	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000296	1404.9	77.08	144.71	.1042	5

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM															
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts							
	1	Electric Heat Pump/	None	Single	HSPF:8.2	29.51 kBtu/hr	1	sys#1							
COOLING SYSTEM															
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts					
	1	Central Unit/	None	Single	SEER: 14	20.55 kBtu/hr	630 cfm	0.7	1	sys#1					
HOT WATER SYSTEM															
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation						
	1	Electric	None	Garage	0.92	50 gal	40 gal	120 deg	None						
SOLAR HOT WATER SYSTEM															
✓	FSEC Cert #	Company Name		System Model#		Collector Model#	Collector Area	Storage Volume	FEF						
	None	None					ft²								
DUCTS															
✓	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool	
	1	Attic	6	451.75 f	Attic	90.35 ft²	Default Leakage	Garage	(Default) c	(Default) c			1	1	
TEMPERATURES															
Programable Thermostat: Y					Ceiling Fans:										
Cooling	<input type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec			
Heating	<input checked="" type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec			
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec			
Thermostat Schedule: HERS 2006 Reference											Hours				
Schedule Type		1	2	3	4	5	6	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	
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	
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	
MASS															
Mass Type			Area	Thickness	Furniture Fraction	Space									
Default(8 lbs/sq.ft.)			0 ft²	0 ft	0.3	Main									

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

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

, Lake City, FL, 32055

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Concrete Block - Int Insul, Exterior	R=5.0	1477.80 ft²
3. Number of units, if multiple family	1		b. Frame - Wood, Adjacent	R=13.0	273.78 ft²
4. Number of Bedrooms	3		c. N/A	R=	ft²
5. Is this a worst case?	No		d. N/A	R=	ft²
6. Conditioned floor area (ft²)	1807		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	1897.00 ft²
a. U-Factor:	Dbl, U=0.36	216.33 ft²	b. N/A	R=	ft²
SHGC:	SHGC=0.25		c. N/A	R=	ft²
b. U-Factor:	N/A	ft²	12. Ducts, location & insulation level	R	ft²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	6	451.75
c. U-Factor:	N/A	ft²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	20.5	SEER:14.00
d. U-Factor:	N/A	ft²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	29.5	HSPF:8.20
Area Weighted Average Overhang Depth:		2.813 ft.	15. Hot water systems		Cap: 50 gallons
Area Weighted Average SHGC:		0.250	a. Electric		EF: 0.92
8. Skylights	Description	Area	b. Conservation features		
a. U-Factor(AVG):	N/A	ft²	None		
SHGC(AVG):	N/A		Credits (Performance method)		CV, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	1807.00 ft²			
b. N/A	R=	ft²			
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: 10
----------	------------	---------

Address:

City: Lake City	State: FL	Zip: 32055
-----------------	-----------	------------

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.
 ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{16859}{\text{ACH}(50)} =$ <div style="text-align: center; margin: 10px 0;"> <input type="checkbox"/> PASS </div> <p><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</p>	<p>Method for calculating building volume:</p> <p><input type="radio"/> Retrieved from architectural plans</p> <p><input checked="" type="radio"/> Code software calculated</p> <p><input type="radio"/> Field measured and calculated</p>
---	--

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 (*Florida Statutes*) or 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 the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control 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 ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Residential System Sizing Calculation

Summary

Peter & Anna Lev

Project Title:
Lot 10 Creek Run Plantation

Lake City, FL 32055

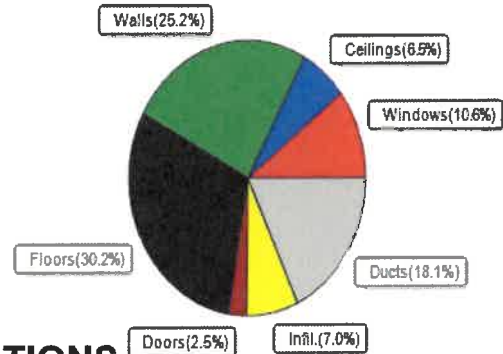
7/1/2021

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 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	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)

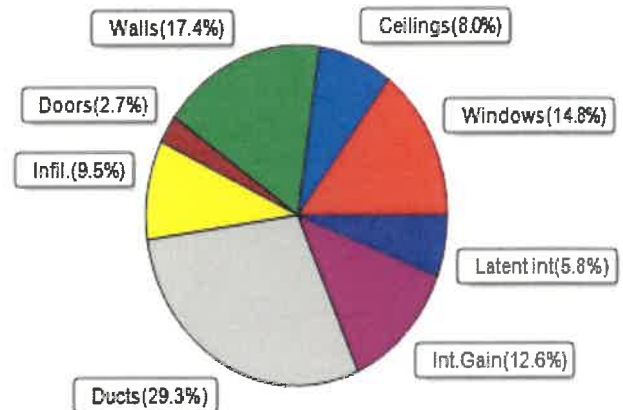
Load component	Load			
Window total	216	sqft	3115	Btuh
Wall total	1495	sqft	7434	Btuh
Door total	40	sqft	736	Btuh
Ceiling total	1897	sqft	1926	Btuh
Floor total	1807	sqft	8905	Btuh
Infiltration	47	cfm	2051	Btuh
Duct loss			5342	Btuh
Subtotal			29510	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			29510	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/occupants/other)			1200	Btuh
Total latent gain			3802	Btuh
TOTAL HEAT GAIN			20549	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

8/14/2021

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Peter & Anna Lev

Project Title:

Lot 10 Creek Run Plantation

Lake City, FL 32055

Building Type: User

7/1/2021

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

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	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	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	82		5.26	432 Btuh
2	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	200		5.26	1054 Btuh
3	Frame - Wood - Adj		(0.089)	13.0/0.0	48		3.55	172 Btuh
4	Frame - Wood - Adj		(0.089)	13.0/0.0	205		3.55	729 Btuh
5	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	198		5.26	1041 Btuh
6	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	470		5.26	2473 Btuh
7	Conc Blk,Hollow - Ext		(0.132)	5.0/0.0	292		5.26	1534 Btuh
Wall Total					1495(sqft)			7434 Btuh
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/Metal		(0.025)	38.0/0.0	1897		1.0	1926 Btuh
Ceiling Total					1897(sqft)			1926Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	188.7 ft(perim.)		47.2	8905 Btuh
Floor Total					1807 sqft			8905 Btuh
Envelope Subtotal:								22116 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		Load
	Natural		0.17	16859	1.00	46.8		2051 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.221)							5342 Btuh
All Zones	Sensible Subtotal All Zones							29510 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev
Lake City, FL 32055

Project Title:
Lot 10 Creek Run Plantation
Building Type: User

7/1/2021

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	29510 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	29510 Btuh

EQUIPMENT

1. Electric Heat Pump	#	29510 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

Peter & Anna Lev

Project Title:

Lot 10 Creek Run Plantation

Lake City, FL 32055

7/1/2021

Reference City: Gainesville, FL

Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

Window	Type*					Overhang		Window Area(sqft)			HTM		Load
	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	
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, 0.36	No	No	S	7.5ft.	1.0ft.	13.3	13.3	0.0	12	14	161 Btuh
3	2 NFRC	0.25, 0.36	No	No	S	7.5ft.	1.0ft.	25.0	25.0	0.0	12	14	302 Btuh
4	2 NFRC	0.25, 0.36	No	No	S	7.5ft.	1.0ft.	9.0	9.0	0.0	12	14	109 Btuh
5	2 NFRC	0.25, 0.36	No	No	E	1.5ft.	1.0ft.	20.0	1.0	19.0	12	31	600 Btuh
6	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	60.0	0.0	60.0	12	12	726 Btuh
7	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	6.0	0.0	6.0	12	12	73 Btuh
8	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	9.0	0.0	9.0	12	12	109 Btuh
9	2 NFRC	0.25, 0.36	No	No	N	1.5ft.	1.0ft.	40.0	0.0	40.0	12	12	484 Btuh
10	2 NFRC	0.25, 0.36	No	No	W	1.5ft.	1.0ft.	4.0	1.0	3.0	12	31	105 Btuh
Window Total								216 (sqft)					3033 Btuh
Walls	Type	U-Value	R-Value	Area(sqft)		HTM		Load					
				Cav/Sheath									
1	Concrete Blk,Hollow- Ext	0.13	5.0/0.0	82.0		2.5		208 Btuh					
2	Concrete Blk,Hollow- Ext	0.13	5.0/0.0	200.2		2.5		508 Btuh					
3	Frame - Wood - Adj	0.09	13.0/0.0	48.4		1.7		82 Btuh					
4	Frame - Wood - Adj	0.09	13.0/0.0	205.3		1.7		346 Btuh					
5	Concrete Blk,Hollow- Ext	0.13	5.0/0.0	197.8		2.5		502 Btuh					
6	Concrete Blk,Hollow- Ext	0.13	5.0/0.0	469.9		2.5		1193 Btuh					
7	Concrete Blk,Hollow- Ext	0.13	5.0/0.0	291.6		2.5		740 Btuh					
Wall Total				1495 (sqft)				3580 Btuh					
Doors	Type	Area (sqft)		HTM		Load							
1	Insulated - Exterior	20.0		13.8		276 Btuh							
2	Insulated - Garage	20.0		13.8		276 Btuh							
Door Total		40 (sqft)				552 Btuh							
Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM		Load						
1	Vented Attic/Light/Metal/RB	0.025	38.0/0.0	1897.0	0.86		1637 Btuh						
Ceiling Total				1897 (sqft)			1637 Btuh						
Floors	Type	R-Value		Size	HTM		Load						
1	Slab On Grade	0.0		1807 (ft-perimeter)	0.0		0 Btuh						
Floor Total				1807.0 (sqft)			0 Btuh						
Envelope Subtotal:							8802 Btuh						
Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=		Load						
	Natural	0.13	16859	1	35.1		731 Btuh						
Internal gain	Occupants	Btuh/occupant		Appliance		Load							
	6	X 230		+		1200		2580 Btuh					
Sensible Envelope Load:							12113 Btuh						
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.383)		4635 Btuh						
Sensible Load All Zones							16747 Btuh						

Manual J Summer Calculations

Residential Load - Component Details (continued)

Peter & Anna Lev

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
 Lot 10 Creek Run Plantation

Lake City, FL 32055

7/1/2021

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	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
	Total sensible gain	16747 Btuh
	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 (Panels - 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(½))
 (Ornt - compass orientation)



Version 8