

Project Name: Poole Residence Street: SW Governors Glen City, State, Zip: Lake City , FL , 32024 Owner: Greg & Danielle Poole Design Location: FL, Gainesville	Builder Name: IC Construction, LLC. Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.151

Total Proposed Modified Loads: 66.43
Total Baseline Loads: 71.55

PASS

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: _____
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INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Poole Residence	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2446	Lot #	
Owner Name:	Greg & Danielle Poole	Total Stories:	2	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	IC Construction, LLC.	Rotate Angle:	0	Street:	SW Governors Glen
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City , FL , 32024
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2446	21647

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	1st Floor	2079	18711	Yes	6	3	1	Yes	Yes	Yes
2	2nd Floor	367	2936	No	2	1	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	1st Floor	245 ft	0	2079 ft²	----	0	0	1
_____	2	Floor over Garage	2nd Floor	----	----	367 ft²	19	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	Gable or shed	Composition shingles	3059 ft²	918 ft²	Medium	Y	0.96	No	0.9	No	0	36.9

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2446 ft²	Y	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	1st Floor	38	Double Batt	2183 ft²	0.11	Wood
✓	2	Under Attic (Vented)	2nd Floor	38	Double Batt	385 ft²	0.11	Wood

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	Frame - Wood	1st Floor	13	33	4	9		300.0 ft²		0.23	0.75	0
✓	2	E	Exterior	Frame - Wood	1st Floor	13	5		9		45.0 ft²		0.23	0.75	0
✓	3	E	Exterior	Frame - Wood	1st Floor	13	10	4	9		93.0 ft²		0.23	0.75	0
✓	4	E	Garage	Frame - Wood	1st Floor	13	17	2	9		154.5 ft²		0.23	0.75	0
✓	5	S	Garage	Frame - Wood	1st Floor	13	26		9		234.0 ft²		0.23	0.75	0
✓	6	E	Exterior	Frame - Wood	1st Floor	13	29	2	9		262.5 ft²		0.23	0.75	0
✓	7	N	Exterior	Frame - Wood	1st Floor	13	26		9		234.0 ft²		0.23	0.75	0
✓	8	W	Exterior	Frame - Wood	1st Floor	13	10		9		90.0 ft²		0.23	0.75	0
✓	9	W	Exterior	Frame - Wood	1st Floor	13	10		9		90.0 ft²		0.23	0.75	0
✓	10	N	Exterior	Frame - Wood	1st Floor	13	42	8	9		384.0 ft²		0.23	0.75	0
✓	11	W	Exterior	Frame - Wood	1st Floor	13	31	4	9		282.0 ft²		0.23	0.75	0
✓	12	N	Exterior	Frame - Wood	2nd Floor	13	11	8	8		93.3 ft²		0.23	0.75	0
✓	13	E	Exterior	Frame - Wood	2nd Floor	13	8		8		64.0 ft²		0.23	0.75	0
✓	14	S	Exterior	Frame - Wood	2nd Floor	13	7	2	8		57.3 ft²		0.23	0.75	0
✓	15	E	Exterior	Frame - Wood	2nd Floor	13	10		8		80.0 ft²		0.23	0.75	0
✓	16	N	Exterior	Frame - Wood	2nd Floor	13	9	11	8		79.3 ft²		0.23	0.75	0
✓	17	E	Exterior	Frame - Wood	2nd Floor	13	10		8		80.0 ft²		0.23	0.75	0
✓	18	W	Exterior	Frame - Wood	2nd Floor	13	28	6	8		228.0 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	S	Insulated	1st Floor	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	70.0 ft²	9 ft 6 in	1 ft 0 in	None	None
✓	2	S	1	TIM	Low-E Double	Yes	0.36	0.25	N	42.7 ft²	9 ft 6 in	1 ft 0 in	None	None
✓	3	E	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	4	E	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	5	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.5 ft²	1 ft 0 in	2 ft 0 in	None	None
✓	6	N	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 0 in	2 ft 0 in	None	None
✓	7	W	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	30.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	8	W	9	TIM	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	9 ft 0 in	1 ft 0 in	None	None
✓	9	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	11 ft 6 in	1 ft 0 in	None	None
✓	10	N	10	TIM	Low-E Double	Yes	0.36	0.25	N	71.1 ft²	11 ft 6 in	1 ft 0 in	None	None
✓	11	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	11 ft 6 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

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
✓	12	W	11	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft²	1 ft 6 in	1 ft 0 in	None	None
✓	13	N	12	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 0 in	2 ft 0 in	None	None
✓	14	E	15	Vinyl	Low-E Double	Yes	0.36	0.25	N	15.0 ft²	1 ft 0 in	0 ft 6 in	None	None

GARAGE						
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	741 ft²	741 ft²	64.2 ft	9 ft	1

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000281	1803.9	99.03	186.25	.1453	5

HEATING SYSTEM									
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts	
✓	1	Electric Heat Pump/	None	Single	HSPF:8.2	19.17 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	14.81 kBtu/hr	450 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 #	CompanyName	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS														
✓	#	---- Supply ----			---- Return ----			LeakageType	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
✓	1	Attic	6	611.5 ft²	Attic	122.3 ft²	Default Leakage	Garage	(Default) c	(Default) c				1 1

INPUT SUMMARY CHECKLIST REPORT**TEMPERATURES**

Programable Thermostat: Y

Ceiling Fans:

Cooling	☐ Jan	☐ Feb	☐ Mar	☐ Apr	☐ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☐ Oct	☐ Nov	☐ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☐ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☒ Dec
Venting	☐ Jan	☐ Feb	☒ Mar	☒ Apr	☐ May	☐ Jun	☐ Jul	☐ Aug	☐ Sep	☒ Oct	☒ Nov	☒ Dec

Thermostat Schedule: HERS 2006 Reference

Hours

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	1st Floor
Default(8 lbs/sq.ft.	0 ft²	0 ft	0.3	2nd Floor

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* =93****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location <u>Garage</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>14.8</u>
6. Conditioned floor area (sq. ft.)	6. <u>2446</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.360</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.250</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>369.3</u>	e) Other <u>14.0</u>
8. Skylights		14. Heating system: Capacity <u>19.2</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u>19.0</u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>8.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u> </u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>13.0</u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>38.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>Yes</u>
d) Radiant barrier installed	11d. <u>Yes</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: SW Governors Glen City/FL Zip: Lake City, FL 32024

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: _____

Permit #: _____

Job Information

Builder: IC Construction, LLC.

Community: _____

Lot: NA

Address: SW Governors Glen

City: Lake City

State: FL

Zip: 32024

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 R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{21647}{\text{ACH}(50)} = \text{ACH}(50)$$

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation 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 (7) *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 2017 6th 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

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence

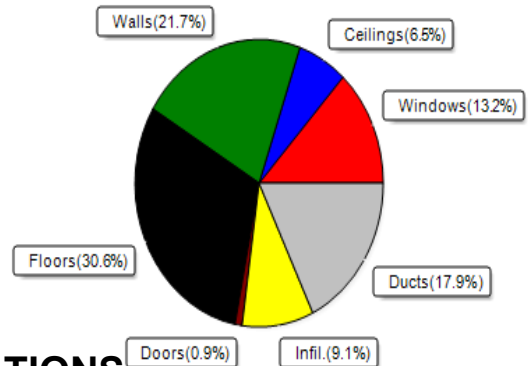
12/9/2020

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	40206 Btuh	Total cooling load calculation	30134 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	47.7 19169	Sensible (SHR = 0.70)	42.1 10367
Heat Pump + Auxiliary(0.0kW)	47.7 19169	Latent	81.0 4443
		Total (Electric Heat Pump)	49.1 14809

WINTER CALCULATIONS

Winter Heating Load (for 2446 sqft)

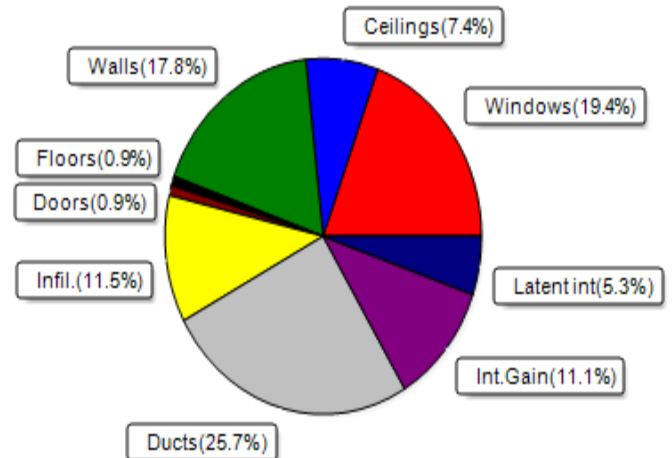
Load component	Load
Window total 369 sqft	5318 Btuh
Wall total 2462 sqft	8740 Btuh
Door total 20 sqft	368 Btuh
Ceiling total 2568 sqft	2607 Btuh
Floor total See detail report	12300 Btuh
Infiltration 84 cfm	3674 Btuh
Duct loss	7199 Btuh
Subtotal	40206 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	40206 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2446 sqft)

Load component	Load
Window total 369 sqft	5847 Btuh
Wall total 2462 sqft	5359 Btuh
Door total 20 sqft	276 Btuh
Ceiling total 2568 sqft	2216 Btuh
Floor total	258 Btuh
Infiltration 63 cfm	1309 Btuh
Internal gain	3340 Btuh
Duct gain	6043 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Blower Load	0 Btuh
Total sensible gain	24647 Btuh
Latent gain(ducts)	1715 Btuh
Latent gain(infiltration)	2172 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	1600 Btuh
Total latent gain	5487 Btuh
TOTAL HEAT GAIN	30134 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence
Building Type: User

12/9/2020

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	70.0		14.4	1008 Btuh
2	2, NFRC 0.25	TIM	0.36	S	42.7		14.4	614 Btuh
3	2, NFRC 0.25	Vinyl	0.36	E	6.0		14.4	86 Btuh
4	2, NFRC 0.25	Vinyl	0.36	E	20.0		14.4	288 Btuh
5	2, NFRC 0.25	Vinyl	0.36	N	12.5		14.4	180 Btuh
6	2, NFRC 0.25	Vinyl	0.36	N	30.0		14.4	432 Btuh
7	2, NFRC 0.25	Vinyl	0.36	W	30.0		14.4	432 Btuh
8	2, NFRC 0.25	TIM	0.36	W	20.0		14.4	288 Btuh
9	2, NFRC 0.25	Vinyl	0.36	N	15.0		14.4	216 Btuh
10	2, NFRC 0.25	TIM	0.36	N	71.1		14.4	1024 Btuh
11	2, NFRC 0.25	Vinyl	0.36	N	16.0		14.4	230 Btuh
12	2, NFRC 0.25	Vinyl	0.36	W	6.0		14.4	86 Btuh
13	2, NFRC 0.25	Vinyl	0.36	N	15.0		14.4	216 Btuh
14	2, NFRC 0.25	Vinyl	0.36	E	15.0		14.4	216 Btuh
Window Total					369.3(sqft)			5318 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	187		3.55	665 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	45		3.55	160 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	87		3.55	309 Btuh
4	Frame - Wood	- Adj	(0.089)	13.0/0.0	155		3.55	549 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	214		3.55	760 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	243		3.55	861 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	192		3.55	680 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	60		3.55	213 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	70		3.55	249 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	282		3.55	1001 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	276		3.55	980 Btuh
12	Frame - Wood	- Ext	(0.089)	13.0/0.0	78		3.55	278 Btuh
13	Frame - Wood	- Ext	(0.089)	13.0/0.0	64		3.55	227 Btuh
14	Frame - Wood	- Ext	(0.089)	13.0/0.0	57		3.55	204 Btuh
15	Frame - Wood	- Ext	(0.089)	13.0/0.0	65		3.55	231 Btuh
16	Frame - Wood	- Ext	(0.089)	13.0/0.0	79		3.55	282 Btuh
17	Frame - Wood	- Ext	(0.089)	13.0/0.0	80		3.55	284 Btuh
18	Frame - Wood	- Ext	(0.089)	13.0/0.0	228		3.55	809 Btuh
Wall Total					2462(sqft)			8740 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Garage, n		(0.460)		20		18.4	368 Btuh
Door Total					20(sqft)			368Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Vented Attic/L/Shing	(0.025)	38.0/0.0		2183		1.0	2216 Btuh
2	Vented Attic/L/Shing	(0.025)	38.0/0.0		385		1.0	391 Btuh
Ceiling Total					2568(sqft)			2607Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence
Building Type: User

12/9/2020

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	245.0 ft(perim.)	47.2	11564 Btuh
2	Raised Wood - Adj	(0.050)	19.0	367.0 sqft	2.0	736 Btuh
	Floor Total			2446 sqft		12300 Btuh
	Envelope Subtotal:					29333 Btuh
Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.23	21647	1.00	83.9	3674 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)				(DLM of 0.218)	7199 Btuh
All Zones	Sensible Subtotal All Zones					40206 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	40206 Btuh 0 Btuh 40206 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	19169 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

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence

12/9/2020

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	Unshaded			
1	2 NFRC	0.25, 0.36	No	No	S		9.5ft.	1.0ft.	70.0	70.0	0.0	12	14	847	Btuh	
2	2 NFRC	0.25, 0.36	No	No	S		9.5ft.	1.0ft.	42.7	42.7	0.0	12	14	516	Btuh	
3	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	6.0	0.5	5.5	12	31	176	Btuh	
4	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	20.0	1.0	19.0	12	31	600	Btuh	
5	2 NFRC	0.25, 0.36	No	No	N		1.0ft.	2.0ft.	12.5	0.0	12.5	12	12	151	Btuh	
6	2 NFRC	0.25, 0.36	No	No	N		1.0ft.	2.0ft.	30.0	0.0	30.0	12	12	363	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	
8	2 NFRC	0.25, 0.36	No	No	W		9.0ft.	1.0ft.	20.0	19.4	0.6	12	31	253	Btuh	
9	2 NFRC	0.25, 0.36	No	No	N		11.5f	1.0ft.	15.0	0.0	15.0	12	12	181	Btuh	
10	2 NFRC	0.25, 0.36	No	No	N		11.5f	1.0ft.	71.1	0.0	71.1	12	12	860	Btuh	
11	2 NFRC	0.25, 0.36	No	No	N		11.5f	1.0ft.	16.0	0.0	16.0	12	12	194	Btuh	
12	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	1.0ft.	6.0	0.5	5.5	12	31	176	Btuh	
13	2 NFRC	0.25, 0.36	No	No	N		1.0ft.	2.0ft.	15.0	0.0	15.0	12	12	181	Btuh	
14	2 NFRC	0.25, 0.36	No	No	E		1.0ft.	0.5ft.	15.0	1.0	14.0	12	31	445	Btuh	
	Window Total									369 (sqft)					5847 Btuh	
Walls	Type					U-Value	R-Value	Area(sqft)			HTM		Load			
							Cav/Sheath									
1	Frame - Wood - Ext					0.09	13.0/0.0	187.3			2.3		424 Btuh			
2	Frame - Wood - Ext					0.09	13.0/0.0	45.0			2.3		102 Btuh			
3	Frame - Wood - Ext					0.09	13.0/0.0	87.0			2.3		197 Btuh			
4	Frame - Wood - Adj					0.09	13.0/0.0	154.5			1.7		261 Btuh			
5	Frame - Wood - Adj					0.09	13.0/0.0	214.0			1.7		361 Btuh			
6	Frame - Wood - Ext					0.09	13.0/0.0	242.5			2.3		549 Btuh			
7	Frame - Wood - Ext					0.09	13.0/0.0	191.5			2.3		433 Btuh			
8	Frame - Wood - Ext					0.09	13.0/0.0	60.0			2.3		136 Btuh			
9	Frame - Wood - Ext					0.09	13.0/0.0	70.0			2.3		158 Btuh			
10	Frame - Wood - Ext					0.09	13.0/0.0	281.9			2.3		638 Btuh			
11	Frame - Wood - Ext					0.09	13.0/0.0	276.0			2.3		625 Btuh			
12	Frame - Wood - Ext					0.09	13.0/0.0	78.3			2.3		177 Btuh			
13	Frame - Wood - Ext					0.09	13.0/0.0	64.0			2.3		145 Btuh			
14	Frame - Wood - Ext					0.09	13.0/0.0	57.3			2.3		130 Btuh			
15	Frame - Wood - Ext					0.09	13.0/0.0	65.0			2.3		147 Btuh			
16	Frame - Wood - Ext					0.09	13.0/0.0	79.3			2.3		180 Btuh			
17	Frame - Wood - Ext					0.09	13.0/0.0	80.0			2.3		181 Btuh			
18	Frame - Wood - Ext					0.09	13.0/0.0	228.0			2.3		516 Btuh			
	Wall Total									2462 (sqft)					5359 Btuh	
Doors	Type							Area (sqft)			HTM		Load			
1	Insulated - Garage							20.0			13.8		276 Btuh			
	Door Total									20 (sqft)					276 Btuh	
Ceilings	Type/Color/Surface					U-Value	R-Value	Area(sqft)			HTM		Load			
1	Vented AtticLight/Shingle/RB					0.025	38.0/0.0	2183.0			0.86		1884 Btuh			
2	Vented AtticLight/Shingle/RB					0.025	38.0/0.0	385.0			0.86		332 Btuh			
	Ceiling Total									2568 (sqft)					2216 Btuh	
Floors	Type						R-Value	Size			HTM		Load			
1	Slab On Grade						0.0	2079 (ft-perimeter)			0.0		0 Btuh			
2	Raised Wood - Adj						19.0	367 (sqft)			0.7		258 Btuh			
	Floor Total									2446.0 (sqft)					258 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence

Climate:FL_GAINESVILLE_REGIONAL_A

12/9/2020

	Envelope Subtotal:					13955 Btuh
Infiltration	Type Natural	Average ACH 0.17	Volume(cuft) 21647	Wall Ratio 1	CFM= 62.9	Load 1309 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	Appliance +	1500	Load 3340 Btuh
	Sensible Envelope Load:					18604 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.325)					6043 Btuh
	Sensible Load All Zones					24647 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Greg & Danielle Poole
SW Governors Glen
Lake City, FL 32024

Project Title:
Poole Residence

Climate:FL_GAINESVILLE_REGIONAL_A

12/9/2020

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	18604 Btuh
	Sensible Duct Load	6043 Btuh
	Total Sensible Zone Loads	24647 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	24647 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	2172 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1715 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5487 Btuh
	TOTAL GAIN	30134 Btuh

EQUIPMENT

1. Central Unit	#	14809 Btuh
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*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