FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 62 M Street:	other Inlaw Suite		Builder Name: Permit Office:	
City, State, Zip: , FL,			Permit Number:	
Owner:			Jurisdiction:	
Design Location: FL, Gain	esville		County: Columbia(Florida	Climate Zone 2)
New construction or existing	ng New (F	rom Plans)	10. Wall Types(1071.0 sqft.)	Insulation Area
2. Single family or multiple fa	mily	Detached	a. Frame - Wood, Exterior	R=13.0 1071.00 ft ²
3. Number of units, if multiple	family	1	b. N/A c. N/A	$R = ft^2$ $R = ft^2$
4. Number of Bedrooms		1	d. N/A	$R = ft^2$
5. Is this a worst case?		No	11. Ceiling Types(832.0 sqft.)	Insulation Area
Conditioned floor area abo	ve grade (ft²)	832	a. Under Attic (Unvented)	R=30.0 832.00 ft ²
Conditioned floor area belo		0	b. N/A c. N/A	$R= ft^2$ $R= ft^2$
7. Windows(105.0 sqft.) De	escription	Area	12. Ducts, location & insulation leve	0
a. U-Factor: Db	ol, U=0.26	105.00 ft ²	a. a. Sup: Attic, Ret: Attic, AH: M	
	HGC=0.20	ft ²	b.	
b. U-Factor: N/ SHGC:	А	π	c. 13. Cooling Systems	kBtu/hr Efficiency
c. U-Factor: N/ SHGC:	A	ft ²	a. Central Unit	18.0 SEER:15.00
Area Weighted Average Ove	erhang Depth:	4.471 ft		
Area Weighted Average SH	GC:	0.200	14. Heating Systems	kBtu/hr Efficiency
	escription	Area	a. Electric Heat Pump	18.0 HSPF:8.50
U-Factor:(AVG) N/		N/A ft ²		
SHGC(AVG): N/		_	15. Hot Water Systems	
Floor Types a. Slab-On-Grade Edge Inst	Insulation ulation R= 0.0	Area 832.00 ft ²	a. ElectricTankless	Cap: 1 gallons
b. N/A	R= 0.0	632.00 II ft ²	h Companyation footunes	EF: 0.920
c. N/A	R=	ft ²	b. Conservation features	None
			16. Credits	CF, Pstat
Glass/Floor Area: 0.126	Total Pi	roposed Modifie		DACC
		Total Baselir	ne Loads: 29.94	PASS
I hereby certify that the plans			Review of the plans and	THE STAN
this calculation are in complia Code.	nce with the Florida E	nergy	specifications covered by this calculation indicates compliance	JON DO TO
<i>(</i>)	W.		with the Florida Energy Code.	8/10/21
PREPARED BY:	m		l n	OR
0.00.00			this building will be inspected for	GREA
DATE: 6.22.22			compliance with Section 553.908 Florida Statutes.	* ***
I hereby certify that this building	ng, as designed, is in	compliance	i ionua Statutes.	12 3
		1	Review f	or Code Compliance
with the Florida Energy Code. OWNER/AGENT	Singue		BUILDING OFFICIAL: Universa	I Engineering Science
DATE:	<i></i>		DATE:	PX2707 06/30/2022
0	Cartles by the slab		nufacturer that the air handler enclo	

- 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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.000 Qn for whole house.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PROJI	ECT						
Title: Building Type: Owner: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construc Comment:	Detached New (From Plai		Bedrooms Conditione Total Stor Worst Cas Rotate An Cross Ver Whole Ho Terrain: Shielding:	ed Area: ies: se: gle: ntilation: use Fan:	1 832 1 No 0 Suburban Suburban	Lot # Block PlatE Stree Cour	k/SubDivisi sook: et:	Lot 62 on: Preserves Columbia , FL,			
				CLIMA	ATE						
Design Location		Tmy Site		Design 97.5%	n Temp 2.5%	Int Desig Winter S		Heating Degree Days	Design Moisture		ily temp nge
FL, Gainesv	rille	FL_GAINESVILLE_	REGIONA	32	92	70	75	1305.5	51	Medi	um
				BLOC	KS						
√ Number	Name	Area	Volu	ıme							
1	Block1	832	7488	i							
				SPAC	ES						
√ Number	Name	Area	Volume	Kitchen	Occupants	s Bedr	ooms	Finished	Coo	led F	leated
1	Main	832	7488	Yes	2	1		Yes	Ye	es	Yes
				FLOO	RS		(Total I	Exposed A	rea = 8	332 sq	.ft.)
√# Floor i	Гуре	Space	Exposed I	Perim Pe	erimeter R-V	alue Area	U-Facto	or Joist R-Value	e Tile	Wood	Carpet
1 Slab-On	-Grade Edge Ins	Main	120	ı	0	832	ft 0.520)	0.10	0.75	0.15
				ROC)F						
√# Type		Materials			Sable Root Area Colo		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
1 Gable or	rshed	Composition shingle	es 100	00 ft ² 27	8 ft ² Mediu	m N	0.85	No 0.9	No	0	33.69
				ATT	IC						
√# Type		Ventilation	ı	Vent Ra	tio (1 in)	Area	RBS	IRCC			
1 Full attic	;	Vented		30	00	832 ft²	N	N			
				CEILI	NG		(Total I	Exposed A	rea = 8	332 sq	.ft.)
√# Ceiling	д Туре		Space	R-Valı	ue Ins. Ty	pe Are	a U-F	actor Framinç	g Frac.	Trus	s Type
1 Under A	ttic(Vented)		Main	30.0				053 0.1		W	ood
				<u> —</u> Г		eview fo	or Code Engine	Compliance	-		

INPUT SUMMARY CHECKLIST REPORT

	WALLS								(Total Exposed Area = 1071 sq.ft.)										
\/ # C	Ornt	-	icent o	Wall Type		Space		Cavity R-Value	Widt Ft		Heigl Ft		Area sq.ft.	U- Factor	Shea r R-Val		rm. So ac. A		Below Grade
123456	S W N E N E		Exterior Exterior Exterior Exterior Exterior Exterior	Frame - Woo Frame - Woo Frame - Woo Frame - Woo Frame - Woo Frame - Woo	od od od od	Maii Maii Maii Maii Maii	n n n	13.0 13.0 13.0 13.0 13.0 13.0	29.0 31.0 14.0 5.0 13.0 26.0	0 8 0 4	9.0 9.0 9.0 9.0 9.0 9.0	0 0 0	261.0 279.0 132.0 45.0 120.0 234.0	0.087 0.087 0.087 0.087 0.087	7 0.62 7 0.62 7 0.62 7 0.62	5 0.2 5 0.2 5 0.2 5 0.2	23 (23 (23 (23 (0.75 0.75 0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 % 0 %
	DOORS (Total Exposed Area = 40 sq.ft.)																		
# 0	Ornt		Adjacent	To Door Type)	Space		Sto	orms		U-Val	ue		idth t In		Height Ft In		Are	a
1	N E		Exterio Exterio			Main Main			None None		0.4 0.4	-	3.00 3.00	0 0	6.00 6.00		8 8	20.0° 20.0°	-
	WINDOWS (Total Exposed Area = 105 sq.ft.)									t.)									
\/ # C	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp S	Storm	Area	[O Depth	verhan Separ	•	Interio	r Shad	le	Scree	ening
1 S 2 V 3 N 4 N 5 E	ν ν Ξ	1 2 3 5 6 6	Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	Yes Yes Yes Yes Yes	0.26 0.26 0.26 0.26 0.26 0.26	0.20 0.20 0.20 0.20 0.20 0.20	N N N N N	N N N N N	30.0ft ² 6.0ft ² 15.0ft ² 15.0ft ² 30.0ft ² 9.0ft ²	1.0 2 1.0 2 1.0 2 9.0	0 ft 6 in 0 ft 6 in	2.0 ft 2.0 ft 2.0 ft 2.0 ft	4 in 4 in 4 in 4 in	N N N	lone lone lone lone lone		No No No No No	ne ne ne ne
							INFIL	TRA	TION	1									
√# S	Scope)	Me	ethod	SI	_A CF	M50	ELA	Ed	ηLA	ACH	1 /	ACH50			Spa	ce(s)		
1	Who	olehou	se Prop	posed ACH(50)	0.00	029 6	24	34.23	64	.27	0.102	27	5.0			P	All		
							ľ	MASS	3										
\ #	Mas	в Тур	e		Ar	ea		Thickne	ess	F	urniture	e Fraction	n		Space				
1	Defa	ault(8	lbs/sq.ft.)		0	ft²		0 ft			0.	.30			Main				
HEATING SYSTEM																			
V #	Sys	tem Ty	/pe		Subtype/S	Speed	AHRI #	Eff	iciency		pacity stu/hr	(Entry		ermal H wer	leatPun Volt		Duc nt	ts E	Block
1	Elec	ctric He	eat Pump	1	None/Si	ngle		HSF	PF: 8.50) 1	8.0		0.	00	0.00	0.00	sys#	<u>+</u> 1	1
	COOLING SYSTEM																		
V #	Sys	tem Ty	/pe		Subtype/S	Speed	AHRI#	E	fficienc	у		acity tu/hr	А	ir Flow cfm		SHR	Duc	et E	Block
1	Cer	tral Ur	nit		None/	Single		S	EER:15	5.0 1	8.0			540	().85	sys#	<u>+</u> 1	1



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INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM													
/ # System Type	Subtype		Location		EF(UEF)	Сар	Use	SetPnt	Fixture	Flow P	ipe Ins.	. Pipe	e length
1 Electric	Tankless	i	Exterior		0.92 (0.92)	1.00 gal	40 gal	120 deg	Stand	dard	None		99
Recirculation System		c Control Type		Loop length	Branch length	Pump power	DWHR	Faciliti Connec	1		OWHR Eff	Othe	r Credits
1 No				NA	NA	NA	No	NA	N/	A 1	NΑ	Nor	ie
DUCTS													
DuctSu # Location	ıpply R-Value A		Retu ation I			.eakage T	- уре	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF H	HVAC # leat Cool
1 Attic	6.0 166	ft ² Attic		6.0	42 ft² D	efault Lea	kage	Main	(Default) (Default)			1 1
				Т	EMPER	ATUF	RES						
Programable Thern Cooling [] Jan Heating [X] Jan Venting [] Jan	nostat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	۱[] ۱[]	May [].	Jun Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] Oct [] Oct [X] Oct	[X] Nov (] Nov (] Nov	[] Dec [X] Dec [] Dec
Thermostat Sche Schedule Type	dule: HERS 2	2006 Refere 1	ence 2	3	4	5	Hou 6	ırs 7	8	9	10	11	12
Cooling (WD)	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 (WEH)	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 (WD)	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 (WEH)	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



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 93

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

"FL,

 New construction or ex 	New (From Plans)	10). Wall Types(1071.0 sqft.)	Insulation		
2. Single family or multiple	Detached		,	R=13.0	1071.00 ft ²	
3. Number of units, if mult	1		b. N/A c. N/A	R= R=	ft ² ft ²	
4. Number of Bedrooms	1		d. N/A	R=	ft ²	
5. Is this a worst case?	No	11	I. Ceiling Types(832.0 sqft.)	Insulation	•	
6. Conditioned floor area Conditioned floor area	,		a. Under Attic (Unvented) b. N/A c. N/A	R=30.0 R= R=	832.00 ft ² ft ² ft ²	
7. Windows** a. U-Factor: SHGC: b. U-Factor:	Description Dbl, U=0.26 SHGC=0.20 N/A	Area 105.00 ft	2	2. Ducts, location & insulation level a. a. Sup: Attic, Ret: Attic, AH: Main b. c.		R ft ² 6 166.4
SHGC: c. U-Factor: SHGC:	N/A	ft	13	a. Cooling Systems a. Central Unit	kBtu/hr 18.0	Efficiency SEER:15.00
Area Weighted Average Area Weighted Average 8. Skylights U-Factor:(AVG)	• .	n: 4.471 ft 0.200 Area N/A ft	14	Heating Systems a. Electric Heat Pump	kBtu/hr 18.0	Efficiency HSPF:8.50
SHGC(AVG): 9. Floor Types a. Slab-On-Grade Edge b. N/A	N/A Ins	sulation Area 0.0 832.00 f	15 't ² 't ²	5. Hot Water Systems a. ElectricTankless	Ca	ip: 1 gallons EF: 0.920
c. N/A	R=	1	't ²	b. Conservation featuresc. Credits		None CF, 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: Aaron Singus	Date:
0	
Address of New Home:	City/FL Zip: ,FL,

*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.

Review for Code Compliance
Universal Engineering Science

Examiner-License No.

PX2707 06/3

06/30/2022