ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CAR

ESTIMATED ENERGY PERFORMANCE INDEX* = FILE

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

Anyplace, Lake City, FL, 32055

2. 3. 4.	New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms Is this a worst case? Conditioned floor area (ft²) Windows** a. U-Factor: SHGC: b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: SHGC: Area Weighted Average Overhang Dept Area Weighted Average SHGC: 8. Skylights Description a. U-Factor(AVG): N/A		New (Fr Detache 1 3 No	om Plans) d	 Wall Type and Insulation Face Brick - Wood, Exterior Frame - Wood, Exterior Face Brick - Wood, Adjacent N/A Ceiling Type and insulation level Under Attic (Vented) 	Insulation R=13.0 R=13.0 R=13.0 R= Insulation R=30.0	1088.20 ft ² 201.44 ft ² 160.00 ft ² ft ²
	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.55 SHGC=0.45	1600	Area 111.00 ft² ft²	b. N/A c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Main	R= R=	ft ² ft ² R ft ² 6 400
	SHGC: c. U-Factor: SHGC: d. U-Factor:	N/A		ft²	Cooling systems a. Central Unit Heating systems	kBtu/hr	Efficiency Efficiency
	Area Weighted Average	SHGC: Description		2.446 ft. 0.450 Area ft²	a. Electric Heat Pump 15. Hot water systems a. Electric b. Conservation features	24.1 Ca	HSPF:8.40 ap: 50 gallons EF: 0.95
	 Floor Types a. Slab-On-Grade Edg b. N/A c. N/A 	e Insulation	Insulation R=0.0 R= R=	Area 1600.00 ft ² ft ²	None Credits (Performance method)		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:

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.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 $\mbox{AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA } \mbox{\ensuremath{}^{a}}$

Project Name:

Lot 36 Crosswinds sub

Street:

Anyplace

City, State, Zip: Lake City, FL, 32055

Owner:

Trent Giebeig

Builder Name: Trent Giebeig Permit Office: Columbia County

Permit Number: Jurisdiction:

Į,

			⊦
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls	ļ.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned space	es.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Duct Leakage Test Report

Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:		Permit #:						
Job Information								
Builder: Trent Giebeig	Community:		Lot: 36					
Address: Anyplace								
City: Lake City	State	: FL	Zip: 32055					
Duct Leakage Test Results								
System 1 cfm25 System 2 cfm25 System 3 cfm25	To qualify as equal to 0.04	if air handler unit is insta	otal) Qn Total must be less than or alled. If air handler unit is not or equal to 0.03. This testing					
Sum of others cfm25	method meets the requirements in accordance with Section R403 Is the air handler unit installed during testing? YES (=.04) N							
Total of all cfm25 Total of all cfm25 Total of all = Qn	O Performan To qualify usi	ce/ERI Method cfm						
PASS FAIL		rgyCalc) or R406-2020	Qn specified on Form R405-2020 (EnergyCalc) or R406-2020					
Duct tightness shall be verified by testing in ac 553.993(5) or (7), Florida Statutes, or individual Testing Company	ccordance with ANSI/ als licensed as set for	RESNET/ICC380 by either th in Section 489.105(3)(f)	r individuals as defined in Section), (g) or (i), Florida Statutes.					
Company Name: I hereby verify that the above duct leakage to selected compliance path as stated above, e	esting results are in a	Phone: ccordance with the Florida Method or Performance N	a Building Code requirements with the Method.					
Signature of Tester:		Date of Test:						
Printed Name of Tester:								
License/Certification #:		Issuing Autho	ority:					

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2020 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

	This checklist
	Form R405-2020 report
	Input summary checklist that can be used for field verification (usually four pages/may be greater)
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
	Mandatory Requirements (five pages)
Red	quired prior to CO:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2020 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report - Performance Method (usually one page)

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Lot 36 Crosswinds sub Street: Anyplace City, State, Zip: Lake City , FL , 32055 Owner: Trent Giebeig Design Location: FL, Gainesville	Builder Name: Trent Giebeig Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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 above grade (ft²) 7. Windows(111.0 sqft.) Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.45 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 0.450 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A 9. Floor Types (1600.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1600.00 ft² b. N/A R= ft² C. N/A R= ft² R= ft²	10. Wall Type\$1449.7 sqft.) a. Face Brick - Wood, Exterior b. Frame - Wood, Exterior c. Face Brick - Wood, Adjacent d. N/A 11. Ceiling Types (1600.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump 15. Hot water systems a. Electric b. Conservation features None 16. Credits Insulation Area R=13.0 160.00 ft² R=13.0 ft² R=13.0 ft² R=10.00 ft² R=10
Glass/Floor Area: 0.069	lodified Loads: 37.63 seline Loads: 38.62 PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: William H. Frasman DATE: 10/28/21	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 553 208

- 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 7.00 ACH50 (R402.4.1.2).

Florida Statutes.

DATE:

BUILDING OFFICIAL:

- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2

I hereby certify that this building, as designed, is in compliance

- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house.

with the Florida Energy Code.

OWNER/AGENT:

DATE:

INPUT SUMMARY CHECKLIST REPORT

					PROJ	ECT								
Title: Building Owner I # of Uni Builder Permit (Jurisdic Family ' New/Ex Comme	Name: its: Name: Office: ction: Type: kisting:	Lot 36 Crosswin User Trent Giebeig 1 Trent Giebeig Columbia Count Detached New (From Plan	y	Total Sto Worst Ca Rotate A Cross Ve	ned Area: ories: ase:	3 1600 1 No 0 No No		Lot # Block PlatE Stree Cour	c/Subdivis Book: et:	36 sion: Cr Ar Co D: La	ot Informat Frosswinds nyplace olumbia ake City ,	Sub		
ELLIN SERVICE					CLIMA	ATE								
√		ign Location Gainesville	TMY Si			Design Temp 7.5 % 2.5	% Winte	esign Tem er Summ 75	er Degr	eating ree Days 305.5			Tem inge ediun	
	, ,,	Camesville	TE_OAINEOVIE	EE_NEO	PI OC		. 70	73	1.	303.3		IVIE	ediuii	
-					BLOC	, NS							-/	
Numb	per	Name	Area	Volume						W				
1	Me M	Block1	1600	1280	SPAC	EG	A			to the contract				
Numb	ner	Name	Area	Volume	Kitchen	Occupants	Bedroo	me li	nfil ID I	Finished	l Coo	lod	Hea	
1	301	Main	1600	12800	Yes	3	3	1		Yes	Yes		Yes	
SVAMEN			the same of the same		FLOC	RS						-	_	
V	#	Floor Type	Spa	ce Pe	rimeter	R-Value	Area				Tile Wo	ood Ca	rnet	
		b-On-Grade Edge I			'8 ft	0	1600 ft²				0.25 0.		.25	
					ROC)F			TOST VIA					
V	#	Туре	Materials	Roo Area				Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pit (de	
	1	Gable or shed	Composition sh	ingles 1789 f	t² 400 f	t² Mediu	m N	0.75	Yes	0.9	Yes	0	26	
					ATT	IC				- t- 4) d				
\checkmark	#	Туре	Ver	ntilation	Vent Rat	io (1 in)	Area	RBS	IRO	cc				
	1	Full attic	V	ented	30	0	1600 ft²	N	N	ı				
					CEILI	NG								
$\sqrt{}$	#	Ceiling Type		Space	R-Valu	ie Ins	Туре	Area	Fram	ing Frac	Truss	Туре		
		Under Attic (Ven	tod)	Main	Main 30 Blown						Wood			

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

			NAME OF STREET			ar and a second				-			III - III III	-		
V #	Orni		Adjace To	nt Wall	Туре	Spac	e R-Value	Wic Et	ith In	H Et	eight In	Area		Framing Fraction		Belo
1	Ν	E	xterior		e Brick - Wood	Main	13	52	8	8		421.3 ft ²	0	0.23	0.75	
2	E	E	xterior	Fac	e Brick - Wood	Main	13	30	1	8		240.7 ft ²		0.23	0.75	
3	S	G	arage	Fac	e Brick - Wood	Main	13	20	0	8	0	160.0 ft ²		0.23	0.75	
4	S	E	xterior	Fran	ne - Wood	Main	13	13	10	9	4	129.1 ft²		0.23	0.75	
5	W	E	xterior	Fac	e Brick - Wood	Main	13	4	8	9	4	43.6 ft ²		0.23	0.75	
6	S	E	xterior	Fran	ne - Wood	Main	13	7	9	9	4	72.3 ft ²		0.23	0.75	
7	E	E	xterior	Fac	e Brick - Wood	Main	13	4	8	8	0	37.3 ft ²		0.23	0.75	
8	S		xterior	Fac	e Brick - Wood	Main	13	13	1	8		104.7 ft ²		0.23	0.75	
9	W	E	xterior	Fac	e Brick - Wood	Main	13	30	1	8		240.7 ft ²		0.23	0.75	
							DO	ORS								
\checkmark	#		Ornt		Door Type	Space			Storms	5	U-Valu	ie E	Width t In	Heigh Ft	it In	Area
	1		Ν		Insulated	Main			None		.46	6		6	8	40 ft²
	2		S		Insulated	Main			None		.46	2	. 8	6	8 1	7.8 ft ²
	3		S		Insulated	Main			None		.46	3		6	8	20 ft ²
					Orio	entation sh	WIN nown is the e	DOWS		ed ori	ientation	1:				
/			Wall	NI HACANA			AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO		-				rhang	Apple to the same		
V	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	lm	р	Area		Separation	Int Sha	ade	Screen
	1	N	1	Vinyl	Double (Tinted)	Yes	0.55	0.45	Ν		15.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/	olinds	None
-	2	Ν	1	Vinyl	Double (Tinted)	Yes	0.55	0.45	Ν		15.0 ft ²	0 ft 6 in	1 ft 0 in	Drapes/I	olinds	None
	3	Ν	1	Vinyl	Double (Tinted)	Yes	0.55	0.45	N	1	30.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/l	olinds	None
	4	E	2	Vinyl	Double (Tinted)	Yes	0.55	0.45	Ν		6.0 ft ²	1 ft 6 in	1 ft 0 in	Drapes/I	olinds	None
	5	S	4	Vinyl	Double (Tinted)	Yes	0.55	0.45	Ν	- 3	30.0 ft ²	5 ft 6 in	1 ft 0 in	Drapes/l	olinds	None
	6	S	8	Vinyl	Double (Tinted)	Yes	0.55	0.45	N		15.0 ft²	1 ft 6 in	1 ft 0 in	Drapes/l	olinds	None
							GAI	RAGE								
√ # Floor Area		Ceiling	Area	Exposed \	Wall Per	imeter		-	all Height	ight Exposed Wall Insulation						
_	1		400 ft² 400 ft				t ² 60 ft					8 ft				
1124							INFILT	RATIC	N							NEW DE LA COMPANIE DE
;	Scope		N	lethod		SLA	CFM 50	ELA	1.	EqL	A	ACH	ACI	H 50		

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

						HEAT	TING SYS	TEM							
\vee	# 8	System Type		Subty	уре	Spe	ed	Efficienc	y Ca	pacity			Block	Duc	ts
	1 E	Electric Heat Pu	imp/	None	9	Sin	igl	HSPF:8.4	4 24.08	kBtu/hr			1.	sys#	<i>‡</i> 1
						COOL	ING SYS	TEM				au - tog-b-a			
\vee	# 5	System Type		Subty	уре	Sub	otype	Efficiency	Capacity	Air	Flow	SHR	Block	Duct	ts
	1 (Central Unit/		Split		Sin	igl	SEER: 15	15.53 kBtu	/hr 480	cfm	0.75	1	sys#	‡1
						HOT W	ATER SY	STEM		N.					
\vee	#	System Type	SubType	Loc	cation	EF	Ca	ар	Use	SetPnt		Cor	nservatio	n	
	1	Electric	None	Ga	rage	0.95	50 (gal	60 gal	120 deg			None		
			X		SOI	AR HO	T WATER	SYSTE	EM						
\checkmark	FSEC Cert #	Company N	ame			System	Model #	C	ollector Mode		ollector Area	Stora		FEF	
	None	None	ame			Gystern	Wodel #		Director Wood	21 11	ft²	Void	IIIe	FEF	_
					-/-/	O COLUMN TO SERVICE	DUCTS			A	·//				
		Sup	nlv		Re	turn	50010		Air	CFM 25	CFM2	5		HVAC	
V	#	Location R			cation	Area	Leaka	ge Type	Handle		OUT		RLF	Heat (
	1	Attic	6 400 ft	2	Attic	100 ft²		sed Qn	Main	cfm	64.0 c	fm 0.04	0.50	1	1
		100				TEM	PERATU	RES				an traves			
Program	able The	rmostat: N			C	eiling Fan	s:								
Cooling Heating Venting	[X] Ja [X] Ja [X] Ja	n [X] Feb n [X] Feb n [X] Feb	[X] Mar [X] Mar [X] Mar	XX AF	or or or	X] May X] May X] May	[X] Jun [X] Jun [X] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	[X] Se [X] Se [X] Se	p [X p X p X	Oct Oct Oct	X Nov X Nov X Nov		ec
Thermosta		ile: FloridaCo							ours						
Schedule '			1	2	3	4	5	6	7	8	9	10	11	12	_
Cooling (V	/D)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	
Cooling (V	/EH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	
Heating (V	VD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	
Heating (V	VEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	
			W. Control of the Land				MASS	-					12	1 &	
Ma	ass Type			Are	а		Thickness		Furniture Fra	action	S	Space	edice in par		
De	fault(8 lb	s/sq.ft.		0 ft ²	2		0 ft		0.3			Main			