

Residential System Sizing Calculation

Summary

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title:
Camiel Residence

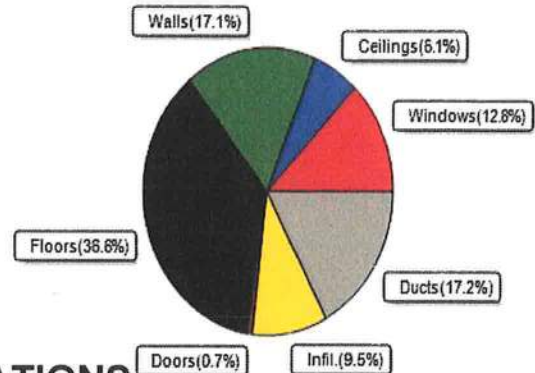
7/2/2024

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature(MJ8 99%/Cu)	33 F	Summer design temperature(MJ8 99%/Cu)	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	57139 Btuh	Total cooling load calculation	47862 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	107.1 61214	Sensible (SHR = 0.70)	75.9 30443
Heat Pump + Auxiliary(0.0kW)	107.1 61214	Latent	167.9 13047
		Total (Electric Heat Pump)	90.9 43490

WINTER CALCULATIONS

Winter Heating Load (for 3355 sqft)

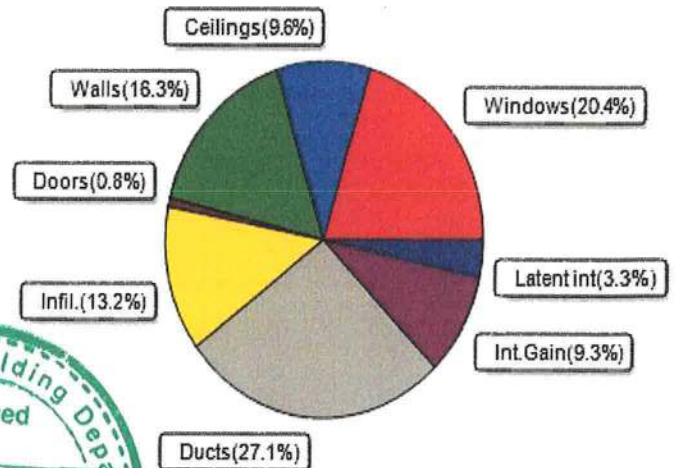
Load component		Load	
Window total	550 sqft	7326	Btuh
Wall total	2979 sqft	9784	Btuh
Door total	24 sqft	408	Btuh
Ceiling total	3691 sqft	3466	Btuh
Floor total	3355 sqft	20899	Btuh
Infiltration	134 cfm	5435	Btuh
Duct loss		9821	Btuh
Subtotal		57139	Btuh
Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
TOTAL HEAT LOSS		57139	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 3355 sqft)

Load component		Load	
Window total	550 sqft	9750	Btuh
Wall total	2979 sqft	7801	Btuh
Door total	24 sqft	386	Btuh
Ceiling total	3691 sqft	4590	Btuh
Floor total		0	Btuh
Infiltration	101 cfm	2644	Btuh
Internal gain		4440	Btuh
Duct gain		10478	Btuh
Sens.Ventilation	Ex:0 cfm; Sup:0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		40090	Btuh
Latent gain(ducts)		2495	Btuh
Latent gain(infiltration)		3678	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		7772	Btuh
TOTAL HEAT GAIN		47862	Btuh



8th Edition



EnergyGauge® System Sizing
PREPARED BY: Will C. My
DATE: 7/2/2024

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title:
Camiel Residence
Building Type: User

7/2/2024

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 °F (MJ8 99%/Cu)
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 0.25	Vinyl	0.36	S	8.0		13.3	107 Btuh
2	2, NFRC 0.25	Vinyl	0.36	S	18.0		13.3	240 Btuh
3	2, NFRC 0.25	Vinyl	0.36	S	72.0		13.3	959 Btuh
4	2, NFRC 0.25	TIM	0.36	S	48.0		13.3	639 Btuh
5	2, NFRC 0.25	Vinyl	0.36	E	8.0		13.3	107 Btuh
6	2, NFRC 0.25	Vinyl	0.36	E	6.0		13.3	80 Btuh
7	2, NFRC 0.25	Vinyl	0.36	N	36.0		13.3	480 Btuh
8	2, NFRC 0.25	Vinyl	0.36	W	36.0		13.3	480 Btuh
9	2, NFRC 0.25	TIM	0.36	W	24.0		13.3	320 Btuh
10	2, NFRC 0.25	Vinyl	0.36	N	24.0		13.3	320 Btuh
11	2, NFRC 0.25	Metal	0.36	N	160.0		13.3	2131 Btuh
12	2, NFRC 0.25	TIM	0.36	E	24.0		13.3	320 Btuh
13	2, NFRC 0.25	Vinyl	0.36	N	24.0		13.3	320 Btuh
14	2, NFRC 0.25	Vinyl	0.36	N	24.0		13.3	320 Btuh
15	2, NFRC 0.25	Vinyl	0.36	W	8.0		13.3	107 Btuh
16	2, NFRC 0.25	Vinyl	0.36	W	18.0		13.3	240 Btuh
17	2, NFRC 0.25	Vinyl	0.36	W	12.0		13.3	160 Btuh
Window Total					550.0(sqft)			7326 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	187		3.28	615 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	143		3.28	471 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	280		3.28	920 Btuh
4	Frame - Wood	- Adj	(0.089)	13.0/0.0	202		3.28	662 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	256		3.28	841 Btuh
6	Frame - Wood	- Ext	(0.089)	13.0/0.0	328		3.28	1076 Btuh
7	Frame - Wood	- Ext	(0.089)	13.0/0.0	264		3.28	867 Btuh
8	Frame - Wood	- Ext	(0.089)	13.0/0.0	183		3.28	602 Btuh
9	Frame - Wood	- Ext	(0.089)	13.0/0.0	246		3.28	808 Btuh
10	Frame - Wood	- Ext	(0.089)	13.0/0.0	186		3.28	611 Btuh
11	Frame - Wood	- Ext	(0.089)	13.0/0.0	135		3.28	444 Btuh
12	Frame - Wood	- Ext	(0.089)	13.0/0.0	569		3.28	1868 Btuh
Wall Total					2979(sqft)			9784 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Garage,	n	(0.460)		24		17.0	408 Btuh
Door Total					24(sqft)			408Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Flat ceil/D/Shing		(0.025)	38.0/0.0	3691		0.94	3466 Btuh
Ceiling Total					3691(sqft)			3466Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	478.7 ft(perim.)		43.7	20899 Btuh
Floor Total					3355 sqft			20899 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title:
Camiel Residence
Building Type: User

7/2/2024

	Envelope Subtotal:					41883 Btuh
Infiltration	Type Natural	Wholehouse ACH 0.24	Volume(cuft) 33550	Wall Ratio 1.00	CFM= 134.2	5435 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.208)					9821 Btuh
All Zones	Sensible Subtotal All Zones					57139 Btuh

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sens. Heat Loss (Ex:0 cfm; Sup:0 cfm) Total Heat Loss					57139 Btuh 0 Btuh 57139 Btuh
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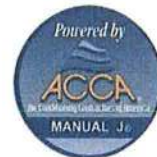
EQUIPMENT

1. Electric Heat Pump	#	61214 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

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title:
Camiel Residence

7/2/2024

Reference City: Gainesville, FL (Defaults)
Humidity difference: 54gr.

Temperature Difference: 24.0F(MJ8 99%/Cu)
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	0.25, 0.36	No	No	S		1.5ft.	1.0ft.	8.0	8.0	0.0	14	16	111	Btuh
2	2 NFRC	0.25, 0.36	No	No	S		1.5ft.	1.0ft.	18.0	18.0	0.0	14	16	250	Btuh
3	2 NFRC	0.25, 0.36	No	No	S		9.5ft.	1.0ft.	72.0	72.0	0.0	14	16	1001	Btuh
4	2 NFRC	0.25, 0.36	No	No	S		9.5ft.	1.0ft.	48.0	48.0	0.0	14	16	667	Btuh
5	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	8.0	2.0	6.0	14	33	225	Btuh
6	2 NFRC	0.25, 0.36	No	No	E		1.5ft.	1.0ft.	6.0	1.5	4.5	14	33	169	Btuh
7	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	36.0	0.0	36.0	14	14	500	Btuh
8	2 NFRC	0.25, 0.36	No	No	W		2.5ft.	1.0ft.	36.0	6.4	29.5	14	33	1057	Btuh
9	2 NFRC	0.25, 0.36	No	No	W		2.5ft.	1.0ft.	24.0	3.2	20.8	14	33	725	Btuh
10	2 NFRC	0.25, 0.36	No	No	N		9.5ft.	1.0ft.	24.0	0.0	24.0	14	14	334	Btuh
11	2 NFRC	0.25, 0.36	No	No	N		9.5ft.	1.0ft.	160.0	0.0	160.0	14	14	2224	Btuh
12	2 NFRC	0.25, 0.36	No	No	E		5.5ft.	1.0ft.	24.0	10.7	13.3	14	33	584	Btuh
13	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	24.0	0.0	24.0	14	14	334	Btuh
14	2 NFRC	0.25, 0.36	No	No	N		1.5ft.	1.0ft.	24.0	0.0	24.0	14	14	334	Btuh
15	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	1.0ft.	8.0	1.0	7.0	14	33	243	Btuh
16	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	1.0ft.	18.0	0.7	17.3	14	33	576	Btuh
17	2 NFRC	0.25, 0.36	No	No	W		1.5ft.	1.0ft.	12.0	0.5	11.5	14	33	384	Btuh
	Excursion													33	Btuh
	Window Total								550 (sqft)					9750 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		2.7		507 Btuh		
2	Frame - Wood - Ext						0.09	13.0/0.0	143.3		2.7		388 Btuh		
3	Frame - Wood - Ext						0.09	13.0/0.0	280.0		2.7		758 Btuh		
4	Frame - Wood - Adj						0.09	13.0/0.0	201.7		2.1		430 Btuh		
5	Frame - Wood - Adj						0.09	13.0/0.0	256.0		2.1		545 Btuh		
6	Frame - Wood - Ext						0.09	13.0/0.0	327.7		2.7		887 Btuh		
7	Frame - Wood - Ext						0.09	13.0/0.0	264.0		2.7		715 Btuh		
8	Frame - Wood - Ext						0.09	13.0/0.0	183.3		2.7		496 Btuh		
9	Frame - Wood - Ext						0.09	13.0/0.0	246.0		2.7		666 Btuh		
10	Frame - Wood - Ext						0.09	13.0/0.0	186.0		2.7		504 Btuh		
11	Frame - Wood - Ext						0.09	13.0/0.0	135.3		2.7		366 Btuh		
12	Frame - Wood - Ext						0.09	13.0/0.0	568.7		2.7		1539 Btuh		
	Wall Total								2979 (sqft)				7801 Btuh		
Doors	Type								Area (sqft)		HTM		Load		
1	Insulated - Garage								24.0		16.1		386 Btuh		
	Door Total								24 (sqft)				386 Btuh		
Ceilings	Type/Color/Surface						U-Value	R-Value	Area(sqft)		HTM		Load		
1	Vented Attic/DarkShingle/RB						0.025	38.0/0.0	3690.5		1.24		4590 Btuh		
	Ceiling Total								3691 (sqft)				4590 Btuh		
Floors	Type						R-Value		Size		HTM		Load		
1	Slab On Grade						0.0		3355 (ft-perimeter)		0.0		0 Btuh		
	Floor Total								3355.0 (sqft)				0 Btuh		
	Envelope Subtotal:													22528 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
Camiel Residence

7/2/2024

Infiltration	Type Natural	Average ACH 0.18	Volume(cuft) 33550	Wall Ratio 1	CFM= 100.6	Load 2644 Btuh
Internal gain		Occupants 8	Btuh/occupant X 230	Appliance +	2600	Load 4440 Btuh
					Sensible Envelope Load:	29612 Btuh
Duct load	Average sealed,Supply(R6.0-Attic), Return(R6.0-Attic)				(DGM of 0.354)	10478 Btuh
					Sensible Load All Zones	40090 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Tim & Sequeta Camiel
SW Honer Lane
Lake City, FL 32024

Project Title:
Camiel Residence

Climate: FL_GAINESVILLE_REGIONAL_A

7/2/2024

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29612 Btuh
	Sensible Duct Load	10478 Btuh
	Total Sensible Zone Loads	40090 Btuh
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0 Btuh
	Blower	0 Btuh
	Total sensible gain	40090 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	3678 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	2495 Btuh
	Latent occupant gain (8.0 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	7772 Btuh
	TOTAL GAIN	47862 Btuh

EQUIPMENT

1. Central Unit	#	43490 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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Camiel Residence Street: SW Honer Lane City, State, Zip: Lake City, FL, 32024 Owner: Tim & Sequeta Camiel Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County 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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 3355 Conditioned floor area below grade (ft²) 0 7. Windows(550.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 550.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 6.205 ft Area Weighted Average SHGC: 0.250 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 3355.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(3553.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 3071.70 ft² b. Frame - Wood, Adjacent R=13.0 481.67 ft² c. N/A d. N/A 11. Ceiling Types(3690.5 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=38.0 3690.50 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 4368 ft² 13. Ducts, location & insulation level R ft² a. Sup: Attic, Ret: Attic, AH: Garage 6 839 b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 43.5 SEER2:15.50 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 61.2 HSPF2:8.80 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CV, Pstat
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Glass/Floor Area:0.164

Total Proposed Modified Loads: 78.25

Total Baseline Loads: 86.60

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>Will C. May</u> DATE: <u>7/2/2024</u> 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Camiel Residence	Bedrooms:	4	Address type:	Street Address
Building Type:	User	Conditioned Area:	3355	Lot #:	---
Owner:	Tim & Sequeta Camiel	Total Stories:	1	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:		Rotate Angle:	0	Street:	SW Honer Lane
Permit Office:	Columbia County	Cross Ventilation:	Yes	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32024
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2024				
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_REGIONA	32 92	70 75	1305.5	51	Medium

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	3355	33550 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	1st Floor	3355	33550	Yes	8	4	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 3355 sq.ft.)

✓ #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	1st Floor	478.667	3355 sqft	0 ---	0.304	2 (ft)/0 (ft)	0.00	0.00	1.00

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	4368 ft²	782 ft²	Medium	Y	0.96	No	0.9	No	0	39.81

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Partial cathedral ceiling	Vented	300	3355 ft²	Y	N

CEILING

(Total Exposed Area = 3691 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	1st Floor	38.0	Double Batt	3690.5ft²	0.024	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 3553 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	S	Exterior	Frame - Wood	1st Floor	13.0	21.0	4	10.0	0	213.3	0.084		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	1st Floor	13.0	14.0	4	10.0	0	143.3	0.084		0.23	0.75	0 %			
___ 3	S	Exterior	Frame - Wood	1st Floor	13.0	40.0	0	10.0	0	400.0	0.084		0.23	0.75	0 %			
___ 4	E	Garage	Frame - Wood	1st Floor	13.0	20.0	2	10.0	0	201.7	0.084		0.23	0.75	0 %			
___ 5	S	Garage	Frame - Wood	1st Floor	13.0	28.0	0	10.0	0	280.0	0.084		0.23	0.75	0 %			
___ 6	E	Exterior	Frame - Wood	1st Floor	13.0	34.0	2	10.0	0	341.7	0.084		0.23	0.75	0 %			
___ 7	N	Exterior	Frame - Wood	1st Floor	13.0	30.0	0	10.0	0	300.0	0.084		0.23	0.75	0 %			
___ 8	W	Exterior	Frame - Wood	1st Floor	13.0	24.0	4	10.0	0	243.3	0.084		0.23	0.75	0 %			
___ 9	N	Exterior	Frame - Wood	1st Floor	13.0	43.0	0	10.0	0	430.0	0.084		0.23	0.75	0 %			
___ 10	E	Exterior	Frame - Wood	1st Floor	13.0	21.0	0	10.0	0	210.0	0.084		0.23	0.75	0 %			
___ 11	N	Exterior	Frame - Wood	1st Floor	13.0	18.0	4	10.0	0	183.3	0.084		0.23	0.75	0 %			
___ 12	W	Exterior	Frame - Wood	1st Floor	13.0	60.0	8	10.0	0	606.7	0.084		0.23	0.75	0 %			

DOORS										(Total Exposed Area = 24 sq.ft.)			
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	S	Garage	Insulated	1st Floor	None	0.46	3.00	0	8.00	0	24.0ft²		

WINDOWS															(Total Exposed Area = 550 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	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	2	2.00	2.00	1.5	1.0	None	None	
___ 2	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	1.0	None	None	
___ 3	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	72.0	4	3.00	6.00	9.5	1.0	None	None	
___ 4	S	3	TIM	Low-E Double	Y	0.36	0.25	N	N	48.0	2	3.00	8.00	9.5	1.0	None	None	
___ 5	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	2	4.00	1.00	1.5	1.0	None	None	
___ 6	E	6	Vinyl	Low-E Double	Y	0.36	0.25	N	N	6.0	3	2.00	1.00	1.5	1.0	None	None	
___ 7	N	7	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	3	2.00	6.00	1.5	1.0	None	None	
___ 8	W	8	Vinyl	Low-E Double	Y	0.36	0.25	N	N	36.0	2	3.00	6.00	2.5	1.0	None	None	
___ 9	W	8	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	2.5	1.0	None	None	
___ 10	N	9	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	3	2.00	4.00	9.5	1.0	None	None	
___ 11	N	9	Metal	Low-E Double	Y	0.36	0.25	N	N	160.0	1	20.00	8.00	9.5	1.0	None	None	
___ 12	E	10	TIM	Low-E Double	Y	0.36	0.25	N	N	24.0	1	3.00	8.00	5.5	1.0	None	None	
___ 13	N	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	2	2.00	6.00	1.5	1.0	None	None	
___ 14	N	11	Vinyl	Low-E Double	Y	0.36	0.25	N	N	24.0	1	4.00	6.00	1.5	1.0	None	None	
___ 15	W	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	8.0	2	2.00	2.00	1.5	1.0	None	None	
___ 16	W	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	18.0	1	3.00	6.00	1.5	1.0	None	None	
___ 17	W	12	Vinyl	Low-E Double	Y	0.36	0.25	N	N	12.0	1	2.00	6.00	1.5	1.0	None	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00044	3914	214.74	403.16	0.1500	7.0	All	33550 cu ft

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	896 ft²	896 ft²	75 ft	10 ft	1

INPUT SUMMARY CHECKLIST REPORT

MASS

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

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: 8.80	61.2	0.00 0.00 0.00	sys#1	1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	Central Unit	None/Single		SEER2:15.5	43.5	1290	0.70	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
1	Electric	None	Garage	0.92 (0.92)	50.00 gal	40 gal	120 deg	Standard	None	12
	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	Return R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF	HVAC # Heat Cool
1	Attic	6.0 839 ft²	Attic 6.0 168 ft²	Default Leakage	Garage	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans: N

Cooling	[] Jan	[] Feb	[] Mar	[] Apr	[] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[] Oct	[] Nov	[] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[] Oct	[X] Nov	[X] Dec
Venting	[] Jan	[] Feb	[X] Mar	[X] Apr	[] May	[] Jun	[] Jul	[] Aug	[] Sep	[X] Oct	[X] 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 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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 90

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

SW Honer Lane,Lake City,FL,32024

1. New construction or existing	New (From Plans)	10. Wall Types(3553.3 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	3071.70 ft ²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	481.67 ft ²
4. Number of Bedrooms	4	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	3355	11. Ceiling Types(3690.5 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	3690.50 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	DbI, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck R=0.0		4368 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	839
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	6.205 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	43.5	SEER2:15.50
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	61.2	HSPF2:8.80
SHGC(AVG):	N/A			
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		
				None
		17. Credits		CV, 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: SW Honer Lane

City/FL Zip: Lake City,FL,32024



*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.