

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Drew Castoral Street: 462 SW Barney Street City, State, Zip: High Springs, FL, Owner: Drew Castoral Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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Glass/Floor Area: 0.019	Total Proposed Modified Loads: 46.85	PASS
	Total Baseline Loads: 63.64	


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

PREPARED BY: [Signature] (Fight Seal Inc)
 DATE: 5/6/21

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).
- Proposed Qn of NAN exceeds the performance method default limit of 0.08 and therefore does not require duct testing. R405.2.3

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Drew Castoral	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2460	Lot #	
Owner Name:	Drew Castoral	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	462 SW Barney Street
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	High Springs , FL ,
Family Type:	Detached				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating Degree Days	Design Moisture	Daily Temp Range
			97.5 %	2.5 %	Winter	Summer			
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	1230	22140
2	Block2	1230	12300

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	1230	22140	Yes	1	1	1	Yes	Yes	Yes
2	NewSpace2	1230	12300	No	1	1	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	200 ft	0	2460 ft²	_____	0.22	0.22	0.56

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	Metal	2513 ft²	256 ft²	Light	N	0.96	No	0.9	No	21	11.77

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	No attic	Unvented	0	2460 ft²	N	N

INPUT SUMMARY CHECKLIST REPORT

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
	1	Under Attic (Unvented)	Main	21	Blown	2460 ft ²	0.11	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	S	Exterior	Frame - Steel	NewSpace2	21	40		18		720.0 ft ²		0.011	0.109999	0
	2	W	Exterior	Frame - Steel	NewSpace2	21	60		10		600.0 ft ²		0.011	0.109999	0
	3	N	Exterior	Frame - Steel	Main	21	40		18		720.0 ft ²		0.011	0.109999	0
	4	E	Exterior	Frame - Steel	Main	21	60		10		600.0 ft ²		0.011	0.109999	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
	1	S	Insulated	NewSpace2	None	.46	3	6	8		28 ft ²
	2	S	Insulated	NewSpace2	Metal	.46	7		8		56 ft ²
	3	N	Insulated	Main	None	.46	3	2	8		25.3 ft ²
	4	N	Insulated	Main	None	.46	3	2	8		25.3 ft ²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
	1	S	1	Vinyl	Low-E Double	Yes	0.35	0.25	N	30.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
	2	W	2	Vinyl	Low-E Double	Yes	0.35	0.25	N	16.0 ft ²	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)	.000444	2870	157.46	295.61	.1226	5

HEATING SYSTEM

✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
	1	Window/Wall Heat Pump/	None	Singl	HSPF:7.7	11 kBtu/hr	1	Ductless
	2	Window/Wall Heat Pump/	None	Singl	HSPF:7.7	11 kBtu/hr	2	Ductless

COOLING SYSTEM

✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	PTAC and Room Unit/	None	Singl	EER: 10.8	17.6 kBtu/hr	528 cfm	0.75	1	Ductless
	2	PTAC and Room Unit/	None	Singl	EER: 10.8	17.6 kBtu/hr	528 cfm	0.75	2	Ductless

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
✓	1	Electric	Tankless	Main	0.92	1 gal	50 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF							
✓	None	None			ft ²									
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 type="checkbox"/> Nov	<input 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 type="checkbox"/> Nov	<input 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 type="checkbox"/> Nov	<input 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	66	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	66	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 ft ²		0 ft		0.3		Main					
Default(8 lbs/sq.ft.			0 ft ²		0 ft		0.3		NewSpace2					

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 74

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

462 SW Barney Street, High Springs, FL,

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<p>7. Windows**</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">a. U-Factor:</td> <td style="width: 35%;">Dbl, U=0.35</td> <td style="width: 15%;">Area</td> <td style="width: 35%;">46.00 ft²</td> </tr> <tr> <td></td> <td>SHGC=0.25</td> <td></td> <td></td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A</td> <td></td> <td>ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A</td> <td></td> <td>ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> <td></td> </tr> <tr> <td>d. U-Factor:</td> <td>N/A</td> <td></td> <td>ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> <td></td> </tr> </table> <p>Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.250</p>	a. U-Factor:	Dbl, U=0.35	Area	46.00 ft ²		SHGC=0.25			b. U-Factor:	N/A		ft ²		SHGC:			c. U-Factor:	N/A		ft ²		SHGC:			d. U-Factor:	N/A		ft ²		SHGC:			<p>8. Skylights</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">a. U-Factor(AVG):</td> <td style="width: 35%;">N/A</td> <td style="width: 15%;">Area</td> <td style="width: 35%;">ft²</td> </tr> <tr> <td></td> <td>SHGC(AVG):</td> <td></td> <td>N/A</td> </tr> </table>	a. U-Factor(AVG):	N/A	Area	ft ²		SHGC(AVG):		N/A	<p>13. Cooling systems</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;"></td> <td style="width: 35%;">a. PTAC and Room Unit</td> <td style="width: 15%;">kBTu/hr</td> <td style="width: 35%;">Efficiency</td> </tr> <tr> <td></td> <td>b. PTAC and Room Unit</td> <td>17.6</td> <td>EER:10.80</td> </tr> <tr> <td></td> <td></td> <td>17.6</td> <td>EER:10.80</td> </tr> </table>		a. PTAC and Room Unit	kBTu/hr	Efficiency		b. PTAC and Room Unit	17.6	EER:10.80			17.6	EER:10.80
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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.