FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Derrick & Kristi Hall Resid Street: City, State, Zip: Lake City, FL, 32055 Owner: Derrick & Kristi Hall Design Location: FL, Gainesville	dence	Builder Name: S & S Construction Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	eZone 2)				
a. Slab-On-Grade Edge Insulation R=	New (From Plans) Single-family 1 3 No 2478 0 Area 286.33 ft² ft² ft² ft² ft² ct²	a. Electric Heat Pump	OP Cap: 50 gallons				
Glass/Floor Area: 0.116 Total Proposed Modified Loads: 65.71 Total Baseline Loads: 67.32 PASS							
I hereby certify that the plans and specificathis calculation are in compliance with the Code. PREPARED BY: DATE: I hereby certify that this building, as design with the Florida Energy Code. OWNER/AGENT: DATE:	Plorida Energy	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:	COD WE TRUST				

- 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).

				PROJ	ECT							
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Derrick & Kristi User Derrick & Kristi 1 S & S Construct Columbia Count Single-family New (From Plan	Hall tion ty	Bedroom Condition Total Sto Worst Ca Rotate Al Cross Ve Whole He	nedArea: ries: ase: ngle:	3 2478 2 No 0 Yes No		Lot # Block PlatB Stree Coun	/Subdivi ook: t:	sion:	Lot Informace 137 Cobbles Columbi Lake City	tone a	
				CLIMA	ATE							
√ De	sign Location	TMY Site			Design Temp 7.5 % 2.5 %	Int Des Winter	ign Temp Summ		leating gree Day		sign D sture	aily Temp Range
FL	, Gainesville	FL_GAINESVILLE	_REGI		32 92	70	75	1	1305.5		51	Medium
				BLOC	CKS							
Number	Name	Area	Volume)								"
1	Block1	2478	2197	2								
				SPAC	ES							
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	s In	fil ID	Finishe	ed (Cooled	Heat
1	1st Floor	2148	19332	Yes	6	3	1		Yes	,	/es	Yes
2	2nd Floor	330	2640	No	2	0	1		Yes	,	⁄es	Yes
				FLOO	RS							
√ #	Floor Type	Space	Pe	rimeter Per	rimeter R-Value	Area	Joist	t R-Value	е	Tile	Wood	Carpet
1 Sla	b-On-Grade Edge I	nsulation 1st l	Floor 26	1 ft	0	2148 ft ²				0	0	1
2 Flo	or over Garage	2nd	Floor			330 ft ²		0		0	0	1
				ROC	F							
√ #	Туре	Materials	Roof Area			Rad Barr	Solar Absor.	SA Tested	Emitt	Em Teste		
1	Hip	Composition shingl	es 2979 fi	² 0 ft²	Medium	Υ	0.96	No	0.9	No	0	33.
				ATTI	С							
√ #	Туре	Ventila	ation	Vent Rat	io (1 in)	Area	RBS	IRC	cc			

-						CE								
	#	Ceiling Type		R-\	/alue	Ins	Туре	Area	Framing	Frac	Truss Type	Э		
_	1	Under	Attic (Ve	ented)	1st Floor	3	8	Doubl	e Batt	2255 ft ²	0.11		Wood	
_	2	Under	Under Attic (Vented)		2nd Floor	3	8	Doubl	e Batt	347 ft ²	0.11		Wood	
						W	ALLS							
/ #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wice Ft	ith In	Heigh Ft In		Sheathing R-Value	Framing	Solar Absor.	Below Grade ⁹
. 1	S	Exterior		me - Wood	1st Floor		8	10	9	79.5 ft²	i valuo	0.23	0.75	0
2	W	Exterior	Fra	me - Wood	1st Floor	13	4		9	36.0 ft ²		0.23	0.75	0
3	S	Exterior	Fra	me - Wood	1st Floor	13	20	8	9	186.0 ft ²		0.23	0.75	0
4	S	Exterior	Fra	me - Wood	1st Floor	13	13	4	9	120.0 ft ²	ı	0.23	0.75	0
5	Е	Exterior	Fra	me - Wood	1st Floor	13	42		9	378.0 ft ²		0.23	0.75	0
6	N	Exterior	Fra	me - Wood	1st Floor	13	13	4	9	120.0 ft ²		0.23	0.75	0
7	W	Exterior	Fra	me - Wood	1st Floor	13	14		9	126.0 ft ²		0.23	0.75	0
8	N	Exterior	Fra	me - Wood	1st Floor	13	18	2	9	163.5 ft²		0.23	0.75	0
9	E	Exterior	Fra	me - Wood	1st Floor	13	10		9	90.0 ft²		0.23	0.75	0
10	Ν	Exterior		me - Wood	1st Floor	13	11	4	9	102.0 ft²		0.23	0.75	0
11	E	Exterior		me - Wood	1st Floor	13	8	0.40 7 00	9	72.0 ft²		0.23	0.75	0
12	N	Exterior		me - Wood	1st Floor	13	25	8	9	231.0 ft²		0.23	0.75	0
13	W	Exterior		me - Wood	1st Floor	13	28	4	9	255.0 ft²		0.23	0.75	0
4	s	Garage		me - Wood	1st Floor	13	25	4	9	228.0 ft²		0.23	0.75	0
5	w	Garage		me - Wood	1st Floor	13	14	-	9	126.0 ft²		0.23	0.75	
6	s	Exterior		me - Wood	2nd Floor	X-20	12	8	8	101.3 ft²				0
7	E	Exterior		me - Wood	2nd Floor			0				0.23	0.75	0
8	w	Exterior		me - Wood	2nd Floor	0.5	26 26		8	208.0 ft ² 208.0 ft ²		0.23	0.75 0.75	0
-						DO	ORS							
	#	Ornt	a a	Door Type	Space			Storms	U-\	/alue	Width	Heigh		Area
					-1-400			Otomis						
	1			Inculated						76 F		Ft	In o	0.62
_	1 2	s s		Insulated Insulated	1st Floor			None None		46	it in 3 3	6 6	8 2	0 ft²
		S			1st Floor	WINI	Dows	None None		46 :	3	6	8 2	0 ft² 0 ft²
		s s		Insulated	1st Floor			None None		46 3 46 3	3	6	8 2	
	2	S S	Frame	Insulated	1st Floor 1st Floor		ntered, P	None None	I orientati	46 3 46 3 ion.	3	6	8 2	O ft²
	2 # O	S S		Insulated	1st Floor 1st Floor Orientation show	vn is the e	ntered, P	None None roposed	I orientati	46 346 3560n. Ove a Depth	3 3 erhang	6	8 2 8 2 ade S	
	# O	S S Wall	Frame	Insulated C	1st Floor 1st Floor Orientation show	vn is the e U-Factor	ntered, P	None None 'roposed	I orientati Are	46 ; 46 ; ion. Ove a Depth ft² 1 ft 6 in	3 3 erhang Separation	6 6 Int Sha	8 2 8 2 ade S	0 ft²
	# C	S S Wall ID S 1	Frame Vinyl	Panes Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes	U-Factor 0.36	SHGC 0.25	None None 'roposed Imp	Are 10.0	46 3 46 3 ion. Ove a Depth ft² 1 ft 6 in ft² 7 ft 6 in	erhang Separation	6 6 Int Sha	8 2 8 2 ade S e	0 ft² creening
	# C	Wall ID S 1 S 3	Frame Vinyl Vinyl	Panes Low-E Double Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes	U-Factor 0.36 0.36	SHGC 0.25 0.25	None None Proposed Imp	Are:	46 3 46 3 46 5 600. Over a Depth 6t² 1 ft 6 in 6t² 7 ft 6 in 7 ft 6 in	erhang Separation 1 ft 0 in 1 ft 0 in	6 6 Int Sha Non	8 2 8 2 ade S e e e e	oft² creening None None
	# O	Wall ID S 1 S 3 S 3	Frame Vinyl Vinyl TIM	Panes Low-E Double Low-E Double Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes Yes Yes	U-Factor 0.36 0.36 0.36	SHGC 0.25 0.25 0.25	None None Imp N N N	Are: 10.0 ft 30.0 ft 13.3 ft	46 3 46 3 ion. Ove a Depth ft² 1 ft 6 in ft² 7 ft 6 in ft² 1 ft 6 in	erhang Separation 1 ft 0 in 1 ft 0 in	6 6 Int Sha Non Non	8 2 8 2 ade S e e e	oft² creening None None None
	# C 1 2 3 4 5	Wall ID S 1 S 3 S 3 S 4	Frame Vinyl Vinyl TIM Vinyl Vinyl	Panes Low-E Double Low-E Double Low-E Double Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes Yes Yes Yes Yes Yes	U-Factor 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25	None Proposed Imp N N N N N N	Are. 10.0 f 30.0 f 13.3 f 6.0 ff	46 346 35 ion. Ove a Depth ft² 1 ft 6 in ft² 7 ft 6 in ft² 1 ft 6 in	serhang Separation 1 ft 0 in	Int Sha Non Non Non Non	8 2 8 2 adde S e e e e e e e	oft² creening None None None None None
	# O 1 2 3 4 5 6	Wall	Frame Vinyl Vinyl TIM Vinyl Vinyl Vinyl Vinyl	Panes Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes Yes Yes Yes Yes Yes Ye	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25	None None Imp N N N N N N N N N N N N N N N N N N N	Are. 10.0 f 30.0 f 13.3 f 15.0 f 4.0 ff	46 3 46 3 46 3 46 3 46 3 47 47 47 47 47 47 47 47 47 47 47 47 47 4	erhang Separation 1 ft 0 in	Int Sha Non Non Non Non Non	8 2 8 2 ade S e e e e e	creening None None None None None None None
	# O 1 2 3 4 5 6 7	Wall	Frame Vinyl Vinyl TIM Vinyl Vinyl Vinyl Vinyl	Panes Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes Yes Yes Yes Yes Yes Ye	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	None None Imp N N N N N N N N N N N N N N N N N N N	Are. 10.0 f 30.0 f 13.3 f 15.0 f 4.0 ff 15.0 f	46 3 46 3 ion. Ove a Depth ft² 1 ft 6 in ft² 7 ft 6 in ft² 1 ft 6 in	Separation 1 ft 0 in	Int Sha Non Non Non Non Non Non	8 2 8 2 ade S e e e e e e	creening None None None None None None
,	# CO 1 2 3 4 5 6 7 8 1	Wall	Frame Vinyl Vinyl TIM Vinyl Vinyl Vinyl Vinyl	Panes Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double Low-E Double	1st Floor 1st Floor Orientation show NFRC Yes Yes Yes Yes Yes Yes Yes Ye	U-Factor 0.36 0.36 0.36 0.36 0.36 0.36	SHGC 0.25 0.25 0.25 0.25 0.25 0.25 0.25	None None Imp N N N N N N N N N N N N N N N N N N N	Are. 10.0 f 30.0 f 13.3 f 15.0 f 4.0 ff	46 3 46 3 46 3 46 3 46 3 46 46 3 46 47 47 47 47 47 47 47 47 47 47 47 47 47	orhang Separation 1 ft 0 in 1 ft 0 in	Int Sha Non Non Non Non Non	8 2 8 2 ade S e e e e e e	creening None None None None None None

# 11 12 13 14 15 15 15 14 Scope 1 Wholehou # 1	Ornt I N 1 N 1 N 1 S 1 S 1 Syste	Method	Low-E Double Low-E Double Low-E Double Low-E Double Cow-E Double	NFRC e Yes e Yes e Yes e Yes	0.36 0.36 0.36 0.36 0.36 Exposed 6 INFILT CFM 50 1831 HEATING	0.25 0.25 0.25 0.25 0.25 0.25 RAGE Wall Perim 3.33 ft	Imp N N N N N T EqL 189.0	Area 30.0 ft² 30.0 ft² 10.0 ft² 8.0 ft² 15.0 ft² Avg. Wall	Depth 1 ft 6 in		1	Shade None None None None	Scree No No No No
11 12 13 14 15 # Scope 1 Wholehou	Ornt I N 1 N 1 N 1 S 1 S 1 Syste	D Frame 0 Vinyl 2 Vinyl 3 Vinyl 6 Vinyl Floor Area 67.342 ft² Method roposed AC	Low-E Double Low-E Double Low-E Double Low-E Double Cow-E Double	e Yes illing Area 7.342 ft² SLA .000282	0.36 0.36 0.36 0.36 0.36 Exposed 6 INFILT CFM 50 1831 HEATING	0.25 0.25 0.25 0.25 0.25 Wall Perim 3.33 ft ***TRATION************************************	N N N N N eter	30.0 ft ² 30.0 ft ² 10.0 ft ² 8.0 ft ² 15.0 ft ² Avg. Wall	Depth 1 ft 6 in 1 ft 0 in	Separation 1 ft 0 in 1 ft 0 in 1 ft 0 in 1 ft 0 in 3 ft 0 in	sed Wall	None None None None	No No No No
12 13 14 15 # Scope 1 Wholehou	N 1 N 1 W 1 S 1	2 Vinyl 2 Vinyl 3 Vinyl 6 Vinyl Floor Area 67.342 ft² Method roposed AC	Low-E Double Low-E Double Low-E Double Cow-E Double	e Yes e Yes e Yes e Yes e Yes illing Area 7.342 ft² SLA .000282	0.36 0.36 0.36 0.36 GA Exposed 6 INFILT CFM 50 1831	0.25 0.25 0.25 0.25 RAGE Wall Perim 3.33 ft TRATION	N N N N eter	30.0 ft ² 10.0 ft ² 8.0 ft ² 15.0 ft ² Avg. Wall 9 ft	1 ft 6 in 1 ft 6 in 1 ft 6 in 1 ft 0 in Height	1 ft 0 in 1 ft 0 in 1 ft 0 in 3 ft 0 in	sed Wall	None None None	No No No No
13 14 15 # Scope 1 Wholehou # 1	N 1 W 1 S 1	2 Vinyl 3 Vinyl 6 Vinyl Floor Area 67.342 ft² Method roposed AC	Low-E Double Low-E Double Ce	e Yes e Yes e Yes illing Area 7.342 ft² SLA .000282	0.36 0.36 0.36 GA Exposed 6 INFILT CFM 50 1831	0.25 0.25 0.25 RAGE Wall Perim 3.33 ft TRATION ELA 100.52	N N N eter	10.0 ft² 8.0 ft² 15.0 ft² Avg. Wall 9 ft	1 ft 6 in 1 ft 6 in 1 ft 0 in Height	1 ft 0 in 1 ft 0 in 3 ft 0 in Expo	sed Wall	None None None	No No
14 15 # Scope 1 Wholehou # 1	W 1 S 1	3 Vinyl 6 Vinyl Floor Area 67.342 ft² Method roposed AC	Low-E Double Low-E Double Ce 66	e Yes e Yes illing Area 7.342 ft² SLA .000282	0.36 0.36 GA Exposed 6 INFILT CFM 50 1831 HEATING	0.25 0.25 RAGE Wall Perim 3.33 ft RATION ELA 100.52	N N eter J EqL 189.0	8.0 ft ² 15.0 ft ² Avg. Wall 9 ft	1 ft 6 in 1 ft 0 in Height	1 ft 0 in 3 ft 0 in Expo	sed Wall	None None	No No
# Scope 1 Wholehou	S 1	6 Vinyl Floor Area 67.342 ft² Method roposed AC	Ce 66	iling Area 7.342 ft² SLA .000282	O.36 GA Exposed 6 INFILT CFM 50 1831 HEATING	0.25 RAGE Wall Perim 3.33 ft RATION ELA 100.52	N eter	Avg. Wall 9 ft	1 ft 0 in Height	3 ft 0 in	sed Wall	None	No
# Scope 1 Wholehou	use P	Floor Area 67.342 ft² Method roposed AC	Ce 66	iling Area 7.342 ft² SLA .000282	Exposed 6 INFILT CFM 50 1831 HEATING	RAGE Wall Perim 3.33 ft RATION ELA 100.52	eter EqL 189.0	Avg. Wall 9 ft	Height	Ехро	sed Wall		
# Scope 1 Wholehou	use P	Method roposed AC	66	7.342 ft² SLA .000282	Exposed 6 INFILT CFM 50 1831 HEATING	Wall Perim 3.33 ft TRATION ELA 100.52	EqL 189.0	9 ft	ACH		1 CH 50	l Insulatio	on
# Scope 1 Wholehou	use P	Method roposed AC	66	7.342 ft² SLA .000282	CFM 50 1831 HEATING	3.33 ft RATION ELA 100.52	EqL 189.0	9 ft	ACH		1 CH 50	I Insulatio	on
# Scope 1 Wholehou # 1	use P	Method roposed AC m Type		SLA .000282	CFM 50 1831 HEATING	ELA 100.52	EqL 189.0	A	ACH	AC	CH 50		
1 Wholehou	use P	oposed AC	SH(50)	.000282	CFM 50 1831 HEATING	ELA 100.52	EqL 189.0			AC			
1 Wholehou	use P	oposed AC	:H(50)	.000282	1831 HEATIN	100.52	189.0			AC			
√ # 1	Syste	n Type	:H(50)		HEATIN	THE PERSON NAMED IN		04	.1457		5		
1				Subtype		G SYSTE	EM						
1				Subtype	Constant								
	Electr	c Heat Pur			Speed	E:	fficiency	Ca	apacity			Block	Due
√ #			np/	None	Single	Н	SPF:8.2	42.44	4 kBtu/hr			1	sys
√ #					COOLIN	G SYSTI	ΞM						
	Syste	т Туре		Subtype	Subtype	e Eff	iciency	Capacity	Ai	r Flow	SHR	Block	Duc
1	Centra	al Unit/		None	Single	SE	ER: 14 34	4.02 kBtu	/hr 102	20 cfm	0.7	1	sys
				S	HOT WAT	ER SYS	ГЕМ						
√ #	Sys	em Type	SubType	Location	EF	Сар	ı	Use	SetPnt		Co	nservatio	n
1	Elec	tric	None	Garage	0.92	50 gal	40	0 gal	120 deg)		None	
				SOL	AR HOT W	ATER S	YSTEN	И					
*	SEC ert # Co	ompany Nar	me		System Mod	el#	Colle	ector Mode		Collector Area	Stora		FEF
No	one No	one								ft²			
					DU	стѕ							
√ #	Loc	Suppl	- The Control of the	Retu		Looken-		Air	CFM 25		CH	D: F	HVA
v #	Loc	ation K-V	√alue Area	Location	Area	Leakage ⁻	ype	Handler	т тот	OUT	QN	RLF	Heat

						TEM	PERATUR	RES						
Programa	ableThermos	stat: Y			(Ceiling Fans	s:							
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	Ap Ap Ap	r r or	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug Aug Aug	[X] §	Sep Sep Sep	Oct Oct Oct	Nov X Nov X Nov	Dec X Dec Dec
Thermostat	Schedule:	HERS 200	6 Reference					Н	ours					
Schedule T	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WI	D)	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 (Wi	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	78 78
Heating (WI	O)	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 (WI	EH)	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
							MASS							
Ма	ss Type			Area	a		Thickness		Furniture Fra	ction		Space		
Def	ault(8 lbs/sq	.ft.		0 ft²			0 ft		0.3			1st Floor	t	
Def	ault(8 lbs/sq	.ft.		O ft²			0 ft		0.3			2nd Floo	r	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 98

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Garage
3. No. of units (if multiple-family)	31	c) AHU location Garage
4. Number of bedrooms	43	13. Cooling system: Capacity 34.0 a) Split system SEER
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62478	d) Room unit/PTAC EER
7. Windows, type and areaa) U-factor:(weighted average)b) Solar Heat Gain Coefficient (SHGC)c) Area	7a. 0.360 7b. 0.250 7c. 286.3	14. Heating system: Capacity 42.4 a) Split system heat pump HSPF b) Single package heat pump HSPF
8. Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8aNA_ 8bNA_	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.20
9. Floor type, insulation level:a) Slab-on-grade (R-value)b) Wood, raised (R-value)c) Concrete, raised (R-value)	9a. 0.0 9b. 0.0 9c.	15. Water heating system a) Electric resistance EF 0.92
 Wall type and insulation: A. Exterior: Wood frame (Insulation R-value) Masonry (Insulation R-value) Adjacent: Wood frame (Insulation R-value) Masonry (Insulation R-value) 	10A113.0 10A2 10B113.0 10B2.	b) Gas fired, natural gas EF c) Gas fired, LPG EF d) Solar system with tank EF e) Dedicated heat pump with tank EF f) Heat recovery unit HeatRec% g) Other
11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. 38.0 11b. 11c. Yes	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ene	ergy Conservation, if not DEFAULT.
I certify that this home has complied with the I saving features which will be installed (or excedisplay card will be completed based on installed)	eeded) in this home befo	
Builder Signature:		Date:
Address of New Home:		City/FL Zip: Lake City, FL 32055