

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 92****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>3</u>	c) AHU location	Main
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>46.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>2455</u>	a) Split system	SEER <u> </u>
7. Windows, type and area		b) Single package	SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.330</u>	c) Ground/water source	SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.230</u>	d) Room unit/PTAC	EER <u> </u>
c) Area	7c. <u>532.5</u>	e) Other	<u>14.0</u>
8. Skylights		14. Heating system:	Capacity <u>45.5</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG	AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other	<u>8.20</u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u>0.92</u>
1. Wood frame (Insulation R-value)	10A1. <u>19.0</u>	b) Gas fired, natural gas	EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG	EF <u> </u>
B. Adjacent:		d) Solar system with tank	EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank	EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit	HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other	
a) Under attic	11a. <u>19.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u> </u>	a) Ceiling fans	<u>Yes</u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation	<u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u> </u>
		e) Multizone heating credit	<u> </u>
		f) Programmable thermostat	<u>Yes</u>

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

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: 846 SW Woodland AveCity/FL Zip: Fort White, FL

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: R&M Burkes Res
 Street: 846 SW Woodland Ave
 City, State, Zip: Fort White, FL,
 Owner: Burkes
 Design Location: FL, Gainesville

Builder Name: R&M
 Permit Office: .
 Permit Number:
 Jurisdiction:
 County: Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
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 (ft ²)	2455
Conditioned floor area below grade (ft ²)	0
7. Windows (532.5 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 532.50 ft ²
SHGC:	SHGC=0.23
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	1.500 ft.
Area Weighted Average SHGC:	0.230
8. Floor Types (2455.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2455.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types (2232.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=19.0 2232.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (2455.0 sqft.)	Insulation Area
a. Roof Deck (Unvented)	R=19.0 2455.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Main	6 491

12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	46.0 SEER:14.00

13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	45.5 HSPF:8.20

14. Hot water systems	Cap: 40 gallons
a. Electric	EF: 0.920
b. Conservation features	
None	

15. Credits	CF, Pstat
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Glass/Floor Area: 0.217

Total Proposed Modified Loads: 60.48

Total Baseline Loads: 65.88

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: [Signature] (Tiger Seal) 4/13/20
 DATE: 4/13/20

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [Signature]
 DATE: 4/13/20

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).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	R&M Burkes Res	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2455	Lot #	
Owner Name:	Burkes	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	R&M	Rotate Angle:	0	Street:	846 SW Woodland Ave
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Fort White , FL ,
Family Type:	Single-family				
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	Block1	2455	22095

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2455	22095	Yes	3	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	248 ft	0	2455 ft²	----	0.22	0.22	0.56

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2659 ft²	510 ft²	Medium	N	0.96	No	0.9	No	19	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Unvented	0	2455 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Unvented)	Main	19	Blown	2455 ft²	0.11	Wood

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%
1	W	Exterior	Frame - Wood	Main	19	76		9		684.0 ft²		0.11	0.11	0
2	N	Exterior	Frame - Wood	Main	19	48		9		432.0 ft²		0.11	0.11	0
3	E	Exterior	Frame - Wood	Main	19	76		9		684.0 ft²		0.11	0.11	0
4	S	Exterior	Frame - Wood	Main	19	48		9		432.0 ft²		0.11	0.11	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	W	Insulated	Main	None	.46	1		8		8 ft²
2	N	Insulated	Main	None	.46	1		6	8	6.7 ft²
3	E	Insulated	Main	None	.46	1		8		8 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	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	30.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
2	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	84.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
3	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	18.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
4	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	24.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
5	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	16.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
6	W	1	Vinyl	Low-E Double	Yes	0.33	0.23	N	40.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
7	N	2	Vinyl	Low-E Double	Yes	0.33	0.23	N	6.7 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
8	N	2	Vinyl	Low-E Double	Yes	0.33	0.23	N	15.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
9	N	2	Vinyl	Low-E Double	Yes	0.33	0.23	N	13.3 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
10	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	60.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
11	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	20.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
12	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	25.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
13	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	18.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
14	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	40.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
15	E	3	Vinyl	Low-E Double	Yes	0.33	0.23	N	88.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
16	S	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	30.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
17	S	4	Vinyl	Low-E Double	Yes	0.33	0.23	N	4.5 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1841.3	101.08	190.1	.1128	5

INPUT SUMMARY CHECKLIST REPORT**HEATING SYSTEM**

☒	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
☐	1	Electric Heat Pump/	None	HSPF:8.2	45.5 kBtu/hr	1	sys#1

COOLING SYSTEM

☒	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
☐	1	Central Unit/	None	SEER: 14	46 kBtu/hr	1380 cfm	0.75	1	sys#1

HOT WATER SYSTEM

☒	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
☐	1	Electric	None	Main	0.92	40 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

☒	FSEC Cert #	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 Cool
☐	1	Attic	6	491 ft²	Attic	122.75	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans:																				
Cooling	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☒	Nov	☒	Dec
Heating	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☒	Nov	☒	Dec
Venting	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☒	Nov	☒	Dec
Thermostat Schedule: HERS 2006 Reference				Hours																				
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	80	80	80	80											
	PM	80	80	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											
	PM	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											
	PM	68	68	68	68	68	68	68	68	68	68	68	68											
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68											
	PM	68	68	68	68	68	68	68	68	68	68	68	68											

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main