

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: HYDRA ENGINEERING & Street: 417 SW LONCALA LOOP City, State, Zip: FORT WHITE, FL, 32038 Owner: HYDRA ENGINEERING & Design Location: FL, Gainesville	3	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)						
 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(139.2 sqft.) Description U-Factor: Dbl, U=0.33 SHGC: SHGC=0.28 U-Factor: N/A SHGC: U-Factor: N/A SHGC: SHGC: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: Skylights U-Factor:(AVG) N/A SHGC(AVG): N/A 	New (From Plans) Detached 1 1 No 1056 0 Area 139.17 ft² ft² 1.000 ft. 0.280 Area ft² lation Area .0 788.00 ft² ft² ft² ft²	10. Wall Type 1488.0 sqft.) a. Frame - Wood, Exterior b. Interior Frame - Wood, Interior c. N/A d. N/A 11. Ceiling Types (788.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: 1ST FLOOF 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	Insulation Area R=13.0 1208.00 ft² R=13.0 280.00 ft² R= ft² R= ft² Insulation Area R=30.0 788.00 ft² R= ft² R= ft² R= ft² R ft² R ft² R ft² R 6 421 kBtu/hr Efficiency 24.0 SEER:14.00 kBtu/hr Efficiency 24.0 HSPF:8.20 Cap: 40 gallons EF: 0.920 CF, Pstat					
Glass/Floor Area: 0.132	otal Proposed Modified Total Baseline I		PASS					
I hereby certify that the plans and specificat this calculation are in compliance with the F Code. PREPARED BY: DATE: I hereby certify that this building, as designed with the Florida Energy Code.	Sorida 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.	COL THE STATE OF T					

- 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 5.83 ACH50 (R402.4.1.2).

DATE: _

BUILDING OFFICIAL:

OWNER/AGENT:__

DATE: _

					PROJ	ECT							
Title: Building Owner # of Un Builder Permit Jurisdic Family New/Ex Comme	Name: nits: Name: Office: ction: Type: xisting:	User HYDRA ENGI 1	NEERING & C NEERING & C ans)	Bedroom Condition Total Sto Worst Ca Rotate Ar Cross Ve Whole Ho	ned Area: ries: ries: rise: ngle: ntilation:	1 1056 2 No 0 No No		Lot # Bloc Platt Stree Coul	k/Subdivi: Book: et:	sion: 41 Co	7 SW LON olumbia DRT WHIT	NCALA E,	LO
					CLIMA	ATE							-
\checkmark	Des	sign Location	TMY Site	k:		esign Tem 7.5 % 2.5		Design Tem nter Summ		eating ree Days	Design Moisture		Temp nge
	FL,	, Gainesville	FL_GAINESVILL	E_REGI	1	32 9)2 7	0 75	1	305.5	51	Me	dium
					BLOC	KS							
Numb	ber	Name	Area	Volume									
1	W-7/4	Entire House	1056	8448									
			300-10-10-10-10-10-10-10-10-10-10-10-10-1		SPAC	ES							
Numb	ber	Name	Area	Volume	Kitchen	Occupant	s Bedro	ooms I	nfil ID	Finished	Cool	ed	Heate
1		1ST FLOOR	788	6304	No	2	1	1	1	Yes	Yes		Yes
2		BONUS	268	2144	No	2		1	1	Yes	Yes		Yes
					FLOO	RS							
V	#	Floor Type	Space		imeter	R-Value	Area			1	Γile Wo	od Car	rpet
	1 Sla	ab-On-Grade Edge	Insulatio 1ST	FLOOR 81	ft		788 ft	2			0 0	·	1
					ROO	F						metartenen.	
\checkmark	#	Туре	Materials	Roof Area					SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (deg
	1	Gable or Shed	Composition shin	gles 881 ft²	198 fi	t² Medi	um Y	0.4	No	0.4	No	0	26.5
					ATTI	C							
\checkmark	#	Туре	Vent	ilation	Vent Rat	io (1 in)	Area	RBS	IRO	cc	tana, yang mara		
	1	Full attic	Ver	nted	30	0	788 ft²	Υ	N	ı			
					CEILI	NG					- 42n		
$\sqrt{}$	#	Ceiling Type		Space	R-Valu	e In	з Туре	Area	Fram	ing Frac	Truss	Туре	-
	1	Under Attic (Ve		1ST FLOOR	30	В	own	520 ft²		0.1	Woo		
	2	Under Attic (Ve	ented)	BONUS	30	В	own	268 ft ²		0.1	Woo	od	

INPUT SUMMARY CHECKLIST REPORT

			4-0.5 mm 1-2.7 M 1 mm					W	ALLS								
V#	Ornt		Adjace	ent Wall	Туре		Space	Cavity R-Value	Wie	ith In	Ft	leight In	Area	Sheathing R-Value	g Framing Fraction	Solar	
1	N	1	Exterior		me - Wood		1ST FLOO	R 13	22	0	8	0	176.0 ft ²		0.19	0.4	0
2	Е	1	Exterior	Fra	me - Wood		1ST FLOO	R 13	36	0	8	0	288.0 ft ²	0	0.19	0.4	0
3	S	1	Exterior	Fra	me - Wood		1ST FLOO	R 13	22	0	8	0	176.0 ft ²	0	0.19	0.4	0
4	W	1	Exterior	Fra	me - Wood		1ST FLOO	R 13	1	0	8	0	8.0 ft ²	0	0.19	0.4	0
5	W	1	ST FLC) Inte	rior Frame - V	Nood	1ST FLOO	R 13	35	0	8	0	280.0 ft ²	0	0.25	0.8	0
6	N	1	Exterior	Fra	me - Wood		BONUS	13	22	0	8	0	176.0 ft ²	0	0.19	0.4	0
7	E	1	Exterior	Fra	me - Wood		BONUS	13	13	0	8	0	104.0 ft ²	0	0.19	0.4	0
8	S	1	Exterior	Fra	me - Wood		BONUS	13	22	0	8	0	176.0 ft²	0	0.19	0.4	0
9	W	1	Exterior	Fra	me - Wood		BONUS	13	13	0	8	0	104.0 ft ²	0	0.19	0.4	0
								DO	ORS								Name of the last o
\vee	#		Orn	t	Door Type		Space			Storms		U-Valu		Width t In	Height Ft	In	Area
	1		s		Insulated	18	ST FLOOR			None		.4	:	3	7		21 ft²
						Orien	tation show		DOWS		l or	ientation					
1		No.	Wall	15. 314. 11		Oner	itation snow	ii is the el	itereu,	Toposec	101	ientation	STATE OF THE PERSON	rhang			
\checkmark	#	Orn		Frame	Panes		NFRC	U-Factor	SHGC	Imp		Area		Separation	Int Sha	de	Screenin
	1	N	1	Vinyl	Low-E Doub	ole	Yes	0.33	0.28	N		30.0 ft²	1 ft 0 in	1 ft 0 in	None		None
	2	Ε	2	Vinyl	Low-E Doub	ole	Yes	0.33	0.28	N		6.0 ft ²	1 ft 0 in	1 ft 0 in	None		None
	3	E	2	Vinyl	Low-E Doub	ole	Yes	0.33	0.28	N		12.0 ft²	1 ft 0 in	1 ft 0 in	None		None
	4	E	2	Vinyl	Low-E Doub	le	Yes	0.33	0.28	N		30.0 ft ²	1 ft 0 in	1 ft 0 in	None		None
	5	s	3	Vinyl	Low-E Doub	le	Yes	0.33	0.28	N		14.2 ft²	1 ft 0 in	1 ft 0 in	None		None
	6	S	3	Vinyl	Low-E Doub	le	Yes	0.33	0.28	N		17.0 ft²	1 ft 0 in	1 ft 0 in	None	•	None
	7	E	7	Vinyl	Low-E Doub	ole	Yes	0.33	0.28	N		30.0 ft²	1 ft 0 in	1 ft 0 in	None		None
	•							INFILT	RATIO	N	Name of Street					totus a jaga da	
‡ S	cope		N	/lethod		SI	A CI	M 50	ELA	E	=qL	A	ACH	AC	H 50		
	lehous	e	Prop	osed AC	H(50)	.00029		20.3	45		4.4		.1506		259		
_							Н	EATING	SYS	TEM							
$\sqrt{}$	#	S	ystem 1	уре		Subt	el resulta e	Speed		Efficienc	су	(Capacity		В	lock	Ducts
	1	E	ectric F	leat Pur	mp/	Split		Singl		HSPF:8.	.2		kBtu/hr			1	sys#1
- yaun			- VIEW				С	OOLING	SYS	TEM							
V	#	S	ystem 1	уре		Subt	/pe	Subtype		Efficiency	/	Capaci	ty A	ir Flow S	SHR B	lock	Ducts
	1	C	entral U	Init/		Split		Singl		SEER: 14	1	24 kBtu	/hr	cfm	0.7	1	sys#1

					H	OT WA	ATER SY	STEM							
\vee	#	System Type	SubType	Lo	cation	EF	Ca	o	Use	SetPnt		Co	nservatio	n	-
	1	Electric	None	18	T FLOOR	0.92	40 g	al	60.9 gal	120 deg			None		
					SOLA	R HOT	WATER	SYST	EM						SHEATAGAIN
\checkmark	FSEC		12222								llector		rage		
	Cert #	Company N	lame		8	system M	Viodel #	C	ollector Model	1# P	Area	Volu	ume	FEF	
	None	None				-					ft²				
						ı	DUCTS								-
/	#	Sup	ply -Value Are		Return		Lookaa	o Tuno	Air		CFM25	011	DIE		AC#
· · · · · · · · · · · · · · · · · · ·	1					Area	Leakag		Handler		OUT	QN	RLF	Heat	
	1	Attic	6 421	τ-		TEMP	Default L	MINNESON	1ST FLOO	(Default)	(Default)	er er		1	1
Dragram	able The	rmantati V			-		SINGS OF THE OWNER, OR WHITE OWNER, OR WHITE OWNER, OR WHITE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,								
1996		rmostat: Y	4.55			g Fans:									
Cooling Heating Venting	X Ja Ja Ja	n [] Feb n [X] Feb n [] Feb	X Mar X Mar X Mar	X A	or []N	∕lay ∕lay ∕lay	[X] Jun Jun Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Sep Sep Sep	X	oct oct oct	X Nov X Nov	$[\times]$	Dec Dec Dec
Thermosta	t Schedu	le: HERS 20	06 Reference	e		700-100		Н	ours						
Schedule 7	Гуре		1	2	3	4	5	6	7	8	9	10	11		12
Cooling (V	/D)	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 (W	/EH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	į	78 78
Heating (V	/D)	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 (V	/EH)		V-10-1												
		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
							MASS				2000				
	iss Type			Are			Thickness		Furniture Frac	ction	Spa	ice			
	fault(8 lb			0 ft	2		O ft		0.3			FLOO	R		
Default(8 lbs/sq.ft.				ft ²			ft		0.3		BC	ONUS			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

417 SW LONCALA LOOP, FORT WHITE, FL, 32038

1.	New construction or exi	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	Area				
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1208.				
3.	Number of units, if mult	iple family	1		 b. Interior Frame - Wood, Interior c. N/A 	R=13.0 R=	280.	00 ft² ft²		
	Number of Bedrooms	• Pocition of potation to be an in-	1		d. N/A	R=		ft ²		
	Is this a worst case?	No		 Ceiling Type and insulation level a. Under Attic (Vented) 	Insulation R=30.0	0.0000000000000000000000000000000000000	rea 00 ft²			
6.	Conditioned floor area (1056		b. N/A	R=	ft ²				
7.	Windows**	Description		Area	c. N/A	R=		ft²		
	a. U-Factor: SHGC:	Dbl, U=0.33 SHGC=0.28		139.17 ft²	 Ducts, location & insulation level Sup: Attic, Ret: Attic, AH: 1ST FLOOF 	₹	R 6	ft² 421		
	b. U-Factor:	N/A		ft²						
	SHGC:				13. Cooling systems	kBtu/hr	Efficie	ency		
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	24.0	SEER:	14.00		
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficie			
	Area Weighted Average Area Weighted Average		1.000 ft. 0.280	a. Electric Heat Pump	24.0	HSPF	SPF:8.20			
i	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	p: 40 ga EF:	allons : 0.92		
						•	 b. Conservation features 			
-	9. Floor Types	Insulation	Area	None						
	 a. Slab-On-Grade Edg b. N/A 	je msulation	R=0.0 788.00 ft ² R= ft ²		Credits (Performance method)		CF,	Pstat		
	c. N/A		R=	ft²						

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.