

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

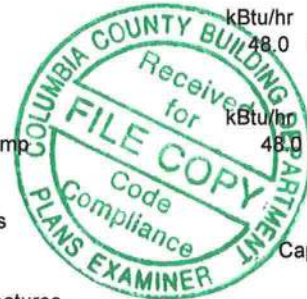
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: David Infinger- Model 1
 Street: David Infinger- Model 1
 City, State, Zip: Fort White , FL ,
 Owner: David Infinger- Model 1
 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	Single-family
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 (ft ²)	1846
Conditioned floor area below grade (ft ²)	0
7. Windows(221.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.40 221.00 ft ²
SHGC:	SHGC=0.20
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	1.000 ft.
Area Weighted Average SHGC:	0.200
8. Floor Types (1843.2 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 1843.20 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types (1671.5 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 1671.50 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (1846.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 1846.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Great Room	6 168
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	48.0 SEER:14.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	48.0 HSPF:8.20
14. Hot water systems	Cap: 40 gallons
a. Electric	EF: 0.960
b. Conservation features	None
15. Credits	None



Glass/Floor Area: 0.120

Total Proposed Modified Loads: 48.52

Total Baseline Loads: 53.02

PASS

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

PREPARED BY: Trish SDATE: 2-27-2020

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: _____

- 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* = 92****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location Attic/Attic
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>48.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>1846</u>	a) Split system SEER <u>14.0</u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.400</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.200</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>221.0</u>	e) Other <u> </u>
8. Skylights		14. Heating system: Capacity <u>48.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u>8.2</u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u> </u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.96</u>
1. Wood frame (Insulation R-value)	10A1. <u>19.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u> </u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>No</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: David Infinger- Model 1 City/FL Zip: Fort White, FL

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	David Infinger- Model 1	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	1846	Lot #	
Owner Name:	David Infinger- Model 1	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Spann's Heating and Air INC.	Rotate Angle:	0	Street:	David Infinger- Model 1
Permit Office:		Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	Fort White , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

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

BLOCKS

Number	Name	Area	Volume
1	Entire House	1846	16539

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Bedroom 2	203	1624	No	0	1	1	No	Yes	Yes
2	Toilet	33	264	No	0		1	No	Yes	Yes
3	Bath 2	28	220	No	0		1	No	Yes	Yes
4	Bedroom 3	160	1280	No	0	1	1	No	Yes	Yes
5	Bedroom 4	173	1384	No	0	1	1	No	Yes	Yes
6	Kitchen	189	1890	No	0		1	No	Yes	Yes
7	Dining	270	2700	No	0		1	No	Yes	Yes
8	Great Room	336	3360	No	0		1	No	Yes	Yes
9	Laundry	72	576	No	0		1	No	Yes	Yes
10	Master Bedroom	181	1629	No	0	1	1	No	Yes	Yes
11	His Closet	28	224	No	0		1	No	Yes	Yes
12	Her Closet	25	200	No	0		1	No	Yes	Yes
13	Master Bath	125	1000	No	0		1	No	Yes	Yes
14	Master Toilet	23	182	No	0		1	No	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Bedroom 2	28.5 ft		202.5 ft²	----	0	1	0
_____	2	Slab-On-Grade Edge Insulatio	Toilet	5.5 ft		33 ft²	----	0	1	0
_____	3	Slab-On-Grade Edge Insulatio	Bath 2	1 ft		27.5 ft²	----	0	1	0
_____	4	Slab-On-Grade Edge Insulatio	Bedroom 3	14.5 ft		159.5 ft²	----	0	1	0

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	5	Slab-On-Grade Edge Insulatio	Bedroom 4	38 ft		172.5 ft ²	----	0	1	0
_____	6	Slab-On-Grade Edge Insulatio	Kitchen	9 ft		189 ft ²	----	0	1	0
_____	7	Slab-On-Grade Edge Insulatio	Dining	15 ft		269.5 ft ²	----	0	1	0
_____	8	Slab-On-Grade Edge Insulatio	Great Room	20.5 ft		336.3 ft ²	----	0	1	0
_____	9	Slab-On-Grade Edge Insulatio	Laundry	17 ft		72 ft ²	----	0	1	0
_____	10	Slab-On-Grade Edge Insulatio	Master Bedroom	14.5 ft		181.3 ft ²	----	0	1	0
_____	11	Slab-On-Grade Edge Insulatio	His Closet	5.5 ft		27.5 ft ²	----	0	1	0
_____	12	Slab-On-Grade Edge Insulatio	Her Closet	1 ft		24.8 ft ²	----	0	1	0
_____	13	Slab-On-Grade Edge Insulatio	Master Bath	18 ft		125 ft ²	----	0	1	0
_____	14	Slab-On-Grade Edge Insulatio	Master Toilet	10 ft		22.8 ft ²	----	0	1	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or Shed	Composition shingles	1942 ft ²	306 ft ²	Light	0.6	No	0.9	No	0	18.4

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	1843 ft ²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Bedroom 2	30	Blown	203 ft ²	0.1	Wood
_____	2	Under Attic (Vented)	Toilet	30	Blown	33 ft ²	0.1	Wood
_____	3	Under Attic (Vented)	Bath 2	30	Blown	28 ft ²	0.1	Wood
_____	4	Under Attic (Vented)	Bedroom 3	30	Blown	160 ft ²	0.1	Wood
_____	5	Under Attic (Vented)	Bedroom 4	30	Blown	173 ft ²	0.1	Wood
_____	6	Under Attic (Vented)	Kitchen	30	Blown	189 ft ²	0.1	Wood
_____	7	Under Attic (Vented)	Dining	30	Blown	270 ft ²	0.1	Wood
_____	8	Under Attic (Vented)	Great Room	30	Blown	336 ft ²	0.1	Wood
_____	9	Under Attic (Vented)	Laundry	30	Blown	72 ft ²	0.1	Wood
_____	10	Under Attic (Vented)	Master Bedroom	30	Blown	181 ft ²	0.1	Wood
_____	11	Under Attic (Vented)	His Closet	30	Blown	28 ft ²	0.1	Wood
_____	12	Under Attic (Vented)	Her Closet	30	Blown	25 ft ²	0.1	Wood
_____	13	Under Attic (Vented)	Master Bath	30	Blown	125 ft ²	0.1	Wood
_____	14	Under Attic (Vented)	Master Toilet	30	Blown	23 ft ²	0.1	Wood

da ve!! da ve!! da ve!! in! sga! Joe! Lk!

✓ #	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	Bedroom 2	19	15	0	8	0	120.0 ft²	0	0.25	0.8	0
___ 2	W	Exterior	Frame - Wood	Bedroom 2	19	13	6	8	0	108.0 ft²	0	0.25	0.8	0
___ 3	W	Exterior	Frame - Wood	Toilet	19	5	6	8	0	44.0 ft²	0	0.25	0.8	0
___ 4	W	Exterior	Frame - Wood	Bedroom 3	19	14	6	8	0	116.0 ft²	0	0.25	0.8	0
___ 5	E	Exterior	Frame - Wood	Bedroom 4	19	3	8	25	0	92.0 ft²	0	0.25	0.8	0
___ 6	S	Exterior	Frame - Wood	Bedroom 4	19	15	0	8	0	120.0 ft²	0	0.25	0.8	0
___ 7	W	Exterior	Frame - Wood	Bedroom 4	19	11	6	8	0	92.0 ft²	0	0.25	0.8	0
___ 8	N	Exterior	Frame - Wood	Kitchen	19	9	0	10	0	90.0 ft²	0	0.25	0.8	0
___ 9	N	Exterior	Frame - Wood	Dining	19	15	0	10	0	150.0 ft²	0	0.25	0.8	0
___ 10	S	Exterior	Frame - Wood	Great Room	19	20	6	10	0	205.0 ft²	0	0.25	0.8	0
___ 11	N	Exterior	Frame - Wood	Laundry	19	9	0	8	0	72.0 ft²	0	0.25	0.8	0
___ 12	E	Exterior	Frame - Wood	Laundry	19	2	7	25	0	64.0 ft²	0	0.25	0.8	0
___ 13	E	Exterior	Frame - Wood	Master Bedro	19	5	3	25	0	130.5 ft²	0	0.25	0.8	0
___ 14	E	Exterior	Frame - Wood	His Closet	19	1	9	25	0	44.0 ft²	0	0.25	0.8	0
___ 15	E	Exterior	Frame - Wood	Master Bath	19	3	4	25	0	84.0 ft²	0	0.25	0.8	0
___ 16	S	Exterior	Frame - Wood	Master Bath	19	6	0	8	0	48.0 ft²	0	0.25	0.8	0
___ 17	W	Exterior	Frame - Wood	Master Bath	19	1	6	8	0	12.0 ft²	0	0.25	0.8	0
___ 18	S	Exterior	Frame - Wood	Master Toilet	19	6	6	8	0	52.0 ft²	0	0.25	0.8	0
___ 19	W	Exterior	Frame - Wood	Master Toilet	19	3	6	8	0	28.0 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	Dining	None	.4	6	7	42 ft²
_____	2	S	Insulated	Great Room	None	.4	3	7	21 ft²
_____	3	E	Insulated	Laundry	None	.4	3	7	21 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Wall				NFRC	U-Factor	SHGC	Imp	Area	Overhang			Screening
		Ornt	ID	Frame	Panes						Depth	Separation	Int Shade	
_____	1	N	1	Vinyl	Double (Clear)	Yes	0.4	0.2	N	15.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	2	W	3	Vinyl	Double (Clear)	Yes	0.4	0.2	N	4.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	3	W	4	Vinyl	Double (Clear)	Yes	0.4	0.2	N	15.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	4	S	6	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	5	S	10	Vinyl	Double (Clear)	Yes	0.4	0.2	N	30.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	6	N	11	Vinyl	Double (Clear)	Yes	0.4	0.2	N	9.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	7	E	13	Vinyl	Double (Clear)	Yes	0.4	0.2	N	15.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	8	E	13	Vinyl	Double (Clear)	Yes	0.4	0.2	N	75.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	9	E	15	Vinyl	Double (Clear)	Yes	0.4	0.2	N	16.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	10	S	16	Vinyl	Double (Clear)	Yes	0.4	0.2	N	6.0 ft²	1 ft 0 in	1 ft 0 in	None	None
_____	11	S	18	Vinyl	Double (Clear)	Yes	0.4	0.2	N	6.0 ft²	1 ft 0 in	1 ft 0 in	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000398	1928.8	105.89	199.14	.3149	7

HEATING SYSTEM

#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
1	Electric Heat Pump/	Split	HSPF:8.2	48 kBtu/hr	1	sys#1

COOLING SYSTEM

#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit/	Split	SEER: 14	48 kBtu/hr	1440 cfm	0.7	1	sys#1

HOT WATER SYSTEM

#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric	None	Laundry	0.96	40 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			ft ²		

DUCTS

#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
1	Attic	6	168 ft ²	Attic	168 ft ²	Proposed Qn	Great Roo	--- cfm	18.5 cfm	0.01	0.50	1 1

TEMPERATURES

Programable Thermostat: N

Ceiling Fans:

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

INPUT SUMMARY CHECKLIST REPORT

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 ft ²	0 ft	0.3	Bedroom 2
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Toilet
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Bath 2
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Bedroom 3
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Bedroom 4
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Kitchen
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Dining
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Great Room
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Laundry
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Master Bedroom
Default(8 lbs/sq.ft.	ft ²	ft	0.3	His Closet
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Her Closet
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Master Bath
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Master Toilet

Name:

Signature: _____

Rating Compant:

Date: _____