

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mueller Street: 232 Cedarwood Glen City, State, Zip: Lake City, FL, 32024 Owner: Design Location: FL, Jacksonville	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 4 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2436 Conditioned floor area below grade (ft²) 0 7. Windows (412.0 sqft.) Description Area a. U-Factor: Dbl, U=0.36 192.00 ft² SHGC: SHGC=0.19 b. U-Factor: Dbl, U=0.36 184.00 ft² SHGC: SHGC=0.25 c. U-Factor: Dbl, U=0.27 28.00 ft² SHGC: SHGC=0.24 Area Weighted Average Overhang Depth: 6.888 ft. Area Weighted Average SHGC: 0.221 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (2436.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2436.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types (1914.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 1914.00 ft² b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2436.0 sqft.) Insulation Area a. Under Attic (Vented) R=38.0 2436.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Main 6 487.2 13. Cooling systems kBtu/hr Efficiency a. Central Unit 44.0 SEER:14.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 46.0 HSPF:8.50 15. Hot water systems a. Electric Cap: 50 gallons EF: 0.950 b. Conservation features None 16. Credits CF, Pstat
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Glass/Floor Area: 0.169	Total Proposed Modified Loads: 59.44	PASS
	Total Baseline Loads: 59.23	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: Donna Brackeen DATE: 05/03/2021 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.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	Mueller	Bedrooms:	4	Address Type:	Street Address								
Building Type:	User	Conditioned Area:	2436	Lot #									
Owner Name:		Total Stories:	1	Block/Subdivision:									
# of Units:	1	Worst Case:	No	PlatBook:									
Builder Name:		Rotate Angle:	0	Street:	232 Cedarwood Glen								
Permit Office:		Cross Ventilation:		County:	Columbia								
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City ,								
Family Type:	Detached				FL , 32024								
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, Jacksonville	FL_JACKSONVILLE_INT	32	93	70	75	1281	49	Medium				
BLOCKS													
	Number	Name	Area	Volume									
	1	Block1	2436	21924									
SPACES													
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated		
	1	Main	2436	21924	Yes	5	4	1	Yes	Yes	Yes		
FLOORS													
✓	#	Floor Type	Space	Perimeter	R-Value	Area			Tile	Wood	Carpet		
_____	1	Slab-On-Grade Edge Insulatio	Main	251.3 ft	0	2436 ft²	----		0.25	0.75	0		
ROOF													
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Metal	2928 ft²	0 ft²	Medium	N	0.96	No	0.9	No	0	33.69
ATTIC													
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC						
_____	1	Full attic	Vented	300	2436 ft²	N	N						
CEILING													
✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type					
_____	1	Under Attic (Vented)	Main	38	Blown	2436 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	S	Exterior	Frame - Wood	Main	13	13	6	9		121.5 ft²	0.69	0.23	0.5	0
___ 2	S	Exterior	Frame - Wood	Main	13	9	0	9		81.0 ft²	0.69	0.23	0.5	0
___ 3	S	Exterior	Frame - Wood	Main	13	11	6	9		103.5 ft²	0.69	0.23	0.5	0
___ 4	S	Exterior	Frame - Wood	Main	13	6	0	9		54.0 ft²	0.69	0.23	0.5	0
___ 5	E	Exterior	Frame - Wood	Main	13	46	10	9		421.5 ft²	0.69	0.23	0.5	0
___ 6	W	Exterior	Frame - Wood	Main	13	52	8	9		474.0 ft²	0.69	0.23	0.5	0
___ 7	W	Exterior	Frame - Wood	Main	13	14	2	9		127.5 ft²	0.69	0.23	0.5	0
___ 8	N	Exterior	Frame - Wood	Main	13	27	8	9		249.0 ft²	0.69	0.23	0.5	0
___ 9	N	Exterior	Frame - Wood	Main	13	16	2	9		145.5 ft²	0.69	0.23	0.5	0
___ 10	N	Exterior	Frame - Wood	Main	13	15	2	9		136.5 ft²	0.69	0.23	0.5	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	S	Wood	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	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___ 2	S	2	Wood	Low-E Double	Yes	0.4	0.25	N	8.0 ft²	2 ft 0 in	11 ft 0 in	None	None
___ 3	S	2	Vinyl	Low-E Double	Yes	0.27	0.24	N	8.0 ft²	11 ft 0 in	1 ft 0 in	None	None
___ 4	S	3	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	7 ft 0 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 5	S	4	Vinyl	Low-E Double	Yes	0.27	0.24	N	4.0 ft²	1 ft 0 in	2 ft 0 in	None	None
___ 6	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
___ 7	E	5	Vinyl	Low-E Double	Yes	0.27	0.24	N	4.0 ft²	1 ft 0 in	1 ft 0 in	None	None
___ 8	E	5	Vinyl	Low-E Double	Yes	0.27	0.24	N	4.0 ft²	1 ft 0 in	1 ft 0 in	None	None
___ 9	W	6	Vinyl	Low-E Double	Yes	0.27	0.24	N	8.0 ft²	1 ft 0 in	1 ft 0 in	None	None
___ 10	W	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	20.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
___ 11	W	7	Vinyl	Low-E Double	Yes	0.36	0.19	N	96.0 ft²	7 ft 0 in	1 ft 0 in	Drapes/blinds	None
___ 12	N	8	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/blinds	Exterior 5
___ 13	N	9	Vinyl	Low-E Double	Yes	0.36	0.19	N	96.0 ft²	14 ft 0 in	1 ft 0 in	Drapes/blinds	None
___ 14	N	10	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	753 ft²	753 ft²	80.7 ft	9 ft	1

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50					
1	Wholehouse	Proposed ACH(50)	.0004	2557.8	140.33	263.45	.1438	7					

HEATING SYSTEM										
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block		Ducts	
✓	1	Electric Heat Pump/	Split	Singl	HSPF:8.5	46 kBtu/hr	1		sys#1	

COOLING SYSTEM										
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
✓	1	Central Unit/	Split	Singl	SEER: 14	44 kBtu/hr	1320 cfm	0.75	1	sys#1

HOT WATER SYSTEM									
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Garage	0.95	50 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM							
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS														
✓	#	---- Supply ----			---- Return ----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		Location	R-Value	Area	Location	Area							Heat	Cool
✓	1	Attic	6	487.2 ft	Attic	121.8 ft	Default Leakage	Main	(Default)	(Default)			1	1

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

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: FloridaCode 2017		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72
MASS													
Mass Type			Area		Thickness		Furniture Fraction			Space			
Default(8 lbs/sq.ft.			0 ft²		0 ft		0.3			Main			