FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Hadley Residen Street: NW ASH DRIVI City, State, Zip: Lake City, FL, Owner: John Hadley Design Location: FL, Gainesville		Builder Name: Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Clin	nate Zone 2)
New construction or existing	New (From Plans)	10. Wall Types(896.0 sqft.)	Insulation Area
Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0 896.00 ft ²
Number of units, if multiple family	1	b. N/A c. N/A	R= ft²
	·	d. N/A	R= ft² R= ft²
4. Number of Bedrooms5. Is this a worst case?	1 No	11. Ceiling Types (960.0 sqft.) a. Under Attic (Vented)	Insulation Area R=38.0 960.00 ft²
6. Conditioned floor area above grade (ft²) 768	b. N/A	R= ft²
Conditioned floor area below grade (ft²) 0	c. N/A	R= ft²
7. Windows (128.0 sqft.) Descrip	ition Area	12. Ducts	R ft²
a. U-Factor: Dbl, U=0. SHGC: SHGC=0.			
b. U-Factor: N/A SHGC:	ft²	13. Cooling systems a. Central Unit	kBtu/hr Efficiency 8.9 SEER:14.00
c. U-Factor: N/A	ft²	1	
SHGC: Area Weighted Average Overhang D Area Weighted Average SHGC:	Depth: 5.055 ft. 0.250	14. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 7.4 HSPF:8.20
8. Skylights	Area	I	
c. U-Factor:(AVG) N/A SHGC(AVG): N/A	ft²	15. Hot water systems	Cana 50 anilana
9. Floor Types (768.0 sqft.) a. Crawlspace b. N/A c. N/A	Insulation Area R=19.0 768.00 ft ² R= ft ² R= ft ²	a. Propane b. Conservationfeatures None 16. Credits	Cap: 50 gallons EF: 0.590 CV, Pstat
Glass/Floor Area: 0.167	Total Proposed Modifi Total Baselin		PASS

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

PREPARED BY: DATE:

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 5.00 ACH50 (R402.4.1.2).
- Proposed Qn of NAN exceeds the performance method default limit of 0.08 and therefore does not require duct testing. R405 .2.3

INPUT SUMMARY CHECKLIST REPORT

				PROJ	ECT							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	John Hadley 1		Bedrooms Conditione Total Stori Worst Cas Rotate Ang Cross Ven Whole Hou	edArea: es: ee: gle: tilation:	1 768 1 No 0 Yes No		Lot # Block PlatB Stree Coun	c/Subdivisio sook: et:	on: NW Col	eet Addres V ASH DR lumbia ke City ,		
				CLIM	ATE							
	esign Location	TMY Site	DECI		Design Temp 7.5 % 2.5 %	Wint		ier Degre	ating ee Days	Design Moisture	e Ra	Temp
FI	_, Gainesville	FL_GAINESVILLE	_REGI	BLO	32 92 CKS	70	75	130	05.5	51	IVI	edium
Number	Nama	Area	Valuma	ВЕОС								
Number 1	Name Block1	Area 768	Volume 6144									
'	DIOCKT	700	0144	SPAC	ree							
Number	Name	Area	Volume	Kitchen		Bedro	omo li	nfil ID F	inished	Cool	od	Heated
1	Main	768	6144	Yes	Occupants 3	1	1		es	Yes	eu	Yes
				FLOC	ORS							
#	Floor Type	Space	Expos	sed PeriWa	all Ins. R-Value	Area	Floor J	loist R-Valu	ue 7	Γile Wo	od Ca	rpet
1 Cı	rawlspace	Ma			5	768 ft²		19		0 0		1
				ROC	OF .							
√ #	Туре	Materials	Roof Area	Gab Are		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Gable or shed	Metal	1000 ft ²	180	ft² Medium	ı Y	0.96	No	0.9	No	0	39.81
				ATT	TC TC							
√ #	Туре	Ventila	ation	Vent Ra	itio (1 in)	Area	RBS	IRC	C			
1	Partial cathedral c	eili Vent	ed	30	00	768 ft²	Υ	N				
				CEIL	ING							
√ #	Ceiling Type		Space	R-Val	ue Ins T	уре	Area	Frami	ng Frac	Truss	Туре	
1	Under Attic (Vent	ed)	Main	38	Double	Batt	960 ft²	0.	.11	Wo	od	

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS							
V #	Ornt	Adj To	acent	all Type	Space	Cavity e R-Value	Widtl		Height t In	Area	Sheathin	g Framing Fraction	Solar Absor.	Below Grade%
1	S	Exte		rame - Wood	Main		32	8		256.0 ft ²		0.23	0.75	0
2	Е	Exte	rior F	rame - Wood	Main	13	24	8	}	192.0 ft²		0.23	0.75	0
3	Ν	Exte	rior F	rame - Wood	Main	13	32	8	;	256.0 ft ²		0.23	0.75	0
4	W	Exte	rior F	rame - Wood	Main	13	24	8	1	192.0 ft²		0.23	0.75	0
						DO	ORS							
\vee	#	C	Ornt	Door Type	Space		;	Storms	U-Valu	ıe Ft	Width t In	Height Ft	t In	Area
	1		S	Insulated	Main			None	.46	3	i	6	8	20 ft²
					Orientations	WINI hown is the e	DOWS ntered.Pr	oposedo	orientation.					
/		W	all				,	'		Ove	rhang			
\vee	#	Ornt II		e Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sha	ide :	Screenin
	1	S '	l Viny	l Low-E Doubl	e Yes	0.36	0.25	N	60.0 ft ²	9 ft 6 in	0 ft 6 in	None	9	None
	2	E 2	2 Viny	l Low-E Doubl	e Yes	0.36	0.25	N	30.0 ft ²	1 ft 0 in	6 ft 0 in	None	9	None
	3	N 3	3 Viny	l Low-E Doubl	e Yes	0.36	0.25	N	9.0 ft ²	1 ft 6 in	2 ft 0 in	None	9	None
	4	N 3	3 TIM	Low-E Doubl	e Yes	0.36	0.25	N	9.0 ft ²	1 ft 6 in	2 ft 0 in	None	Э	None
	5	W 4	1 Viny	l Low-E Doubl	e Yes	0.36	0.25	N	20.0 ft ²	1 ft 0 in	6 ft 0 in	None	9	None
						INFILT	RATIO	N						
# \$	Scope		Method	i	SLA	CFM 50	ELA	Ed	qLΑ	ACH	AC	CH 50		
1 Who	olehous	se Pr	oposed A	CH(50)	.000254	512	28.09	52	2.74	.098		5		
						HEATING	SYST	EM						
$\sqrt{}$	#	Syste	n Type		Subtype	Speed	E	Efficiency	, (Capacity		E	Block	Ducts
	1	Electri	c Heat P	ump/	None	Single	ŀ	HSPF:8.2	2 7.3	39 kBtu/hr			1	Ductless
						COOLING	S SYST	ЕМ						
$\sqrt{}$	#	Syster	n Type		Subtype	Subtype	E	fficiency	Capac	ity A	ir Flow	SHR E	Block	Ducts
	1	Centra	al Unit/		None	Single	SI	EER: 14	8.85 kBt	u/hr 27	'0 cfm	0.7	1	Ductless
					F	TAW TO	ER SYS	STEM						
$\sqrt{}$	#	Sys	tem Type	SubType	Location	EF	Сар		Use	SetPn	t	Conse	rvation	
		_	oane	None	Exterior	0.59	50 ga		40 gal	120 de		No		

INPUT SUMMARY CHECKLIST REPORT

SOLAR HOT WATER SYSTEM														
V	FSEC Cert #	CompanyNa	me	System Model#			Model#	C				llector Storage vrea Volume		FEF
	None	None									ft²			
						TEM	PERATU	RES						
ProgramableThermostat: Y Ceiling Fans:														
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apı Apı [X] Apı	- - r	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul Jul Jul	[X] Aug Aug Aug	[X] Sep [] Sep [] Sep		Oct Oct X Oct	[] Nov [X] Nov [X] Nov	Dec XDec Dec
Thermostat Schedule T		HERS 200	6 Reference 1	2	3	4	5	H 6	ours 7	8	9	10	11	12
Cooling (W	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	78 78
Heating (W	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 (W	EH)	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														
Ma	ss Type			Area Thickness			Thickness	Furniture Fraction			Space			
De	fault(8 lbs/	sq.ft.		0 ft²			0 ft		0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 72

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

NW ASH DRIVE, Lake City, FL,

1. New construction or existing			New (Fro	om Plans)	10. Wall Type and Insulation	Insulation	Area	
2.	2. Single family or multiple family		Detached	d	a. Frame - Wood, Exterior	R=13.0	896.00 ft ²	
3.	Number of units, if multip	ole family	1		b. N/A c. N/A	R= R=	ft² ft²	
4.	Number of Bedrooms		1		d. N/A	R=	ft²	
5.	i. Is this a worst case?		No		 Ceiling Type and insulation level a. Under Attic (Vented) 	Insulation R=38.0	Area 960.00 ft²	
6.	. Conditionedfloor area (ft²)		768		b. N/A	R=	ft²	
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.36 SHGC=0.25		Area 128.00 ft²	c. N/A 12. Ducts, location & insulation level	R=	ft² R ft²	
	b. U-Factor: SHGC:	N/A		ft²	13. Cooling systems	kBtu/hr	Efficiency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit		SEER:14.00	
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Efficiency	
	Area Weighted Average Overhang Depth: Area Weighted Average SHGC:			5.055 ft. 0.250	a. Electric Heat Pump	7.4 HSPF:8.2		
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Propane	Cap	p: 50 gallons EF: 0.59	
	9. Floor Types a. Crawlspace b. N/A		Insulation R=19.0 R=	Area 768.00 ft² ft²	b. Conservationfeatures None Credits (Performance method)		CV, 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:	Da	te:
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.

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:							
Job Information								
Builder: Community:	Lot: NA							
Address: NW ASH DRIVE								
City: Lake City State	e: FL Zip:							
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method							
PRESCRIPTIVE METHOD-The building or dwelling unit shall be tes changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	ted and verified as having an air leakage rate of not exceeding 7 air late Zones 1 and 2.							
PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 5.000								
x 60 ÷ 6144 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation is must be verified by building department.								
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7F/lorida Statuesor individuals licensed as set forth in Section 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 official. Testing shall be performed at any time after creation of all penetrations of the uidding thermal envelope. 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 fully open.								
Testing Company								
Company Name: I hereby verify that the above Air Leakage results are in accorda Energy Conservation requirements according to the compliance	nce with the 2020 7th Edition Florida Building Code							
Signature of Tester:	Date of Test:							
Printed Name of Tester:								
License/Certification #:	Issuing Authority:							