FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

' Florida Department of Business and Professional Regulation - Residential Performance Method

*	
Project Name: 170_Regan Street: 615 NW Lona LP City State, Zip: Lake City , FL , 32055- Owner: Larry and Lorena Regan Design Location: FL, Jacksonville	Builder Name: Adam Construction Permit Office: Permit Number: Jurisdiction:
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms(Bedrms In Addition) 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(221.0 sqft.) Description a. U-Factor: Dbl, U=0.34 221.00 ft² \$HGC: SHGC=0.31 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 6.192 ft. Area Weighted Average SHGC: 0.310 8. Ffoor Types (1420.0 sqft.) Insulation Area a Slab-On-Grade Edge Insulation R=0.0 1420.00 ft² b. N/A R= ft² C. N/A R= ft² Class/Floor Area: 0.156 Total Proposed Modified Total Standard Reference	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:	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.

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



DATE:

DATE:

	1			PROJEC)T						
Title; Building Ty Owner: # of Units: Builder Na Permit Off Jurisdiction Family Typ New/Existi	Larry and Lorer 1 me: Adam Constructice: n: De: Single-family	-	Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	es: 1 e: f lle: (illation:	420		Address Ty Lot # Block/Subl PlatBook: Street: County: City, State	Division: , Zip:	Street Add 615 NW L Columbia Lake City FL , 32	ona LP	
				CLIMAT	Έ						
V	Design Location	TMY Site	IEC Zon		sign Temp % 2.5 %	Int Design		Heating Degree Da			lly Temp Range
	FL, Jacksonville	FL_JACKSONVILL	E_INT 2	2 32	2 93	70	75	1281	49	9	Medium
				BLOCK	S						
Number	Name	Area	Volume								
	Block1	1420	11360			The second					
13				SPACE	S						
Number	Name	Area	Volume k	(itchen (Occupants	Bedrooms	Infil ID	Finish	ed C	ooled	Heated
1/	Main	1420	11360	No	2	2	1	Yes	Y	es	Yes
		Annual Prince Control		FLOOR	S						
Ÿ	# Floor Type	Space	Perin	neter	R-Value	Area				Wood	Carpet
	1 Slab-On-Grade Edge	Insulatio Ma	ain 208	ft	0	1420 ft²	10 0 P P		0.5	0	0.5
				ROOF							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
proceedings in the desire	1 Hip	Composition shing	les 1645 ft²	0 ft²	Medium	0.96	No	0.9	No	0	30.3
)				ATTIC	>						
√,	# Type	Ventila	ation	Vent Ratio	(1 in)	Area	RBS	IRCC			
,	1 Full attic	Vent	ted	300	•	1420 ft²	N	N			
1/1				CEILIN	G			, , , , , , , , , , , , , , , , , , ,		<u> </u>	
V:,	# Celling Type		Space	R-Value	A	rea	Framing	Frac	Tri	uss Typ	8
	1 Under Attic (Ve	inted)	Main	30	14	20 ft²	0.11			Wood	

				•		WA	LLS								
V #	Ornt	Adj: To	icent Wal	Туре	Space	Cavity R-Value	Wid —_Ft	th in	H Et	elght In	Area	Sheathing R-Value	Framing Fraction	Sola Abso	r Below
1	N	Exter		ce Brick - Wood	Main	13	35	0	8	0	280 ft²	0	0.23	0.75	
	E	Exter	lor Fa	ce Brick - Wood	Main	13	20	6	8	0	164 ft²	0	0.23	0.75	5 0
<u>∵</u> 3	s	Exter	ior Fa	ce Brick - Wood	Main	13	35	0	8	0	280 ft²	0	0.23	0.75	5 0
4	E	Exter	ior Fa	ce Brick - Wood	Main	13	20	8	8	0	165.3333	0	0.23	0.75	5 0
5	N	Exter	ior Fa	ce Brick - Wood	Main	13	29	10	8	0	238.6666	0	0.23	0.75	5 (
6	E	Exter	ior Fa	ce Brick - Wood	Main	13	17	0	8	0	136 ft²	0	0.23	0.78	5 (
7	E	Exter	ior Fa	ce Brick - Wood	Main	13	11	6	8	0	92 ft²	0	0.23	0.75	5 (
8	s	Exter	ior Fa	ce Brick - Wood	Main	13	16	0	8	0	128 ft²	0	0.23	0.75	5 (
9	W	Exter	ior Fa	ce Brick - Wood	Main	13	11	6	8	0	92 ft²	0	0.23	0.78	5 (
10	S	Exter	ior Fa	ce Brick - Wood	Main	13	13	10	8	0	110.6666	0	0.23	0.78	5 (
11	W	Exter	ior Fra	me - Wood	Main	13	17	0	8	0	136 ft²		0.23	0.7	5 (
12	W	Exter	ior Fra	ime - Wood	Main	13	20	6	8	0	164 ft²		0.23	0.78	5 (
						DO	ORS	***************************************							
\checkmark	#	C	rnt	Door Type	Space			Storms	3	U-Val	lue Fi	Width In	Heigh Ft	t In	Area
	1		N	Insulated	Main			None		0.4600			6		17,77777
**********	2		S	Insulated	Main			None		0.4600			6	8	20 ft²
	3		S	Insulated	Main			None		0.4600			6	8	20 ft²
()	4		s	Insulated	Main			None		0.4600			6	8	20 ft²
r	5		N	Insulated	Main			None		0.4600	000 2	8	6	8	20 ft²
	6		E	Insulated	Main			None		0.4600	000 2	8	6	8	20 ft²
one spinstellier	7		E	Insulated	Main			None		0.460	000 2	8	6	8	20 ft²
	in			Or	iontation ch	WIN lown is the e	DOWS		ad or	·ientatio					
жалын) 1 /	والمستوالين	W	alí	Y.	icitation sil	OWIT IS LIC C.	nereo, r	Торове		IGITIALIO		hang			
<u> </u>	# (Ornt II		Panes	NFRC	U-Factor	SHGC			Area		Separation	Int Sh	ade	Screeni
	1	N 1	Vinyl	Double (Tinted)	Yes	0.34	0.31			45 ft²	1 ft 8 in	1 ft 6 in	Drapes/	blinds	None
ē.	2	E 2	Vinyl	Double (Tinted)	Yes	0.34	0.31			60 ft²	1 ft 8 in	1 ft 6 in	Drapes/	blinds	None
· ·	3	N 5	Vinyl	Double (Tinted)	Yes	0.34	0.31			40 ft²	20 ft 8 in	1 ft 6 in	Drapes/	blinds	None
	4	E 6	Vinyl	Double (Tinted)	Yes	0.34	0.31			30 ft²	9 ft 8 in	1 ft 6 in	Drapes/	blinds	None
met-frances and some	5	E 7	Vinyl	Double (Tinted)	Yes	0.34	0.31			15 ft²	1 ft 8 in	1 ft 6 in	Drapes/	blinds	None
	6	S 8	Vinyl	Double (Tinted)	Yes	0.34	0.31			16 ft²	1 ft 8 in	1 ft 6 in	Drapes/	blinds	None
	7	W 9	Vinyl	Double (Tinted)	Yes	0.34	0.31			15 ft²	1 ft 8 in	1 ft 6 in	Drapes/	blinds	None
						MFILT	RATIC	N		·					
s	cope		Method		SLA	CFM 50	ELA		Eql.	.A	ACH	AC	H 50		·
		e Be	st Guess	0.00		1862.3	102.24						363		

,					HEAT	ring sys	STEM						
V	#	System Type		Subtype			Efficiency	/ Car	acity		Block	Du	icts
Harrist Charles	1	Electric Heat Pu	mp	None			HSPF: 8.6	5 42 kl	3tu/hr		1	sys	s#1
					COO	LING SY	STEM						
$\sqrt{}$	#	System Type		Subtype			Efficiency	Capacity	Air F	low SH	IR Block	Du	icts
unavanore	1	Central Unit		None			SEER: 13	42 kBtu/hr	1260	cfm 0.7	75 1	sys	3#1
			A CONTRACTOR OF THE STATE OF TH		нот w	ATER S	YSTEM						<u> </u>
V	#	System Type	SubType	Locati	on EF	C	ap	Use	SetPnt		Conservatio	n	
-	1	Electric	None	Main	0.92	40	gal	50 gal	120 deg		None		
				S	OLAR HO	T WATE	R SYSTE	EM	#				
V	FSEC Cert #		ame		System	Model#	Co	ollector Mode		lector rea	Storage Volume	FEF	
	None	None		*************	····					ft²			
						DUCTS							
V .	#	Supp Location R-	ply -Value Area	Locat	Return ion Area	Leak	age Type	Air Handler	CFM 25	Percent Leakage	QN RLF	HV/ Heat	AC# Cool
-	1	Attic	6 284 ft²	Atti	c 71 ft²	Defaul	t Leakage	Main	(Default)	(Default) %	6	1	1
					TEM	PERATU	IRES						
Program	able Th	ermostat: None			Ceiling Fan	s:							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cooling Heating Venting		an [] Feb an [X] Feb an [] Feb	X Mar X Mar X Mar	Apr Apr X Apr	[] May [] May [] May	(X) Jun Jun Jun	DC] Jul Jul Jul	(X) Aug Aug Aug	X Sep Sep Sep	[X] O	ct [] Nov ct [X] Nov ct [X] Nov	X	Dec Dec Dec
Schedule		lule: HERS 200	06 Reference 1	2	3 4	5	Ho 6	ours 7	8	9	10 11	1	12
Cooling (V	VD)	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
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
Heating (V	VD)	AM PM	68 68		38 68 38 68	68	68 68	68 68	68 68	68	68 68 68 68	-	78 68 68
, Heating (V						68 68	68 68			68 68			
		AM PM	68 68	68 68	38 68 58 68	68 68	68	68 68	68 68	68 68	68 68 68 68		68 68

FORM 405-10

Florida Code Compliance Checklist

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

ADDRESS: 615 NW Lona LP

PERMIT #:

Lake City, FL, 32055-

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.	
1	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.	
Çeilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 80

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

615 NW Lona LP, Lake City, FL, 32055-

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 (ft²) 7. Windows** Description a. U-Factor. Dbl, U=0.34 SHGC: SHGC=0.31	Addition Single-family 1 2(2) No 1420 Area 221.00 ft²	 Wall Types a. Face Brick - Wood, Exterior b. Frame - Wood, Exterior 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: Main 	Insulation R=13.0 R=13.0 R= R= Insulation R=30.0 R= R=	1686.70 ft² 300.00 ft² ft² ft²
b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth Area Weighted Average SHGC:	ft² ft² ft² c: 6.192 ft. 0.310	12. Cooling systems a. Central Unit13. Heating systems a. Electric Heat Pump	kBtu/hr 42.0 kBtu/hr 42.0	Efficiency SEER:13.00 Efficiency HSPF:8.50
8. Floor Types a. Slab-On-Grade Edge Insulation b. N/A c. N/A	Insulation Area R=0.0 1420.00 ft² R= ft² R≈ ft²	 14. Hot water systems - Replacement equip a. Electric b Conservation features None 15. Credits 	ment Ca	p: 40 gallons EF: 0.92 CF

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:	THE PARTY OF
Address of New Home:	City/FL Zip:	TAN COD WE TRUST

*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.

EnergyGauge® USA - FlaRes2010 Section 405.4.1 Compliant Software

Florida Code Summary Report

Larry and Lorena Regan 615 NW Lona LP Lake City, FL, 32055-Registration #:

Title: 170_Regan FLAsBuilt

TMY City: FL_JACKSONVILLE_ Elec Util: Florida Average Gas Util: Florida Average Run Date:

Energy Uses	Reference Home	Proposed Home	e-Ratio
Heating	4.07 MBtu	2.85 MBtu	0.70
Cooling	8.90 MBtu	7.25 MBtu	0.81
Hot Water	3.06 MBtu	3.06 MBtu	1.00
Total	16.02 MBtu	13.15 MBtu	0.82
Building Loads	Reference Home	Proposed Home	e-Ratio
Heating	7.19 MBtu	5.04 MBtu*	0.70
Cooling	20.42 MBtu	16.63 MBtu*	0.81
Hot Water	2.80 MBtu	2.80 MBtu*	1.00
Total	30.41 MBtu	24.47 MBtu	0.80
* normalized modified k	pads		
Glass/Floor Area: 0.	156 Total Proposed Modif	ied Loads: 24.47	DACC
	Total Referenc		PASS