

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 85

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1632.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1632.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1996	11. Ceiling Types(1996.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Single assembly, with (Unvented)	R=30.0	1996.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	DbI, U=0.26	c. N/A		
SHGC:	SHGC=0.20	12. Roof(Comp. Shingles, Unvent) Deck	R=30.0	2311 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Main, Ret: Main, AH: Main	6	399
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Central Unit	36.0	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	36.0	HSPF2:8.50
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 50 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=		None	
		17. Credits	CF, 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: _____

Address of New Home: _____ City/FL Zip: „FL,



*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.

Project Name:	Yates Residence		Builder Name:		
Street:			Permit Office:		
City, State, Zip:	, FL,		Permit Number:		
Owner:			Jurisdiction:		
Design Location:	FL, Gainesville		County:	Columbia(Florida Climate Zone 2)	

1. New construction or existing	New (From Plans)		10. Wall Types(1632.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	1632.00 ft ²
3. Number of units, if multiple family	1		b. N/A		
4. Number of Bedrooms	3		c. N/A		
5. Is this a worst case?	No		d. N/A		
6. Conditioned floor area above grade (ft ²)	1996		11. Ceiling Types(1996.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0		a. Single assembly, with (Unvented)	R=30.0	1996.00 ft ²
7. Windows(210.0 sqft.)	Description	Area	b. N/A		
a. U-Factor:	Dbl, U=0.26	210.00 ft ²	c. N/A		
SHGC:	SHGC=0.20		12. Roof(Comp. Shingles, Unvent) Deck	R=30.0	2311 ft ²
b. U-Factor:	N/A	ft ²	13. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Main, Ret: Main, AH: Main	6	399
c. U-Factor:	N/A	ft ²	b.		
SHGC:			c.		
Area Weighted Average Overhang Depth:	1.500 ft		14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200		a. Central Unit	36.0	SEER2:15.00
8. Skylights	Description	Area	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	N/A ft ²	a. Electric Heat Pump	36.0	HSPF2:8.50
SHGC(AVG):	N/A		16. Hot Water Systems		
9. Floor Types	Insulation	Area	a. Electric	Cap: 50 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0	1996.00 ft ²		EF: 0.920	
b. N/A	R=	ft ²	b. Conservation features		
c. N/A	R=	ft ²			
			17. Credits		None
					CF, Pstat

Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Yates Residence	Bedrooms:	3	Address type:	Street Address
Building Type:	User	Conditioned Area:	1996	Lot #:	---
Owner:		Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL,
Family Type:	Detached	Terrain:	Rural		
New/Existing:	New (From Plans)	Shielding:	Moderate/Rural		
Year Construct:	2024				
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	1996	17964 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	1996	17964	Yes	6	3	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 1996 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	230	1996 sqft	0	---	0.563	0 (ft)/0 (ft)	0.20	0.60 0.20

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	2311 ft²	582 ft²	Dark	N	0.96	No	0.9	No	30	30.26

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	1996 ft²	N	N

CEILING

(Total Exposed Area = 1996 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Single assembly, with airspace(Unvented)	Main	30.0	Blown	1996.0ft²	0.017	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1632 sq.ft.)				
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade				
1	N	Exterior	Frame - Wood	Main	13.0	53.0	0	9.0	0	477.0	0.084		0.23	0.75	0 %				
2	E	Exterior	Frame - Wood	Main	13.0	37.0	8	9.0	0	339.0	0.084		0.23	0.75	0 %				
3	S	Exterior	Frame - Wood	Main	13.0	53.0	0	9.0	0	477.0	0.084		0.23	0.75	0 %				
4	W	Exterior	Frame - Wood	Main	13.0	37.0	8	9.0	0	339.0	0.084		0.23	0.75	0 %				

DOORS												(Total Exposed Area = 131 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
1	N	Exterior	Wood	Main	None	0.46	3.00	0	8.00	0	24.0ft²			
2	S	Exterior	Insulated	Main	None	0.46	5.00	0	6.00	8	33.3ft²			
3	S	Exterior	Insulated	Main	None	0.46	5.00	0	8.00	0	40.0ft²			
4	S	Exterior	Insulated	Main	None	0.46	5.00	0	6.00	8	33.3ft²			

WINDOWS															(Total Exposed Area = 210 sq.ft.)		
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	32.0	2	4.00	4.00	1.5	1.3	None	None
2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	36.0	2	3.00	6.00	1.5	1.3	None	None
3	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	2.00	6.00	1.5	1.3	None	None
4	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	1.3	None	None
5	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	60.0	4	2.50	6.00	1.5	1.3	None	None
6	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	10.0	2	5.00	1.00	1.5	1.3	None	None
7	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	24.0	2	2.00	6.00	1.5	1.3	None	None
8	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	1.3	None	None
9	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	15.0	1	2.50	6.00	1.5	1.3	None	None

INFILTRATION											
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
1	Wholehouse	Proposed ACH(50)	0.00030	1569	86.08	161.61	0.1076	5.2	All	17964 cu ft	

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBTU/hr	---Geothermal HeatPump--- Entry Power Volt Current			Ducts	Block
1	Electric Heat Pump	None/Single		HSPF2: 8.50	36.0	0.00	0.00	0.00	sys#1	1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:15.0	36.0	1080	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.92 (0.92)	50.00 gal	60 gal	120 deg	Standard	None	99
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓ Duct #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___ 1	Main	6.0	399 ft²	Main	6.0	100 ft²	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
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	Schedule Type	1	2	3	4	5	6	Hours 7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
___ Heating (WEH)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68

Residential System Sizing Calculation

Summary

Project Title:
Yates Residence

, FL

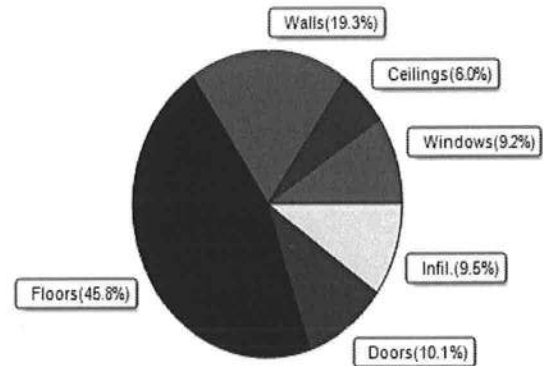
3/25/2024

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(100 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	23704	Btuh	Total cooling load calculation	16907	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	151.9	36000	Sensible (SHR = 0.75)	187.9	27000
Heat Pump + Auxiliary(0.0kW)	151.9	36000	Latent	354.8	9000
			Total (Electric Heat Pump)	212.9	36000

WINTER CALCULATIONS

Winter Heating Load (for 1996 sqft)

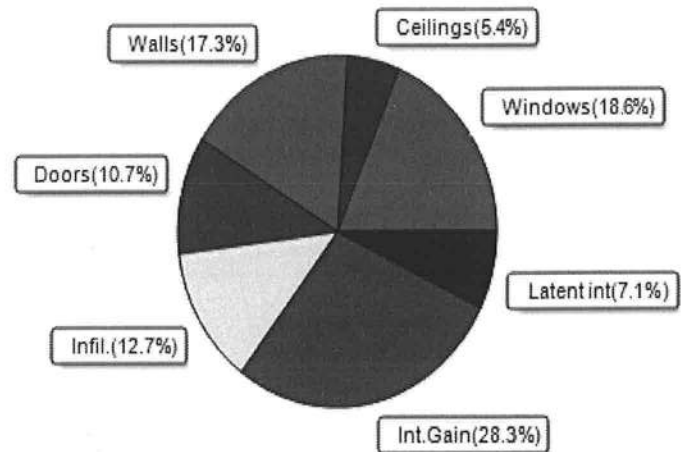
Load component		Load	
Window total	210 sqft	2184	Btuh
Wall total	1291 sqft	4585	Btuh
Door total	131 sqft	2404	Btuh
Ceiling total	1996 sqft	1413	Btuh
Floor total	1996 sqft	10856	Btuh
Infiltration	52 cfm	2262	Btuh
Duct loss		0	Btuh
Subtotal		23704	Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
TOTAL HEAT LOSS		23704	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1996 sqft)

Load component		Load	
Window total	210 sqft	3140	Btuh
Wall total	1291 sqft	2923	Btuh
Door total	131 sqft	1803	Btuh
Ceiling total	1996 sqft	919	Btuh
Floor total		0	Btuh
Infiltration	39 cfm	806	Btuh
Internal gain		4780	Btuh
Duct gain		0	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		14370	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		1337	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1200	Btuh
Total latent gain		2537	Btuh
TOTAL HEAT GAIN		16907	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

3-25-24

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Yates Residence

, FL

3/25/2024

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

Window	Type*					Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.20, 0.26	No	No	N	1.5ft	1.3ft	32.0	0.0	32.0	9	9	293	Btuh
2	2 NFRC	0.20, 0.26	No	No	N	1.5ft	1.3ft	36.0	0.0	36.0	9	9	329	Btuh
3	2 NFRC	0.20, 0.26	No	No	E	1.5ft	1.3ft	24.0	0.0	24.0	9	24	581	Btuh
4	2 NFRC	0.20, 0.26	No	No	E	1.5ft	1.3ft	3.0	0.0	3.0	9	24	73	Btuh
5	2 NFRC	0.20, 0.26	No	No	S	1.5ft	1.3ft	60.0	60.0	0.0	9	11	549	Btuh
6	2 NFRC	0.20, 0.26	No	No	S	1.5ft	1.3ft	10.0	10.0	0.0	9	11	91	Btuh
7	2 NFRC	0.20, 0.26	No	No	W	1.5ft	1.3ft	24.0	0.0	24.0	9	24	581	Btuh
8	2 NFRC	0.20, 0.26	No	No	W	1.5ft	1.3ft	6.0	0.0	6.0	9	24	145	Btuh
9	2 NFRC	0.20, 0.26	No	No	W	1.5ft	1.3ft	15.0	0.0	15.0	9	24	363	Btuh
	Excursion												134	Btuh
	Window Total							210 (sqft)					3140 Btuh	
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load				
					Cav/Sheath									
1	Frame - Wood - Ext		0.09		13.0/0.0		385.0		2.3		871	Btuh		
2	Frame - Wood - Ext		0.09		13.0/0.0		312.0		2.3		706	Btuh		
3	Frame - Wood - Ext		0.09		13.0/0.0		300.3		2.3		680	Btuh		
4	Frame - Wood - Ext		0.09		13.0/0.0		294.0		2.3		665	Btuh		
	Wall Total						1291 (sqft)				2923 Btuh			
Doors	Type	U-Value		R-Value		Area (sqft)		HTM		Load				
1	Wood - Exterior						24.0		13.8		331	Btuh		
2	Insulated - Exterior						33.3		13.8		460	Btuh		
3	Insulated - Exterior						40.0		13.8		552	Btuh		
4	Insulated - Exterior						33.3		13.8		460	Btuh		
	Door Total						131 (sqft)				1803 Btuh			
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load				
1	SnglAsmb w airsp/DarkShingle		0.018		30.0/30.0		1996.0		0.46		919	Btuh		
	Ceiling Total						1996 (sqft)				919 Btuh			
Floors	Type	U-Value		R-Value		Size		HTM		Load				
1	Slab On Grade				0.0		1996 (ft-perimeter)		0.0		0	Btuh		
	Floor Total						1996.0 (sqft)				0 Btuh			
	Envelope Subtotal:											8785 Btuh		
Infiltration	Type	Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load				
	Natural													
			0.13		17964		1		38.7		806	Btuh		
Internal gain		Occupants		Btuh/occupant		Appliance		Load						
			6		X 230		+		3400		4780	Btuh		
	Sensible Envelope Load:											14370 Btuh		
Duct load	Average sealed, Supply(R6.0-Condi), Return(R6.0-Condi)	(DGM of 0.000)		Load										
	Sensible Load All Zones											14370 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Yates Residence

, FL

3/25/2024

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	14370 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	14370 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	14370 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1337 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2537 Btuh
	TOTAL GAIN	16907 Btuh

EQUIPMENT

1. Central Unit	#	36000 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(1/2))
(Ornt - compass orientation)



Version 8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Yates Residence
Building Type: User

, FL

3/25/2024

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 0.20	Vinyl	0.26	N	32.0		10.4	333 Btuh
2	2, NFRC 0.20	Vinyl	0.26	N	36.0		10.4	374 Btuh
3	2, NFRC 0.20	Vinyl	0.26	E	24.0		10.4	250 Btuh
4	2, NFRC 0.20	Vinyl	0.26	E	3.0		10.4	31 Btuh
5	2, NFRC 0.20	Vinyl	0.26	S	60.0		10.4	624 Btuh
6	2, NFRC 0.20	Vinyl	0.26	S	10.0		10.4	104 Btuh
7	2, NFRC 0.20	Vinyl	0.26	W	24.0		10.4	250 Btuh
8	2, NFRC 0.20	Vinyl	0.26	W	6.0		10.4	62 Btuh
9	2, NFRC 0.20	Vinyl	0.26	W	15.0		10.4	156 Btuh
	Window Total				210.0(sqft)			2184 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	385		3.55	1367 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	312		3.55	1108 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	300		3.55	1066 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	294		3.55	1044 Btuh
	Wall Total				1291(sqft)			4585 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Wood - Exterior,	n	(0.460)		24		18.4	442 Btuh
2	Insulated - Exterior,	n	(0.460)		33		18.4	613 Btuh
3	Insulated - Exterior,	n	(0.460)		40		18.4	736 Btuh
4	Insulated - Exterior,	n	(0.460)		33		18.4	613 Btuh
	Door Total				131(sqft)			2404Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Single as/D/Shing		(0.018)	30.0/30.0	1996		0.71	1413 Btuh
	Ceiling Total				1996(sqft)			1413Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	230.0 ft(perim.)		47.2	10856 Btuh
	Floor Total				1996 sqft			10856 Btuh
	Envelope Subtotal:							21442 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.17	17964	1.00	51.6		2262 Btuh
Duct load	Average sealed, R6.0, Supply(Con), Return(Con)						(DLM of 0.000)	0 Btuh
All Zones	Sensible Subtotal All Zones							23704 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Yates Residence
Building Type: User

, FL

3/25/2024

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	23704 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	23704 Btuh

EQUIPMENT

1. Electric Heat Pump	#	36000 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