FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Kline Builder Name: Corey Amira TBD US HWY 441 Permit Office: Street: High Springs, FL 32643 Permit Number: City, State, Zip: Jurisdiction: Owner: Design Location: FL, Gainesville Regional County: (Florida Climate Zone 2) New (From Plans) 1. New construction or existing 9. Wall types (2613 ft2) Insulation (R) Area (ft2) a. Frm wall, stucco ext, 3/8" wood 19.0 2236.67 Single-Family 2. Single family or multiple family b. 12C-0sw 0.0 376.67 3. Number of units, if multiple family c. N/A d. N/A 4. Number of bedrooms 3 10. Ceiling types (2323 ft²) Insulation (R) Area (ft2) 5. Is this a worst case? Nο a. Attic ceiling, asphalt shingles 38.0 2322.78 6. Conditioned floor area above grade (ft2) 2322.78 b. N/A c. N/A Conditioned floor area below grade (ft2) 0 11. Ducts Area (ft2) 7. Windows (286 ft²) Description Area (ft2) a.Sup: Entire House, Ret: Entire House, AH: Entire House 432.76 a. U-Factor: Dbl. 0.340 286.27 0.23 SHGC: 12. Cooling systems
a.Split air source heat pump b. U-Factor: kBtu/hr Efficiency 14.3 SEER2 SHGC: 38.3 c. U-Factor: 13. Heating systems kBtu/hr **Efficiency** SHGC: 7.5 HSPF2 a.Split air source heat pump 42.0 d. U-Factor: SHGC: Area Weighted Average Overhang Depth: 14. Hot water systems Area Weighted Average SHGC: 0.230 a. Electric conventional (40 gal) Cap: 40 gal UEF: 0.91 8. Floor types (2322.78 ft²) Area (ft²) Insulation (R) b. Conservation features Bg floor, heavy dry or light dam 2322.78 (None) N/A N/A 15. Credits Ceiling Fan; Cross Vent, Pstat C. Total Proposed Modified Loads: 71.08 **PASS** Glass/Floor area: 0.123 Total Baseline Loads: 73.61

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

Prepared By Josh Legler

egler Date 10/3/2024

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

Owner/Agent Name Corey Amira

Signature orey Amira Date 10.22.24 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.

Review for Code Compliance Ing Officiaໄ Name Engineering Science

Signature

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 7.0 ACH50 (R402.4.1.2).

Building Input Summary Report

PROJECT 3 2 2323 Title: Kline FLAsBuilt Kline Bedrooms: Address type: Street address Bedrooms:
Bathrooms:
Conditioned Area:
Total Stories:
Worst Case:
Rotate Angle:
Cross Ventilation:
Whole House Fan:
Terrain:
Shielding: Building Type: Lot#: Block/Subdivision: Platbook: Owner: # of Units: # 01 Offics: The Builder Name: Corey Amira
Permit Office:
Jurisdiction:
Family Type: Single-Family
New/Existing: New (From Plans)
Year Construct: 2024 No No TBD US HWY 441 Street: County: City, State, Zip: High Springs, FL 32643 No Suburban Suburban Comment: CLIMATE Design Temp 97.5 % 2.5 % Int Design Temp Winter Summer Heating Degree Days **IECC** Design Daily Temp 1 **Design Location** TMY Site Zone Moisture Ránge FL, Gainesville Regional FL_Gainesville_Rgn 92 1148 Medium **BLOCKS** Name # Area Volume **Entire House** 2322.78 ft² 24816.67 ft3 1 **SPACES** # Area Volume Kitchen Occupants Bedrooms Infil ID Finished Cooled Heated 792.22 288.89 1502.22 792.22 2392.22 773.33 420.00 776.67 140.00 3480.00 640.00 1322 22 Yes Yes wic a 79.29 150.22 239.22 79.239.22 77.60 348.00 64.00 132.22 113.33 397.22 64.60 61.33 42.00 128.49 1234567890112345678901 No No 0 Yes wc Yes master bath wic b master suite laundry No No No 002000000001000010 0010000000001000010 Yes powder hall 1 No No No No No Yes hall 1
ah
kitchen/dining
pantry
study
foyer
great room
bedroom 3
wic 3
bath b
bath a
wic 2
bedroom 2
hall 2 640.00 1322.22 1133.33 5561.11 1275.56 460.00 560.00 613.33 420.00 1284.44 188.89 Yes Yes Yes Yes Yes No No No No Yes Yes Yes Yes Yes Yes No No Yes Yes Yes Yes No No No Yes Yes Yes Yes Yes Yes (Total Exposed Area = 2323 sq.ft.) **FLOORS** # Perimeter R-Value **U-Factor** Wood Floor Type Space Area Tile Carpet floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade 79.22 28.89 150.22 79.22 239.22 77.33 42.00 77.60 18 7 11 wic a 1.0 1.0 1.0 00000000000000000000000 wc master bath wic b master suite laundry powder hall 1 186064587770211490370 1.0 1.0 1.0 1.0 1.0 1.0 1.0 77.67 14.00 348.00 64.00 132.22 113.33 kitchen/dining pantry
study
foyer
great room
bedroom 3
wic 3
bath b 113.33 397.22 127.56 46.00 56.00 61.33 42.00 128.44 18.89 floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade floor, heavy dry or light damp soil, on grade 1.0 1.0 1.0 1.0 Bg floor, heavy dry or light damp soil, on grade Bg floor, heavy dry or light damp soil, on grade Bg floor, heavy dry or light damp soil, on grade Bg floor, heavy dry or light damp soil, on grade Bg floor, heavy dry or light damp soil, on grade 1.0 1.0 1.0 1.0 bath a wic 2 bedroom 2 hall 2 ROOF Roof Gable Roof Rad Solar SA **Emitt Emitt** Deck Pitch # Absor. Tested Materials Color (deg) Type Barr Tested Insul. Area Area Gable or shed RoofAsph 3697 ft² 1183 ft² Dark 0.75 No 0.90 No 0 40



Review for Code Compliance Universal Engineering Science



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	5	N	Exte Exte Parti	rior	Frn	n wall, stucco	wic	c b	19		8	10		76.7 ft ²	0	0.068	0.25	0.75 0.75 0.75	0
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✓	#			Floor	Area	Ceili	ng Area	E	xposed \					Avg. W	all Height	E	xposec	Wall Ins	ulation
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Universal Engineering Science



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							HEATII	NG S	YSTEM							
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						(COOLII	NG S	STEM							
1	#		System 7	•		Sı	ıbtype		Efficienc		acity	Air Flow	SHR	Bloc		Ducts
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						Н	OT WA	TER	SYSTE	M						
1	#		System 7		ubtype	Locatio			Cap	Use	SetPn		(Conser		1
	1	Electric	conventio	nal			0.91 U	EF 4	0 gal	60 gal	120 °	-		Nor	<u>1e</u>	
							D	UCTS	<u> </u>							
/	#	Location	Supply R-Valu	e Area	I 00	Return cation	n Area	l eaka	ge Type	Air Handler	CFM 2 Out	5 Percent Leakage		RLF	HVA Heat	Coc
	1	Entire House		433 ft ²		House			t Leakage	Entire House	(Defau		0.08		1	1
		Littli C 110030		40011		7 110030	00 11				(Boida	11, 0.00	0.00		<u> </u>	
								<u>ERAT</u>	URES							
	-	mmable Therm				Ceiling										_
Hea	oling ating nting	[X]Jan [] [X]Jan [] [X]Jan []	X] Feb [X] Feb [X] Feb [X] Mar X] Mar X] Mar	X Ap	r [X] r [X]	May [X May [X May [X	(] Jun (] Jun (] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	IXIS	eb [X] de	Oct [X Oct [X Oct [X	1 Nov	X X X	Dec Dec Dec
		tat Schedule: Type		Building Co	de, 8th E	dition 3	4	5	Hou 6	rs 7	8	9	10	11		12
	oling (_(2023) AM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75		75 75
	•	,	PM	_		_	_		_	-		-	-	_		-
Cod	oling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75		75 75
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He	atina (WEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72		72 72



PX2707

10/24/2024

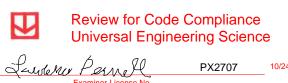
ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX = 97

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

1. New home or addition	1. New (From Plans)		0.0
2. Single-family or multiple-family	2. Single-Family	a. Supply ducts: R_ b. Return ducts: R_ c. AHU location:	0.0 0.0 Entire House
3. Number of units, if multiple-family	31		
4. Number of bedrooms	43	13. Cooling systems Capacity a. Split system: SEER2 b. Single package: SEER2	38.3 14.30
5. Is this a worst case? (yes/no)	5No	c. Ground/water source: SEER/COP	
6. Conditioned floor area (ft²)	6. 2322.78	d. Room unit/PTAC: EER e. Other:	
7. Windows, type and area* a. U-Factor: b. Solar Heat Gain Coefficient (SHGC): c. Area (ft²)	7a. Dbl, 0.340 7b. 0.23 7c. 286	a. Split system heat pump: HSPF2	42.0 7.50
8. Skylights a. U-Factor: b. Solar Heat Gain Coefficient (SHGC):	8a 8b	e. Gas furnace, LPG: AFUE	
9. Floor type, insulation level a. Slab-on-grade (R-value): b. Wood, raised (R-value): c. Concrete, raised (R-value)	9a. 0.0 9b. 9c.	15. Water heating systems a. Electric resistance: b. Gas fired, natrual gas: c. Gas fired, LPG: d. Solar system with tank:	0.91 UEF
10 Wall type and insulation: a. Exterior: 1. Wood/mtl frame (Insulation R-value): 2. Masonry (Insulation R-value):	10a1 19.0 10a2	e. Dedicated heat pump with tank: f. Heat recovery unit: HeatRec% g. Other: 16. HVAC credits claimed (Performance Meth	nod)
b. Adjacent:1. Wood/mtl frame (Insulation R-value):2. Masonry (Insulation R-value):	10b1. 10b2. 0.0	a. Ceiling fans: b. Cross ventilation: c. Whole house fan: d. Multizone cooling credit:	Yes Yes
11. Ceiling type and insulation levela. Under attic (R-value):b. Single assembly (R-value):c. Knee walls/skylight walls (R-value)	11a. 38.0 11b. 11c. No	e. Multizone heating credit: f. Programmable thermostat:	Yes

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: Corsy Amira	Date: 10.22.24
Address of New Home: TBD US HWY 441	City/FL Zip: High Springs, FL 32643
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10/24/2024

Florida Building Code, Energy Conservation, 8th Edition (2023) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

	ADDRESS:	TBD US HWY	441			PERMIT #:	
		High Springs,	FL 32643				
V	IANDATORY	REQUIREM	ENTS - See individ	dual code section	s for full details.		
/			SEC	CTION R401 (BENERAL		
Ď	display card be co (Section 553.9085 nonpresold reside installed in a dwel	ompleted and certif 5, Florida Statues) ential buildings. The lling unit. completed	requires the EPL display EPL display card conta d and signed by the buil	accurate and correc card to be included ains information indicated der The building offi	before final approval of las an addendum to ea cating the energy perfore cial shall verify that the	equire that an energy perform f the building for occupancy, ch sales contract for both pr mance level and efficiencies EPL display card accurately y card can be found in Appe	Florida law resold and s of components reflects the
			SECTION R40	2 BUILDING	THERMAL ENV	ELOP	
	R402.4 Air leakag Sections R402.4.1	ge (Mandatory). 1 through R402.4.5		envelope shall be co	nstructed to limit air lea	kage in accordance with the	requirements of
	Except	ion: Dwelling units comply with S	s of R-2 Occupancies ar Section C402.5.	nd multiple attached	single family dwellings	shall be permitted to	
	R402.4.1 Building methods between	g thermal envelop dissimilar material	be. The building therr is shall allow for differen	nal envelope shall c tial expansion and c	omply with Sections R40 ontraction.	02.4.1.1 and R402.4.1.2. Th	ne sealing
	with the manufac	turer's instructions		in Table R402.4.1.1	as applicable to the me	.1 shall be installed in accor ethod of construction. Whe	
	per hour in Climat than three air char and M1507.3 of the pressure of 0.2 incorrection or individuals licer test shall be signe	te Zones 1 and 2, anges per hour shall be Florida Building ch w.g. (50 pascals as set forth in	and three air changes per less provided with whole Code, Residential. Test is. Testing shall be cond Section 489.105(3)(f), (ducting the test and pro	er hour in Climate Zo e-house mechanical ing shall be conduct lucted by either indiv (g) or (i) or an appro	nes 3 through 8. Dwelliventilation in accordance of in accordance with A idual as defined in Sectived third party. A writter	e rate not exceeding seven a ing units with an air leakage he with Section R403.6.1 of t NSI/RESNET/ICC 380 and tion 553.993(5) or (7), Florida he report of the results of the erformed at any time after co	rate less this code reported at a a Statutes,
	Except	ion: Testing is not buildings in w	required for additions, thich the new constructi	alterations, renovation is less than 85 pe	ons, or repairs, of the burcent of the building the	uilding thermal envelope of e ermal envelope.	existing
	weath 2. Damp inten 3. Interio 4. Exteri 5. Heatin 6. Suppl 7. If an a and ti	ior windows and do herstripping or othe bers including exha ded infiltration cont or doors, if installed ior doors for contin- ng and cooling sys- ly and return regist attic is both air seal he attic shall be op	rol measures. I at the time of the test, uous ventilation system tems, if installed at the t ers, if installed at the tin ed and insulated at the	sures. backdraft and flue conshall be open. s and heat recovery time of the test, shall be of the test, shall be roof deck, interior and the volume of the a	ampers shall be closed ventilators shall be clos be turned off. e fully open. coess doors and hatcher attic shall be added to the	, but not sealed beyond	
		doors on factory-bu	ilt fireplaces listed and I	abeledin accordanc	with UL 127, the doors	I outdoor combustion air. W s shall be tested and listed for accordance with UL 907.	
	square foot (1.5 L	ration air leakage. /s/m2), and swingir A 101/I.S.2/A440 b).5 cfm per square fo	oot (2.6 L/s/m2), when to	iltration rate of no more than ested according to NFRC 40 he manufacturer.	
	Except	ion: Site-built wind	dows, skylights and doo	rs.			
	air to open combu or enclosed in a re requirements of T into the room shal	ustion fuel burning a bom, isolated from able R402.1.2, who Il be fully gasketed	inside the thermal enve ere the walls, floors and	es and combustion lope. Such rooms s ceilings shall meet d ducts in the room i	air opening shall be loca hall be sealed and insul not less than the basem nsulated in accordance	n combustion air ducts provious ated outside the building the ated in accordance with the ent wall R-value requiremen with Section R403. The cor	rmal envelope envelope nt. The door
	Except	ions:	-				
			rith both intake and exha omplying with Section R			uilding Code, Residential.	

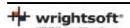
Universal Engineering Science

N	IANDATORY REQUIREMENTS - (Continued)
	R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
	R402.4.6 Air-Sealed Electrical and Communication Boxes. Air-sealed electrical and communication boxes that penetrate the air the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated.

luminaries shall be sealed with a gasket or caulk between the nousing and the interior wall or ceiling covering.
R402.4.6 Air-Sealed Electrical and Communication Boxes. Air-sealed electrical and communication boxes that penetrate the air barrier of the building thermal envelope shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by insulation. Air-sealed boxes shall be marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.
SECTION R403 SYSTEMS
R403.1 Controls
R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system.
R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that limit supplemental heat operation to only those times when one of the following applies:
 The vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting. The heat pump is operating in defrost mode. The vapor compression cycle malfunctions. The thermostat malfunctions.
R403.3.2 Sealing (Mandatory). All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts and plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.
R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.
R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:
 Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. Post construction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test.
Exceptions:
 A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.
R403.3.5 Building Cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.
R403.4 Mechanical system piping insulation (Mandatory). or below 55°F (13°C) shall be insulated to a minimum of R-3.
R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance, and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.
R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.
R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification

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 - em of a demand for how water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.
 - R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.
- R403.5.2 Demand recirculation water systems (Mandatory). Where installed, demand recirculation water systems shall have controls that comply with both of the following:
 - The controls shall start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture or sensing w of hotor tempered water to a fixture fitting or appliance.
 The controls shall limit the temperature of universal Engineering Science

PX2707 10/24/2024



MANDATORY REQUIREMENTS - (Continued)

R403.5.5	traps insta	os (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat alled on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a d and upward bend of at least 3 1/2 inches (89 mm) in the hot water distribution line and cold water line located as close as to the storage tank.
R403.5.6	6 Water he	eater efficiencies (Mandatory).
	R403.5.6	.1 Storage water heater temperature controls.
		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.
	Table C40 installed.	2 Water heating equipment. Water heating equipment installed in residential units shall meet the minimum efficiencies of 04.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the te water heating category. Solar water heaters shall met the criteria of Section R403.5.6.2.1.
	_	R403.5.6.2.1 Solar water heating system. 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.
Building Natural,	Code, Res	Il ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida idential or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation, including: or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the s not operating.
		Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical a system, fans shall meet the efficacy requirements of Table R403.6.1.
		Exception: Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
		Ventilation air. Residential buildings designed to be operated at a positive indoor pressure of for mechanical n 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 spaces(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 or R-19, space permitting, or R-10 otherwise.
R403.7 H	Heating an	nd cooling equipment.
	the equip based on indoor un described affect equas standa	Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on ment loads calculated in accordance with ACCA Manual J or other approved methodologies, heating and cooling calculation building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and its (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions Section R302.1. This code does not allow designer safety factors, provisions for future expansion or other factors that sipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency and 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		MINIMUM EFFICACY (a)	AIRFLOW RATE MAXIMUM
	CFM	CFM/WATT	CFM
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	3.8 cfm/watt	Any
Bathroom, utility room	10	2.8 cfm/watt	< 90
Bathroom, utility room	90	3.5 cfm/watt	Any

For SI: 1 cfm - 28.3 L/min.

(a) When tested in accordance HVI Standard 916 Review for Code Compliance Universal Engineering Science



MANDATORY REQUIREMENTS - (Continued)

than the Section equipme The public expande temperate performa Design v	.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the nt shall not be less than the calculated latent load. It is shed value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's deperformance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb ure for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded not data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature alues for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load on and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
	Exceptions: 1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load. 2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
R403.7.1	.2 Heating equipment capacity.
	R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
	R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1
	R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
intermitte	.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an ent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to continuous space cooling or heating within that space by one or more of the following options: 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas. 2. A variable capacity system sized for optimum performance during base load periods is utilized.
	Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections d C404 of the IECC—Commercial Provisions in lieu of Section R403.
shall inc	Snow melt and ice system controls (Mandatory). Snow- and ice-melting systems, supplied through energy service to the building, ude automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no tion is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	Pools and permanent spa energy consumption (Mandatory). The energy consumption of pools and permanent spas n accordance with Sections R403.10.1 through R403.10.5.
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
	Exceptions: 1. Where public health standards require 24-hour pump operations. 2. Pumps that operate solar- and waste-heat-recovery pool heating systems. 3. Where pumps are powered exclusively from on-site renewable generation.
	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.
	Review for Code Compliance Universal Engineering Science PX2707 10/24/2024
	Examiner-License No.

MANDATORY REQUIREMENTS - (Continued)

R404.1.1 Lighting equipment (Mandatory).

R403.11 Portable spas (Mandatory). requirements of APSP-14.	The energy consumption of electric-powered portable spas shall be controlled by the
R403.13 Dehumidifiers (Mandatory).	If installed, a dehumidifier shall conform to the following requirements:
is less than 75 pints/day and greation 75 pints/day. 2. The dehumidifier shall be contromaged 3. Any dehumidifier unit located in 4. Condensate disposal shall be in 4. Condensate disposal shall be in 4. Conform to the following requirements: 1. If a ducted dehumidifier is configured amper shall be installed in the 2. If a ducted dehumidifier is configured a backdraft damper shall be installed in the 3. A ducted dehumidifier shall not central cooling evaporator coil.	the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house eater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to solled by a sensor that is installed in a location where it is exposed to mixed house air. unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2. accordance with Section M1411.3.1 of the Florida Building Code, Residential. In the state of the cooling system, a backdraft supply air duct between the dehumidifier inlet and outlet duct. Supply air duct between the dehumidifier inlet and outlet duct. Supply duct connected into the supply side of the central heating and cooling system, alled in the dehumidifier supply duct between the dehumidifier and central supply duct. Soluted to or from a central ducted cooling system on the return duct side upstream from the umidifier located in unconditioned space shall be insulated to a minimum of R-6.
SECTION	R404 ELECTRICAL POWER AND LIGHTING SYSTEMS
R404.1 Lighting equipment (Mandatory efficacy of at least 45 lumens-per-watt or). All permanently installed luminaires, excluding those in kitchen appliances, shall have an shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.
Exception: Low-voltage ligh	ting.

10/24/2024

Fuel gas lighting systems shall not have continuously burning pilot lights.

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

	ine	Builder Name Corey Amira	
City, State, Zip: Hi	gh Springs, FL 32643	Permit Office: Permit Number: Jurisdiction:	
Design Location:	., Gainesville Regional	Julianion.	
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 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 attics paces 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 with 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 are insulated and include an 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 sideof 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 in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings 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 shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6.	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation. Review for Code Compliance	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	Universal Engineering Science	
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.	Examiner-License No.	

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.



Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance

2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:	Permit Number:					
Job Information						
Builder: Corey Amira Community:	Lot:					
Address: TBD US HWY 441 Unit:						
City: High Springs State: FL	Zip: 32643					
Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method.						
PRESCRIPTIVE METHOD The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 pascals) in Climate Zones 1 and 2.						
The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on FORM R405-2023 (Performance) or R406-2023 (ERI), section labeled as Infiltration, sub-section ACH50. ACH(50) specified on Form R405-2023-Energy Calc (Performance) or R406-2023 (ERI): 7.000						
The second of t	Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated					
R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and M1507.3 of the Florida Building Code, Residential. 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 individual as defined in Section 553.993(5) or (7), Florida Statutes, 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.						
Exception: Testing is not required for additions, alterations, renovation existing buildings in which the new construction is less than 85 percents.						
 During testing: Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures. Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. Heating and cooling systems, if installed at the time of the test, shall be turned off. Supply and return registers, if installed at the time of the test, shall be fully open. If an attic is both air sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting an infiltration volume and calculating the air leakage of the home. 						
Testing Company						
Company Name: I hereby verify that the above Air Leakage results are in accordant						
Energy Conservation requirements according to the compliance method selected above.						
Signature of Tester: Date of Test:						
Printed Name of Tester:						
License/Certification #: Issuing Authority:						



Duct Leakage Test Report

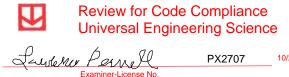
Residential Perscriptive, Performance or ERI Method Compliance 2023 Florida Building Code, Energy Conservation, 8th Edition

Jurisdiction:			Permit Number:				
Job Information							
Builder: Corey Amira Community:				Lot:			
Address: TBD US HWY 441			Unit:				
City: High Springs		Stat	te: FL	Zip: 32643			
Duct Leakage Test Results							
System 1 System 2 System 3 Sum of any additional systems Total of all	cfm25cfm25cfm25cfm25cfm25		Prescriptive Method cfm25 (Total) To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air ha unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3. Is the air handler unit installed during testing? NO (<= 0.03 Qn)	as "substantially leak free" Qn Total must be less unal to 0.04 if air handler unit is installed. If air handler installed, Qn Total must be less than or equal to stesting method meets the requirements in the with Section R403.3.3. Section R403.3.3. Section R403.3.3.			
Total of all systems				using this method, Qn must be not greater than the duct leakage Qn specified on Form R405-2023 or 3. e Type selected on Form (Energy Calc) or R406-2023 (En			
Testing Company							
Company Nam	Company Name:		Phone:				
I hereby verify that the above duct leakage test results are in accordance with the 2023 8th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test: Printed Name of Tester:							
License/Certification #:				Issuing Authority:			



Reference Home Characteristics

Kline TBD US HWY 441 High Springs, FL 32643 Title: Kline TMY City: FL_Gainesville_Rgn FLBase2023 Above-grade Walls (Uo) 0.084 Above-grade Wall Solar Absorptance 0.75 0.90 Above-grade Wall Infared Emittance Basement Walls (Uo) n/a Above-grade Floors (Uo) n/a Slab Insulation R-Value 0.0 0.030 Ceilings (Uo) Roof Solar Absorptance 0.75 Roof Infared Emittance 0.90 Attic Vent Area (ft2) 9.47 Crawls pace Vent Area (ft²) n/a 568.04 Exposed Masonry Floor Area (ft2) Carpet & Pad R-Value 2.0 Door Area (ft2) 40.00 0.400 Door U-Factor North Window Area (ft2) 71.57 71.57 South Window Area (ft2) East Window Area (ft2) 71.57 71.57 West Window Area (ft2) Window U-Factor 0.400 Window SHGC (Heating) 0.2169 Window SHGC (Cooling) 0.2169 ACH50 7.00 Internal Gains * (Btu/day) 97809 Water heater gallons per day 60.00 Water Heater set point temperature 120.00 0.91 Water heater efficiency rating HSPF = 8.8Labeled Heating System Rating and Efficiency Labeled Cooling System Rating and Efficiency SEER = 15.0Air Distribution System Efficiency 0.88 Thermostat Type Manual **Heating Thermostat Settings** 72.0 (All hours)



PX2707

10/24/2024