


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Mitchell Residence Street: 174 SW Wisdom Way City, State, Zip: Lake City , FL , 32025 Owner: Mitchell Design Location: FL, Gainesville	Builder Name: Mitchell Permit Office: Columbia Permit Number: Jurisdiction: 221000 County: Columbia (Florida Climate Zone 2)
---	--

<table style="width: 100%;"> <tr> <td style="width: 30%;">1. New construction or existing</td> <td style="width: 70%;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>2025</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(197.2 sqft.)</td> <td> <table style="width: 100%;"> <tr> <th style="width: 30%;">Description</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.47</td> <td>157.00 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.31</td> <td></td> </tr> <tr> <td>b. U-Factor: Dbl, U=0.49</td> <td>40.20 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.32</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.000 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.312</td> </tr> </table> </td> </tr> <tr> <td>8. Skylights</td> <td>Area</td> </tr> <tr> <td>c. U-Factor:(AVG) N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC(AVG): N/A</td> <td></td> </tr> <tr> <td>9. Floor Types (2025.0 sqft.)</td> <td> <table style="width: 100%;"> <tr> <th style="width: 30%;">Insulation</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 2025.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table> </td> </tr> </table>	1. New construction or existing	New (From Plans)	2. Single family or multiple family	Detached	3. Number of units, if multiple family	1	4. Number of Bedrooms	3	5. Is this a worst case?	No	6. Conditioned floor area above grade (ft²)	2025	Conditioned floor area below grade (ft²)	0	7. Windows(197.2 sqft.)	<table style="width: 100%;"> <tr> <th style="width: 30%;">Description</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.47</td> <td>157.00 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.31</td> <td></td> </tr> <tr> <td>b. U-Factor: Dbl, U=0.49</td> <td>40.20 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.32</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.000 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.312</td> </tr> </table>	Description	Area	a. U-Factor: Dbl, U=0.47	157.00 ft²	SHGC: SHGC=0.31		b. U-Factor: Dbl, U=0.49	40.20 ft²	SHGC: SHGC=0.32		c. U-Factor: N/A	ft²	SHGC:		Area Weighted Average Overhang Depth:	2.000 ft.	Area Weighted Average SHGC:	0.312	8. Skylights	Area	c. U-Factor:(AVG) N/A	ft²	SHGC(AVG): N/A		9. Floor Types (2025.0 sqft.)	<table style="width: 100%;"> <tr> <th style="width: 30%;">Insulation</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 2025.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	Insulation	Area	a. Slab-On-Grade Edge Insulation	R=0.0 2025.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²	<table style="width: 100%;"> <tr> <td style="width: 30%;">10. Wall Type\$1632.0 sqft.)</td> <td style="width: 40%;">Insulation</td> <td style="width: 30%;">Area</td> </tr> <tr> <td>a. Face Brick - Block, Exterior</td> <td>R=5.0</td> <td>1632.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>d. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>11. Ceiling Types (2025.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Under Attic (Vented)</td> <td>R=30.0</td> <td>2025.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A</td> <td>R=</td> <td>ft²</td> </tr> <tr> <td>12. Ducts</td> <td></td> <td>R ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Storage</td> <td></td> <td>6 164</td> </tr> <tr> <td>13. Cooling systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>40.0</td> <td>SEER:16.00</td> </tr> <tr> <td>14. Heating systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>40.0</td> <td>HSPF:9.00</td> </tr> <tr> <td>15. Hot water systems</td> <td></td> <td>Cap: 50 gallons</td> </tr> <tr> <td>a. Electric</td> <td></td> <td>EF: 0.945</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td></td> </tr> <tr> <td>None</td> <td></td> <td></td> </tr> <tr> <td>16. Credits</td> <td></td> <td>CF, Pstat</td> </tr> </table>	10. Wall Type\$1632.0 sqft.)	Insulation	Area	a. Face Brick - Block, Exterior	R=5.0	1632.00 ft²	b. N/A	R=	ft²	c. N/A	R=	ft²	d. N/A	R=	ft²	11. Ceiling Types (2025.0 sqft.)	Insulation	Area	a. Under Attic (Vented)	R=30.0	2025.00 ft²	b. N/A	R=	ft²	c. N/A	R=	ft²	12. Ducts		R ft²	a. Sup: Attic, Ret: Attic, AH: Storage		6 164	13. Cooling systems	kBtu/hr	Efficiency	a. Central Unit	40.0	SEER:16.00	14. Heating systems	kBtu/hr	Efficiency	a. Electric Heat Pump	40.0	HSPF:9.00	15. Hot water systems		Cap: 50 gallons	a. Electric		EF: 0.945	b. Conservation features			None			16. Credits		CF, Pstat
1. New construction or existing	New (From Plans)																																																																																																														
2. Single family or multiple family	Detached																																																																																																														
3. Number of units, if multiple family	1																																																																																																														
4. Number of Bedrooms	3																																																																																																														
5. Is this a worst case?	No																																																																																																														
6. Conditioned floor area above grade (ft²)	2025																																																																																																														
Conditioned floor area below grade (ft²)	0																																																																																																														
7. Windows(197.2 sqft.)	<table style="width: 100%;"> <tr> <th style="width: 30%;">Description</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.47</td> <td>157.00 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.31</td> <td></td> </tr> <tr> <td>b. U-Factor: Dbl, U=0.49</td> <td>40.20 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.32</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.000 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.312</td> </tr> </table>	Description	Area	a. U-Factor: Dbl, U=0.47	157.00 ft²	SHGC: SHGC=0.31		b. U-Factor: Dbl, U=0.49	40.20 ft²	SHGC: SHGC=0.32		c. U-Factor: N/A	ft²	SHGC:		Area Weighted Average Overhang Depth:	2.000 ft.	Area Weighted Average SHGC:	0.312																																																																																												
Description	Area																																																																																																														
a. U-Factor: Dbl, U=0.47	157.00 ft²																																																																																																														
SHGC: SHGC=0.31																																																																																																															
b. U-Factor: Dbl, U=0.49	40.20 ft²																																																																																																														
SHGC: SHGC=0.32																																																																																																															
c. U-Factor: N/A	ft²																																																																																																														
SHGC:																																																																																																															
Area Weighted Average Overhang Depth:	2.000 ft.																																																																																																														
Area Weighted Average SHGC:	0.312																																																																																																														
8. Skylights	Area																																																																																																														
c. U-Factor:(AVG) N/A	ft²																																																																																																														
SHGC(AVG): N/A																																																																																																															
9. Floor Types (2025.0 sqft.)	<table style="width: 100%;"> <tr> <th style="width: 30%;">Insulation</th> <th style="width: 70%;">Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 2025.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	Insulation	Area	a. Slab-On-Grade Edge Insulation	R=0.0 2025.00 ft²	b. N/A	R= ft²	c. N/A	R= ft²																																																																																																						
Insulation	Area																																																																																																														
a. Slab-On-Grade Edge Insulation	R=0.0 2025.00 ft²																																																																																																														
b. N/A	R= ft²																																																																																																														
c. N/A	R= ft²																																																																																																														
10. Wall Type\$1632.0 sqft.)	Insulation	Area																																																																																																													
a. Face Brick - Block, Exterior	R=5.0	1632.00 ft²																																																																																																													
b. N/A	R=	ft²																																																																																																													
c. N/A	R=	ft²																																																																																																													
d. N/A	R=	ft²																																																																																																													
11. Ceiling Types (2025.0 sqft.)	Insulation	Area																																																																																																													
a. Under Attic (Vented)	R=30.0	2025.00 ft²																																																																																																													
b. N/A	R=	ft²																																																																																																													
c. N/A	R=	ft²																																																																																																													
12. Ducts		R ft²																																																																																																													
a. Sup: Attic, Ret: Attic, AH: Storage		6 164																																																																																																													
13. Cooling systems	kBtu/hr	Efficiency																																																																																																													
a. Central Unit	40.0	SEER:16.00																																																																																																													
14. Heating systems	kBtu/hr	Efficiency																																																																																																													
a. Electric Heat Pump	40.0	HSPF:9.00																																																																																																													
15. Hot water systems		Cap: 50 gallons																																																																																																													
a. Electric		EF: 0.945																																																																																																													
b. Conservation features																																																																																																															
None																																																																																																															
16. Credits		CF, Pstat																																																																																																													

Glass/Floor Area: 0.097	Total Proposed Modified Loads: 42.00	PASS
	Total Baseline Loads: 48.73	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: John Pirkle _____</p> <p>DATE: 05/10/2022 _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>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.</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
--	---

- 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 5.82 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT											
Title:	Mitchell Residence	Bedrooms:	3	Address Type:	Street Address						
Building Type:	User	Conditioned Area:	2025	Lot #							
Owner Name:	Mitchell	Total Stories:	1	Block/Subdivision:							
# of Units:	1	Worst Case:	No	PlatBook:							
Builder Name:	Mitchell	Rotate Angle:	0	Street:	174 SW Wisdom Way						
Permit Office:	Columbia	Cross Ventilation:	No	County:	Columbia						
Jurisdiction:	221000	Whole House Fan:	No	City, State, Zip:	Lake City ,						
Family Type:	Detached				FL , 32025						
New/Existing:	New (From Plans)										
Comment:											
CLIMATE											
✓	Design Location	TMY Site	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range		
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium		
BLOCKS											
	Number	Name	Area	Volume							
	1	Entire House	2025	16200							
SPACES											
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
	1	Bedroom #2	165	1320	No	1	1	1	Yes	Yes	Yes
	2	Bedroom #3	132	1056	No	1	1	1	Yes	Yes	Yes
	3	Mstr Bedroom	226	1808	No	2	1	1	Yes	Yes	Yes
	4	Family Room	480	3840	No	0		1	Yes	Yes	Yes
	5	Storage	105	840	No	0		1	Yes	Yes	Yes
	6	Laundry	63	504	No	0		1	Yes	Yes	Yes
	7	Office #2	110	880	No	0		1	Yes	Yes	Yes
	8	Office	110	880	No	0		1	Yes	Yes	Yes
	9	Bathrm	60	480	No	0		1	Yes	Yes	Yes
	10	Bath #2	72	576	No	0		1	Yes	Yes	Yes
	11	Kitchen/Dining	502	4016	Yes	0		1	Yes	Yes	Yes
FLOORS											
✓	#	Floor Type	Space	Perimeter	Perimeter	R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Bedroom #2	26 ft		0	165 ft²	---	1	0	0
_____	2	Slab-On-Grade Edge Insulatio	Bedroom #3	12 ft		0	132 ft²	---	1	0	0
_____	3	Slab-On-Grade Edge Insulatio	Mstr Bedroom	31 ft		0	226 ft²	---	1	0	0
_____	4	Slab-On-Grade Edge Insulatio	Family Room	44 ft		0	480 ft²	---	1	0	0
_____	5	Slab-On-Grade Edge Insulatio	Storage	22 ft		0	105 ft²	---	1	0	0
_____	6	Slab-On-Grade Edge Insulatio	Laundry	9 ft		0	63 ft²	---	1	0	0

INPUT SUMMARY CHECKLIST REPORT

FLOORS

✓	#	Floor Type	Space	Perimeter	Perimeter	R-Value	Area	Joist R-Value	Tile	Wood	Carpet
✓	7	Slab-On-Grade Edge Insulatio	Office #2	10 ft		0	110 ft²	---	1	0	0
✓	8	Slab-On-Grade Edge Insulatio	Office	10 ft		0	110 ft²	---	1	0	0
✓	9	Slab-On-Grade Edge Insulatio	Bathrm	5 ft		0	60 ft²	---	1	0	0
✓	10	Slab-On-Grade Edge Insulatio	Bath #2	6 ft		0	72 ft²	---	1	0	0
✓	11	Slab-On-Grade Edge Insulatio	Kitchen/Dining	29 ft		0	502 ft²	---	1	0	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
✓	1	Gable or Shed	Composition shingles	2134 ft²	338 ft²	Medium	N	0.9	No	0.9	No	0	18.43

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Vented	150	2025 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
✓	1	Under Attic (Vented)	Bedroom #2	30	Blown	165 ft²	0.1	Wood
✓	2	Under Attic (Vented)	Bedroom #3	30	Blown	132 ft²	0.1	Wood
✓	3	Under Attic (Vented)	Mstr Bedroom	30	Blown	226 ft²	0.1	Wood
✓	4	Under Attic (Vented)	Family Room	30	Blown	480 ft²	0.1	Wood
✓	5	Under Attic (Vented)	Storage	30	Blown	105 ft²	0.1	Wood
✓	6	Under Attic (Vented)	Laundry	30	Blown	63 ft²	0.1	Wood
✓	7	Under Attic (Vented)	Office #2	30	Blown	110 ft²	0.1	Wood
✓	8	Under Attic (Vented)	Office	30	Blown	110 ft²	0.1	Wood
✓	9	Under Attic (Vented)	Bathrm	30	Blown	60 ft²	0.1	Wood
✓	10	Under Attic (Vented)	Bath #2	30	Blown	72 ft²	0.1	Wood
✓	11	Under Attic (Vented)	Kitchen/Dining	30	Blown	502 ft²	0.1	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
✓	1	E	Exterior	Face Brick - Block	Bedroom #2	5	15	0	8	0	120.0 ft²	0	0	0.32	0
✓	2	S	Exterior	Face Brick - Block	Bedroom #2	5	11	0	8	0	88.0 ft²	0	0	0.32	0
✓	3	E	Exterior	Face Brick - Block	Bedroom #3	5	12	0	8	0	96.0 ft²	0	0	0.32	0
✓	4	S	Exterior	Face Brick - Block	Mstr Bedroo	5	16	0	8	0	128.0 ft²	0	0	0.32	0
✓	5	W	Exterior	Face Brick - Block	Mstr Bedroo	5	15	0	8	0	120.0 ft²	0	0	0.32	0
✓	6	N	Exterior	Face Brick - Block	Family Room	5	20	0	8	0	160.0 ft²	0	0	0.32	0
✓	7	E	Exterior	Face Brick - Block	Family Room	5	24	0	8	0	192.0 ft²	0	0	0.32	0
✓	8	N	Exterior	Face Brick - Block	Storage	5	7	0	8	0	56.0 ft²	0	0	0.32	0

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
9	W	Exterior	Face Brick - Block	Storage	5	15	0	8	0	120.0 ft²	0	0	0.32	0
10	W	Exterior	Face Brick - Block	Laundry	5	9	0	8	0	72.0 ft²	0	0	0.32	0
11	E	Exterior	Face Brick - Block	Office #2	5	10	0	8	0	80.0 ft²	0	0	0.32	0
12	E	Exterior	Face Brick - Block	Office	5	10	0	8	0	80.0 ft²	0	0	0.32	0
13	W	Exterior	Face Brick - Block	Bathrm	5	5	0	8	0	40.0 ft²	0	0	0.32	0
14	W	Exterior	Face Brick - Block	Bath #2	5	6	0	8	0	48.0 ft²	0	0	0.32	0
15	E	Exterior	Face Brick - Block	Kitchen/Dinin	5	4	0	8	0	32.0 ft²	0	0	0.32	0
16	W	Exterior	Face Brick - Block	Kitchen/Dinin	5	25	0	8	0	200.0 ft²	0	0	0.32	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	E	Insulated	Kitchen/Dinin	Metal	.29	3		6	8	20 ft²
2	W	Insulated	Kitchen/Dinin	Metal	.29	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	E	1	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
2	S	2	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
3	E	3	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
4	S	4	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
5	W	5	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
6	N	6	Vinyl	Low-E Double	Yes	0.49	0.32	N	40.2 ft²	2 ft 0 in	1 ft 0 in	None	None
7	E	7	Vinyl	Low-E Double	Yes	0.47	0.31	N	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
8	W	9	Vinyl	Low-E Double	Yes	0.47	0.31	N	8.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
9	W	10	Vinyl	Low-E Double	Yes	0.47	0.31	N	8.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
10	E	11	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
11	E	12	Vinyl	Low-E Double	Yes	0.47	0.31	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
12	W	13	Vinyl	Low-E Double	Yes	0.47	0.31	N	4.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
13	W	16	Vinyl	Low-E Double	Yes	0.47	0.31	N	2.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000296	1571.4	86.21	161.85	.114	5.82

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM																								
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts																
	1	Electric Heat Pump/	Split	Singl	HSPF:9	40 kBtu/hr	1	sys#1																
COOLING SYSTEM																								
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts														
	1	Central Unit/	Split	Singl	SEER: 16	40 kBtu/hr	1400 cfm	0.7	1	sys#1														
HOT WATER SYSTEM																								
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation															
	1	Electric	None	Storage	0.945	50 gal	62.3 gal	120 deg	None															
SOLAR HOT WATER SYSTEM																								
✓	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF																	
	None	None			ft²																			
DUCTS																								
✓	#	Location	Supply R-Value	Area	Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool										
	1	Attic	6	164 ft²	Attic	58 ft²	Default Leakage	Storage	(Default)	(Default)			1	1										
TEMPERATURES																								
Programable Thermostat: Y																								
Ceiling Fans:																								
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Thermostat Schedule: HERS 2006 Reference																								
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12											
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80										
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78										
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78										
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78										
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68										
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66										
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68										
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66										
MASS																								
Mass Type		Area		Thickness		Furniture Fraction		Space																
Default(8 lbs/sq.ft.		0 ft²		0 ft		0.3		Bedroom #2																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Bedroom #3																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Mstr Bedroom																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Family Room																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Storage																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Laundry																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Office #2																
Default(8 lbs/sq.ft.		ft²		ft		0.3		Office																

INPUT SUMMARY CHECKLIST REPORT

MASS				
Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Bathrm
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Bath #2
Default(8 lbs/sq.ft.	ft ²	ft	0.3	Kitchen/Dining

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 86

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

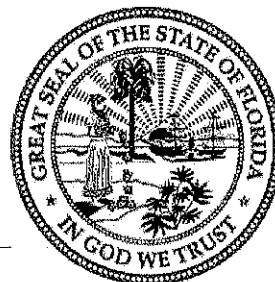
174 SW Wisdom Way, Lake City, FL, 32025

1. New construction or existing	New (From Plans)		10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached		a. Face Brick - Block, Exterior	R=5.0	1632.00 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	3		c. N/A	R=	ft ²
5. Is this a worst case?	No		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2025		11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	2025.00 ft ²
a. U-Factor:	DbI, U=0.47	157.00 ft ²	b. N/A	R=	ft ²
SHGC:	SHGC=0.31		c. N/A	R=	ft ²
b. U-Factor:	DbI, U=0.49	40.20 ft ²	12. Ducts, location & insulation level	R	ft ²
SHGC:	SHGC=0.32		a. Sup: Attic, Ret: Attic, AH: Storage	6	164
c. U-Factor:	N/A	ft ²	13. Cooling systems	kBtu/hr	Efficiency
SHGC:			a. Central Unit	40.0	SEER:16.00
d. U-Factor:	N/A	ft ²	14. Heating systems	kBtu/hr	Efficiency
SHGC:			a. Electric Heat Pump	40.0	HSPF:9.00
Area Weighted Average Overhang Depth:	2.000 ft.		15. Hot water systems	Cap: 50 gallons	
Area Weighted Average SHGC:	0.312		a. Electric	EF: 0.94	
8. Skylights	Description	Area	b. Conservation features		
a. U-Factor(AVG):	N/A	ft ²	None		
SHGC(AVG):	N/A		Credits (Performance method)		CF, Pstat
9. Floor Types	Insulation	Area			
a. Slab-On-Grade Edge Insulation	R=0.0	2025.00 ft ²			
b. N/A	R=	ft ²			
c. N/A	R=	ft ²			

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
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA ^a

Project Name: Mitchell Residence Street: 174 SW Wisdom Way City, State, Zip: Lake City , FL , 32025 Owner: Mitchell Design Location: FL, Gainesville		Builder Name: Mitchell Permit Office: Columbia Permit Number: Jurisdiction: 221000		CHECK
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.		
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 spaces.			
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 on 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 ceiling			
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.