FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

QUALITY FAMILY HOMES BROOKS RES XXX SR 4 Builder Name: Project Name: Permit Office: XXX SR 47 Street: Permit Number: LAKE CITY, FL, 32025 City, State, Zip: Jurisdiction: QUALITY FAMILY HOMES Owner County: Columbia (Florida Climate Zone 2) Design Location: FL. Gainesville Area Insulation 1. New construction or existing New (From Plans) 10. Wall Type\$2493.0 sqft.) 2493.00 ft² a. Frame - Wood, Exterior R=13.0 2. Single family or multiple family Detached b. N/A R= ff2 3. Number of units, if multiple family c. N/A Rm ft2 d. N/A ft2 5 4. Number of Bedrooms 11. Ceiling Types (2570.0 sqft.) Insulation Area 5. Is this a worst case? a. Under Attic (Vented) R=30.0 2570.00 ft² 2570 b. N/A R= ff2 6. Conditioned floor area above grade (ft²) ft2 c. N/A R= Conditioned floor area below grade (ft²) R ft2 12. Ducts 7. Windows(253.3 sqft.) Description Area a. Sup: Attic, Ret: Attic, AH: Attic 1025 a. U-Factor: Dbl. U=0.33 253.33 ft² SHGC=0.28 SHGC: ft² 13. Cooling systems kBtu/hr Efficiency b. U-Factor: N/A 55.5 SEER:14.00 a. Central Unit SHGC: c. U-Factor: N/A ft2 SHGC: 14. Heating systems kBtu/hr Efficiency Area Weighted Average Overhang Depth: 1.000 ft. a. Electric Heat Pump 55.5 HSPF:8.20 Area Weighted Average SHGC: 0.280 8. Skylights Area c. U-Factor:(AVG) N/A ft2 15. Hot water systems SHGC(AVG): N/A Cap: 50 gallons a. Electric 9. Floor Types (2570.0 sqft.) Insulation Area EF: 0.920 b. Conservation features a. Slab-On-Grade Edge Insulation R=0.0 2325.00 ft² None R=19.0 245.00 ft² b. Floor over Garage CF. Pstat R= 16. Credits c. N/A Total Proposed Modified Loads: 64.84 PASS Glass/Floor Area: 0.099 Total Baseline Loads: 67.11 I hereby certify that the plans and specifications covered by Review of the plans and this calculation are in compliance with the Florida Energy specifications covered by this Code. calculation indicates compliance with the Florida Energy Code. Before construction is completed PREPARED BY: // this building will be inspected for compliance with Section 553.908 Florida Statutes. Review for Code Compliance I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. Universal Engineering Science BUIDDING OFFICIAL: OWNER/AGENT:___ Bill Ladson PX2707 11/18/2021 DATE: _

- 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 6.73 ACH50 (R402.4.1.2).
- 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 0.030 Qn for whole house.

INPUT SUMMARY CHECKLIST REPORT

	5-202		INPUTS			JECT									
Title: Building T Owner Na # of Units: Builder Na Permit Of Jurisdiction Family Ty New/Exist Comment	ame: fice: on: pe: ting:	QUALITY FAM User QUALITY FAM 1 Detached New (From Pla	ILY HOMES	Con- Tota Wor Rota Cros	rooms: ditioned Area: il Stories; st Case: ate Angle: ss Ventilation; ble House Fan	2 No 0 No			Lot # Block/S PlatBo Street: County		ion: X C C	XX SR olumbia AKE CI	47 a		
					CLI	MATE									
\sqrt{a}	Desi	gn Location	TMY Site			Design 97.5 %	Temp 2.5 %	Int Desig Winter			eating ree Day		sign [sture	Daily T Rang	-
Ministrative Production	FL,	Gainesville	FL_GAINESVILL	E_REGI		32	92	70	75	1;	305.5		51	Med	lium
					BLO	оскѕ									
Numbe	r	Name	Area	V	olume										
1		Entire House	2570		23130										
					SP	ACES									
Numbe	r	Name	Area	Volun	ne Kitchen	Occı	ipants	Bedrooms	In	fil ID	Finishe	d	Cooled	ŀ	leate
1		MAIN	2325	20925	Yes Yes		5	4	1		Yes		Yes	Υ	/es
2		BONUS	245	2205	No		2	1	1		Yes	,	Yes	\ 	Yes
					FLO	OORS									
V	#	Floor Type	Spac		Perimeter I	Perimeter	R-Value	Area	Joist	R-Value	9	Tile	Wood		
art entretection de characteristra	1 Slal	b-On-Grade Edge	e Insulatio I	MAIN	236 ft			2325 ft²	,	min-day sub-dow		0	0	1	
	2 Floo	or over Garage	В	ONUS				245 ft²		19		0	0	1	
					R	OOF									
\checkmark	#	Туре	Materials			Sable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	En Test		eck Isul.	Pito (deg
lopessing and generalized regularization of the con-	1	Gable or Shed	Composition shi	ngles 3	3089 ft² 85	56 ft²	Medium	Υ	0.4	No	0.4	N	lo	0	33.6
					A.	TTIC									
$\sqrt{}$	#	Туре	Ven	tilation	Vent	Ratio (1 i	1)	Area	RBS	IR	СС				
		-													-



Review for Code Compliance Universal Engineering Science

Science PX2707 1

Examiner-License No.

11/18/2021

FORM	200 4 00 000	~~~
5-7 Nov 15-71	W/1115.	

ORM R	405-20	020		INPUT S	UMMAR			ST F	REF	PORT					
						CEIL									
	#	Ceiling "	Гуре		Space	R-Va	lue	Ins	Тур		Area	Framing	Frac T	russ Tyr	e
	1	Under A	ttic (Ve	nted)	MAIN	30		Blo	wn	2	2325 ft²	0.1		Wood	
	2	Under A	ttic (Ve	nted)	BONUS	30		Blo	wn		245 ft ²	0.1		Wood	
						WA	LLS					11			
V #	Ornt	Adjace To	nt Wall	Tuno	Space	Cavity R-Value	Widt	h In	H	leight	Area	Sheathing R-Value	Framing Fraction	Solar	
<u>v</u> #	N	Exterior		ne - Wood	MAIN	13	53	0	9	0	477.0 ft ²	0	0.19	0.4	0
2	E	Exterior		ne - Wood	MAIN	13	65	0	9	0	585.0 ft ²	0	0.19	0.4	0
3	S	Exterior		ne - Wood	MAIN	13	42	0	9	0	378.0 ft²	0	0.19	0.4	0
4	W	Exterior		ne - Wood	MAIN	13	43	0	9	0	387.0 ft²	0	0.19	0.4	0
5	N	Exterior		ne - Wood	BONUS	13	26	0	9	0	234.0 ft²	0	0.19	0.4	0
6	E	Exterior		ne - Wood	BONUS	13	11	0	9	0	99.0 ft ²	0	0.19	0.4	0
7	S	Exterior		ne - Wood	BONUS	13	26	0	9	0	234.0 ft ²	0	0.19	0.4	0
8	w	Exterior		ne - Wood	BONUS	13	11	0	9	0	99.0 ft²	0	0.19	0.4	0
						DO	ORS								
V	#	Ornt		Door Type	Space			Storm	S	U-Val	ue Fi	Width	Heigh Ft	it In	Area
	1	E	·	Insulated	MAIN			None		.4	3		8	111	24 ft²
direct company of the latest contract of the		W		Insulated	MAIN			None		.4	3		8		24 ft ²
	2	N		Insulated	BONUS			None		.4	2	10	7		19.8 ft²
						VAMATE	2014/0								
				Ori	entation show		DOWS ntered, P	ropos	ed o	rientatio	n				
/		Wall							or manner reported		Ove	rhang			
	#	Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	In	р	Area	Depth	Separation	Int Sh	ade	Screenin
	1	N 1	Vinyl	Low-E Double	Yes	0.33	0.28	P	ď	8.5 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	2	N 1	Vinyl	Low-E Double	Yes	0.33	0.28	1	1	15.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	3	E 2	Vinyl	Low-E Double	Yes	0.33	0.28	1	4	8.5 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	4	E 2	Vinyl	Low-E Double	Yes	0.33	0.28	1	1	45.0 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	5	E 2	Vinyl	Low-E Double	Yes	0.33	0.28	1	4	30.0 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	6	E 2	Vinyl	Low-E Double	Yes	0.33	0.28	P	V.	19.8 ft²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	7	S 3	Vinyl	Low-E Double	Yes	0.33	0.28	ľ	J	8.5 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds	Exterior
	8	S 3	Vinyl	Low-E Double	Yes	0.33	0.28	î	V	16.0 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds/	Exterior
	9	W 4	Vinyl	Low-E Double	Yes	0.33	0.28	1	٧	90.0 ft ²	1 ft 0 in	1 ft 0 in	Drapes/	blinds/	Exterior
	10	W 4	Vinyl	Low-E Double	Yes	0.33	0.28	1	4	12.0 ft²	1 ft 0 in	1 ft 0 in	Drapes/	/blinds	Exterior
						GAI	RAGE								
$\sqrt{}$	#	Floo	or Area	Ceiling	g Area	Exposed \	Wall Per	imete		Avg. V	/all Height	Expos	ed Wall Ir	nsulation	1
	1	59	4 ft ²	594	ft²		65 ft				9 ft		0		



Review for Code Compliance Universal Engineering Science

Lawell PX2707 1

Examiner-License No.

11/18/2021

INPUT SUMMARY CHECKLIST REPORT

ORN	/ R405-20	20	INPU	TSUMN		HECKL LTRATION		PORT						
#	Scope	Method		SLA	CFM 50	ELA	E	qLA	ACH	ACH	50			
1 \	Wholehouse	Proposed A	CH(50)	.000385	2596	142.42	26	7.39	.1825	6.73	41			·
					HEAT	ING SYS	TEM							
V	#	System Type		Subtype	Spec	ed	Efficiency	/ (Capacity			Block	Du	cts
	1	Electric Heat Pu	mp/	Split	Sing	ji	HSPF:8.2	2 55	.5 kBtu/hr			1	sys	s#1
					COOL	ING SYS	TEM							
V	#	System Type		Subtype	Subt	ype	Efficiency	Capac	ity Air	Flow St	HR	Block	Du	cts
	1	Central Unit/		Split	Sing	ji	SEER: 14	55.5 kBt	u/hr c	fm 0	.7	1	sys	s#1
					HOT W	ATER SY	STEM							
V	#	System Type	SubType	Location	EF	C	ар	Use	SetPnt		Con	servatio	7	
Luna dan puta n	1	Electric	None	Garage	0.92	50	gal	62.3 gal	120 deg		1	None		
				SO	LAR HOT	WATE	RSYSTE	EM						
V	FSEC Cert		amė		System I	Model #	Ce	ollector Mo		ollector Area	Stora		FEF	
-	None	None								ft²				
			,			DUCTS								
\vee	/ #	Supp Location R-	oly Value Area	R	eturn n Area	Leaka	ge Type	Air Hand		CFM25 OUT	QN	RLF	HV/ Heat	AC#
	1	Attic	6 1025 ft ²	Attic	229 ft²	Prop. L	eak Free	Attic	cfm	77.1 cfm	0.03	0.50	1	1
					TEMF	PERATU	RES							
Pro	ogramable Th	nermostat: Y		(Ceiling Fans	:								
Coo Hea Ven	oling XX String	lan [] Feb lan [] Feb lan [] Feb	Mar X Mar X Mar	Apr Apr [X] Apr	May May May	[X] Jun Jun Jun	X Jul Jul Jul	[X] Au [] Au [] Au	g [X] Se g [] Se g [] Se	p XO	ct ct ct	X Nov X Nov	[x]	Dec Dec Dec

U	Review for Code Compliance
	Universal Engineering Science

Examiner-License No.

PX2707 11/18/2021

FORM R405-2020

Default(8 lbs/sq.ft.

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule:	HERS 200	6 Referen	ice				H	ours				national form and find a state and a state	
Schedule Type		1	2	3	4	5	6	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
					ı	WASS							
Mass Type			Ar	ea	٦	hickness		Furniture F	raction	S	Space		
Default(8 lbs/so	q.ft.		0 1	ft²		0 ft		0.3			MAIN		

ft²

LawleMer Pernell
Examiner-License No.

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BONUS

PX2707

11/18/2021

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 97

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

XXX SR 47, LAKE CITY, FL, 32025

New construction or existing			New (From Plans)			10. Wall Type and Insulation	11	nsulation	Area
2.	Single family or multiple	Detache	ed		a. Frame - Wood, Exterior b. N/A		R=13.0 R=	2493.00 ft ² ft ²	
3,	Number of units, if multip	ole family	1			c. N/A	-	∖	ft²
4.	Number of Bedrooms		5			d. N/A	F	?=	ft ²
5.	Is this a worst case?		No			Ceiling Type and insulation level a. Under Attic (Vented)		nsulation R=30.0	Area 2570.00 ft ²
6.	Conditioned floor area (f	t ²)	2570			b. N/A		₹==	ft²
7.	Windows**	Description		Area		c. N/A	F	ζ=	ft ²
	a. U-Factor: SHGC:	Dbl, U=0.33 SHGC=0.28		253.33 ft²		 Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Attic 			R ft ² 6 1025
	b. U-Factor:	N/A		ft²					
	SHGC:					13. Cooling systems		kBtu/hr	Efficiency
	c. U-Factor:	N/A		ft²		a. Central Unit		55.5	SEER:14.00
	SHGC:								
	d. U-Factor: SHGC:	N/A		ft²		14. Heating systems		kBtu/hr	Efficiency
	Area Weighted Average Area Weighted Average	• .		1.000 ft. 0.280		a. Electric Heat Pump		55.5	HSPF:8.20
	Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²		15. Hot water systems a. Electric		Ca	p: 50 gallons EF: 0.92
	Floor Types a. Slab-On-Grade Edg	e Insulation	Insulation R=0.0	Area 2325.00 ft ²		b. Conservation features None Credits (Performance method)			CF, Pstat
	b. Floor over Garage c. N/A		R=19.0 R=	245.00 ft ²		(- anamama manag)			οι , . 3tat

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:	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 Energy Rating. Energy Conservation, contact the Florida Building Commission's subject to the Florida Building Commission's sub

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

PX2707

AULT. PX2707 11/18/2021