

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mancilla Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: columbia(Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2019 Conditioned floor area below grade (ft²) 0 7. Windows(178.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 178.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 2.717 ft Area Weighted Average SHGC: 0.200 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 2019.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1863.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1863.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(2019.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 2019.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 2257 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 404 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 42.0 SEER2:14.30 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 42.0 HSPF2:7.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat
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Glass/Floor Area: 0.088	Total Proposed Modified Loads: 51.66	PASS
	Total Baseline Loads: 53.70	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 8-24-23 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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- 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.
- Default duct leakage does not require a Duct Leakage Test Report.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.73 ACH50 (R402.4.1.2).

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INPUT SUMMARY CHECKLIST REPORT

WALLS																	(Total Exposed Area = 1863 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	40.0	10	9.0	0	367.5	0.094		0.23	0.75	0 %					
___ 2	E	Exterior	Frame - Wood	Main	13.0	13.0	4	9.0	0	120.0	0.094		0.23	0.75	0 %					
___ 3	S	Exterior	Frame - Wood	Main	13.0	8.0	8	9.0	0	78.0	0.094		0.23	0.75	0 %					
___ 4	E	Exterior	Frame - Wood	Main	13.0	21.0	6	9.0	0	193.5	0.094		0.23	0.75	0 %					
___ 5	N	Exterior	Frame - Wood	Main	13.0	8.0	8	9.0	0	78.0	0.094		0.23	0.75	0 %					
___ 6	E	Exterior	Frame - Wood	Main	13.0	19.0	2	9.0	0	172.5	0.094		0.23	0.75	0 %					
___ 7	S	Exterior	Frame - Wood	Main	13.0	40.0	10	9.0	0	367.5	0.094		0.23	0.75	0 %					
___ 8	W	Exterior	Frame - Wood	Main	13.0	54.0	0	9.0	0	486.0	0.094		0.23	0.75	0 %					

DOORS																	(Total Exposed Area = 53 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area									
___ 1	E	Exterior	Insulated	Main	None	0.40	5.00	0	6.00	8	33.3ft²									
___ 2	S	Exterior	Insulated	Main	None	0.40	3.00	0	6.00	8	20.0ft²									

WINDOWS																	(Total Exposed Area = 178 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	30.0	2	3.00	5.00	1.5	2.3	None	None			
___ 2	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	6.0	1	2.00	3.00	1.5	2.3	None	None			
___ 3	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	3.0	1	3.00	1.00	1.5	2.3	None	None			
___ 4	E	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	25.0	2	2.50	5.00	10.2	2.3	None	None			
___ 5	S	7	Vinyl	Low-E Double	Y	0.26	0.20	N	N	75.0	5	3.00	5.00	1.5	2.3	None	None			
___ 6	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	9.0	1	3.00	3.00	1.5	2.3	None	None			
___ 7	W	8	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	2.3	None	None			

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00027	1432	78.59	147.54	0.0972	4.7	All	18171 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 Entry	Heat Pump Power	Heat Pump Volt	Heat Pump Current	Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	42.0		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		SEER2:14.3	42.0	1260	0.85	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	80 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 #	Location	Supply R-Value	Area	Location	Return R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1	Attic	6.0	404 ft²	Attic	6.0	101 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	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(1863.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1863.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	5	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	2019	11. Ceiling Types(2019.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	2019.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.26	c. N/A		
SHGC:	SHGC=0.20			
b. U-Factor:	N/A	12. Roof(Comp. Shingles, Vented) Deck R=0.0		2257 ft ²
SHGC:		13. Ducts, location & insulation level	R	ft ²
c. U-Factor:	N/A	a. Sup: Attic, Ret: Attic, AH: Main	6	404
SHGC:		b.		
Area Weighted Average Overhang Depth:	2.717 ft	c.		
Area Weighted Average SHGC:	0.200	14. Cooling Systems	kBtu/hr	Efficiency
8. Skylights	Description	a. Central Unit	42.0	SEER2:14.30
U-Factor:(AVG)	N/A	15. Heating Systems	kBtu/hr	Efficiency
SHGC(AVG):	N/A	a. Electric Heat Pump	42.0	HSPF2:7.50
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. Electric	Cap: 50 gallons	
b. N/A	R=		EF: 0.920	
c. N/A	R=	b. Conservation features		
		17. Credits	None	
			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.

Residential System Sizing Calculation

Summary

Project Title:
Mancilla Residence

, FL

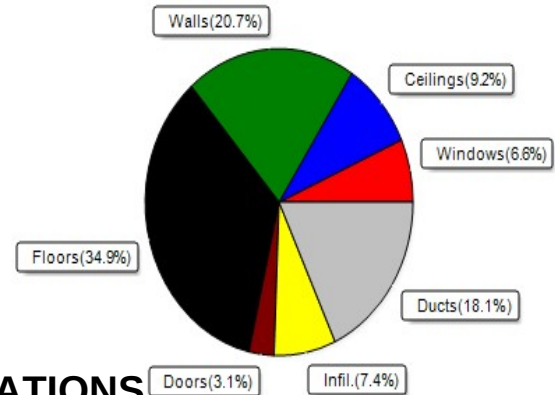
8/24/2023

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	27965 Btuh	Total cooling load calculation	26607 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	150.2 42000	Sensible (SHR = 0.85)	161.1 35700
Heat Pump + Auxiliary(0.0kW)	150.2 42000	Latent	141.5 6300
		Total (Electric Heat Pump)	157.9 42000

WINTER CALCULATIONS

Winter Heating Load (for 2019 sqft)

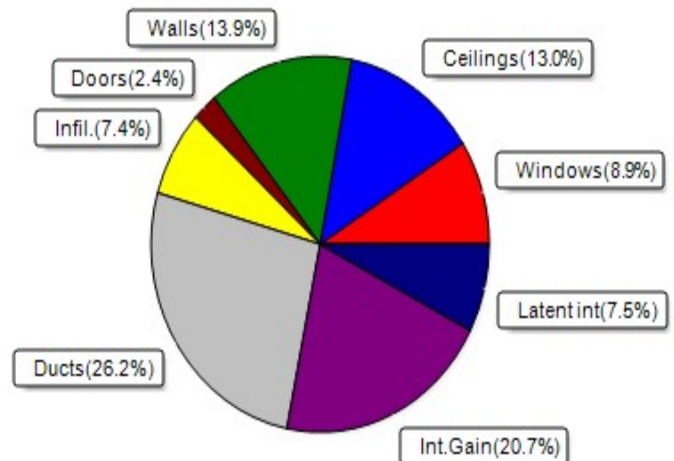
Load component	Load
Window total 178 sqft	1851 Btuh
Wall total 1632 sqft	5793 Btuh
Door total 53 sqft	853 Btuh
Ceiling total 2019 sqft	2572 Btuh
Floor total 2019 sqft	9770 Btuh
Infiltration 47 cfm	2065 Btuh
Duct loss	5060 Btuh
Subtotal	27965 Btuh
Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
TOTAL HEAT LOSS	27965 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2019 sqft)

Load component	Load
Window total 178 sqft	2379 Btuh
Wall total 1632 sqft	3693 Btuh
Door total 53 sqft	640 Btuh
Ceiling total 2019 sqft	3472 Btuh
Floor total	0 Btuh
Infiltration 35 cfm	736 Btuh
Internal gain	5500 Btuh
Duct gain	5734 Btuh
Sens.Ventilation Ex:0 cfm; Sup:0 cfm	0 Btuh
Blower Load	0 Btuh
Total sensible gain	22154 Btuh
Latent gain(ducts)	1233 Btuh
Latent gain(infiltration)	1221 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	2000 Btuh
Total latent gain	4453 Btuh
TOTAL HEAT GAIN	26607 Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

8-24-23

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Mancilla Residence

, FL

8/24/2023

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	2.3ft	30.0	0.0	30.0	9	9	274	Btuh		
2	2 NFRC	0.20, 0.26	No	No	N	1.5ft	2.3ft	6.0	0.0	6.0	9	9	55	Btuh		
3	2 NFRC	0.20, 0.26	No	No	S	1.5ft	2.3ft	3.0	3.0	0.0	9	11	27	Btuh		
4	2 NFRC	0.20, 0.26	No	No	E	10.2f	2.3ft	25.0	25.0	0.0	9	24	229	Btuh		
5	2 NFRC	0.20, 0.26	No	No	S	1.5ft	2.3ft	75.0	75.0	0.0	9	11	686	Btuh		
6	2 NFRC	0.20, 0.26	No	No	W	1.5ft	2.3ft	9.0	0.0	9.0	9	24	218	Btuh		
7	2 NFRC	0.20, 0.26	No	No	W	1.5ft	2.3ft	30.0	0.0	30.0	9	24	727	Btuh		
	Excursion												163	Btuh		
	Window Total							178 (sqft)					2379	Btuh		
Walls	Type						U-Value	R-Value	Area(sqft)		HTM		Load			
								Cav/Sheath								
1	Frame - Wood - Ext					0.09	13.0/0.0	331.5		2.3		750		Btuh		
2	Frame - Wood - Ext					0.09	13.0/0.0	120.0		2.3		272		Btuh		
3	Frame - Wood - Ext					0.09	13.0/0.0	75.0		2.3		170		Btuh		
4	Frame - Wood - Ext					0.09	13.0/0.0	135.2		2.3		306		Btuh		
5	Frame - Wood - Ext					0.09	13.0/0.0	78.0		2.3		177		Btuh		
6	Frame - Wood - Ext					0.09	13.0/0.0	172.5		2.3		390		Btuh		
7	Frame - Wood - Ext					0.09	13.0/0.0	272.5		2.3		617		Btuh		
8	Frame - Wood - Ext					0.09	13.0/0.0	447.0		2.3		1012		Btuh		
	Wall Total							1632 (sqft)				3693		Btuh		
Doors	Type								Area (sqft)		HTM		Load			
1	Insulated - Exterior							33.3		12.0		400		Btuh		
2	Insulated - Exterior							20.0		12.0		240		Btuh		
	Door Total							53 (sqft)				640		Btuh		
Ceilings	Type/Color/Surface						U-Value	R-Value	Area(sqft)		HTM		Load			
1	Vented Attic/DarkShingle					0.032	30.0/0.0	2019.0		1.72		3472		Btuh		
	Ceiling Total							2019 (sqft)				3472		Btuh		
Floors	Type						R-Value		Size		HTM		Load			
1	Slab On Grade					0.0		2019 (ft-perimeter)		0.0		0		Btuh		
	Floor Total							2019.0 (sqft)				0		Btuh		
	Envelope Subtotal:												10184 Btuh			
Infiltration	Type						Average ACH		Volume(cuft)		Wall Ratio		CFM=		Load	
	Natural						0.12		18171		1		35.3		736	
Internal gain						Occupants		Btuh/occupant		Appliance		Load				
						10		X 230		+		3200		5500		
	Sensible Envelope Load:												16420 Btuh			
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)										(DGM of 0.349)		5734		Btuh	
	Sensible Load All Zones												22154 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Mancilla Residence

, FL

8/24/2023

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16420 Btuh
	Sensible Duct Load	5734 Btuh
	Total Sensible Zone Loads	22154 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	22154 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	1221 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1233 Btuh
	Latent occupant gain (10.0 people @ 200 Btuh per person)	2000 Btuh
	Latent other gain	0 Btuh
	Latent total gain	4453 Btuh
	TOTAL GAIN	26607 Btuh

EQUIPMENT

1. Central Unit	#	42000 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

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Mancilla Residence
Building Type: User

, FL

8/24/2023

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	30.0		10.4	312 Btuh
2	2, NFRC 0.20	Vinyl	0.26	N	6.0		10.4	62 Btuh
3	2, NFRC 0.20	Vinyl	0.26	S	3.0		10.4	31 Btuh
4	2, NFRC 0.20	Vinyl	0.26	E	25.0		10.4	260 Btuh
5	2, NFRC 0.20	Vinyl	0.26	S	75.0		10.4	780 Btuh
6	2, NFRC 0.20	Vinyl	0.26	W	9.0		10.4	94 Btuh
7	2, NFRC 0.20	Vinyl	0.26	W	30.0		10.4	312 Btuh
	Window Total				178.0(sqft)			1851 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	332		3.55	1177 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	120		3.55	426 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	75		3.55	266 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	135		3.55	480 Btuh
5	Frame - Wood	- Ext	(0.089)	13.0/0.0	78		3.55	277 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	173		3.55	612 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	273		3.55	967 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	447		3.55	1587 Btuh
	Wall Total				1632(sqft)			5793 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior, n		(0.400)		33		16.0	533 Btuh
2	Insulated - Exterior, n		(0.400)		20		16.0	320 Btuh
	Door Total				53(sqft)			853Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Flat ceil/D/Shing		(0.032)	30.0/0.0	2019		1.3	2572 Btuh
	Ceiling Total				2019(sqft)			2572Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	207.0 ft(perim.)		47.2	9770 Btuh
	Floor Total				2019 sqft			9770 Btuh
	Envelope Subtotal:							20840 Btuh
Infiltration	Type	Wholehouse	ACH	Volume(cuft)	Wall Ratio	CFM=		
	Natural		0.16	18171	1.00	47.1		2065 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)						(DLM of 0.221)	5060 Btuh
All Zones	Sensible Subtotal All Zones							27965 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

, FL

Project Title:
Mancilla Residence
Building Type: User

8/24/2023

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	27965 Btuh
	Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Total Heat Loss	27965 Btuh

EQUIPMENT

1. Electric Heat Pump	#	42000 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