FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Calverly Residence Street: City, State, Zip: , FL , Owner: Design Location: FL, Gainesville	Builder Name: IC Construction Permit Office: 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(263.0 sqft.) 8. U-Factor: 8. HGC: 9. U-Factor: 8. HGC: 9. U-Factor: 8. HGC: 9. U-Factor: 8. HGC: 9. U-Factor: 9. N/A 8. HGC: 9. U-Factor: 9. N/A 9. HGC: 9. HGC: 9. U-Factor: 9. N/A 9. HGC:	9. Wall Types (2697.6 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A R= ft² d. N/A R= ft² 10. Ceiling Types (2731.0 sqft.) b. N/A R= c. N/A R= ft² 10. Ceiling Types (2731.0 sqft.) b. N/A R= ft² c. N/A R= ft² d. N/A R= ft² c. N/A R= ft² d. N
Glass/Floor Area: 0.096 Total Proposed Modified Total Baseline I	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: 12-22-20 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	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. BUILDING OFFICIAL: 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 5.00 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.

				PROJ	ECT										
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Calverly Resider User 1 IC Construction Single-family New (From Plan		Bedrooms Conditione Total Stori Worst Cas Rotate And Cross Ven Whole Hou	ed Area: es: e: gle: tilation:	3 2083 1 No 0			Lot # Block PlatB Stree Coun	/Subdivis ook: t:	sion: C o: ,	itreet Ad olumbia 'L ,	dress			
				CLIMA	ATE										
	gn Location Gainesville	TMY Site	_REGI	97		np .5 % 92		gn Temp Summ	er Degi	eating ree Day 305.5		ture	Daily T Rang Med		
				BLOC	:KS										
Number	Name	Area	Volume												
1	Block1	2731	24163												
				SPAC	ES										
Number	Name	Area	Volume	Kitchen	Occupar	nts	Bedrooms	s Ir	nfil ID	Finishe	d C	ooled		leated	
1	Main	2315	20835	Yes	6		3	1		Yes		es		Yes	
2	Bonus Room	416	3328	No	2		0	1		Yes	Y	es	Υ	Yes	
				FLOC	RS										
V #	Floor Type	Space	Peri	meter Per	erimeter R-Value		Area	Joist R-Value			Tile	Wood	ood Carpet		
1 Sla	b-On-Grade Edge I	nsulatio Ma	ain 263	ft	0	2	2315 ft ²				0.33	0.33	0.3	4	
2 Flo	or over Garage	Bonus	Room	-			416 ft ²		19		0	0	1		
				ROC)F										
/ #	Туре	Materials	Roof Area	Gab Are		oof olor	Rad Barr	Solar Absor.	SA Tested	Emitt	Emi Teste			Pitch (deg)	
1	Gable or shed	Composition shingl	es 3283 ft²	910 f	t² Da	ark	N	0.92	No	0.9	No		0	33.7	
				ATT	IC										
./	Туре	ation	Vent Rat	io (1 in)	ļ	Area	RBS	IRO	CC						
V #	1) PC														

INPUT SUMMARY CHECKLIST REPORT

							CEI	LING								
/	#	С	eiling	Туре		Space	R-V	alue	Ins	Туре	e	Area	Framing	Frac	Truss Typ	е
	1	С	Cathedral/Single Assembly (Unve			ented Main 30			Blown		:	2315 ft ²	0.11		Wood	
	2	С	athed	ral/Singl	le Assembly (Unv	enBeodhus Roor	n 30)	Blo	own		416 ft ²	0.11		Wood	
							WA	ALLS								
/ #	Ornf		Adjace	ent Wall	Type	Space	Cavity R-Value	Wic Ft	lth In	He Ft	eight In	Area	Sheathing R-Value			Below Grade%
_ 1	N		cterior		ne - Wood	Main	13	44	6	10		445.0 ft ²	0.625	0.23	0.75	0
_ 2	W	Ex	cterior	Fran	ne - Wood	Main	13	21	11	9		197.3 ft ²	0.625	0.23	0.75	0
3	Ν	Ex	cterior	Frar	ne - Wood	Main	13	28		9		252.0 ft ²	0.625	0.23	0.75	0
4	Е	Ex	cterior	Frar	ne - Wood	Main	13	28	8	9		258.0 ft ²	0.625	0.23	0.75	0
5	S	Ex	cterior	Frar	ne - Wood	Main	13	11	8	9		105.0 ft ²	0.625	0.23	0.75	0
6	Е	Ex	cterior	Fran	ne - Wood	Main	13	5		10		50.0 ft ²	0.625	0.23	0.75	0
7	S	Ex	cterior	Frar	ne - Wood	Main	13	33	2	10		331.7 ft ²	0.625	0.23	0.75	0
8	W	Ex	cterior	Frar	ne - Wood	Main	13	5		9		45.0 ft ²	0.625	0.23	0.75	0
9	s	Ex	cterior	Frar	ne - Wood	Main	13	6	0	9		54.0 ft ²	0.625	0.23	0.75	0
10	W	Ex	cterior	Frar	ne - Wood	Main	13	20	4	9		183.0 ft ²	0.625	0.23	0.75	0
1	N	Ex	cterior	Fran	ne - Wood	Main	13	6		9		54.0 ft ²	0.625	0.23	0.75	0
2	W	Ex	cterior	Frar	ne - Wood	Main	13	6		9		54.0 ft ²	0.625	0.23	0.75	0
3	N	Ex	cterior		ne - Wood	Bonus Roor	n 13	7	10	8		62.7 ft ²	0.625	0.23	0.75	0
4	E		cterior		ne - Wood	Bonus Roor		8	8	8		69.3 ft ²	0.625	0.23	0.75	0
5	S		cterior		ne - Wood	Bonus Roor		7	10	8		62.7 ft ²	0.625	0.23	0.75	0
6	S		cterior		ne - Wood	Bonus Roor		12	.0	8		96.0 ft ²	0.625	0.23	0.75	0
7	SE		arage		ne - Wood	Main	13	47	3	8		378.0 ft ²	0.625	0.23	0.75	0
							DO	ORS								
_	#		Ornt		Door Type	Space			Storms	S	U-Valu	ue F	Width t In	Heig Ft	ht In	Area
	1		N		Insulated	Main			None		.4			8		40 ft ²
	2		N		Insulated	Main			None		.4	5	5	8		40 ft ²
	3		W		Insulated	Main			None		.4	3	3	8		24 ft ²
_	4		s		Insulated	Main			None		.4	5	;)	8		40 ft ²
_	5		SE		Insulated	Main			None		.4	3		6		20 ft ²
					0-1	ientation show		DOWS		. al:						
			Wall			ientation snow	n is the ei	nterea, i	Propose	ea on	entation		rhang			
	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	lm	р	Area	Depth	Separation	Int Sh	nade	Screenin
_	1	Ν	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	3	30.0 ft ²	11 ft 6 in	1 ft 4 in	No	ne	None
_	2	Ν	1	Vinyl	Low-E Double	Yes	0.33	0.22	N	1	16.0 ft ²	11 ft 6 in	1 ft 4 in	No	ne	None
_	3	W	2	Vinyl	Low-E Double	Yes	0.33	0.22	N	3	30.0 ft ²	1 ft 6 in	1 ft 4 in	No	ne	None
_	4	Ν	3	Vinyl	Low-E Double	Yes	0.33	0.22	N	3	30.0 ft ²	1 ft 6 in	1 ft 4 in	No	ne	None
_	5	Е	4	Vinyl	Low-E Double	Yes	0.33	0.22	N		8.0 ft ²	1 ft 6 in	1 ft 4 in	No	ne	None
_	6	Е	4	Vinyl	Low-E Double	Yes	0.33	0.22	N		3.0 ft ²	1 ft 6 in	1 ft 4 in	No	ne	None
_	7	E	4	Vinyl	Low-E Double	Yes	0.33	0.22	N		8.0 ft ²	1 ft 6 in	1 ft 4 in	No	ne	None
		S	5	Vinyl	Low-E Double	Yes	0.33	0.22	N		8.0 ft ²		1 ft 4 in	No		None

INPUT SUMMARY CHECKLIST REPORT

OKIVI	R405-2	.017			INPU	I SUMMA			SIRE	PURI							
						Orientation sl		DOWS	ronosed	orientation							
			Wall			Onemation si	nown is the e	intereu, i	орозец	onemation.	Ove	rhang					
\checkmark	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separatio	n Int	Shade	Scre	enin	
	_ 9	S	7	Vinyl	Low-E Doub	le Yes	0.33	0.22	N	72.0 ft ²	7 ft 6 in	1 ft 4 in	N	lone	No	one	
	_ 10	S	9	Vinyl	Low-E Doub	le Yes	0.33	0.22	Ν	8.0 ft ²	1 ft 6 in	1 ft 4 in	N	lone	No	one	
	_ 11	W	10	Vinyl	Low-E Doub	le Yes	0.33	0.22	Ν	8.0 ft ²	1 ft 6 in	1 ft 4 in	N	lone	No	one	
	_ 12	N	11	Vinyl	Low-E Doub	le Yes	0.33	0.22	Ν	8.0 ft ²	1 ft 6 in	1 ft 4 in	N	lone	No	one	
	_ 13	Ε	14	Vinyl	Low-E Doub	le Yes	0.33	0.22	N	24.0 ft ²	1 ft 6 in	1 ft 4 in	N	lone	No	one	
	_ 14	S	16	Vinyl	Low-E Doub	le Yes	0.33	0.22	N	10.0 ft ²	1 ft 6 in	1 ft 4 in	N	lone	No	one	
							GA	RAGE									
$\sqrt{}$	#		Floo	r Area	Ce	eiling Area	Exposed	Wall Peri	meter	Avg. Wal	l Height	Expo	osed Wall	l Insulatio	n		
	_ 1		891.3	352 ft ²	89	1.3352 ft ²	76	.1667 ft		8 f	t		1				
							INFIL	ratio	N								
#	Scope		N	/lethod		SLA	CFM 50	ELA	E	qLA	ACH	А	CH 50				
1 W	holehous	ie	Propo	osed AC	CH(50)	.000281	2013.6	110.54		7.89	.1101		5				
					. ,		HEATIN	G SYST	EM								
$\sqrt{}$	#	Sys	stem T	уре		Subtype	Speed		Efficiency	y Ca	apacity			Block	Dı	ucts	
	_ 1	Ele	ctric H	leat Pur	mp/	None	Singl	H	HSPF:8.	5 42	kBtu/hr			1	sy	s#1	
							COOLIN	G SYST	EM								
$\sqrt{}$	#	Sys	stem T	уре		Subtype	Subtyp	e E	fficiency	Capacity	/ A	ir Flow	SHR	Block	Dι	ucts	
	_ 1	Ce	ntral U	Jnit/		None	Singl	S	EER: 14	42 kBtu/h	nr 12	60 cfm	0.85	1	sys	s#1	
							HOT WAT	ER SYS	STEM								
$\sqrt{}$	#	S	System	туре	SubType	Location	EF	Use	SetPr	nt	Conservation						
	_ 1	Е	Electric	;	Tankless	Exterior	0.92	1 ga		60 gal	120 de	g		None			
						SOL	AR HOT V	VATER	SYSTE	EM							
	FSE Cert		Comp	pany Na	ıme		System Mo	del#	Co	ollector Mod		Collector Area	Stora Volu	-	FEF		
	_ Noi	ne	None)								ft²					
							DI	JCTS									
\/	,,			Supp	•	Retu		1 1	т	Air	CFM 2			H			
V	#				Value Area	Location	Area	Leakage		Handle		OUT		RLF	Heat		
	_ 1		Main)	6 546.2 ft	Main	136.55	Prop. Lea	ak Free	Main	cf	m 81.9 c	fm 0.03	3 0.50	1	1	

INPUT SUMMARY CHECKLIST REPORT

ONWIN-03-2017 INTO I SOMIMANT CITECREST RELIGION														
	TEMPERATURES													
Programa	able Thermo	stat: Y			C	Ceiling Fan	s:							
Cooling Heating Venting	Heating [X] Jan		[] Mar [X] Mar [X] Mar	Apr Apr X Apr		[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul 	[X] Aug [] Aug [] Aug	[X]	Sep Sep Sep	Oct Oct X Oct	[] Nov [X] Nov [X] Nov	[] Dec [X] Dec [] Dec
Thermostat	Schedule:	HERS 200	6 Reference)				Ho	ours					
Schedule T	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	EH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Heating (W	D)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)		AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68
							MASS							
Ма	ss Type		Area			Thickness		Furniture Fra	ction		Space			
Def	fault(8 lbs/so		0 ft²			0 ft		0.3			Main			
Def	fault(8 lbs/so	q.ft.		0 ft²			0 ft		0.3			Bonus Ro		