## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Culverhouse Res Street: 138 SW Mossy Oak W. City, State, Zip: Lake City, FL, 32025 Owner: The Culverhouses Design Location: FL, Gainesville	ay	Builder Name: Sparks Construction Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate	e Zone 2)
<ol> <li>New construction or existing</li> <li>Single family or multiple family</li> <li>Number of units, if multiple family</li> <li>Number of Bedrooms</li> <li>Is this a worst case?</li> <li>Conditioned floor area above grade (ft²)         Conditioned floor area below grade (ft²)     </li> </ol>	New (From Plans) Detached 1 3 No 2438 0	<ul> <li>10. Wall Type≰2346.0 sqft.)</li> <li>a. Frame - Wood, Exterior</li> <li>b. Frame - Wood, Adjacent</li> <li>c. N/A</li> <li>d. N/A</li> <li>11. Ceiling Types (2560.0 sqft.)</li> <li>a. Under Attic (Vented)</li> <li>b. N/A</li> <li>c. N/A</li> </ul>	Insulation Area R=13.0 2013.00 ft² R=13.0 333.00 ft² R= ft² R= ft² Insulation Area R=38.0 2560.00 ft² R= ft² R= ft²
7. Windows(396.0 sqft.) Description a. U-Factor: Dbl, U=0.36 SHGC: SHGC=0.25	Area 396.00 ft²	12. Ducts a. Sup: Attic, Ret: Attic, AH: Garage	R ft² 6 609.5
b. U-Factor: N/A SHGC: c. U-Factor: N/A	ft²	13. Cooling systems a. Central Unit	kBtu/hr Efficiency 26.5 SEER:14.00
SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights	7.253 ft. 0.250 Area	14. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 37.8 HSPF:8.20
c. U-Factor:(AVG) N/A SHGC(AVG): N/A  9. Floor Types (2438.0 sqft.) a. Slab-On-Grade Edge Insulation b. N/A	nsulation Area R=0.0 2438.00 ft² R= ft² R= ft²	<ul><li>15. Hot water systems</li><li>a. Propane Tankless</li><li>b. Conservation features</li><li>None</li><li>16. Credits</li></ul>	Cap: 1 gallons EF: 0.590 CV, Pstat
Glass/Floor Area: 0.162	Total Proposed Modified Total Baseline		PASS
DATE: 3 / 30 /  I hereby certify that this building, as designed with the Florida Energy Code.	e Florida Energy  2022  gned, is in compliance	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.	COD WE TRUST
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).

1         Main         2438         21942         Yes         6         3         1         Yes         Yes         Yes           FLOORS           ✓         # Floor Type         Space         Perimeter         R-Value         Area         Tile         Wood         Carpet           —         1 Slab-On-Grade Edge Insulatio         Main         264 ft         0         2438 ft²         —         0         0         1           ROOF           Waterials         Roof Area         Gable Area         Roof Color         Rad Absor.         Solar SA Emitt Emitt Deck Tested Insul.         Picture Insul.           Waterials         Area         Area         Color         Barr         Absor.         Tested         Insul.         (d					PROJEC	СТ							
Design Location   TMY Site   97.5 % 2.5 %   Winter   Summer   Degree Days   Moisture   Range   Range   Price   Range   Price   Pric	Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing:	User The Culverhouses 1 Sparks Construction Columbia County Detached		Conditioned Total Storie Worst Case Rotate Ang Cross Vent	d Area: 2 es: 1 e: N le: 0 ilation: Y	2438 No ) 'es		Lot # Block PlatB Stree Coun	c/Subdivis ook: ot: ty:	ion: 13 Co o: La	38 SW Mos olumbia ake City ,	ssy Oak	(Wa
V					CLIMAT	Έ							
Number   Name   Area   Volume   SPACES   SPACES   Number   Name   Area   Volume   Kitchen   Occupants   Bedrooms   Infil ID   Finished   Cooled   Heat					97.5	% 2.5 %	Winte	er Summ	er Degr	ee Days	s Moistur	e Ra	inge
Number         Name         Area         Volume           SPACES           Number         Name         Area         Volume         Kitchen         Occupants         Bedrooms         Infil ID         Finished         Cooled         Her           1         Main         2438         21942         Yes         6         3         1         Yes         Yes <td< td=""><td> FL,</td><td>Gainesville FL_0</td><td>JAINESVILLE.</td><td>_REGI</td><td></td><td></td><td>70</td><td>/5</td><td>13</td><td>305.5</td><td>51</td><td>Me</td><td>edium</td></td<>	FL,	Gainesville FL_0	JAINESVILLE.	_REGI			70	/5	13	305.5	51	Me	edium
Space   Roof   Space   Roof   Space   Roof   Space   Roof   Space   Roof   Space					BLOCK	S							
Number         Name         Area         Volume         Kitchen         Occupants         Bedrooms         Infil ID         Finished         Cooled         Heat           1         Main         2438         21942         Yes         6         3         1         Yes         Yes         Yes           FLOORS           FLOORS           FLOORS           FLOORS           FLOORS           FLOORS           FLOORS           FLOORS           Floor Type         Space         Perimeter         R-Value         Area         Title         Wood         Carpet           Total Slab-On-Grade Edge Insulatio         Main         264 ft         0         2438 ft²          0         0         0         0         1           Type         Materials         Roof         Gable         Roof         Rad         Solar         Solar         Emitt         Deck         Pi           Area         Area         Color         Barr         Absor.         Tested         Tested         Insult         (d)           Type													
Number         Name         Area         Volume         Kitchen         Occupants         Bedrooms         Infil ID         Finished         Cooled         Heat           1         Main         2438         21942         Yes         6         3         1         Yes	1	Block1	2438	21942									
1         Main         2438         21942         Yes         6         3         1         Yes         Yes         Yes           FLOORS           FLOORS           ✓         # Floor Type         Space         Perimeter         R-Value         Area         Tile         Wood         Carpet           —         1 Slab-On-Grade Edge Insulatio         Main         264 ft         0         2438 ft²          0         0         0         1           ROOF         Gable         Roof         Rad         Solar         SA         Emitt         Emitt         Deck         Pi           —         1         Gable or shed         Metal         2930 ft²         812 ft²         Medium         Y         0.96         No         0.9         No         0         33           ATTIC           ATTIC           #         Type         Ventilation         Vent Ratio (1 in)         Area         RBS         IRCC					SPACE	S							
FLOORS	Number	Name	Area	Volume k	(itchen C	Occupants	Bedroo	ms Ir	nfil ID I	Finished	d Coo	led	Heate
# Floor Type	1	Main	2438	21942	Yes	6	3	1	`	Yes	Yes		Yes
					FLOOR	S							
ROOF           ✓         # Type         Materials         Roof Area Area Area Color Barr Absor. Tested         SA Emitt Emitt Deck Insul. Color Barr Absor. Tested         Pi Tested Insul. Color Barr Absor. Tested         No 0.9 N				Perin	neter F	R-Value	Area				Tile Wo	od Ca	rpet
✓         #         Type         Materials         Roof Area         Gable Area         Roof Color         Rad Area         Solar Absor.         SA Emitt Tested         Emitt Tested Insul.         Pit Tested	1 Sla	b-On-Grade Edge Insula	ntio Ma	ain 264	ft	0	2438 ft²				0 0	)	1
V         # Type         Materials         Area         Area         Color         Barr         Absor.         Tested         Insul.         (d           1         Gable or shed         Metal         2930 ft²         812 ft²         Medium         Y         0.96         No         0.9         No         0         33           ATTIC           #         Type         Ventilation         Vent Ratio (1 in)         Area         RBS         IRCC           1         Full attic         Vented         300         2438 ft²         Y         N           CEILING           ✓         # Ceiling Type         Space         R-Value         Ins Type         Area         Framing Frac         Truss Type					ROOF								
ATTIC           ✓         #         Type         Ventilation         Vent Ratio (1 in)         Area         RBS         IRCC           1         Full attic         Vented         300         2438 ft²         Y         N           CEILING           ✓         #         Ceiling Type         Space         R-Value         Ins Type         Area         Framing Frac         Truss Type	√ #	Туре	Materials							Emitt			Pitch (deg
✓         #         Type         Ventilation         Vent Ratio (1 in)         Area         RBS         IRCC           1         Full attic         Vented         300         2438 ft²         Y         N           CEILING           √         #         Ceiling Type         Space         R-Value         Ins Type         Area         Framing Frac         Truss Type	1	Gable or shed	Metal	2930 ft²	812 ft²	Medium	Υ	0.96	No	0.9	No	0	33.69
					ATTIC								
CEILING  # Ceiling Type Space R-Value Ins Type Area Framing Frac Truss Type		Туре	Ventila	ation	Vent Ratio	(1 in)	Area	RBS	IRC	CC			
√ # Ceiling Type Space R-Value Ins Type Area Framing Frac Truss Type	1	Full attic	Vent	ed	300	:	2438 ft²	Υ	N	I			
· · · · · · · · · · · · · · · · · · ·					CEILING	G							
1 Under Attic (Vented) Main 38 Double Batt 2560 ft² 0.11 Wood	V #	Ceiling Type		Space	R-Value	Ins Ty	/ре	Area	Fram	ing Fra	c Truss	Туре	
	1	Under Attic (Vented)		Main	38	Double I	Batt	2560 ft²	(	0.11	Wo	od	

## **INPUT SUMMARY CHECKLIST REPORT**

WALLS														
V #	Ornt	Adjace To		Туре	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
1	S	Exterior		me - Wood	Main	13	6		9	54.0 ft <sup>2</sup>		0.23	0.75	0
2	W	Exterior	Fra	me - Wood	Main	13	6		9	54.0 ft <sup>2</sup>		0.23	0.75	0
3	S	Exterior	Fra	me - Wood	Main	13	34		9	306.0 ft <sup>2</sup>		0.23	0.75	0
4	Е	Exterior	Fra	me - Wood	Main	13	4		9	36.0 ft <sup>2</sup>		0.23	0.75	0
5	S	Exterior	Fra	me - Wood	Main	13	11	4	9	102.0 ft <sup>2</sup>		0.23	0.75	0
6	Е	Garage	Fra	me - Wood	Main	13	13		9	117.0 ft <sup>2</sup>		0.23	0.75	0
7	S	Garage	Fra	me - Wood	Main	13	24		9	216.0 ft <sup>2</sup>		0.23	0.75	0
8	Е	Exterior	Fra	me - Wood	Main	13	36	4	9	327.0 ft <sup>2</sup>		0.23	0.75	0
9	Ν	Exterior	Fra	me - Wood	Main	13	24		9	216.0 ft <sup>2</sup>		0.23	0.75	0
10	W	Exterior	Fra	me - Wood	Main	13	24		9	216.0 ft <sup>2</sup>		0.23	0.75	0
11	Ν	Exterior	Fra	me - Wood	Main	13	45	4	9	408.0 ft <sup>2</sup>		0.23	0.75	0
12	W	Exterior	Fra	me - Wood	Main	13	6		9	54.0 ft <sup>2</sup>		0.23	0.75	0
13	Ν	Exterior	Fra	me - Wood	Main	13	6		9	54.0 ft <sup>2</sup>		0.23	0.75	0
14	W	Exterior	Fra	me - Wood	Main	13	20	8	9	186.0 ft <sup>2</sup>		0.23	0.75	0
DOORS														
$\checkmark$	#	Orn	t	Door Type	Space			Storms	U-Val	ue F	Width t In	Height Ft	In	Area
	1	S		Insulated	Main			None	.46	3	3	6	8	20 ft²
							DOWS							
				Ori	entation shov	wn is the e	ntered, F	Propose	d orientatio					
$\checkmark$	#	Wall Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	lmp	o Area		rhang Separation	Int Sha	de	Screening
	1	S 1	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft <sup>2</sup>	14 ft 0 in	0 ft 4 in	None	)	None
	2	S 3	Vinyl	Low-E Double	Yes	0.36	0.25	N	72.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None
	3	S 3	TIM	Low-E Double	Yes	0.36	0.25	N	48.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None
	4	S 5	Vinyl	Low-E Double	Yes	0.36	0.25	N	10.0 ft <sup>2</sup>	12 ft 6 in	0 ft 4 in	None	)	None
	5	E 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
	6	E 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	8.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	•	None
	7	E 8	Vinyl	Low-E Double	Yes	0.36	0.25	N	10.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
	8	N 9	Vinyl	Low-E Double	Yes	0.36	0.25	N	12.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
	9	N 9	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	None	)	None
	10	W 10	TIM	Low-E Double	Yes	0.36	0.25	N	24.0 ft <sup>2</sup>	6 ft 0 in	0 ft 4 in	None	)	None
	11	N 11	Vinyl	Low-E Double	Yes	0.36	0.25	N	24.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None
	12	N 11	Vinyl	Low-E Double	Yes	0.36	0.25	N	96.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None
	13	N 11	Vinyl	Low-E Double	Yes	0.36	0.25	N	36.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None
	14	W 14	Vinyl	Low-E Double	Yes	0.36	0.25	N	4.0 ft <sup>2</sup>	8 ft 6 in	0 ft 4 in	None	)	None

#### **INPUT SUMMARY CHECKLIST REPORT**

					GA	RAGE								
V	/ #	Floor Area	Ce	eiling Area	Exposed	Wall Per	imeter	Avg. Wall	Height	Expose	d Wall I	nsulatio	n	
	1	583.92 ft <sup>2</sup>	5	83.92 ft²	6	61.33 ft		9 ft			1			
					INFIL	TRATIO	ON							
#	Scope	Method		SLA	CFM 50	ELA	E	qLA .	ACH	ACH	50			
1	Wholehouse	Proposed AC	CH(50)	.000286	1828.5	100.32	18	8.33 .	1027	5				
					HEATIN	IG SYS	TEM							
V	/ #	System Type		Subtype	Speed		Efficiency	y Ca <sub>l</sub>	oacity			Block	Dı	ucts
	1	Electric Heat Pur	mp/	None	Singl		HSPF:8.2	2 37.84	kBtu/hr			1	sy	/s#1
					COOLIN	IG SYS	TEM							
V	/ #	System Type		Subtype	Subtyp	е	Efficiency	Capacity	Air F	Flow Sh	-IR	Block	Dı	ucts
	1	Central Unit/		None	Singl	;	SEER: 14	26.52 kBtu/	hr 810	cfm 0	.7	1	sy	/s#1
					HOT WA	TER SY	STEM							
V	/ #	System Type	SubType	Location	EF	Ca	ıp	Use	SetPnt		Con	servatio	n	
	1	Propane	Tankless	Exterior	0.59	1 g	al	40 gal	120 deg		ı	None		
				SOL	AR HOT	WATER	SYSTE	ΞM						
V	FSE0 Cert		ame		System Mo	odel#	Co	ollector Mode		ollector Area	Storaç Volun	-	FEF	
	None	e None								ft²				
					D	UCTS								
\/	/ #	Supp Location R-	oly Value Area	Reti	urn Area	l eaka	де Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC#
		Attic	6 609.5 ft	Attic	121.9 ft		Leakage	Garage		(Default)	QIN	IXLI	1	1

### **INPUT SUMMARY CHECKLIST REPORT**

TEMPERATURES														
Programa	able Thermo	stat: Y			С	eiling Fans	S:							
Cooling Heating Venting	[ ] Jan [X] Jan [ ] Jan	[ ] Feb [X] Feb [ ] 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] S [ ] S [ ] S	ep ep ep	Oct Oct X Oct	[ ] Nov [X] Nov [X] Nov	Dec [X] Dec Dec
Thermostat	Schedule:	HERS 200	6 Reference	,				Ног	urs					
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 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 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	78 78
Heating (W	D)	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 (W	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			Thickness	F	urniture Fra	ction		Space		
Def	fault(8 lbs/sc	η.ft.		0 ft²			0 ft		0.3			Main		

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

#### ESTIMATED ENERGY PERFORMANCE INDEX\* = 85

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

138 SW Mossy Oak Way, Lake City, FL, 32025

New (From Plans)	<ol><li>Wall Type and Insulation</li></ol>	Insulation Area
Detached	•	R=13.0 2013.00 ft <sup>2</sup> R=13.0 333.00 ft <sup>2</sup>
1	c. N/A	R= 533.00 ft <sup>2</sup>
3	d. N/A	R= ft²
No	<ol> <li>Ceiling Type and insulation level a. Under Attic (Vented)</li> </ol>	Insulation Area R=38.0 2560.00 ft <sup>2</sup>
2438	b. N/A	R= ft²
n Area 36 396.00 ft² 25	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage	R= ft² R ft² 6 609.5
ft²		
ft²	13. Cooling systems a. Central Unit	kBtu/hr Efficiency 26.5 SEER:14.00
ft²	14. Heating systems	kBtu/hr Efficiency
Depth: 7.253 ft. 0.250	a. Electric Heat Pump	37.8 HSPF:8.20
n Area ft²	15. Hot water systems a. Propane	Cap: 1 gallons EF: 0.59
Insulation Area	<ul><li>b. Conservation features</li><li>None</li></ul>	
R=0.0 2438.00 ft <sup>2</sup> R= ft <sup>2</sup> R= ft <sup>2</sup>	Credits (Performance method)	CV, Pstat
	1 3 No 2438 Area 6 396.00 ft² 25 ft² ft² ft² ft²  ft²  ft²  ft²  ft²  f	Detached  a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A  11. Ceiling Type and insulation level a. Under Attic (Vented) b. N/A c. N/A c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Garage  ft² 13. Cooling systems a. Central Unit  ft² 14. Heating systems a. Electric Heat Pump  15. Hot water systems a. Propane  b. Conservation features None  Credits (Performance method)

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:	A



\*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.