FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Blackwell Street: City, State, Zip: , FL , Owner: Blackwell Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Clima	ate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(296.4 sqft.) Description a. U-Factor: Dbl, U=0.40 SHGC: SHGC=0.30 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: New (From Plans) Detached 1 Area Plans 1 Area Plans 1 Area Plans 1 Area Plans Detached 1 Area 1 4 1 4 1 1 1 1 1 1 1 1 1	10. Wall Type≰2133.3 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types (1408.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 12. Ducts a. Sup: Attic, Ret: Attic, AH: Main 13. Cooling systems a. Central Unit 14. Heating systems a. Electric Heat Pump	Insulation Area R=19.0 2133.30 ft² R= ft² R= ft² R= ft² Insulation Area R=38.0 1408.00 ft² R= ft² R= ft² R= ft² R ft² SEER:14.00 kBtu/hr Efficiency 39.5 HSPF:8.20
8. Skylights c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (1408.0 sqft.) Insulation Area a. Raised Floor R=19.0 1408.00 ft² b. N/A R= ft² c. N/A R= ft²	15. Hot water systems a. Electric b. Conservation features None 16. Credits	Cap: 40 gallons EF: 0.920 CF, Pstat
Glass/Floor Area: 0.211 Total Proposed Modification Total Baseline		PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: 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:	GREAT SOLUTION TO STATE OF THE

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 oject requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

							WA	ALLS							
V #	Ornt		Adjace To	nt	Туре	Space	Cavity R-Value	Wid		Height Ft In	Area	Sheathing	Framing Fraction	Solar	Belo
1	Om		xterior		ne - Wood	Main	19	49		15	740.0 ft²	K-value	0.111	0.1500	
2	E		xterior	Frai	me - Wood	Main	19	30		15	450.0 ft ²		0.111	0.1500	00
3	s	E	xterior	Fran	me - Wood	Main	19	49	4	10	493.3 ft²		0.111	0.1500	00
4	W	E	xterior	Fran	me - Wood	Main	19	30	10	15	450.0 ft ²		0.111	0.1500	
							DO	ors							
\checkmark	#		Ornt		Door Type	Space			Storms	U-Valu	je F	Width t In	Heigh Ft	it In	Area
	1		N		Insulated	Main			None	.46	3		8		24 ft²
	2		S		Insulated	Main			None	.46	1		6	8	6.7 ft ²
	3		S		Insulated	Main			None	.46			6	8	6.7 ft ²
						160		ows				10 10 0 00			101
		_	Wall		Orio	entation show	wn is the er	ntered, F	roposed	orientation	9	rhang	_		
\checkmark	#	Ornt		Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separation	Int Sh	ade	Screen
	1	N	1	Vinyl	Low-E Double	Yes	0.4	0.3	N	27.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	2	N	1	Vinyl	Low-E Double	Yes	0.4	0.3	N	72.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/		None
	3	N	1	Vinyl	Low-E Double	Yes	0.4	0.3	N	16.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/		None
20	4	E	2	Vinyl	Low-E Double	Yes	0.4	0.3	N	18.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
4	5	Е	2	Vinyl	Low-E Double	Yes	0.4	0.3	N	12.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	6	S	3	Vinyl	Low-E Double	Yes	0.4	0.3	N	24.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	7	S	3	Vinyl	Low-E Double	Yes	0.4	0.3	N	66.7 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	8	S	3	Vinyl	Low-E Double	Yes	0.4	0.3	N	3.8 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	9	W	4	Vinyl	Low-E Double	Yes	0.4	0.3	N	36.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	10	W	4	Vinyl	Low-E Double	Yes	0.4	0.3	Ν	9.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
	11	W	4	Vinyl	Low-E Double	Yes	0.4	0.3	N	12.0 ft ²	1 ft 6 in	1 ft 6 in	Drapes/	olinds	None
							INFILT	RATIO	N				3 9		n h
											4011	4.01			- 5-
	Scope			lethod		A STATE OF THE STA	FM 50	ELA 06 56	1000	qLA	ACH		H 50		
Who	olehous		Fiopo	sed AC	H(50) .000		1760	96.56		31.28	.126		5		
. 7		_					HEATING							Dia ele	Dest
	#	Cin	stem T	VDA	Sul	otype	Speed		Efficienc	v (Capacity			Block	Ducts



RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

	ations for compliance with the 2020 Florida Building Code, Energy Conservation via the ntial Simulated Performance Alternative shall include:
	This checklist
ď	Form R405-2020 report
₫	Input summary checklist that can be used for field verification (usually four pages/may be greater)
₫	Energy Performance Level (EPL) Display Card (one page)
1	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
J	Mandatory Requirements (five pages)
Req	uired prior to CO:
b	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed 2020 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report - Performance Method (usually one page)

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 91

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

, , FL,

1.	New construction or exis	sting	New (Fr	om Plans)	Wall Type and Insulation	Insulation	Area
2.	Single family or multiple	family	Detached a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 11. Ceiling Type and insulation level a. Under Attic (Vented)		R=19.0	2133.30 ft ²	
3.	Number of units, if multi	ple family				R= R=	ft² ft²
	Number of Bedrooms	•				R=	ft²
	Is this a worst case?				그림 그림이 가지면 있다면 되었다. 옷 걸린 그림에 가지면 하게 되는 것 같아 먹었다면 하게 되었다.	Insulation R=38.0	Area 1408.00 ft ²
6.	Conditioned floor area (f	ft²)	1408		b. N/A	R=	ft²
7.	Windows** a. U-Factor: SHGC:	Description Dbl, U=0.40 SHGC=0.30		Area 296.42 ft²	c. N/A 12. Ducts, location & insulation level a. Sup: Attic, Ret: Attic, AH: Main	R=	ft² R ft² 6 281.6
	b. U-Factor: SHGC:	N/A		ft²	13. Cooling systems	kBtu/hr	Efficiency
	c. U-Factor: SHGC:	N/A		ft²	a. Central Unit		SEER:14.00
	d. U-Factor: SHGC:	N/A		ft²	14. Heating systems	kBtu/hr 39.5	Efficiency HSPF:8.20
	Area Weighted Average Area Weighted Average			1.500 ft. 0.300	a. Electric Heat Pump	39.3	H3PF.0.20
3	8. Skylights a. U-Factor(AVG): SHGC(AVG):	Description N/A N/A		Area ft²	15. Hot water systems a. Electric	Ca	p: 40 gallons EF: 0.92
1	9. Floor Types a. Raised Floor		Insulation R=19.0	Area 1408.00 ft ²	b. Conservation features None Credits (Performance method)		CF, Pstat
	b. N/A		R=	ft²	5.11.0 (5.15.11.11.155		5. 1. 3.00

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:	Eg T
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.

Florida Building Code, Energy Conservation, 7th Edition (2020) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

F	ADDRESS: Permit Numbe	r:
MA	MANDATORY REQUIREMENTS - See individual code sections for	full details.
	√ SECTION R401 GENERAL	
	R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official display card be completed and certified by the builder to be accurate and correct before fin (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an an nonpresold residential buildings. The EPL display card contains information indicating the installed in a dwelling unit. The building official shall verify that the EPL display card compand specifications submitted to demonstrate code compliance for the building. A copy of the	nal approval of the building for occupancy. Florida law ddendum to each sales contract for both presold and energy performance level and efficiencies of components leted and signed by the builder accurately reflects the plan
	SECTION R402 BUILDING THERMAL E	ENVELOPE
	R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed Sections R402.4.1 through R402.4.5.	ed to limit air leakage in accordance with the requirements
	Exception: Dwelling units of R-2 Occupancies and multiple attached single comply with Section C402.5.	e family dwellings shall be permitted to
	R402.4.1 Building thermal envelopeThe building thermal envelope shall comply w R402.4.1.2. The sealing methods between dissimilar materials shall allow for different	
	R402.4.1.1 Installation. The components of the building thermal envelope as listed with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as apply the code official, an approved third party shall inspect all components and verify	oplicable to the method of construction. Where required
	R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as he changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals like an approved third party. A written report of the results of the test shall be signed by official. Testing shall be performed at any time after creation of all penetrations of the	ate Zones 3 through 8. Testing shall be conducted in . (50 pascals). Testing shall be conducted by either censed as set forth in Section 489.105(3)(f), (g) or (i) or the party conducting the test and provided to the code
	Exception: Testing is not required for additions, alterations, renovations, or repuildings in which the new construction is less than 85 percent of the building therm	
	During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not se other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators sh 5. Heating and cooling systems, if installed at the time of the test, shall be fully open.	be closed, but not sealed beyond intended nall be closed and sealed.
	R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed a	127, the doors shall be tested and listed for the
	R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2. AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed a	6 L/s/m2), when tested according to NFRC 400 or
	Exception: Site-built windows, skylights and doors.	

M	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees of true south.
	R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
	R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
	 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	 If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7 Heating and cooling equipment.
	R403.7.1 Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is
	installed.

TABLE R403.6.1 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

П	R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
	Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required. R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
	R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	R403.13 Dehumidifiers (Mandatory If installed, a dehumidifier shall conform to the following requirements:
	 The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.
	R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:
	 If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.
	SECTION R404
ELE	ECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
	R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

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2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Blackwell **Builder Name:** Street: Permit Office: CHECK City, State, Zip: .FL. Permit Number: Blackwell Owner: Jurisdiction: Design Location: FL, Gainesville COMPONENT AIR BARRIER CRITERIA INSULATION INSTALLATION CRITERIA A continuous air barrier shall be installed in the building envelope. Air-permeable insulation shall General The exterior thermal envelope contains a continuous air barrier. not be used as a sealing material. requirements Breaks or joints in the air barrier shall be sealed. The air barrier in any dropped ceiling/soffit shall be aligned with The insulation in any dropped ceiling/soffit Ceiling/attic the insulation and any gaps in the air barrier shall be sealed. shall be aligned with the air barrier. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed. The junction of the foundation and sill plate shall be sealed. Cavities within corners and headers of frame walls Walls The junction of the top plate and the top of exterior walls shall be shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 sealed. Knee walls shall be sealed. 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 The space between window/door jambs and framing, and skylights and framing shall be sealed. and doors Rim joists Rim joists shall include the air barrier. Rim joists shall be insulated. Floors The air barrier shall be installed at any exposed edge of Floor framing cavity insulation shall be installed to (including maintain permanent contact with the underside of insulation. above-garage subfloor decking, or floor framing cavity insulation and cantilevered shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on floors) the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members. Exposed earth in unvented crawl spaces shall be covered with Where provided instead of floor insulation, insulation Crawl space walls a Class I vapor retarder with overlapping joints taped. shall be permanently attached to the crawlspace walls Duct shafts, utility penetrations, and flue shafts opening to Shafts, penetrations exterior or unconditioned space shall be sealed. Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on Narrow cavities 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 Recessed light fixtures installed in the building shall be sealed to the finished surface. thermal envelope shall be air tight and IC rated. Batt insulation shall be cut neatly to fit around wiring Plumbing and wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring. Shower/tub The air barrier installed at exterior walls adjacent to showers and Exterior walls adjacent to showers and tubs shall on exterior wall tubs shall separate them from the showers and tubs. be insulated. Electrical/phone box or The air barrier shall be installed behind electrical or communication

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.

boxes or air-sealed boxes shall be installed.

HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or 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

exterior walls

Concealed

sprinklers

HVAC register boots

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:					
Job Information						
Builder: Community:	Lot: NA					
Address:						
City: State	e: FL Zip:					
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method					
changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir	nall be tested and verified as having an air leakage rate of not exceeding a) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.					
X 60 ÷ 4.288279E26 = ACH(50) PASS When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.						
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals) Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statues.or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope. During testing: 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open.						
Testing Company						
Company Name: I hereby verify that the above Air Leakage results are in accordar Energy Conservation requirements according to the compliance in the compliance of the compli						
Signature of Tester:	Date of Test:					
Printed Name of Tester:						
License/Certification #:	Issuing Authority:					

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Blackwell Street: City, State, Zip: , FL , Owner: Blackwell Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(296.4 sqft.) Description a. U-Factor: Dbl, U=0.40 SHGC: SHGC=0.30 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 0. 300 8. Skylights c. U-Factor:(AVG) SHGC(AVG): N/A S	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: Tight Sentine 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.

- 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).