

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Rodney Wade- Speicher
 Street: Rodney Wade- Speicher
 City, State, Zip: Ft White , FL ,
 Owner: Rodney Wade- Speicher
 Design Location: FL, Gainesville

Builder Name: Spann's Heating and Air INC.
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: columbia (Florida Climate Zone 2)

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	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	1700
Conditioned floor area below grade (ft²)	0
7. Windows(160.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.40 160.00 ft²
SHGC:	SHGC=0.20
b. U-Factor:	N/A ft²
SHGC:	
c. U-Factor:	N/A ft²
SHGC:	
Area Weighted Average Overhang Depth:	1.000 ft.
Area Weighted Average SHGC:	0.200
8. Skylights	Area
c. U-Factor:(AVG)	N/A ft²
SHGC(AVG):	N/A
9. Floor Types (1699.3 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1699.30 ft²
b. N/A	R= ft²
c. N/A	R= ft²

10. Wall Type(1917.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1548.00 ft²
b. Interior Frame - Wood, Interior	R=13.0 369.00 ft²
c. N/A	R= ft²
d. N/A	R= ft²
11. Ceiling Types (1700.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=38.0 1700.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²
12. Ducts	R ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6 120
13. Cooling systems	kBtu/hr Efficiency
a. Central Unit	36.0 SEER:14.00
14. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	33.0 HSPF:8.20
15. Hot water systems	
a. Electric	Cap: 40 gallons EF: 0.960
b. Conservation features	None
16. Credits	None

Glass/Floor Area: 0.094

Total Proposed Modified Loads: 42.27

Total Baseline Loads: 45.17

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: TrustDATE: 6-16-2021

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [Signature]DATE: 06/16/21

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: _____

- 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).
- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.010 Qn for whole house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 94

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

Rodney Wade- Speicher, Ft White, FL,

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Frame - Wood, Exterior	R=13.0	1548.00 ft ²
3. Number of units, if multiple family	1		b. Interior Frame - Wood, Interior	R=13.0	369.00 ft ²
4. Number of Bedrooms	3		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	1700		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=38.0	1700.00 ft ²
a. U-Factor:	Dbl, U=0.40	160.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.20		c. N/A	R=	ft ²
b. U-Factor:	N/A	ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:			a. Sup: Attic, Ret: Attic, AH: Garage	6	120
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	36.0	SEER:14.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	33.0	HSPF:8.20
Area Weighted Average Overhang Depth:	1.000 ft.		15. Hot water systems		
Area Weighted Average SHGC:	0.200		a. Electric	Cap: 40 gallons	
8. Skylights	Description	Area		EF: 0.96	
a. U-Factor(AVG):	N/A	ft ²	b. Conservation features		
SHGC(AVG):	N/A		None		
9. Floor Types	Insulation	Area	Credits (Performance method)		None
a. Slab-On-Grade Edge Insulation	R=0.0	1699.30 ft ²			
b. N/A	R=	ft ²			
c. N/A	R=	ft ²			

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: _____



*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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Rodney Wade- Speicher	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1700	Lot #	
Owner Name:	Rodney Wade- Speicher	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Spann's Heating and Air INC.	Rotate Angle:	0	Street:	Rodney Wade- Speiche
Permit Office:		Cross Ventilation:	No	County:	columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Ft White ,
Family Type:	Detached				FL ,
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Entire House	1700	17520

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Master Bath	94	846	No	0		1	Yes	Yes	Yes
2	Master Bedroom	247	2223	No	2	1	1	Yes	Yes	Yes
3	Closet	88	792	No	0		1	Yes	Yes	Yes
4	Laundry	80	720	No	0		1	No	Yes	Yes
5	Kitchen	336	4032	No	2		1	Yes	Yes	Yes
6	Great Room	404	4848	No	2		1	Yes	Yes	Yes
7	Bedroom 2	202	1818	No	2	1	1	Yes	Yes	Yes
8	Bath	54	486	No	0		1	Yes	Yes	Yes
9	Bedroom 3	195	1755	No	2	1	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Master Bath	21 ft	0	94.3 ft²	----	0	1	0
_____	2	Slab-On-Grade Edge Insulatio	Master Bedroom	17 ft	0	246.5 ft²	----	0	1	0
_____	3	Slab-On-Grade Edge Insulatio	Closet	11 ft	0	88 ft²	----	0	1	0
_____	4	Slab-On-Grade Edge Insulatio	Laundry	1 ft	0	80 ft²	----	0	1	0
_____	5	Slab-On-Grade Edge Insulatio	Kitchen	21 ft	0	336 ft²	----	0	1	0
_____	6	Slab-On-Grade Edge Insulatio	Great Room	21 ft	0	404 ft²	----	0	1	0
_____	7	Slab-On-Grade Edge Insulatio	Bedroom 2	28.5 ft	0	201.5 ft²	----	0	1	0

INPUT SUMMARY CHECKLIST REPORT

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
✓	8	Slab-On-Grade Edge Insulatio	Bath	6 ft	0	54 ft²	----	0	1	0
✓	9	Slab-On-Grade Edge Insulatio	Bedroom 3	32.5 ft	0	195 ft²	----	0	1	0

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	Metal	1791 ft²	284 ft²	Unfinishe	N	0.6	No	0.4	No	0	18.43

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	300	1699 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	Master Bath	38	Blown	94 ft²	0.1	Wood
✓	2	Under Attic (Vented)	Master Bedroom	38	Blown	247 ft²	0.1	Wood
✓	3	Under Attic (Vented)	Closet	38	Blown	88 ft²	0.1	Wood
✓	4	Under Attic (Vented)	Laundry	38	Blown	80 ft²	0.1	Wood
✓	5	Under Attic (Vented)	Kitchen	38	Blown	336 ft²	0.1	Wood
✓	6	Under Attic (Vented)	Great Room	38	Blown	404 ft²	0.1	Wood
✓	7	Under Attic (Vented)	Bedroom 2	38	Blown	202 ft²	0.1	Wood
✓	8	Under Attic (Vented)	Bath	38	Blown	54 ft²	0.1	Wood
✓	9	Under Attic (Vented)	Bedroom 3	38	Blown	195 ft²	0.1	Wood

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	Master Bath	13	6	6	9	0	58.5 ft²	0	0.25	0.8	0
✓	2	W	Exterior	Frame - Wood	Master Bath	13	14	6	9	0	130.5 ft²	0	0.25	0.8	0
✓	3	N	Exterior	Frame - Wood	Master Bedro	13	17	0	9	0	153.0 ft²	0	0.25	0.8	0
✓	4	W	Exterior	Frame - Wood	Closet	13	11	0	9	0	99.0 ft²	0	0.25	0.8	0
✓	5	S	Master B	Interior Frame - Wood	Closet	13	8	0	9	0	72.0 ft²	0	0.25	0.8	0
✓	6	E	Master B	Interior Frame - Wood	Closet	13	3	0	9	0	27.0 ft²	0	0.25	0.8	0
✓	7	S	Master B	Interior Frame - Wood	Laundry	13	10	0	9	0	90.0 ft²	0	0.25	0.8	0
✓	8	N	Exterior	Frame - Wood	Kitchen	13	21	0	12	0	252.0 ft²	0	0.25	0.8	0
✓	9	S	Exterior	Frame - Wood	Great Room	13	21	0	12	0	252.0 ft²	0	0.25	0.8	0
✓	10	S	Master B	Interior Frame - Wood	Great Room	13	5	6	12	0	66.0 ft²	0	0.25	0.8	0
✓	11	W	Master B	Interior Frame - Wood	Great Room	13	9	6	12	0	114.0 ft²	0	0.25	0.8	0
✓	12	N	Exterior	Frame - Wood	Bedroom 2	13	13	0	9	0	117.0 ft²	0	0.25	0.8	0
✓	13	E	Exterior	Frame - Wood	Bedroom 2	13	15	6	9	0	139.5 ft²	0	0.25	0.8	0
✓	14	E	Exterior	Frame - Wood	Bath	13	6	0	9	0	54.0 ft²	0	0.25	0.8	0
✓	15	E	Exterior	Frame - Wood	Bedroom 3	13	15	0	9	0	135.0 ft²	0	0.25	0.8	0

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%
✓	16	S	Exterior	Frame - Wood	Bedroom 3	13	13	0	9	0	117.0 ft²	0	0.25	0.8	0
✓	17	W	Exterior	Frame - Wood	Bedroom 3	13	4	6	9	0	40.5 ft²	0	0.25	0.8	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
✓	1	N	Insulated	Kitchen	None	.4	6		7		42 ft²
✓	2	S	Insulated	Great Room	None	.4	3		7		21 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	W	2	Vinyl	Double (Clear)	Yes	0.4	0.2	N	10.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	2	N	3	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	3	N	8	Vinyl	Double (Clear)	Yes	0.4	0.2	N	15.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	4	S	9	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	5	N	12	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	6	E	14	Vinyl	Double (Clear)	Yes	0.4	0.2	N	15.0 ft²	1 ft 0 in	1 ft 0 in	None	None
✓	7	S	16	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	382.8 ft²	382.8 ft²	64 ft	9 ft	13

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000458	2044	112.14	210.53	.1518	7

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
✓	1	Electric Heat Pump/	Split	Singl	HSPF:8.2	33 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	36 kBtu/hr	1080 cfm	0.7	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	None	Garage	0.96	40 gal	60 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 Location	R-Value	Area	Return Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	120 ft²	Attic	120 ft²	Proposed Qn	Garage	— cfm	17.0 cfm	0.01	0.50	1	1

TEMPERATURES

Programable Thermostat: N

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

Thermostat Schedule: HERS 2006 Reference

Hours

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	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	80	80	78	78	78	78	78	78	78	78
Heating (WD)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Master Bath
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Master Bedroom
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Closet
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Laundry
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Kitchen
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Great Room
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bedroom 2
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bath
Default(8 lbs/sq.ft.)	ft²	ft	0.3	Bedroom 3