

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Boyko Residence			Bedrooms:	3		Address Type:		Street Address				
Building Type:	User			Conditioned Area:	2413		Lot #						
Owner Name:	Mike & Jodi Boyko			Total Stories:	1		Block/Subdivision:						
# of Units:	1			Worst Case:	No		PlatBook:						
Builder Name:				Rotate Angle:	0		Street:		110 Joel Glen				
Permit Office:	Columbia County			Cross Ventilation:	Yes		County:		Columbia				
Jurisdiction:				Whole House Fan:	No		City, State, Zip:		White Springs , FL , 32055				
Family Type:	Single-family												
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	2413	28956									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	2413	28956	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	200.67 ft	0	2413 ft²	----		0	0	1		
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Metal	2487 ft²	300 ft²	Medium	Y	0.96	No	0.9	No	0	14
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full cathedral ceiling	Vented	300	2413 ft²	Y	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Double Batt	2576 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	N	Exterior	Frame - Wood	Main	19	60	4	12		724.0 ft²		0.23	0.75	0
2	W	Exterior	Frame - Wood	Main	19	40		12		480.0 ft²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	19	60	4	12		724.0 ft²		0.23	0.75	0
4	E	Exterior	Frame - Wood	Main	19	40		12		480.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	W	Insulated	Main	None	.46	3		8		24 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	N	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	3 ft 0 in	None	None
2	W	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	18.0 ft²	1 ft 0 in	6 ft 0 in	None	None
3	W	2	Vinyl	Low-E Double	Yes	0.36	0.25	N	16.0 ft²	1 ft 0 in	6 ft 0 in	None	None
4	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	3 ft 0 in	None	None
5	E	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	13 ft 0 in	4 ft 0 in	None	None
6	E	4	TIM	Low-E Double	Yes	0.36	0.25	N	48.0 ft²	13 ft 0 in	6 ft 0 in	None	None
7	E	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft²	13 ft 0 in	4 ft 0 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000381	2413	132.47	249.13	.1687	5

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	None	Single	HSPF:8.2	35.19 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	26.91 kBtu/hr	810 cfm	0.7	1	sys#1

HOT WATER SYSTEM

✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric	None	Main	0.92	50 gal	40 gal	120 deg	None

INPUT SUMMARY CHECKLIST REPORT

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	603.25 f	Attic	120.65 f	Default Leakage	Main	(Default)	c(Default)	c		1	1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans:											
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input 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 type="checkbox"/> Dec			
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" 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 checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec			
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" 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			
Thermostat Schedule: HERS 2006 Reference															
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	78	80	80	80	80	
	PM	80	80	78	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	78	
	PM	78	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	68	
	PM	68	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	68	
	PM	68	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	Main

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* =87****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>3</u>	c) AHU location	Main
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>26.9</u>
6. Conditioned floor area (sq. ft.)	6. <u>2413</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>214.0</u>	e) Other	<u>14.0</u>
8. Skylights		14. Heating system:	Capacity <u>35.2</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> </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>19.0</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> </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	
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: 110 Joel Glen City/FL Zip: White Springs, FL 32055

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:

Community:

Lot: NA

Address: 110 Joel Glen

City: White Springs

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 R405-2017 (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

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{28956}{\text{ACH}(50)} =$$



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

Mike & Jodi Boyko
110 Joel Glen
White Springs, FL 32055

Project Title:
Boyko Residence

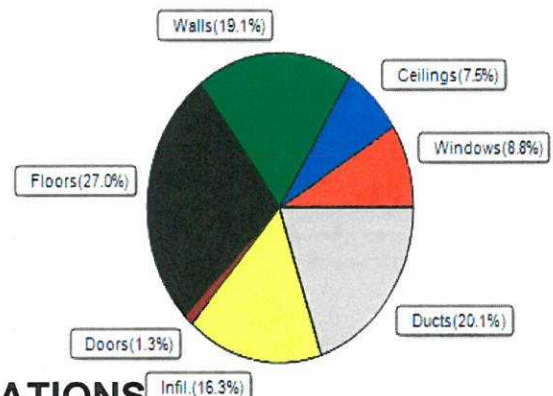
4/24/2020

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	35060	Btuh	Total cooling load calculation	26969	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	100.4	35195	Sensible (SHR = 0.70)	90.9	18839
Heat Pump + Auxiliary(0.0kW)	100.4	35195	Latent	129.2	8074
			Total (Electric Heat Pump)	99.8	26912

WINTER CALCULATIONS

Winter Heating Load (for 2413 sqft)

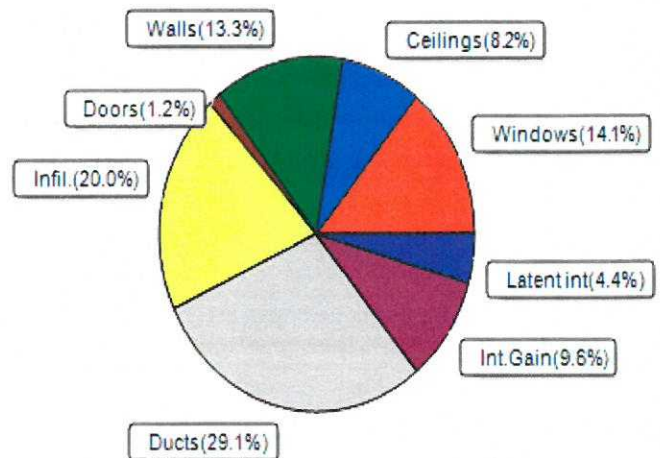
Load component		Load
Window total	214 sqft	3082 Btuh
Wall total	2170 sqft	6707 Btuh
Door total	24 sqft	442 Btuh
Ceiling total	2576 sqft	2615 Btuh
Floor total	2413 sqft	9472 Btuh
Infiltration	130 cfm	5704 Btuh
Duct loss		7038 Btuh
Subtotal		35060 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		35060 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2413 sqft)

Load component		Load
Window total	214 sqft	3791 Btuh
Wall total	2170 sqft	3588 Btuh
Door total	24 sqft	331 Btuh
Ceiling total	2576 sqft	2223 Btuh
Floor total		0 Btuh
Infiltration	98 cfm	2032 Btuh
Internal gain		2580 Btuh
Duct gain		6172 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Blower Load		0 Btuh
Total sensible gain		20718 Btuh
Latent gain(ducts)		1680 Btuh
Latent gain(infiltration)		3372 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		1200 Btuh
Total latent gain		6251 Btuh
TOTAL HEAT GAIN		26969 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY:

DATE:

4/24/2020

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Mike & Jodi Boyko
110 Joel Glen
White Springs, FL 32055

Project Title:
Boyko Residence
Building Type: User

4/24/2020

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	N	36.0		14.4	518 Btuh
2	2, NFRC 0.25	Vinyl	0.36	W	18.0		14.4	259 Btuh
3	2, NFRC 0.25	Vinyl	0.36	W	16.0		14.4	230 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	36.0		14.4	518 Btuh
5	2, NFRC 0.25	Vinyl	0.36	E	36.0		14.4	518 Btuh
6	2, NFRC 0.25	TIM	0.36	E	48.0		14.4	691 Btuh
7	2, NFRC 0.25	Vinyl	0.36	E	24.0		14.4	346 Btuh
Window Total					214.0(sqft)			3082 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.077)	19.0/0.0	688		3.09	2127 Btuh
2	Frame - Wood	- Ext	(0.077)	19.0/0.0	422		3.09	1304 Btuh
3	Frame - Wood	- Ext	(0.077)	19.0/0.0	688		3.09	2127 Btuh
4	Frame - Wood	- Ext	(0.077)	19.0/0.0	372		3.09	1150 Btuh
Wall Total					2170(sqft)			6707 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.460)		24		18.4	442 Btuh
Door Total					24(sqft)			442Btuh
Ceilings	Type/Color/Surface	Ueff.	R-Value		Area	X	HTM=	Load
1	Vented Attic/L/Metal	(0.025)	38.0/0.0		2576		1.0	2615 Btuh
Ceiling Total					2576(sqft)			2615Btuh
Floors	Type	Ueff.	R-Value		Size	X	HTM=	Load
1	Slab On Grade	(1.180)	0.0		200.7 ft(perim.)		47.2	9472 Btuh
Floor Total					2413 sqft			9472 Btuh
Envelope Subtotal:								22317 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.27	28956	1.00	130.3		5704 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.251)							7038 Btuh
All Zones	Sensible Subtotal All Zones							35060 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Mike & Jodi Boyko
110 Joel Glen
White Springs, FL 32055

Project Title:
Boyko Residence
Building Type: User

4/24/2020

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	35060 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	35060 Btuh

EQUIPMENT

1. Electric Heat Pump	#	35195 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

Mike & Jodi Boyko
110 Joel Glen
White Springs, FL 32055

Project Title:
Boyko Residence

4/24/2020

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	N		1.5ft.	3.0ft.	36.0	0.0	36.0	12	12	436 Btuh
2	2 NFRC	0.25, 0.36	No	No	W		1.0ft.	6.0ft.	18.0	0.0	18.0	12	31	557 Btuh
3	2 NFRC	0.25, 0.36	No	No	W		1.0ft.	6.0ft.	16.0	0.0	16.0	12	31	495 Btuh
4	2 NFRC	0.25, 0.36	No	No	S		1.5ft.	3.0ft.	36.0	33.1	2.9	12	14	441 Btuh
5	2 NFRC	0.25, 0.36	No	No	E		13.0f	4.0ft.	36.0	36.0	0.0	12	31	436 Btuh
6	2 NFRC	0.25, 0.36	No	No	E		13.0f	6.0ft.	48.0	28.7	19.3	12	31	944 Btuh
7	2 NFRC	0.25, 0.36	No	No	E		13.0f	4.0ft.	24.0	24.0	0.0	12	31	290 Btuh
	Excursion													192 Btuh
	Window Total								214 (sqft)					3791 Btuh
Walls	Type					U-Value	R-Value		Area(sqft)		HTM		Load	
							Cav/Sheath							
1	Frame - Wood - Ext					0.08	19.0/0.0		688.0		1.7		1138 Btuh	
2	Frame - Wood - Ext					0.08	19.0/0.0		422.0		1.7		698 Btuh	
3	Frame - Wood - Ext					0.08	19.0/0.0		688.0		1.7		1138 Btuh	
4	Frame - Wood - Ext					0.08	19.0/0.0		372.0		1.7		615 Btuh	
	Wall Total								2170 (sqft)				3588 Btuh	
Doors	Type							Area (sqft)		HTM		Load		
1	Insulated - Exterior							24.0		13.8		331 Btuh		
	Door Total							24 (sqft)				331 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		2576.0		0.86		2223 Btuh	
	Ceiling Total							2576 (sqft)				2223 Btuh		
Floors	Type					R-Value		Size		HTM		Load		
1	Slab On Grade					0.0		2413 (ft-perimeter)		0.0		0 Btuh		
	Floor Total							2413.0 (sqft)				0 Btuh		
	Envelope Subtotal:												9933 Btuh	
Infiltration	Type					Average ACH		Volume(cuft)		Wall Ratio		CFM=	Load	
Natural						0.20		28956		1		97.7	2032 Btuh	
Internal gain						Occupants		Btuh/occupant		Appliance		Load		
								X 230		+				
						6				1200		2580 Btuh		
	Sensible Envelope Load:												14545 Btuh	
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)										(DGM of 0.424)		6172 Btuh	
	Sensible Load All Zones												20718 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Mike & Jodi Boyko
110 Joel Glen
White Springs, FL 32055

Project Title:
Boyko Residence

Climate:FL_GAINESVILLE_REGIONAL_A

4/24/2020

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	14545 Btuh
	Sensible Duct Load	6172 Btuh
	Total Sensible Zone Loads	20718 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	20718 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	3372 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1680 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	6251 Btuh
	TOTAL GAIN	26969 Btuh

EQUIPMENT

1. Central Unit	#	26912 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