FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: CP-CC-FWS-6 RV Street: SW Round House Circle City, State, Zip: Fort White , FL , 32038 Owner: Chemerys Construction Design Location: FL, Gainesville		Builder Name: Chemerys Construction Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate	e Zone 2)
 New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Windows(195.0 sqft.) Description U-Factor: Dbl, U=0.34 SHGC: SHGC=0.23 U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: Floor Types (1440.0 sqft.) Ins Slab-On-Grade Edge Insulation R=0 N/A N/A N/A N/A N/A N/A N/A 	ft²	9. Wall Types (1924.1 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (1440.0 sqft.) a. Roof Deck (Unvented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 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	Insulation Area R=19.0 1600.50 ft² R=19.0 323.64 ft² R= ft² R= ft² Insulation Area R=20.0 1440.00 ft² R= ft² R= ft² R= ft² R= ft² AR ft² C 288.02 kBtu/hr Efficiency 22.2 SEER:14.00 kBtu/hr Efficiency 22.2 HSPF:8.20 Cap: 50 gallons EF: 0.950
	Total Proposed Modified		
Glass/Floor Area: 0.135	Total Baseline l		PASS
I hereby certify that the plans and specificathis calculation are in compliance with the Code. PREPARED BY: DATE: I hereby certify that this building, as design with the Florida Energy Code.	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 GR

- 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).

BUILDING OFFICIAL:

OWNER/AGENT:_

DATE:

			I	PROJECT								
Title: Building Type Owner Name: # of Units: Builder Name Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Chemerys Cor 1 : Chemerys Cor Single-family	nstruction	Bedrooms: Conditioned A Total Stories: Worst Case: Rotate Angle Cross Ventila Whole House	1 No : 0 ition:			Lot # Block PlatB Stree Coun	:/Subdivis look: lt:	sion: S C D: F	W Round I columbia ort White , L , 3203	House (Circl
				CLIMATE								
V De	esign Location	TMY Site		Desig 97.5 %	n Temp 6 2.5 %		esign Tem er Summ		eating ree Day		Daily e Ra	Temp nge
FL	., Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1;	305.5	51	Me	edium
BLOCKS												
Number	Name	Area	Volume									
1	Block1	1440.14	12992.5									
SPACES												
Number	Name	Area	Volume Kito	chen Oc	cupants	Bedroo	ms Ir	nfil ID	Finishe	d Coo	led	Heated
1	Whole House	1440.14	12992.5 Y	'es	4	3	1		Yes	Yes		Yes
				FLOORS								
V #	Floor Type	Space	Perime	ter R-	Value	Area				Tile Wo	od Ca	rpet
1 S	lab-On-Grade Edge	Insulatio Whole	House 214 ft		0	1440 ft ²				0.5) (.5
				ROOF								
#	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Hip	Composition shing	les 1610 ft²	O ft²	Medium	N	0.85	No	0.9	No	20	26.6
ATTIC												
√ #	Type	Ventil	ation V	ent Ratio (1	in)	Area	RBS	IRO	cc			
1	Full attic	Unve		0		1440 ft ²	N	N				
CEILING												
V #	Ceiling Type		Space	R-Value	Ins Ty	rpe	Area	Fram	ning Fra	c Truss	Туре	
1	Under Attic (Ur	nvented)	Whole House	0	Blowr	ı	1440 ft²		0.11	Wo	od	

INPUT SUMMARY CHECKLIST REPORT

WALLS																
V #	Ornt	Adjace To	ent Wall	Type	Space	Cavity R-Value	Widt Ft	:h In	H Ft	eight In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%	
1	N	Exterior		ne - Wood	Whole Hous		13.5	0	9	0	121.5 ft ²	0	0.23	0.8	0	
2	Е	Exterior	Fran	ne - Wood	Whole Hous	e 19	14	0	9	0	126.0 ft ²	0	0.23	0.8	0	
3	Ε	Exterior	Fran	ne - Wood	Whole Hous	e 19	5	0	9	0	45.0 ft ²	0	0.23	0.8	0	
4	Ε	Exterior	Fran	ne - Wood	Whole Hous	e 19	7	0	9	0	63.0 ft ²	0	0.23	8.0	0	
5	S	Garage	Fran	ne - Wood	Whole Hous	e 19	10	0	8.99	0	89.9 ft ²	0	0.23	8.0	0	
6	S	Exterior	Fran	ne - Wood	Whole Hous	e 19	16	0	9	0	144.0 ft ²	0	0.23	0.8	0	
7	W	Exterior	Fran	ne - Wood	Whole Hous	e 19	28	0	9	0	252.0 ft ²	0	0.23	8.0	0	
8	Ε	Garage	Fran	ne - Wood	Whole Hous	e 19	20	0	8.99	0	179.8 ft ²	0	0.23	8.0	0	
9	S	Garage	Fran	ne - Wood	Whole Hous	e 19	6	0	8.99	0	53.9 ft ²	0	0.23	0.8	0	
10	Е	Exterior	Fran	ne - Wood	Whole Hous	e 19	11.33	0	9	0	102.0 ft ²	0	0.23	0.8	0	
11	S	Exterior	Fran	ne - Wood	Whole Hous	e 19	16.33	0	9	0	147.0 ft ²	0	0.23	8.0	0	
12	Ν	Exterior	Fran	ne - Wood	Whole Hous	e 19	6.67	0	9	0	60.0 ft ²	0	0.23	8.0	0	
13	S	Exterior	Fran	ne - Wood	Whole Hous	e 19	16	0	9	0	144.0 ft ²	0	0.23	0.8	0	
14	W	Exterior	Fran	ne - Wood	Whole Hous	e 19	5	0	9	0	45.0 ft ²	0	0.23	8.0	0	
15	Ν	Exterior	Fran	ne - Wood	Whole Hous	e 19	12	0	9	0	108.0 ft ²	0	0.23	8.0	0	
16	W	Exterior	Fran	ne - Wood	Whole Hous	e 19	13.5	0	9	0	121.5 ft ²	0	0.23	8.0	0	
17	E	Exterior	Frar	me - Wood	Whole Hous	e 19	13.5	0	9	0	121.5 ft ²	0	0.23	0.8	0	
						DO	ORS									
\checkmark	#	Ornt	t	Door Type	Space			Storm	ns	U-Val	ue Fi	Width t In	Height Ft	In	Area	
	1	E		Insulated	Whole House			None	Э	.29	3	i	8	:	24 ft²	
				O	rientation show		DOWS ntered, P	ropos	ed ori	entation	n.					
/		Wall									Ove	rhang				
V	# (Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	In	np	Area	Depth	Separation	Int Sha	de :	Screening	
	1	N 1	Vinyl	Low-E Double	Yes	0.34	0.23	1	N 4	48.0 ft ²	2 ft 0 in	2 ft 0 in	Drapes/b	linds	None	
	2	E 2	Vinyl	Low-E Double	Yes	0.34	0.23	1	N (30.0 ft ²	2 ft 0 in	2 ft 0 in	Drapes/b	linds	Exterior 5	
	3	S 6	Vinyl	Low-E Double	Yes	0.34	0.23	1	١ :	30.0 ft ²	6 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
	4	W 7	Vinyl	Low-E Double	Yes	0.34	0.23	1	N (30.0 ft ²	2 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
	5	E 10	Vinyl	Low-E Double	Yes	0.34	0.23	1	١.	12.0 ft ²	1 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
	6	S 13	Vinyl	Low-E Double	Yes	0.34	0.23	1	ν.	15.0 ft ²	2 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
	7	N 15	Vinyl	Low-E Double	Yes	0.34	0.23	1	ν.	15.0 ft ²	2 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
	8	W 16	Vinyl	Low-E Double	Yes	0.34	0.23	ا	ν.	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/b	linds	Exterior 5	
GARAGE																
$\overline{}$	#	Floo	r Area	Ceilin	ıg Area	Exposed Wall Perimeter				Avg. W	all Height	Expos	Exposed Wall Insulation			
	1	39	3 ft²	39	3 ft²		10 ft			9) ft		0			

INPUT SUMMARY CHECKLIST REPORT

	INFILTRATION													
#	Scope	Method		SLA	CFM 50	ELA	Ed	ηLA	ACH	ACH	1 50			
1 \	Wholehouse	Proposed A	CH(50)	.000401	1515.8	83.21	15	6.5	.1584	7	,			
					HEATI	NG SYS	ГЕМ							
	#	System Type		Subtype	Spee	d	Efficiency	, C	Capacity			Block	Dι	ıcts
	1	Electric Heat Pu	mp/	None	Sing	I	HSPF:8.2	2 22.	2 kBtu/hr			1	sy	s#1
COOLING SYSTEM														
\bigvee	#	System Type		Subtype	Subty	/pe l	Efficiency	Capaci	ty Air	Flow S	HR	Block	Dι	ıcts
	1	Central Unit/		None	Sing	1 5	SEER: 14	22.2 kBt	u/hr 666	cfm 0	.77	1	sy	s#1
HOT WATER SYSTEM														
	#	System Type	SubType	Location	EF	Ca	р	Use	SetPnt		Co	nservatio	n	
	1	Electric	None	Garage	0.95	50 g	al	60 gal	120 deg			None		
				so	LAR HOT	WATER	SYSTE	EM						
\checkmark	FSEC Cert #		ame		System N	/lodel #	Co	ollector Mo		ollector Area	Stor Volu	-	FEF	
	None	None								ft²				
					[DUCTS								
	#	Supp Location R-	•	Re Location	eturn Area	Leakaç	је Туре	Air Hand	CFM 25 er TOT	CFM25 OUT	QN	RLF	HV/ Heat	AC # Cool
	_ 1	Attic	6 288.02	Attic	72.007	Default	_eakage	Garage	(Default)	(Default)			1	1
					TEMP	ERATU	RES							
Pro	gramable Th	ermostat: Y		C	eiling Fans:									
Coo Hea Vent	ling [] J ting [X] J ting [] J	an [X] Feb	[] Mar [X] Mar [X] Mar	Apr Apr [X] Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug	g [X] Se g [] Se g [] Se	p []C	oct Oct Oct	[] Nov [X] Nov [X] Nov	[x]	Dec Dec Dec

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

	INI OI COMMANI OILONEIOI IIEI OITI												
Thermostat Schedule:	HERS 200	6 Referenc	ce				Н	ours					
Schedule Type		1	2	3	4	5	6	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
				MEC	CHANICAL	_ VEN	TILATIC	N					
Туре	Su	pply CFM	Exha	aust CFM	Fan Watts	HRV	′ Heatin	g System		Run Tim	e Cool	ing Systen	า
Runtime Vent		35	j	0	0	0	1 - Electric	Heat Pum	р	%	1 - Cen	tral Unit	
MASS													
Mass Type			ıΑ	ea	Thi	ickness		Furniture F	raction	5	Space		
Default(8 lbs/sc	η.ft.		0	ft²		0 ft		0.3		WI	nole Hous	е	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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 a) Supply ducts R6.0
2. Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0 c) AHU location Garage
3. No. of units (if multiple-family)	31	o _j / ii io location danage
4. Number of bedrooms	43	13. Cooling system: Capacity 22.2 a) Split system SEER
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.)	61440	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.340 7b. 0.230 7c. 195.0	14. Heating system: Capacity 22.2 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8bNA	e) Gas furnace, LPG AFUE
		f) Other 8.20
9. Floor type, insulation level:	0.0	
a) Slab-on-grade (R-value)	9a0.0	45 Metaulastina austana
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF0.95 b) Gas fired, natural gas EF
10. Wall type and inculation:		
 Wall type and insulation: A. Exterior: 		c) Gas fired, LPG
Nood frame (Insulation R-value)	10A1. 19.0	e) Dedicated heat pump with tank EF
2. Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:	10A2	g) Other
1. Wood frame (Insulation R-value)	10B1. 19.0	g) Other
2. Masonry (Insulation R-value)	10B1	
2. Macony (modiation it value)	1002	16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a0.0	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	11d. <u>No</u>	e) Multizone heating credit
-,		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	
•		
I certify that this home has complied with the I saving features which will be installed (or exce display card will be completed based on installed).	eeded) in this home befor	re final inspection. Otherwise, a new EPL
Builder Signature:		Date:
Address of New Home: SW Bound House C	irolo	City/FL Zin: Fort White FL 32038

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:	Permit #:						
Jok	Information							
Bui	lder: Chemerys Construction Community:	Lot: NA						
Add	dress: SW Round House Circle							
City	r: Fort White State	e: FL Zip: 32038						
Aiı	Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method						
R44	changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clip PERFORMANCE or ERI METHOD-The building or dwelling unit states selected ACH(50) value, as shown on Form R405-2017 (Performance ACH(50) specified on Form R405-2017-Energy Category X 60 ÷ 6.510457E33 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department. D2.4.1.2 Testing. Testing shall be conducted in accordance with ANSI sting shall be conducted by either individuals as defined in Section 553	nall be tested and verified as having an air leakage rate of not exceeding or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50. Ic (Performance) or R406-2017 (ERI): Method for calculating building volume: Retrieved from architectural plans Code software calculated Prield measured and calculated (RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 1.993(5) or (7), Florida Statues.or individuals licensed as set forth in Section						
Dul 1. E cor 2. I me 3. I 4. E 5. I	489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i> . Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i> . During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open.							
Te	esting Company							
l ł	ompany Name: nereby verify that the above Air Leakage results are in accordance of the compliance of the complian							
S	ignature of Tester:	Date of Test:						
Р	rinted Name of Tester:							
Li	cense/Certification #:	Issuing Authority:						