## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

	Pacheco SD		Builder Name: KG Construction LLC					
Street:	City El 22055		Permit Office: Columbia County Permit Number:					
City, State, Zip: Lake Owner: N/A	City , FL , 32055		Jurisdiction:					
Design Location: FL, G	Gainesville		County: Columbia (Florida Climat	eZone 2)				
New construction or exist	ting	New (From Plans)	10. Wall Types(1476.7 sqft.)	Insulation Area				
2. Single family or multiple fa	amily	Detached	a. Frame - Wood, Exterior	R=13.0 1172.70 ft <sup>2</sup>				
Number of units, if multip	©:	1	b. Frame - Wood, Adjacent c. N/A	R=13.0 304.00 ft <sup>2</sup>				
Number of Bedrooms	,	3	d. N/A	R= ft² R= ft²				
5. Is this a worst case?		No	11. Ceiling Types (1586.0 sqft.)	Insulation Area				
Conditioned floor area about	ovo grado (#²)	1511	a. Under Attic (Vented) b. N/A	R=38.0 1586.00 ft <sup>2</sup> R= ft <sup>2</sup>				
Conditioned floor area bel		0	c. N/A	R= ft²				
7. Windows (134.9 sqft.)	Description	Area	12. Ducts	R ft²				
a. U-Factor:	Dbl, U=0.36	134.89 ft²	a. Sup: Attic, Ret: Attic, AH: Garage	6 377				
SHGC:	SHGC=0.25							
b. U-Factor: SHGC:	N/A	ft²	13. Cooling systems a. Central Unit	kBtu/hr Efficiency 15.9 SEER:16.00				
c. U-Factor:	N/A	ft²	a. Central Onit	15.9 SEER.16.00				
SHGC:			44 11-46	10.4. 5				
Area Weighted Average C	10770	3.001 ft.	14. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 24.4 HSPF:8.20				
Area Weighted Average \$ 8. Skylights	SHGC:	0.250 Area		2 11 1 110 1 1 1 1 1 1 1				
c. U-Factor:(AVG)	N/A	ft²	15. Hot water systems					
SHGC(AVG):	N/A		a. Electric	Cap: 40 gallons				
9. FloorTypes (1511.0 sqf		ulation Area		EF: 0.920				
<ul> <li>a. Slab-On-Grade Edge In</li> <li>b. N/A</li> </ul>	nsulation R=0 R=	0.0 1511.00 ft² ft²	b. Conservationfeatures None					
c. N/A	R=	ft²	16. Credits	CV, Pstat				
				CV, FStat				
Glass/Floor Area: 0.0	)89	Total Proposed Modifie		PASS				
		Total Baseline	e Loads: 38.21	17100				
				THE CO.				
I hereby certify that the p this calculation are in cor			Review of the plans and					
Code.	inpliance with the	n londa Energy	specifications covered by this calculation indicates compliance					
HELITARIO SINTA CINO CONTROLLIS HAVIROS INSCINENCIAS	10	/	with the Florida Energy Code.	5				
PREPARED BY: DATE:	7 //	1/707/	Before construction is completed	REAT				
DATE:	7/	1000	this building will be inspected for compliance with Section 553.908	10				
I hereby certify that this b	building as design	ned is in compliance	Florida Statutes.					
with the Florida Energy C		iou, io in compilation		GOD WE TRUS				
OWNER/AGENT			BUILDING OFFICIAL:					

- 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).

DATE:

DATE:

INPUT SUMMARY CHECKLIST REPORT

				PROJE	СТ							
Title: Building Ty Owner Nar # of Units: Builder Na Permit Offi Jurisdiction Family Typ New/Existi Comment:	me: N/A 1 me: KG Construction ce: Columbia Cour n: ne: Detached ng: New (From Pla	on LLC nty	Bedrooms Conditions Total Stori Worst Cas Rotate And Cross Ven Whole Hor	ed Area: es: se: gle: tilation:	3 1511 1 No 0 Yes No		Lot# Block PlatE Stree Cour	k/Subdivis Book: et:	2 ion: Pa	t Information scheco SD olumbia ke City , , 3205		
				CLIMA	TE							
<b>/</b>	Design Location	TMY Site			esign Temp 5 % 2.5 %		esign Tem er Summ		eating ee Days	Design Moisture		/ Tem ange
	FL, Gainesville	FL_GAINESVILL	E_REGI	3	2 92	70	75	13	305.5	51	М	ediun
				BLOCK	KS	4						
Number	Name	Area	Volume									
1	Block1	1511	12088									
				SPACE	ES							
Number	Name	Area	Volume	Kitchen	Occupants	Bedroo	ms li	nfil ID F	inished	Cool	ed	Hea
1	Main	1511	12088	Yes	3	3	1	)	/es	Yes		Yes
				FLOOF	RS							
V :	# Floor Type	Space	e Peri	meter	R-Value	Area				Tile Woo	od Ca	arpet
	1 Slab-On-Grade Edge	Insulation N	Main 190	ft	0	1511 ft²				0 0		1
				ROOF								
./			Roof	Gable	Roof	Rad	Solar	SA	Emitt	Emitt	Deck	Pite
V ;	# Type	Materials	Area	Area	Color	Barr	Absor.	Tested		Tested	Insul.	(de
	1 Hip	Composition shin	gles 1689 ft²	O ft²	Light	Υ	0.96	No	0.9	No	0	26.
				ATTIC	;						,	
V .	# Type	Vent	ilation	Vent Ratio	(1 in)	Area	RBS	IRC	С			
	1 Full attic	Arec Arec	nted	300	V/	1511 ft²	Y	N				
				CEILIN	G							
	# Ceiling Type		Space	R-Value	Ins T	vne	Area	Frami	ng Frac	Truss	Type	-
V #	Cenning Type		Opace	1 Value	1113 1	ypc	Alca	1 / Carrin		11000	100	

### INPUT SUMMARY CHECKLIST REPORT

								WA	LLS							
V	/ #	Ornt		djace Fo	nt Wall	Туре	Space	Cavity R-Value	Wic	th In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
	1	S	Ext	erior		me - Wood	Main	13	33		8	264.0 ft <sup>2</sup>		0.23	0.75	(
	2	E	Ga	rage	Fran	me - Wood	Main	13	18		8	144.0 ft <sup>2</sup>		0.23	0.75	(
	3	S	Ga	rage	Fran	me - Wood	Main	13	20		8	160.0 ft <sup>2</sup>		0.23	0.75	(
	4	S	Ext	erior	Fran	me - Wood	Main	13	8	8	8	69.3 ft <sup>2</sup>		0.23	0.75	(
	5	E	Ext	erior	Fran	me - Wood	Main	13	10		8	80.0 ft <sup>2</sup>		0.23	0.75	(
	6	N	Ext	erior	Fran	me - Wood	Main	13	61	8	8	493.3 ft <sup>2</sup>		0.23	0.75	(
	7	W	Ext	erior	Fran	me - Wood	Main	13	33	3	8	266.0 ft <sup>2</sup>		0.23	0.75	(
								DO	ors							
V	/	#		Ornt		Door Type	Space			Storms	U-Va	lue Ft	Width In	Height Ft I	n	Area
		1		S		Insulated	Main			None	.46	VI 1990	8	100000		7.8 ft²
		2		s		Insulated	Main			None	.46					40 ft²
		3		Ν		Insulated	Main			None	.46					20 ft²
							Orientation sh		DOWS		orientation					
/	,		V	Vall			mentations	own is the e	itered, r	Toposed	onemation	Over	hang			
V	#	<b>#</b> C	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Depth	Separation	Int Sha	de :	Screeni
	_ 1	1	S	1	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	45.0 ft <sup>2</sup>	6 ft 0 in	1 ft 0 in	None		None
_	_ 2	2	E	5	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
_	_ :	3	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	45.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	_ 4	4	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	N	9.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	_	5	N	6	Vinyl	Low-E Double	Yes	0.36	0.25	Ν	20.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	_ 6	6	W	7	Vinyl	Low-E Double	Yes	0.36	0.25	N	6.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None		None
	_ 7	7	S	4	Vinyl	Low-E Double	Yes	0.36	0.25	N	3.9 ft²	1 ft 6 in	1 ft 0 in	None		None
								GAF	RAGE							
V		#		Floor	Area	Ceilin	g Area	Exposed V	Vall Per	meter	Avg. W	all Height	Expose	d Wall Ins	ulation	
	-	1		466	6 ft²	466	ft²	48	333 ft		t	3 ft		1		
								INFILT	RATIC	N						
	Sco	ре		M	ethod		SLA	CFM 50	ELA	E	qLA	ACH	ACH	50		
١	Whole	house	F	ropo	sed ACI	H(50) .00	0254	1007.3	55.27	10	3.75	.098	5			
								HEATING	SYS	ГЕМ						
		#	Syste	em Ty	ре	Sı	ıbtype	Speed		Efficienc	у	Capacity		В	lock	Ducts
		1	Elect	ric He	eat Pum	p/ No	ne	Single	3	HSPF:8.	2 24	.38 kBtu/hr			1	sys#1

INPUT SUMMARY CHECKLIST REPORT

					COOL	ING SYS	TEM							
$\sqrt{}$	# S	System Type		Subtype	Sub	type I	Efficiency	Capacity	Air	Flow	SHR	Block	Di	ucts
	1 0	entral Unit/		None	Sing	gle S	SEER: 16	15.87 kBtu/h	nr 480	cfm	0.75	1	sy	s#1
					нот w	ATER SY	STEM							
$\sqrt{}$	#	System Type	SubType	Location	n EF	Ca	р	Use	SetPnt		Co	nservatio	n	
	1	Electric	None	Garage	0.92	40 g	al	40 gal	120 deg			None		
				sc	LAR HO	T WATER	SYSTE	≣M						
$\checkmark$	FSEC Cert #	CompanyN	lame		System	Model#	Co	ollector Model		ollector Area	Stor Volu	age ıme	FEF	
	None	None								ft²				
						DUCTS								
$\checkmark$	#	and the second s	pply R-Value Area	R Locatio	Return n Area	Leakaç	јеТуре	Air Handler	CFM 25 TOT	CFM:		RLF	HV. Heat	AC#
	1	Attic	6 377 ft²	Attic	75.55 ft²	Default	Leakage	Garage	(Default)	c(Defa	ult) c		1	1
					TEM	PERATUR	RES							
Program	ableTher	mostat: Y		1	Ceiling Fans	:								
Cooling Heating Venting	X) Ja X) Ja Ja	n []Feb n [X]Feb n []Feb	[ ] Mar [X] Mar [X] Mar	Apr Apr (X) Apr	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		Dec Dec Dec
hermosta		e: HERS 20	006 Reference	<i>p</i> 8				ours						
Schedule T			1	2 3	4	5	6	7	8	9	10	11		12
Cooling (W	D)	AM PM	78 80	78 78 80 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	5	30 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	7	78 78
leating (W	D)	AM PM	66 68	66 66 68 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		88
leating (W	EH)	AM PM	66 68	66 66 68 68		66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	8 6
		FIVI	00	00 00	00	MASS	00	00	00	00	- 00	00		0
Ma	ss Type			Area		Thickness		Furniture Frac	ction		Space			
De	fault(8 lbs	s/sq.ft.		0 ft²		0 ft		0.3			Main			

## **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

#### ESTIMATED ENERGY PERFORMANCE INDEX\* = 95

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

, Lake City, FL, 32055

1.	New construction or exis	New (Fr	om Plans)	10. Wall Type and Insulation	Insulation	A	rea		
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1172.			
3.	Number of units, if multi	ple family	1		<ul><li>b. Frame - Wood, Adjacent</li><li>c. N/A</li></ul>	R=13.0 R=	304.	00 ft² ft²	
	Number of Bedrooms	,	3		d. N/A	R=		ft <sup>2</sup>	
- 52	Is this a worst case?	No		11. Ceiling Type and insulation level a. Under Attic (Vented)	Insulation R=38.0				
6.	Conditioned floor area (f	1511		b. N/A	R=	1000.	ft²		
7.	Windows**	Description		Area	c. N/A	R=		ft²	
	a. U-Factor: SHGC:	Dbl, U=0.36 SHGC=0.25		134.89 ft²	<ol> <li>Ducts, location &amp; insulation level a. Sup: Attic, Ret: Attic, AH: Garage</li> </ol>		R 6	ft² 377	
	b. U-Factor:	N/A		ft²					
	SHGC:				13. Cooling systems	kBtu/hr	Effici	ency	
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit	15.9	SEER:	16.00	
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr	Effici		
Area Weighted Average Overhang Depti Area Weighted Average SHGC:				3.001 ft. 0.250	a. Electric Heat Pump	24.4	HSPF:8.20		
	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	p: 40 g EF	allons : 0.92	
ç	FloorTypes     a. Slab-On-Grade Edge Insulation     b. N/A		Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1511.00 ft² b. N/A R= ft²		<ul> <li>b. Conservationfeatures</li> <li>None</li> </ul>				
					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:	Date:
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: KG Construction LLC Community:	Lot: 2							
Address:								
City: Lake City State:	: FL Zip: 32055							
Air Leakage Test Results Passing results must meet e	either the Performance, Prescriptive, or ERI Method							
PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climater Company (1997) in								
PERFORMANCE or ERI METHOD-The building or dwelling unit shall the selected ACH(50) value, as shown on Form R405-2020 (Performance) of ACH(50) specified on Form R405-2020-Energy Calc								
CFM(50) × 60 ÷ 12088 = ACH(50)  PASS	Method for calculating building volume:  Retrieved from architectural plans Code software calculated							
When ACH(50) is less than 3, Mechanical Ventilation installation Field measured and calculated 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/orida 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 united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be conducted by the party conduction or the original shall be performed at any time after creation of all penetrations of the united in the original shall be performed at any time after creation of all penetrations of the united in the original shall be penetrations of the united in the original shall be united in the original shall								
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 turned off.  6. Supply and return registers, 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 accordance Energy Conservation requirements according to the compliance materials.	ce with the 2020 7th Edition Florida Building Code							
Signature of Tester:	Date of Test:							
Printed Name of Tester:	<del></del>							
License/Certification #:	Issuing Authority:							