## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Covenant School classroom Street: 2019 SW Main Blvd City, State, Zip: Lake City, FL, 32025 Owner: Covenant School Design Location: FL, Gainesville	Builder Name: Permit Office: Columbia County 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 (60.0 sqft.) Description a. U-Factor: Dbl, U=0.36 60.00 ft² SHGC: SHGC=0.25 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Skylights c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (800.0 sqft.) Insulation Area acrawlspace R=19.0 800.00 ft² R= ft² C. N/A R= ft² R= ft²	10. Wall Types(1188.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A d. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (840.0 sqft.) b. N/A R= ft² 12. Under Attic (Vented) c. N/A R= ft² R=
Glass/Floor Area: 0.075 Total Proposed Modifie  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: 7/5/2022  I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.  OWNER/AGENT: Www. Cx	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).

DATE:

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

DATE: \_\_\_

**INPUT SUMMARY CHECKLIST REPORT** 

				PROJ	ECT							
Title: Building Ti Owner Na # of Units: Builder Na Permit Off Jurisdictio Family Typ New/Exist Comment:	ype: User ime: CovenantSch ame: fice: Columbia Count on: pe: Detached ing: New (From Pl	unty	Bedrooms Condition Total Stor Worst Ca Rotate An Cross Ve Whole Ho	ed Area: ies: se: gle: ntilation:	0 800 1 No 0 Yes No		Lot# Block Plate Stree Cour	k/Subdivi Book: et:	sion:	Street Addr 2019 SW M Columbia Lake City, FL, 320	lain Blvo	d
				CLIMA	ATE							
<b>/</b>	Design Location	TMY Site			Design Temp 7.5 % 2.5 %	Winte	esign Tem er Sumn	ner Deg	leating gree Day		re R	y Temp ange
	FL, Gainesville	FL_GAINESVILLI	E_REGI		32 92	70	75	1	1305.5	51	N	ledium
**************************************	Water and the transfer			BLOC	KS							
Number		Area	Volume									
1	Block1	800	7200	CDAC	NEO.							
				SPAC								100
Number 1	Name Main	Area 800	Volume 7200	Kitchen No	Occupants 30	Bedroo 0	oms I	nfil ID	Finishe	ed Coo		Heate
				FLOO	- MR				N. T. T.			
$\sqrt{}$	# Floor Type	Space	Expo	sed PeriWa	all Ins. R-Value	Area	Floor	Joist R-Va	alue	Tile W	ood Ca	arpet
	1 Crawlspace	N	lain 13	- 15	0	800 ft²		19			0	1
				ROC	)F		11-11					
<b>/</b>	# Туре	Materials	Roof Area	Gab Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
	1 Gable or shed	Compositionshing	iles 825 ft²	100 f	t² Medium	Υ	0.96	No	0.9	No	0	14.0
				ATT	IC							
√ .	# Type	Venti	lation	Vent Rat	io (1 in)	Area	RBS	IRO	cc			
	1 Full attic			30		800 ft²	Y	١				
				CEILI	NG							
V ;	# Ceiling Type		Space	R-Valu	e Ins Ty	ре	Area	Fram	ning Fra	c Truss	Туре	
1 Under Attic (Vented)				Main 38 Double Ba				att 840 ft² 0.11			ood	

INPUT SUMMARY CHECKLIST REPORT

								WA	LLS							
V #	#	Ornt_		Adjace To	nt Wall	Туре	Spac	Cavity e R-Value	Wid		Height Ft In	Area	Sheath R-Valu	ing Framir ie Fractio	ng Sola	ar Belov or. Grade
1	l	N	E	kterior	Fra	me - Wood	Mair	13	16		9	144.0 ft <sup>2</sup>		0.23	0.7	5 (
2	2	W	E	kterior	Fra	me - Wood	Mair	13	50	,	9	450.0 ft <sup>2</sup>		0.23	0.75	5 0
3	3	S	E	kterior	Fra	me - Wood	Main	13	16	9	9	144.0 ft <sup>2</sup>		0.23	0.75	5 0
4		E	E	kterior	Fra	me - Wood	Mair	13	50	3	9	450.0 ft²		0.23	0.75	5 (
								DO	ors							
$\checkmark$		#		Ornt		Door Type	Space			Storms	U-Valu	e F	Width t In	Hei	ght In	Area
	2	1		Ν		Insulated	Main			None	.46	;	3	6	8	20 ft <sup>2</sup>
	-	2		s		Insulated	Main			None	.46	:	3	6	8	20 ft <sup>2</sup>
							Orientations	WINI hown is the e	DOWS		orientation					
,				Wall			Onomations	nown to the ci	norou,	торозса	onemation.	Ove	erhang			231.111
$\checkmark$	#	‡ C	rnt		Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		Separatio	n Int S	hade	Screenin
	. 1	1	W	2	Vinyl	Low-E Double	Yes Yes	0.36	0.25	N	60.0 ft <sup>2</sup>	1 ft 6 in	1 ft 0 in	No	one	None
								INFILT	RATIO	N						
<b>#</b>	Sco	pe		M	lethod		SLA	CFM 50	ELA	E	qLA	ACH	А	CH 50		
1 W	hole	house		Propo	sed AC	H(50)	000286	600	32.92	6	1.8	.1027		5		
								HEATING	SYS	TEM						
V		#	Sys	tem Ty	/ре	11.34.44-11	Subtype	Speed		Efficiency	, ,	Capacity			Block	Ducts
		1	Elec	ctric H	eat Pum	np/	None	Single		HSPF:8.2	2 8.4	1 kBtu/hr	8		1	Ductles
								COOLING	SYS	TEM						
V		#	Sys	tem Ty	ре		Subtype	Subtype		Efficiency	Capacit	ty A	ir Flow	SHR	Block	Ducts
		1	Cen	tral Ur	nit/		None	Single		SEER: 14	24.35 kBt	u/hr 72	20 cfm	0.7	1	Ductless
							SOLA	R HOT W	ATER	SYSTE	EM					
$\checkmark$		FSEC Cert #		Come	any Nar	mo		Custom Mad	1#	0.	ollector Mod		Collector	Storag		
					arry IVal	iie		System Mode	51#f		mector wida	CI#	Area	Volun	ie	FEF
		None		None									ft <sup>2</sup>			

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programa	ableThermo	stat: Y		Ceiling Fans:										
Cooling Heating Venting	[ ] Jan [X] Jan [ ] Jan	X 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	ep ep ep	Oct Oct Oct	Nov X Nov X Nov	Dec Dec Dec
Thermostat		HERS 200	6 Reference					Но	ours					
Schedule Ty	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WI	0)	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 (WE	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 (WI	0)	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 (Wi	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														
Mass Type Area						Thickness		Furniture Fra	ction		Space			
Def	ault(8 lbs/so	ı.ft.		0 ft²			0 ft		0.3			Main		

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

## ESTIMATED ENERGY PERFORMANCE INDEX\* = 95

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

2019 SW Main Blvd, Lake City, FL, 32025

1.	New construction or exi	New (Fro	om Plans)	10. Wall Type and Insulation	Insulation	Area	
2.	Single family or multiple	Detache	d	a. Frame - Wood, Exterior	R=13.0	1188.00 ft <sup>2</sup>	
3.	Number of units, if mult	1		b. N/A c. N/A	R= R=	ft² ft²	
4.	Number of Bedrooms	0		d. N/A	R=	ft²	
5.	Is this a worst case?	No		<ol> <li>Ceiling Type and insulation level a. Under Attic (Vented)</li> </ol>	Insulation R=38.0	Area 840.00 ft <sup>2</sup>	
6.	Conditioned floor area (	ft²)	800		b. N/A	R=	ft²
7.	Windows** a. U-Factor:	Description Dbl, U=0.36		Area 60.00 ft²	c. N/A 12. Ducts, location & insulation level	R=	ft² R ft²
	SHGC: b. U-Factor: SHGC:	SHGC=0.25 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 a. Electric Heat Pump	kBtu/hr 8.4	Efficiency HSPF:8.20
Area Weighted Average Overhang Depth: Area Weighted Average SHGC:			1.500 ft. 0.250	a. Electric Heat Fump	0.4	H3FF.0.20	
	<ol> <li>Skylights</li> <li>u-Factor(AVG): SHGC(AVG):</li> </ol>	Description N/A N/A		Area ft²	Hot water systems     a.  b. Conservation features	Ca	p: 50 gallons EF:
	9. Floor Types a. Crawlspace b. N/A c. N/A		Insulation R=19.0 R= R=	Area 800.00 ft² ft² ft²	None Credits (Performance method)		CV, Pstat

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.

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\*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.

7/5/2022 10:45 AM

## 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: 2019 SW Main Blvd							
City: Lake City State	e: FL Zip: 32025						
Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method						
PRESCRIPTIVE METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be test changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clim	all be tested and verified as having an air leakage rate of not exceeding or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50.						
CFM(50) × 60 ÷ 7200 = ACH(50)  PASS  When ACH(50) is less than 3, Mechanical Ventilation in must be verified by building department.	Method for calculating building volume:  Retrieved from architectural plans Code software calculated  Field measured and calculated						
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 (7F)orida 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 theode official. Testing shall be performed at any time after creation of all penetrations of the intended weatherstripping or other infiltration control measures.  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 fully open.							
Testing Company							
Company Name: I hereby verify that the above Air Leakage results are in accordant Energy Conservation requirements according to the compliance representation.							
Signature of Tester:	Date of Test:						
Printed Name of Tester:							
License/Certification #:	Issuing Authority:						