FORM R405-2017

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Paul Wiser- Frowick Street: Paul Wiser- Frowick City, State, Zip: Odessa , FL , Owner: Paul Wiser- Frowick Design Location: FL, Gainesville		Builder Name: Spann's Heating and A Permit Office: Permit Number: Jurisdiction: County: Pasco (Florida Climate	
a. Raised Floor b. N/A	0.200 Insulation Area R=24.0 1350.10 ft² R= ft² R= ft²	12. Cooling systems a. Central Unit  13. Heating systems a. Electric Heat Pump  14. Hot water systems a. Electric b. Conservation features None  15. Credits	kBtu/hr Efficiency 30.0 SEER:14.00
Glass/Floor Area: 0.124	Total Proposed Modified Total Baseline		PASS
I hereby certify that the plans and specithis calculation are in compliance with the Code.  PREPARED BY: DATE:	he Florida Energy	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.	GREATS SHIP STATES OF THE STAT

- 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).

DATE:

BUILDING OFFICIAL:

- 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 0.020 Qn for whole house.

with the Florida Energy Code

OWNER/AGENT

DATE:

**INPUT SUMMARY CHECKLIST REPORT** 

	03-2017				DJECT					
Title: Building Owner N # of Unit Builder N Permit O Jurisdicti Family T New/Exis Commer	lame: Paul Wiser- Frow s: 1 Name: Spann's Heating office: ion: type: Single-family sting: New (From Plans	vick and Air INC.	Cond Total Wors Rotat Cross	ooms: litioned Area Stories: It Case: lee Angle: Is Ventilation It House Fai	1 No 0 : No		Address Lot # Block/Sul PlatBook Street: County: City, State	odivision: : P p e, Zip: C	aul Wiser- asco dessa , L ,	
				CLI	MATE					
$\checkmark$	Design Location	TMY Site	- 5'-01		Design Temp 97.5 % 2.5 %		Summer	Heating Degree Day	s Moistur	
	FL, Gainesville	FL_GAINESVILLE	:_REGI	DI.	32 92	70	75	1305.5	51	Medium
Numbe	er Name	Area	Vol	ume	OCKS					
1	Entire House	1352		5860					*	
	Entire Fledde	1002			ACES			1000		
Numbe	er Name	Area	Volume			Bedrooms	Infil II	) Finished	d Cool	ed Heate
1	Bedroom 2	150	1350	No	2	1	1	No	Yes	Yes
2	Bath	50	450	No	0		1	No	Yes	Yes
3	Master Bedroom	156	1404	No	2	1	1	No	Yes	Yes
4	Kitchen	442	5746	No	0		1	No	Yes	Yes
5	Living Room	481	6253	No	0		1	No	Yes	Yes
6	Closet	43	387	No	0		1	No	Yes	Yes
7	1/2 Bath	30	270	No	0		1	No	Yes	Yes
				FLO	oors					
$\vee$	# Floor Type	Space		Perimeter I	Perimeter R-Value	e Area	Joist R-\	/alue	Tile Wo	od Carpet
	1 Raised Floor	Bedr	oom 2			150 ft²	24		0 1	0
	_ 2 Raised Floor E		ath			49.5 ft <sup>2</sup>	24		0 1	0
	3 Raised Floor Master Be		Bedroom			156.3 ft <sup>2</sup>	24		0 1	0
-	4 Raised Floor	Kite	chen			441.5 ft²	24		0 1	0
	5 Raised Floor	Living	Room			480.5 ft²	24		0 1	0
	_ 6 Raised Floor Close					42.5 ft²	24		0 1	0
	7 Raised Floor 1/2 B					29.8 ft <sup>2</sup>	24		0 1	0

						RO	OF								
<b>/</b>	#	Туре	1	Materials .	Roof Area	Gal Are		Roc		Sol Abs			t Emitt Tested	Deck Insul.	Pitch (deg
_	1	Gable or S	Shed	Metal	1423 ft	2 224	ft² U	Infini	she	0.6	S No	0.4	No	0	18.4
						ATT	ГІС								
$\checkmark$	#	Туре		Ventilation		Vent Ra	atio (1 in)	)	A	Area	RBS	IRCC			
	1	Full attic	:	Vented		3	00	1350 ft²		N	N				
						CEIL	ING								
$\sqrt{}$	#	Ceiling 7	Гуре	S	pace	R-Val	ue	Ins	Туре	9	Area	Framing F	rac Tr	uss Type	)
_	1	Under A	ttic (Vented)	Bed	room 2	38		Blown 150			150 ft <sup>2</sup>	0.1		Wood	
	2	Under Attic (Vented) Bar			3ath	38		Blown 50 ft <sup>2</sup>				0.1 Wood		Wood	
_	3	Under Attic (Vented) Master Bed			Bedroor	m 38		Blown 156 ft²				0.1	0.1 Wood		
	4	Under Attic (Vented)			tchen	38	38 Blown			442 ft <sup>2</sup>	0.1		Wood		
	5	Under A	Livin	g Room	38		Blown			481 ft <sup>2</sup>	0.1	Wood			
	6	Under Attic (Vented)			loset	38		Blo	own		43 ft <sup>2</sup>	0.1	0.1 Wood		
_	7	Under A	ttic (Vented)	1/2	2 Bath	38		Blo	own		30 ft²	0.1		Wood	
						WAL	LS								
V #	Ornt	Adjacen To	Wall Type			Cavity R-Value		ln	_Ft_	eight In	Area	Sheathing R-Value	Fraction_	Solar Absor	Belov Grade
- ¹	N	Exterior	Log - 8 inch		room 2	0.01	12	6	9	0	112.5 ft²	0	0	8.0	(
- <sup>2</sup>	W	Exterior	Log - 8 inch		room 2	0.01	12	0	9	0	108.0 ft²	0	0	0.8	(
_ 3	W S	Exterior Exterior	Log - 8 inch		Bath er Bedro	0.01	5 12	6	9	0	49.5 ft²	0	0	0.8	(
- <del>1</del>	W	Exterior	Log - 8 inch Log - 8 inch		er Bedro		12	6	9	0	112.5 ft² 112.5 ft²	0	0	0.8	(
_ 6	N	Exterior	Log - 8 inch		tchen	0.01	32	6	13	0	422.5 ft <sup>2</sup>	0	0	0.8	
_ 0 _ 7	E	Exterior	Log - 8 inch		tchen	0.01	11	0	13	0	143.0 ft <sup>2</sup>	0	0	0.8	,
- ' 8	E	Exterior	Log - 8 inch		g Room	0.01	15	6	13	0	201.5 ft <sup>2</sup>	0	0	0.8	Ì
_ 9	s	Exterior	Log - 8 inch		g Room	0.01	32	6	13	0	422.5 ft <sup>2</sup>	0	0	0.8	,
_10	E	Exterior	Log - 8 inch		Bath	0.01	3	6	9	0	31.5 ft²	0	0	0.8	
						DOO	RS								
/	#	Ornt	Door Ty	rpe Spa	ice		S	torm	s	U-Va	ue V Ft	Vidth In	Height Ft I	n A	Area

1

2

E

S

Insulated

Insulated

Kitchen

Living Room

None

None

21 ft<sup>2</sup>

21 ft<sup>2</sup>

3

3

.4

.4

7

7

INPUT SUMMARY CHECKLIST REPORT

						Orientation		DOWS	occd	oriontation						
			Wall			Orientation si	nown is the e	nterea, Prop	osea	orientation.	Ove	rhang				_
$\checkmark$	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separatio	n In	t Shade	Scre	eenir
	. 1	W	2	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in		None	N	lone
	. 2	W	3	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	9.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	lone
	. 3	S	4	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	30.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	one
	. 4	N	6	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	9.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	one
	. 5	N	6	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	30.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	one
	6	E	7	Vinyl	Double (Clea	ar) Yes	0.4	0.2	N	15.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	one
	. 7	S	9	Vinyl	Double (Clea	ar) Yes	0.4	0.2	Ν	60.0 ft <sup>2</sup>	2 ft 0 in	1 ft 0 in		None	N	one
							INFILT	RATION								
#	Scope		. 1	Method		SLA	CFM 50	ELA	Ec	ηLA	ACH	A	CH 50			
1 Wh	holehous	е	Prop	osed AC	H(50)	.000522	1850.3	101.58	191	1.04	.4473		7			
							HEATING	SYSTE	/1							
$\sqrt{}$	/ # System Type			Subtype Efficiency Capacity Block Due										ucts		
	1 Electric Heat Pump/ Split				HSPF:8.2 30 kBtu/hr								sy	/s#1		
							COOLING	S SYSTE	VI							
$\vee$	#	Sys	tem 1	Гуре		Subtype		Effici	ency	Capacity	A	ir Flow	SHR	Block	D	ucts
	1	Cer	ntral U	Jnit/		Split	SEER: 14 30 kBtu/hr 900 cfm 0.7							1	sy	rs#1
						1	HOT WAT	ER SYSTI	EM							
$\vee$	#	S	ystem	туре	SubType	Location	EF	Сар		Use	SetPr	nt	Co	onservatio	n	
	1	E	lectric	9	None	Kitchen	0.96	40 gal		50 gal	120 de	g		None		
						SOL	AR HOT W	ATER SY	STE	M						
	FSEC Cert # Company Name											rage ume	FEF			
	Non	е	None	)								ft²				
				2160 <u> </u>			DU	стѕ								
$\checkmark$	#	1	.ocatio	Suppl	y /alue Area	Retu	rn Area	Leakage Ty	ne.	Air Handle	CFM 2		5 QN	RLF	HV.	AC #
			Attic		6 120 ft <sup>2</sup>	Attic	120 ft²	Proposed (		Attic	cfr			0.08090	1	1
			Attio	0.	U IZUIL	Auto	12011	1 Toposed (	act I	Attic	CII	11 27.00	111 0.0	0.50		

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

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						I EIVI	PERATU	RES						
Programable Thermostat: N					C	eiling Fan	s:							
Cooling Heating Venting	X Jan X Jan Jan	X Feb Feb	[ ] Mar [X] Mar [X] Mar	Apr Apr X Apr		May May May	[X] Jun   Jun   Jun	[X] Jul Jul Jul	[X] Aug   Aug   Aug	[X] S	ep ep ep	Oct Oct X Oct	[ ] Nov [X] Nov [X] Nov	X Dec Dec Dec
Thermosta	t Schedule:	HERS 200	6 Reference	9				Н	ours					
Schedule 7	Гуре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	/D)	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 (W	/EH)	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 (W	/D)	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 (W	/EH)	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
							MASS							
Ма	ss Type			Area			Thickness		Furniture Fra	ction		Space		
De	fault(8 lbs/so	ą.ft.		0 ft²			0 ft		0.3			Bedroom		
Default(8 lbs/sq.ft.				ft²			ft		0.3			Bath		
Default(8 lbs/sq.ft.			ft²			ft		0.3		Master Bedroon		oom		
Default(8 lbs/sq.ft.			ft²			ft		0.3			Kitchen			
Default(8 lbs/sq.ft.			ft²			ft		0.3			Living Room			
Default(8 lbs/sq.ft.			ft²			ft		0.3			Closet			
Default(8 lbs/sq.ft.			ft²			ft		0.3			1/2 Bath			

Name:	Signature:	
Rating Compant:	Date:	

## **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

## **ESTIMATED ENERGY PERFORMANCE INDEX\* = 86**

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0
3. No. of units (if multiple-family)	31	c) AHU location Attic/Attic
4. Number of bedrooms	42	13. Cooling system: Capacity 30.0
		a) Split system SEER 14.0
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	61352	d) Room unit/PTAC EER e) Other
<ul><li>7. Windows, type and area</li><li>a) U-factor:(weighted average)</li><li>b) Solar Heat Gain Coefficient (SHGC)</li><li>c) Area</li></ul>	7a. 0.400 7b. 0.200 7c. 168.0	14. Heating system: Capacity 30.0 a) Split system heat pump HSPF 8.2 b) Single package heat pump HSPF
8. Skylights	0- NA	c) Electric resistance COP
<ul><li>a) U-factor:(weighted average)</li><li>b) Solar Heat Gain Coefficient (SHGC)</li></ul>	8aNA_ 8bNA_	d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other
9. Floor type, insulation level:	_	,
a) Slab-on-grade (R-value)	9a	45 M/-4
b) Wood, raised (R-value)	9b. <u>24.0</u>	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.96 b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG EF
A. Exterior:		d) Solar system with tank EF
<ol> <li>Wood frame (Insulation R-value)</li> </ol>	10A1	e) Dedicated heat pump with tank EF
<ol><li>Masonry (Insulation R-value)</li></ol>	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
Wood frame (Insulation R-value)	10B1	
Masonry (Insulation R-value)	10B2	* D.C. Trianguesta
		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. 38.0	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11dNo	e) Multizone heating credit
		f) Programmable thermostat No
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the F saving features which will be installed (or excedisplay card will be completed based on install	eded) in this home before	re final inspection. Otherwise, a new EPL
	-	/ /
Builder Signature: Faul Who	<u> </u>	Date: 2/22/21
		-1.11
Address of New Home: Paul Wiser- Frowick		City/FL Zip: Odessa, FL Fort White