

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: Street: City, State, Zip: Owner: Design Location:	Howell Residence CR 349 Lake City , FL , FL, Gainesville		Builder Name: Coumsta Permit Office: 29879 Permit Number: Jurisdiction: 221000	
1. New construction 2. Single family or m 3. Number of units, i 4. Number of Bedro 5. Is this a worst cas 6. Conditioned floor 7. Windows a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: d. U-Factor: SHGC: e. U-Factor: SHGC: 8. Floor Types a. Slab-On-Grade	nultiple family if multiple family foms see? area (ft²) Description Sgl, U=0.55 SHGC=0.60 N/A N/A N/A N/A N/A	New (From Plans) Single-family 1 2 No 1008 Area 75.00 ft²	9. Wall Types a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic Ret: Attic AH: Interior S 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump	Cap: 24.0 kBtu/hr SEER: 13 Cap: 24.0 kBtu/hr HSPF: 7.7
b. N/A c. N/A		R= ft ² R= ft ²	b. Conservation features None 15. Credits	EF: 0.92
Glass/Floor Area	a: 0.074 .	Total As-Built Modif Total Base	fied Loads: 21.46 line Loads: 26.01	PASS
this calculation are Code. PREPARED BY: DATE: I hereby certify that with the Florida End OWNER/AGENT:	this building, as deergy Code.	cifications covered by the Florida Energy Signed, is in compliance	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:	OF THE STATE OF TH
- Compliance re qualifies as ce	quires certificat	ion by the air handler u	nit manufacturer that the air handle	r enclosure

	1				PR	OJECT							
Owner: # of Un	Name: Office: ction: Type: xisting:	1	ily	Co To Wo Ro Cro	drooms: nditioned Area tal Stories: orst Case: tate Angle: oss Ventilation nole House Fai	1 No 0	3		Adress Lot # SubDivis PlatBoo Street: County: City, Sta	sion: k:	CR 34 Colum Lake C	bia	s
	-			·	CL	IMATE							
\checkmark	Des	sign Location	1	MY Site	IECC Zone	Design 97.5 %	Temp 2.5 %	Int Desig	n Temp Summer	Heatir Degree I	_	Design oisture	Daily Temp
	FL	., Gainesville	FL_GAIN	ESVILLE_REG	2	32	92	75	70	1305.	5	51	Medium
					FL	oors			the mild be a second				
\vee	#	Floor Type		Perim	eter	R-Valu	е	Area			Tile	Woo	d Carpet
	1	Slab-On-Grad	de Edge Insulat	io 128	ft 	0		1008 ft²			0.2	0.4	0.4
					R	OOF							
/	#	Туре	Ма	terials		Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch	1	
	1	Hip	N	letal	1062 ft²	0 ft²	Medium	0.96	No	0	18.4 d	eg	
					A	TTIC							
\checkmark	#	Туре		Ventilation	Vent	Ratio (1 in)	Area	RBS	IRCC			
	1	Full attic		Vented		300	1	008 ft²	Υ	N			
					CE	ILING							
\vee	#	Ceiling Type	9		R-Value	е	Ar	ea	Framin	g Frac		Truss T	/pe
	1	Under Attic	(Vented)		30		1008	ft²	0.1	1		Wood	j
					W	ALLS							
\checkmark	#	Ornt	Adjacent To	Wall Type			Cav R-Va	ty lue Area	Shea R-V	athing alue	Framing Fraction	9	Solar Absor.
	1	N	Exterior	Frame - Wood	i		13	288 ff	2		0.23		0.75
	2	S	Exterior	Frame - Wood	i		13	288 ft	2		0.23		0.75
	3	E	Exterior	Frame - Wood	i		13	224 ft	2		0.23		0.75
	4	W	Exterior	Frame - Wood	i		13	224 ft	2		0.23		0.75

	4.				DC	ORS						
$\sqrt{}$	#	Ornt	Door Type				Stor	ms	U-	-Value	Area	
	1	N	Wood				No	ne	0.4	60000	20 ft ²	
	2	s	Wood				No	ne	0.4	60000	33.33333	
				Orientation	WIN n shown is the	DOWS entered,	asBuilt o	rientation.				
./									Ove	rhang		
V	#	Ornt Fra	me Panes	NFRC	U-Factor	SHGC	Storms	Area	Depth	Separation	Int Shade	Screenin
	1	N Me	tal Single (Clear)	Yes	0.55	0.6	Ν	15 ft ²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	2	E Me	tal Single (Clear)	Yes	0.55	0.6	N	30 ft ²	1 ft 6 in	1 ft 6 in	HERS 2006	None
	3	W Me	tal Single (Clear)	Yes	0.55	0.6	N	30 ft²	1 ft 6 in	1 ft 6 in	HERS 2006	None
				IN	FILTRATIC	ON & V	ENTIN	G				
\checkmark	Method		SLA	CFM 50	ACH 50	ELA	EqL	A Si		Ventilation Exhaust CFM		Fan Watts
	Default		0.00036	952	7.08	52.3	98.3	3 0	cfm	0 cfm	0	0
					COOLING	G SYS1	ГЕМ					
\vee	#	System Type		Subtype		-	Efficiency	у (Capacity	Air Flow	SHR	Ducts
	1	Central Unit		None		5	SEER: 1	3 24	kBtu/hr	720 cfm	0.75	sys#1
					HEATING	SYST	EM					
$\sqrt{}$	#	System Type		Subtype			Efficiency	у (Capacity	Ducts		
	1	Electric Heat F	ump	None		F	ISPF: 7.	7 2	4 kBtu/hr	sys#1		
					HOT WATI	ER SYS	STEM					
$\sqrt{}$	#	System Type	9		EF	Сар		Use	SetPni	1	Conservation	
	1	Electric			0.92	40 ga	ıl	50 gal	120 deg	9	None	
				SOL	AR HOT W	ATER	SYSTE	EM .				
\checkmark	FSEC Cert #		Name		System Mod	el#	Co	ollector Mo			Storage Volume	FEF
	None	None								ft²		
					DU	стѕ					1.70.20	
/			pply	Retu			т.	Air		Perc		
V	#		R-Value Area	Location	Area	Leakage		Hand		M 25 Leak		RLF
	1	Attic	6 201.6 ft	Attic	50.4 ft ²	Default Le	eakage	Interi	or (De	fault) (Defau	ılt) %	

						TEM	PERATU	RES						
Programa	able Thermo	stat: Y				Ceiling Fans	s:						The College of the	
Cooling Heating Venting	[X] Jan [X] Jan [X] Jan	[X] Feb [X] Feb [X] Feb	[X] Mar [X] Mar [X] Mar	XX A	pr pr pr	[X] May [X] May [X] May	[X] Jun [X] Jun [X] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	XX S	ep ep ep	X Oct X Oct X Oct	[X] Nov [X] Nov [X] Nov	X Dec X Dec X Dec
Thermostat	Schedule:	HERS 200	6 Reference)				Hou	ırs				, , , , , , , , , , , , , , , , , , , ,	
Schedule T	ype		1	2	3	4	5	6	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

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS: CR 349

Lake City, FL,

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 83

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

CR 349, Lake City, FL,

1.	New construction or exis	ting	New ((From Plans)	9.	Wall Types	Insulation	Area
2.	Single family or multiple	family	Single	e-family		a. Frame - Wood, Exterior	R=13.0	1024.00 ft ²
3.	Number of units, if multip	ole family	1			b. N/A c. N/A	R=	ft²
4.	Number of Bedrooms		2			d. N/A	R= R=	ft² ft²
5.	Is this a worst case?		No		10.	Ceiling Types	Insulation	Area
6.	Conditioned floor area (f	t²)	1008			a. Under Attic (Vented)	R=30.0	1008.00 ft ²
7.	Windows** a. U-Factor:	Description Sgl, U=0.55		Area 75.00 ft²		b. N/A c. N/A	R= R=	ft² ft²
	SHGC: b. U-Factor:	SHGC=0.60 N/A		73.00 ft²		Ducts a. Sup: Attic Ret: Attic AH: Interior	Sup. R= 6, 201.	6 ft²
	SHGC: c. U-Factor: SHGC:	N/A		ft²		Cooling systems a. Central Unit	Сар:	24.0 kBtu/hr
	d. U-Factor: SHGC:	N/A		ft²		Heating systems	Can:	SEER: 13 24.0 kBtu/hr
	e. U-Factor: SHGC:	N/A		ft²		r i		HSPF: 7.7
	Floor Types a. Slab-On-Grade Edge I b. N/A	nsulation	Insulation R=0.0 R=	Area 1008.00 ft ² ft ²	í	Hot water systems a. Electric	Сар	o: 40 gallons EF: 0.92
	c. N/A		R=	ft²	,	 Conservation features None 		
					15	Credits		Detat

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: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.