## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name New Project REED Street: City, State, Zip: , FL , Owner Design Location FL, Gainesville  1. New construction or existing	New (From Plans)	Builder Name: RONALD CLARK CONS Permit Office: Permit Number. Jurisdiction:  9. Wall Types (1719.0 sqft.) a. Frame - Wood, Exterior	Insulation Area R=13.0 1431.00 ft²
<ol> <li>Single family or multiple family</li> <li>Number of units, if multiple family</li> <li>Number of Bedrooms</li> <li>Is this a worst case?</li> <li>Conditioned floor area above grade (ft²)</li> <li>Conditioned floor area below grade (ft²)</li> <li>Windows (189.0 sqft.) Description         <ol> <li>U-Factor: Dbl, U=0.50</li> <li>SHGC. SHGC=0.27</li> <li>U-Factor: N/A</li> <li>SHGC:</li> <li>U-Factor: N/A</li> <li>SHGC:</li> <li>U-Factor: N/A</li> </ol> </li> <li>SHGC: Area Weighted Average Overhang Depth</li> </ol>	Single-family  1  3  No  1748  0  Area  189.00 ft²  ft²  ft²  ft²  ft²  ft²  ft²	b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (1748.0 sqft.) a. Under Attic (Vented) 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	R=13.0 288.00 ft <sup>2</sup> R= ft <sup>2</sup> R= ft <sup>2</sup> Insulation Area R=30.0 1748.00 ft <sup>2</sup> R= ft <sup>2</sup> R= ft <sup>2</sup> R ft <sup>2</sup> R 549.6  kBtu/hr Efficiency 35.0 SEER.14.00  kBtu/hr Efficiency
Area Weighted Average SHGC  8. Floor Types (1748 0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A c. N/A	0.270 Insulation Area R=0.0 1748.00 ft² R= ft² R= ft²	<ul><li>14. Hot water systems         <ul><li>a. Electric</li><li>b. Conservation features</li><li>None</li></ul></li><li>15. Credits</li></ul>	Cap: 40 gallons EF· 0.920 Pstat
Glass/Floor Area: 0.108	Total Proposed Modifie Total Standard Referenc		PASS
I hereby certify that the plans and spethis calculation are in compliance with Code.  PREPARED BY: DATE:  I hereby certify that this building, as divith the Florida Energy Code	n the Florida Energy SUNCOAST INSULATORS 825 NW 25314 Terrace Newberry, FL 32669 (352) 472-8595 Fax (352) 472-2633	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 completion of a Florida Air Barrier and Insulation Inspection Checklist

OWNER/AGENT:

1/17/2014 8.46 AM

DATE: .

DATE:

BUILDING OFFICIAL:

				PROJECT	i i i i i i i i i i i i i i i i i i i						arana di salah 1900 da Salah
Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	New Project REE User 1 RONALD CLARI Single-family New (From Plans	K CONST.	Bedrooms: Conditioned Total Stories Worst Case: Rotate Angle Cross Ventil: Whole Hous	: 1 No E O ation:			Address Ty Lot # Block/Subl PlatBook: Street: County: City, State,	Division: , Zip <sup>.</sup>	Street Addi Alachua , FL ,	ress	
			ang de jejinder, ti de krokelje jejene de sjer te servere	CLIMATE							
V De	sign Location	TMY Site	IECC Zone		n Temp 6 2.5 %	Int Desig Winter	-	Heating Degree Da	Desi ys Moist		illy Temp Range
FI.	., Gainesville	FL_GAINESVILLE_	_REGI 2	32	92	70	75	1305.5	51		Medium
San Constant Services of Book for account with the services of	BLOCKS										
Number	Name	Area	Volume								
1	Block1	1748	15732								
				SPACES							
Number	Name	Area	Volume Ki	tchen Oc	cupants	Bedrooms	Infil ID	) Finish	ed Co	ooled	Heated
1	Main	1748	15732	Yes	4	3	1	Yes	Υe	es	Yes
				FLOORS							
/ #	Floor Type	Space	Perim	eter R-	Value	Area			Tile V	Vood	Carpet
1 SI	ab-On-Grade Edge II	nsulation Ma	ain 200 f	t	0	1748 ft²			0	0	1
				ROOF							
<b>V</b> #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Hip	Composition shingl	es 1893 ft²	O ft²	Medium	0.96	No	0.9	No	0	22.6
				ATTIC							
√ #	Туре	Ventila	ation	Vent Ratio (1	in)	Area	RBS	IRCC			
1	Full cathedral ce	iling Vent	ed	300	•	1748 ft²	N	N			
				CEILING			The second second second			Par mar introduction of	
#	Ceiling Type		Space	R-Value	A	rea	Framing	Frac	Tru	ss Тур	e
1	Under Attic (Ven	ited)	Main	30	17	'48 ft²	0.11	1	1	Nood	

		an ny paositr					WA	LLS								py - 1/14/(CHINE HINE)
\/.	# Orni		Adjace	nt VVa(i	Tuno	Space	Cavity R-Value	Wid Et	th (n	He	eight In	Area	Sheathing	Framing Fraction	Solar Absor	Below Grade%
V;	n		exterior		ne - Wood	Main	13	34		9		306.0 ft <sup>2</sup>	tx=value_	0.23	0.75	Grade. 0
	2 N	c	3arage	Fran	ne - Wood	Main	13	22		9		198.0 ft²		0.23	0.75	0
	3 E	(	3arage	Fran	ne - Wood	Main	13	10		9		90.0 ft <sup>2</sup>		0.23	0 75	0
	4 E	E	xterior	Fran	ne - Wood	Main	13	25		9		225.0 ft <sup>2</sup>		0.23	0.75	0
(	5 S	E	xterior	Fran	ne - Wood	Main	13	56		9		504.0 ft <sup>2</sup>		0.23	0.75	0
6	6 W	E	xterior	Fran	ne - Wood	Main	13	44		9		396.0 ft <sup>2</sup>		0.23	0.75	0
	engine promise Publik Hardell		**************************************				DO	ORS								
$\checkmark$	#	ariada Malaria a p	Ornt		Door Type	Space			Storms	)	U-Valu	e Fi	Width In	Heigh Ft	t In	Area
~~~~	_ 1		N		Insulated	Main			None		.46	3		6	8	20 ft²
·	_ 2		N		Insulated	Main			None		.46	2	8	6	8 1	7 8 ft²
	_ 3		S		Insulated	Main			None		.46	3	i	6	8	20 ft²
Am Market Spingare						rientation sh		DOWS		d orie	entation				in an in Section of English	
/		OR STREET, SQUARE,	Wall									Ove	rhang			COMMINSTRACTIONS
	#	Ornt	ID	Frame	Panes	NFRC	U-Factor				Area	Depth	Separation	Int Sha		Screenir
	_ 1	N	1	Metal	Double (Clear)	Yes	0.5	0.27			45.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/k		None
·	_ 2	E	4	Metal	Double (Clear)	Yes	0.5	0.27			9.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/k		None
····	_ 3	E	4	Metal	Double (Clear)	Yes	0.5	0.27			15.0 ft²	2 ft 0 in	6 ft 0 in	Drapes/k		None
	. 4	\$	5	Metal	Double (Clear)	Yes	0.5	0.27			75.0 ft²	2ft0in	6 ft 0 in	Drapes/		None
TELEFORESHIPA SE	_ 5	W	6	Metal	Double (Clear)	Yes	0.5	0.27			45.0 ft²	2ft0in	6 ft 0 in	Drapes/l	olinds	None
وروس ورود		assesses a					GAI	RAGE		George party and	فالمانة المانة المانة					
$\sqrt{}$	#		Floo	r Area	Ceiling	Area	Exposed \	Nall Per	imeter		Avg. Wa	all Height	Expos	ed Wall In	sulation	
·	_ 1		48	4 ft²	484	ft²		64 ft			8	ft		1		
le subsumina		and the same of the					INFILT	RATIO	N	***************************************						
ŧ	Scope		IV	1ethod		SLA	CFM 50	ELA		EqL/	Α	ACH	ACI	H 50		
***********	/holehou	se	Best 6	Guess	.00.	)05	2292.5	125.86		236.6		.385		434		
<del>Contracts</del>	engar erinja Statra	Walter and		ON MALESTA MARINES		in in the little of the little	HEATING	3 SYS	TEM					Maria de Cara		
V	#	Sy	stem T	уре	Su	btype		Maria de la composição de	Efficier	псу	(	Capacity			Block	Ducts
	1			eat Purr				···· <del>·</del>	HSPF:			2 kBtu/hr			1	sys#1

						COOL	ING SYS	STEM							
V		system Type Sentral Unit		Subtype None	)			Efficiency SEER: 14	Capacity 35 kBtu/hr	Air F 1050		SHR 0.75	Block 1		ucts s#1
					4	OT W	ATER S	/STEM				<b></b>			
V	#	System Type	SubType	Locat	ion	EF	C	3p	Use	SetPnt		Co	nservatior	**************************************	
<u>Y</u>	1	Electric	None	Gara	ge	0.92	40	gal	60 gal	120 deg			None		
					SOL	AR HO	T WATE	RSYST	ΞM			Milater garger der met er mer 19			ROSSERVEN AS
<b>V</b>	FSEC Cert #	Company N	ame			System	Model #	Co	ollector Model		ollector Area	Stor Volu	-	FEF	
***************************************	None	None									ft²				
							DUCTS								
$\checkmark$	#	Sup Location R	pply R-Value Area		Retu ation	rn Area	Leaka	ge Type	Air Handler	CFM 25 TOT	CFM2 OUT		RLF	HV/ Heat	AC# Cod
	1	Attic	6 349.6 ft	<sup>2</sup> At	lic	87.4 ft²	Defaul	Leakage	Garage	(Default)	c(Defa	ult) c		1	1
The second s					1-92-11-0 T-1800-1	TEM	PERATU	RES							
Program	able Ther	mostat: Y			Cei	ling Fans	<b>s:</b>								
Cooling Heating Venting	X Ja X Ja Ja	n (X) Feb	[ ] Mar [X] Mar [X] Mar	Apr Apr [X] Apr	ſ	] May ] May ] May	[X] Jun   Jun   Jun	[X] Jul   Jul   Jul	[X] Aug [ ] Aug [ ] Aug	[X] Ser [ ] Ser [ ] Ser		Oct Oct X) Oct	[ ] Nov [X] Nov [X] Nov	[X]	Dec Dec Dec
Thermosta		e: HERS 200	06 Reference			4	ges		ours		^	40	4.4		12
Schedule *			1	2	3	4	5	6	7	8	9	10	11		
Cooling (W	(טע)	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 (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		78 78
leating (V	VD)	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	VEH)	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

Florida Code Compliance Checklist
Florida Department of Business and Professional Regulations Residential Whole Building Performance Method

ADDRESS:	PERMIT #:
, FL,	

#### MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed.  Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required.  Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2 2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
· · · · · · · · · · · · · · · · · · ·	403.3 3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403 4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403 5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403 9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403 6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2 1	R-19 space permitting.	

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# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

### **ESTIMATED ENERGY PERFORMANCE INDEX\* = 80**

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

, , FL,

1	1 New construction or existing		New (F	rom Plans)	9.	Wall Types	Insulation	
2	Single family or multiple family		Single-family			a. Frame - Wood, Exterior	R=13.0	1431 00 ft <sup>2</sup> 288,00 ft <sup>2</sup>
	Number of units, if multiple		1			b. Frame - Wood, Adjacent c. N/A	R=13.0 R=	ft²
4	Number of Bedrooms		3		_	d. N/A	R≈	ft²
5	Is this a worst case?		No		10	D. Ceiling Types a. Under Attic (Vented)	Insulation R=30.0	1748.00 ft <sup>2</sup>
6.	Conditioned floor area (ft²	)	1748			b. N/A	R=	ft²
7	Windows** a U-Factor. SHGC	Description Dbl, U=0.50 SHGC=0.27		Area 189.00 ft²	1	c. N/A 1. Ducts a. Sup: Attic, Ret: Attic, AH: Garage	R=	ft² R ft² 6 349 6
	b U-Factor SHGC:	N/A		ft²	1:	2. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC.	N/A		ft²		a. Central Unit	35.0	SEER:14 00
	d. U-Factor SHGC	N/A		ft²	1:	Heating systems     Electric Heat Pump	kBtu/hr 32.0	Efficiency HSPF·7.70
	Area Weighted Average Overhang Depth: Area Weighted Average SHGC		2.000 ft. 0.270					
8	Floor Types a. Slab-On-Grade Edge Insulation		Insulation Area R=0.0 1748.00 ft <sup>2</sup>		1	Hot water systems     a. Electric	С	ap. 40 gallons EF: 0 92
	b. N/A c. N/A		R= R=	ft² ft²		<ul><li>b. Conservation features</li><li>None</li></ul>		
					1	5. Credits		Pstat

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:	HAZU		بر سرا رکتون
Address of New Home:	City/FL Zip:	<i> }}</i>	100 N	COL



\*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 EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.