FORM R405-2020

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: DWC lot 20 Street: 174 SW Caboose DR City, State, Zip: Fort White , FL , 32038 Owner: Design Location: FL, Gainesville	1	Builder Name: DWC Contracting LLC Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Clim	
a. Slab-On-Grade Edge Insulation     b. N/A     F	New (From Plans)  Detached  1  3  No  1843  0  Area 220.00 ft²  ft²  ft²  1.500 ft. 0.210 Area ft²  nsulation Area ft²  resulation Area ft²  sel= ft²  ft²	a. Central Office Received for	KBtu/hr Efficiency SEER:14.00  F SEER:14.00  F SEER:14.00  HSPF:8.50
Glass/Floor Area: 0.119	Total Proposed Modifier Total Baseline		PASS
I hereby certify that the plans and specifi this calculation are in compliance with the Code.  PREPARED BY: DATE:  I hereby certify that this building, as designed.	e 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.	OF THE STATE OF TH

- 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 5.00 ACH50 (R402.4.1.2).

DATE:

BUILDING OFFICIAL:

with the Florida Energy Code.

OWNER/AGENT:

DATE:

COD WE TR

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INPUT SUMMARY CHECKLIST REPORT

**PROJECT** 

					CIA:							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	DWC lot 20 User  1 DWC Contract  Detached New (From Pla	<b>3</b>	Bedrooms Conditione Total Stori Worst Cas Rotate And Cross Ven Whole Hou	ed Area: 18 es: 1 ee: N gle: 0 tilation:	843 o		Lot # Block PlatB Stree Coun	d/Subdivis dook: ht:	sion: 17 C p: Fe	74 SW Cat rolumbia ort White, L, 320	oose D	DR
				CLIMAT	E							
V Des	ign Location	TMY Site	,	Desi 97.5	ign Temp % 2.5 %		sign Temp Summ		eating ree Day:	Desigr s Moistur		Tem inge
FL,	Gainesville	FL_GAINESVILL	E_REGI	32	92	70	75	1	305.5	51	Me	ediun
				BLOCKS	S							
Number	Name	Area	Volume		W		-					
1	Block1	1843	16587	Ŕ								
				SPACES	3							
Number	Name	Area	Volume I	Kitchen O	ccupants	Bedroon	ns Ir	nfil ID	Finished	d Coo	led	Hea
1	Main	1843	16587	Yes	3	3	1		Yes	Yes		Yes
				FLOORS	S							
V #	Floor Type	Space	e Peri	meter R	-Value	Area				Tile Wo	od Ca	rpet
1 Sla	ab-On-Grade Edge	e Insulatio N	Main 227	ft	0	1843 ft²			1	0.22 0.2	22 0	.56
				ROOF								/ 15
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pit (de
1	Gable or shed	Composition shin	gles 2061 ft <sup>2</sup>	462 ft²	Medium	N	0.96	No	0.9	No	0	26
				ATTIC								
√ #	Туре	Vent	ilation	Vent Ratio (	1 in)	Area	RBS	IRO	oc -			
1	Full attic	-5,000.0	nted	300					N			
				CEILING	·				_			
V #	Ceiling Type		Space	R-Value	Ins Ty	pe A	Area	Fram	ning Fra	c Truss	Туре	
.y	Linday Ave at			20	Diama		0.40.69		0 44	\A/-		

30

Main

Blown

1843 ft<sup>2</sup>

0.11

Wood

1

Under Attic (Vented)

R405-2020	

#### INPUT SUMMARY CHECKLIST REPORT

							WA	LLS							
V #	Orn	•	Adjace	ent Wall	Туре	Space	Cavity R-Value	Wid	ith In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	
1	N		arage		me - Wood	Main	13	22		9	198.0 ft		0.11	0.25	
2	N		xterior	Fran	me - Wood	Main	13	32	6	9	292.5 ft	2	0.11	0.25	(
3	E	E	xterior	Frai	me - Wood	Main	13	63		9	567.0 ft	2	0.11	0.25	9
4	S	E	xterior	Frai	me - Wood	Main	13	54	6	9	490.5 ft	2	0.11	0.25	3
5	W	E	xterior	Fran	me - Wood	Main	13	55		9	495.0 ft	2	0.11	0.25	
							DO	ORS							
$\checkmark$	#		Orni		Door Type	Space			Storms	U-Va		Width Ft In	Heigh Ft	t In	Area
	1		N		Insulated	Main			None	.4	6	2 8	6	8 1	17.8 ft²
	2		Ν		Insulated	Main			None	.4	6	1	8		8 ft <sup>2</sup>
	3		N		Insulated	Main			None	.4	6	1	8		8 ft²
	4		Е		Insulated	Main			None	.4	6	1	8		8 ft <sup>2</sup>
	5		Е		Insulated	Main			None	.4	6	1	8		8 ft²
	6		W		Insulated	Main			None	.4	6	3	6	8	20 ft <sup>2</sup>
./	205		Wall		0	rientation sho					Ove	erhang	pinteralisezak		
V	#	Ornt	ID	Frame	Panes	NFRC	U-Factor		Imp			Separation	Int Sha		Screen
	1	N	2	Vinyl	Low-E Double	Yes	0.33	0.21	N	32.0 ft			Drapes/b		Non
	2	N	2	Vinyl	Low-E Double	Yes	0.33	0.21	N	25.0 ft			Drapes/b		None
	3	N	2	Vinyl	Low-E Double	Yes	0.33	0.21	N	3.0 ft <sup>2</sup>			Drapes/b		Non
1145	4	E	3	Vinyl	Low-E Double	Yes	0.33	0.21	N	12.0 ft			Drapes/b		Non
	5	E	3	Vinyl	Low-E Double	Yes	0.33	0.21	N	32.0 ft			Drapes/b		Non
	6	S	4	Vinyl	Low-E Double	Yes	0.33	0.21	N	45.0 ft			Drapes/b		None
	7	S	4	Vinyl	Low-E Double	Yes	0.33	0.21	N	50.0 ft		33 53	Drapes/b		None
-	8	W	5	Vinyl	Low-E Double	Yes	0.33	0.21	N	15.0 ft			Drapes/b		None
	9	W	5	Vinyl	Low-E Double	Yes	0.33	0.21	N	6.0 ft <sup>2</sup>	1 ft 6 in	1 ft 6 in	Drapes/b	olinds	Non
							GAF	RAGE				1			
$\sqrt{}$	#			r Area		g Area	Exposed V		rimeter		Vall Height	Expos	ed Wall Ins	sulation	
	1		382	2.8 ft²	382	8 ft²		64 ft		to the second	8 ft		1		
							INFILT	RATIO	N						
8	Scope		N	Method		SLA	CFM 50	ELA		EqLA	ACH	ACI	H 50		
17 VANDEN	olehou		Denn	osed AC	YU/EO) 00	0286	1382.3	75.83	1	42.37	.1027		5		

							HEAT	ING SYS	TEM							
V	#	System	туре		Subtyp	е	Spe	ed	Efficiency	Cap	acity			Block	Du	ıcts
	1	Electric	Heat Pun	np/	None		Sin	gl	HSPF:8.5	34.2	kBtu/hr			1	sy	s#1
							COOL	ING SYS	STEM							- And I
V	#	System	туре		Subtyp	е	Sub	type	Efficiency	Capacity	Air F	low	SHR	Block	Du	ıcts
	1	Centra	Unit/		None		Sing	gl	SEER: 14	36.6 kBtu/h	r 1098	cfm	0.75	1	sy	s#1
							HOT W	ATER S	STEM							
$\vee$	#	Syste	em Type	SubType	Loca	tion	EF	C	ар	Use	SetPnt		Co	nservatio	n	
	1	Elect	ric	None	Gara	ige	0.92	40	gal	60 gal	120 deg			None		
			16.			SOL	AR HO	T WATE	SYSTE	M						
$\checkmark$	FSEC Cert #		mpany Na	me			System	Model #	Co	llector Mode		llector Area	Stor		FEF	
	None	No	ne									ft²				
								DUCTS								4.715
$\checkmark$	#	Loca	Suppl ation R-\	y /alue Area		Ret	urn Area	Leaka	де Туре	Air Handler	CFM 25 TOT	CFM2 OUT		RLF	HV/ Heat	AC#
	1	At	tic	6 369 ft²	At	tic	92.25 ft	Default	Leakage	Garage	(Default)	(Defau	ult)		1	1
							TEM	PERATU	RES				200			
Program	nable Th	ermost	at: Y			Ce	eiling Fans	):				*				
Cooling Heating Venting		an an an	X Feb E 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] Ser   Ser   Ser	} {x	Oct Oct Oct	X Nov X Nov X Nov	[X]	Dec Dec Dec
hermosta Schedule		lule: F	IERS 2006	Reference 1	2	3	4	5	Ho 6	ours 7	8	9	10	11	1	12
Cooling (V	VD)		AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 78
Cooling (V	VEH)		AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	78 78
leating (V	ND)		AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 86
leating (V	NEH)		AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		58 56
			1 141	00		.00	00	MASS								
Ma	ass Typ	9			Area			Thickness		Furniture Fra	ction		Space	O'Com Pro-S		
	- 21	-	t.		O ft²			0 ft		0.3			Main			-

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## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

	•
Project Name: DWC lot 20 Street: 174 SW Caboose DR City, State, Zip: Fort White , FL , 32038 Owner: Design Location: FL, Gainesville	Builder Name: DWC Contracting LLC Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(220.0 sqft.) Description a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.21	10. Wall Type≰2043.0 sqft.)  a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A d. N/A 11. Ceiling Types (1843.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A R= ft² lnsulation R=30.0 1843.00 ft² R=30.0 1843.00 ft² R=30.0 1843.00 ft² R=30.0 1843.00 ft² R= ft²
b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.210 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (1843.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1843.00 ft² b. N/A R= ft² c. N/A R= ft²	13. Cooling systems a. Central Unit  14. Heating systems a. Electric Heat Pump  15. Hot water systems a. Electric b. Conservation features None  16. Credits  KBtu/hr Efficiency 36.6 SEER:14.00  KBtu/hr Efficiency 34.2 HSPF:8.50  Cap: 40 gallons EF: 0.920  CF, Pstat
Glass/Floor Area: 0.119 Total Proposed Modified Total Baseline I	d Loads: 47.55
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:     Solution   Solution	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 5.00 ACH50 (R402.4.1.2).

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

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 97

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

#### 174 SW Caboose DR, Fort White, FL, 32038

1.	New construction or exis	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation R=13.0	01	rea .00 ft²	
2.	Single family or multiple	Detache	d	<ul> <li>a. Frame - Wood, Exterior</li> <li>b. Frame - Wood, Adjacent</li> </ul>	R=13.0		.00 ft <sup>2</sup>	
3.	Number of units, if multi	ple family	1		c. N/A d. N/A	R= R=	100.	ft²
4.	Number of Bedrooms		3			n= Insulation		rea
5.	Is this a worst case?		No		<ol> <li>Ceiling Type and insulation level a. Under Attic (Vented)</li> </ol>	R=30.0		.00 ft²
6.	Conditioned floor area (f	t²)	1843		b. N/A	R=		ft²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.33 SHGC=0.21	3	Area 220.00 ft <sup>2</sup>	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage	R=	R 6	
	b. U-Factor: SHGC:	N/A		ft²	13. Cooling systems	kBtu/hr	Effici	iency
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit		SEER:	
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems a. Electric Heat Pump	kBtu/hr 34.2		iency F:8.50
	Area Weighted Average Area Weighted Average			1.500 ft. 0.210	a. Library amp	J 11-	1.0.	.0.00
1	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	<ol> <li>Hot water systems</li> <li>Electric</li> </ol>	Ca	ap: 40 g EF	allons : 0.92
	9. Floor Types		Insulation	Area	<ul> <li>b. Conservation features</li> <li>None</li> </ul>			
	<ul><li>a. Slab-On-Grade Edg</li><li>b. N/A</li><li>c. N/A</li></ul>	e Insulation	R=0.0 R= R=	1843.00 ft <sup>2</sup> ft <sup>2</sup>	Credits (Performance method)		CF,	Pstat

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) n this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

3uilder 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.