

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2020 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include:

- This Checklist
- 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)
- HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- Mandatory Requirements (five pages)

Required prior to CO:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table 402.4.1.1 - 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).

Building Input Summary Report

PROJECT												
Title:				Bedrooms:	3	Address type:	Street address					
Building Type:	FLAsBuilt			Bathrooms:	1	Lot#:						
Owner:	LENER LUXURY PROPERTIES-DROTOS			Conditioned Area:	2533	Block/Subdivision:						
# of Units:	1			Total Stories:	1	Platbook:						
Builder Name:				Worst Case:	No	Street:	HERMITAGE GLEN					
Permit Office:				Rotate Angle:	0	County:						
Jurisdiction:	COLUMBIA COUNTY, FL			Cross Ventilation:	No	City, State, Zip:	HIGH SPRINGS, FL 32643					
Family Type:	Single-Family			Whole House Fan:	No							
New/Existing:	New (From Plans)			Terrain:	Rural							
Year Construct:				Shielding:	Moderate/Rural							
Comment:												
CLIMATE												
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range		
	FL, Gainesville Regional	FL_Gainesville_Rgn	2	33	91	70	72	1148	51	Medium		
BLOCKS												
#	Name	Area	Volume									
1	Entire House	2532.50 ft ²	24136.50 ft ³									
SPACES												
#	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated			
1	WIC 1	36.00 ft ²	324.00 ft ³	No	0	0	1	Yes	Yes	Yes		
2	GUEST ROOM 1	168.00 ft ²	1512.00 ft ³	No	0	0	1	Yes	Yes	Yes		
3	BATH 1	72.00 ft ²	648.00 ft ³	No	0	0	1	Yes	Yes	Yes		
4	MASTER SUITE	256.00 ft ²	2304.00 ft ³	No	1	0	1	Yes	Yes	Yes		
5	BATH 2	48.50 ft ²	436.50 ft ³	No	0	0	1	Yes	Yes	Yes		
6	PANTRY	64.00 ft ²	576.00 ft ³	No	0	0	1	Yes	Yes	Yes		
7	OFFICE	64.00 ft ²	576.00 ft ³	No	0	0	1	Yes	Yes	Yes		
8	LAUNDRY	96.00 ft ²	864.00 ft ³	No	0	0	1	Yes	Yes	Yes		
9	MUDROOM	48.00 ft ²	432.00 ft ³	No	0	0	1	Yes	Yes	Yes		
10	KITCHEN/DINING	512.00 ft ²	4608.00 ft ³	No	2	0	1	Yes	Yes	Yes		
11	MASTER WIC	192.00 ft ²	1728.00 ft ³	No	0	0	1	Yes	Yes	Yes		
12	MASTER BATH	184.00 ft ²	1656.00 ft ³	No	0	0	1	Yes	Yes	Yes		
13	STORAGE	48.00 ft ²	432.00 ft ³	No	0	0	1	Yes	Yes	Yes		
14	HALLWAY	32.00 ft ²	288.00 ft ³	No	0	0	1	Yes	Yes	Yes		
15	BATH 3	36.00 ft ²	324.00 ft ³	No	0	0	1	Yes	Yes	Yes		
16	M WC	24.00 ft ²	216.00 ft ³	No	0	0	1	Yes	Yes	Yes		
17	GUEST ROOM 2	204.00 ft ²	1836.00 ft ³	No	0	0	1	Yes	Yes	Yes		
18	GREAT ROOM	448.00 ft ²	5376.00 ft ³	No	0	0	1	Yes	Yes	Yes		
FLOORS (Total Exposed Area = 2532 sq.ft.)												
✓ #	Floor Type	Space	Perimeter	R-Value	Area	U-Factor	Tile	Wood	Carpet			
1	Bg floor, heavy dry or light damp soil, prn int i	WIC 1	12 ft	0	36.00 ft ²	0.442	0	1.0	0			
2	Bg floor, heavy dry or light damp soil, prn int i	GUEST ROOM 1	20 ft	0	168.00 ft ²	0.442	0	1.0	0			
3	Bg floor, heavy dry or light damp soil, prn int i	BATH 1	12 ft	0	72.00 ft ²	0.442	0	1.0	0			
4	Bg floor, heavy dry or light damp soil, prn int i	MASTER SUITE	48 ft	0	256.00 ft ²	0.442	0	1.0	0			
5	Bg floor, heavy dry or light damp soil, prn int i	BATH 2	0 ft	0	48.00 ft ²	0.442	0	1.0	0			
6	Bg floor, heavy dry or light damp soil, prn int i	PANTRY	0 ft	0	64.00 ft ²	0.442	0	1.0	0			
7	Bg floor, heavy dry or light damp soil, prn int i	OFFICE	0 ft	0	64.00 ft ²	0.442	0	1.0	0			
8	Bg floor, heavy dry or light damp soil, prn int i	LAUNDRY	20 ft	0	96.00 ft ²	0.442	0	1.0	0			
9	Bg floor, heavy dry or light damp soil, prn int i	MUDROOM	8 ft	0	48.00 ft ²	0.442	0	1.0	0			
10	Bg floor, heavy dry or light damp soil, prn int i	KITCHEN/DINING	32 ft	0	512.00 ft ²	0.442	0	1.0	0			
11	Bg floor, heavy dry or light damp soil, prn int i	MASTER WIC	30 ft	0	192.00 ft ²	0.442	0	1.0	0			
12	Bg floor, heavy dry or light damp soil, prn int i	MASTER BATH	8 ft	0	184.00 ft ²	0.442	0	1.0	0			
13	Bg floor, heavy dry or light damp soil, prn int i	STORAGE	14 ft	0	48.00 ft ²	0.442	0	1.0	0			
14	Bg floor, heavy dry or light damp soil, prn int i	HALLWAY	0 ft	0	32.00 ft ²	0.442	0	1.0	0			
15	Bg floor, heavy dry or light damp soil, prn int i	BATH 3	6 ft	0	36.00 ft ²	0.442	0	1.0	0			
16	Bg floor, heavy dry or light damp soil, prn int i	M WC	6 ft	0	24.00 ft ²	0.442	0	1.0	0			
17	Bg floor, heavy dry or light damp soil, prn int i	GUEST ROOM 2	24 ft	0	204.00 ft ²	0.442	0	1.0	0			
18	Bg floor, heavy dry or light damp soil, prn int i	GREAT ROOM	36 ft	0	448.00 ft ²	0.442	0	1.0	0			
ROOF												
✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Insul.	Deck Pitch (deg)	
1	Gable or shed	RoofAsph	2743 ft ²	527 ft ²	Dark	Y	0.75	No	0.90	No	0	23

ATTIC															
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC									
1	Full attic	Vented	300	2532.00 ft²	Y	N									
CEILING (Total Exposed Area = 2532 sq.ft.)															
✓ #	Ceiling Type	Space	R-Value	U-Factor	Area	Framing Fraction	Truss Type								
1	Attic ceiling, asphalt shingles roof	WIC 1	38	0.026	36.00 ft²	0.10	--								
2	Attic ceiling, asphalt shingles roof	GUEST ROOM 1	38	0.026	168.00 ft²	0.10	--								
3	Attic ceiling, asphalt shingles roof	BATH 1	38	0.026	72.00 ft²	0.10	--								
4	Attic ceiling, asphalt shingles roof	MASTER SUITE	38	0.026	256.00 ft²	0.10	--								
5	Attic ceiling, asphalt shingles roof	BATH 2	38	0.026	48.00 ft²	0.10	--								
6	Attic ceiling, asphalt shingles roof	PANTRY	38	0.026	64.00 ft²	0.10	--								
7	Attic ceiling, asphalt shingles roof	OFFICE	38	0.026	64.00 ft²	0.10	--								
8	Attic ceiling, asphalt shingles roof	LAUNDRY	38	0.026	96.00 ft²	0.10	--								
9	Attic ceiling, asphalt shingles roof	MUDROOM	38	0.026	48.00 ft²	0.10	--								
10	Attic ceiling, asphalt shingles roof	KITCHEN/DINING	38	0.026	512.00 ft²	0.10	--								
11	Attic ceiling, asphalt shingles roof	MASTER WIC	38	0.026	192.00 ft²	0.10	--								
12	Attic ceiling, asphalt shingles roof	MASTER BATH	38	0.026	184.00 ft²	0.10	--								
13	Attic ceiling, asphalt shingles roof	STORAGE	38	0.026	48.00 ft²	0.10	--								
14	Attic ceiling, asphalt shingles roof	HALLWAY	38	0.026	32.00 ft²	0.10	--								
15	Attic ceiling, asphalt shingles roof	BATH 3	38	0.026	36.00 ft²	0.10	--								
16	Attic ceiling, asphalt shingles roof	M WC	38	0.026	24.00 ft²	0.10	--								
17	Attic ceiling, asphalt shingles roof	GUEST ROOM 2	38	0.026	204.00 ft²	0.10	--								
18	Attic ceiling, asphalt shingles roof	GREAT ROOM	30	0.032	448.00 ft²	0.10	--								
WALLS (Total Exposed Area = 2592 sq.ft.)															
✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	U-Factor	Frm. Solar Absor. Frac.	Below Grade%			
1	S	Exterior	Frm wall, stucco	WIC 1	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
2	W	Exterior	Frm wall, stucco	WIC 1	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
3	S	Exterior	Frm wall, stucco	GUEST ROOM 1	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
4	S	Exterior	Frm wall, stucco	GUEST ROOM 1	13	14 0	9 0	126.0 ft²	0	0.091	0.25	0.75	0		
5	S	Exterior	Frm wall, stucco	BATH 1	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
6	W	Exterior	Frm wall, stucco	BATH 1	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
7	E	Exterior	Frm wall, stucco	MASTER SUITE	13	16 0	9 0	144.0 ft²	0	0.091	0.25	0.75	0		
8	S	Exterior	Frm wall, stucco	MASTER SUITE	13	16 0	9 0	144.0 ft²	0	0.091	0.25	0.75	0		
9	W	Exterior	Frm wall, stucco	MASTER SUITE	13	16 0	9 0	144.0 ft²	0	0.091	0.25	0.75	0		
10	N	Exterior	Frm wall, 1/2" wo	LAUNDRY	13	8 0	9 0	72.0 ft²	0	0.091	0.25	0.75	0		
11	W	Exterior	Frm wall, 1/2" wo	LAUNDRY	13	12 0	9 0	108.0 ft²	0	0.091	0.25	0.75	0		
12	N	Exterior	Frm wall, 1/2" wo	MUDROOM	13	8 0	9 0	72.0 ft²	0	0.091	0.25	0.75	0		
13	E	Exterior	Frm wall, 1/2" wo	KITCHEN/DINING	13	2 0	9 0	18.0 ft²	0	0.091	0.25	0.75	0		
14	E	Exterior	Frm wall, stucco	KITCHEN/DINING	13	14 0	9 0	126.0 ft²	0	0.091	0.25	0.75	0		
15	S	Exterior	Frm wall, stucco	KITCHEN/DINING	13	16 0	9 0	144.0 ft²	0	0.091	0.25	0.75	0		
16	N	Exterior	Frm wall, stucco	MASTER WIC	13	16 0	9 0	144.0 ft²	0	0.091	0.25	0.75	0		
17	E	Exterior	Frm wall, stucco	MASTER WIC	13	12 0	9 0	108.0 ft²	0	0.091	0.25	0.75	0		
18	W	Exterior	Frm wall, stucco	MASTER WIC	13	2 0	9 0	18.0 ft²	0	0.091	0.25	0.75	0		
19	E	Exterior	Frm wall, stucco	MASTER BATH	13	8 0	9 0	72.0 ft²	0	0.091	0.25	0.75	0		
20	N	Exterior	Frm wall, 1/2" wo	STORAGE	13	8 0	9 0	72.0 ft²	0	0.091	0.25	0.75	0		
21	W	Exterior	Frm wall, 1/2" wo	STORAGE	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
22	E	Exterior	Frm wall, stucco	BATH 3	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
23	N	Exterior	Frm wall, stucco	M WC	13	6 0	9 0	54.0 ft²	0	0.091	0.25	0.75	0		
24	N	Exterior	Frm wall, stucco	GUEST ROOM 2	13	10 0	9 0	90.0 ft²	0	0.091	0.25	0.75	0		
25	W	Exterior	Frm wall, stucco	GUEST ROOM 2	13	14 0	9 0	126.0 ft²	0	0.091	0.25	0.75	0		
26	N	Exterior	Frm wall, stucco	GREAT ROOM	13	4 6	12 0	54.0 ft²	0	0.091	0.25	0.75	0		
27	N	Exterior	Frm wall, stucco	GREAT ROOM	13	13 6	12 0	162.0 ft²	0	0.091	0.25	0.75	0		
28	S	Exterior	Frm wall, stucco	GREAT ROOM	13	4 6	12 0	54.0 ft²	0	0.091	0.25	0.75	0		
29	S	Exterior	Frm wall, stucco	GREAT ROOM	13	13 6	12 0	162.0 ft²	0	0.091	0.25	0.75	0		
DOORS (Total Exposed Area = 21 sq.ft.)															
✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area							
1	N	Door, mtl fbrgl type	GREAT ROOM	None	0.600	3 0	7 0	21.0 ft²							
WINDOWS (Total Exposed Area = 281 sq.ft.)															
✓ #	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Impact	W x H, Area	Overhang Depth	Separation	Interior Shade	Screening		
1	S	4	Vinyl	Low-E Double	No	0.470	0.31	No	6'1" x 5'0", 30	0 ft 0 in	0 ft 0 in	None	None		
2	W	6	Vinyl	Low-E Double	No	0.470	0.31	No	3'0" x 2'0", 6	0 ft 0 in	0 ft 0 in	None	None		
3	E	7	Vinyl	Low-E Double	No	0.470	0.31	No	6'0" x 5'0", 30	0 ft 0 in	0 ft 0 in	None	None		
4	S	8	Vinyl	Low-E Double	No	0.470	0.31	No	6'0" x 5'0", 30	0 ft 0 in	0 ft 0 in	None	None		
5	S	15	Vinyl	Low-E Double	No	0.470	0.31	No	9'1" x 5'0", 45	0 ft 0 in	0 ft 0 in	None	None		
6	N	22	Vinyl	Low-E Double	No	0.470	0.31	No	3'0" x 3'0", 9	0 ft 0 in	0 ft 0 in	None	None		
7	W	25	Vinyl	Low-E Double	No	0.470	0.31	No	6'0" x 5'0", 30	0 ft 0 in	0 ft 0 in	None	None		
8	N	27	Vinyl	Low-E Double	No	0.470	0.31	No	10'0" x 5'0", 50	0 ft 0 in	0 ft 0 in	None	None		
9	S	29	Vinyl	Low-E Double	No	0.490	0.32	No	6'0" x 5'0", 30	0 ft 0 in	0 ft 0 in	None	None		
10	S	29	Vinyl	Low-E Double	No	0.470	0.31	No	4'0" x 5'0", 20	0 ft 0 in	0 ft 0 in	None	None		

GARAGE																								
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation																			
1					0																			
INFILTRATION																								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50																
1	Wholehouse	Blower Door	0.000363	2414	132.5	248.9	0.47	6.00																
HEATING SYSTEM																								
✓ #	System Type		Subtype	Efficiency	Capacity	Block	Ducts																	
1	Split air source heat pump			HSPF: 8.2	45.5 kBtu/hr	1	sys#1																	
COOLING SYSTEM																								
✓ #	System Type		Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts															
1	Split air source heat pump			SEER: 14.0	43.5 kBtu/hr	1225 cfm	0.70	1	sys#1															
HOT WATER SYSTEM																								
✓ #	System Type		Subtype	Location	EF	Cap	Use	SetPnt	Conservation															
1	Electric conventional				0.91 UEF	50 gal	60 gal	120 °F	None															
DUCTS																								
✓ #	Location	Supply R-Value	Area	Return Location	Area	Leakage Type	Air Handler	CFM 25 Out	Percent Leakage	QN	RLF	HVAC #												
1	Entire House	6.0	617 ft²	Entire House	350 ft²	Default Leakage	Entire House	(Default)	6.00	0.08		1	1											
TEMPERATURES																								
Programmable Thermostat: N																								
Ceiling Fans:																								
Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input checked="" type="checkbox"/>	Apr	<input checked="" type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input checked="" type="checkbox"/>	Oct	<input checked="" type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Thermostat Schedule:	Florida Building Code, 7th Edition																							
Schedule Type	(2020)	1	2	3	4	5	6	7	8	9	10	11	12											
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75											
	PM	75	75	75	75	75	75	75	75	75	75	75	75											
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75											
	PM	75	75	75	75	75	75	75	75	75	75	75	75											
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72											
	PM	72	72	72	72	72	72	72	72	72	72	72	72											
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72											
	PM	72	72	72	72	72	72	72	72	72	72	72	72											

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

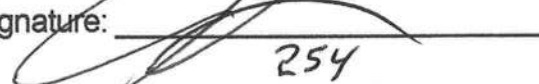
ESTIMATED ENERGY PERFORMANCE INDEX = 99

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

<p>1. New home or addition</p> <p>2. Single-family or multiple-family</p> <p>3. Number of units, if multiple-family</p> <p>4. Number of bedrooms</p> <p>5. Is this a worst case? (yes/no)</p> <p>6. Conditioned floor area (ft²)</p> <p>7. Windows, type and area*</p> <p style="margin-left: 20px;">a. U-Factor:</p> <p style="margin-left: 20px;">b. Solar Heat Gain Coefficient (SHGC):</p> <p style="margin-left: 20px;">c. Area (ft²)</p> <p>8. Skylights</p> <p style="margin-left: 20px;">a. U-Factor:</p> <p style="margin-left: 20px;">b. Solar Heat Gain Coefficient (SHGC):</p> <p>9. Floor type, insulation level</p> <p style="margin-left: 20px;">a. Slab-on-grade (R-value):</p> <p style="margin-left: 20px;">b. Wood, raised (R-value):</p> <p style="margin-left: 20px;">c. Concrete, raised (R-value)</p> <p>10 Wall type and insulation:</p> <p style="margin-left: 20px;">a. Exterior:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value):</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value):</p> <p style="margin-left: 20px;">b. Adjacent:</p> <p style="margin-left: 40px;">1. Wood frame (Insulation R-value):</p> <p style="margin-left: 40px;">2. Masonry (Insulation R-value):</p> <p>11. Ceiling type and insulation level</p> <p style="margin-left: 20px;">a. Under attic (R-value):</p> <p style="margin-left: 20px;">b. Single assembly (R-value):</p> <p style="margin-left: 20px;">c. Knee walls/skylight walls (R-value)</p> <p style="margin-left: 20px;">d. Radiant barrier installed</p>	<p>1. <u>New (From Plans)</u></p> <p>2. <u>Single-Family</u></p> <p>3. <u>1</u></p> <p>4. <u>3</u></p> <p>5. <u>No</u></p> <p>6. <u>2532.50</u></p> <p>7a. <u>DbI(Avg), 0.472</u></p> <p>7b. <u>0.31</u></p> <p>7c. <u>281</u></p> <p>8a. _____</p> <p>8b. _____</p> <p>9a. <u>0.0</u></p> <p>9b. _____</p> <p>9c. _____</p> <p>10a1. <u>13</u></p> <p>10a2. _____</p> <p>10b1. _____</p> <p>10b2. _____</p> <p>11a. <u>38.0</u></p> <p>11b. <u>30.0</u></p> <p>11c. _____</p> <p>11d. _____</p>	<p>12. Ducts, location & insulation level</p> <p style="margin-left: 20px;">a. Supply ducts: R <u>6.0</u></p> <p style="margin-left: 20px;">b. Return ducts: R <u>6.0</u></p> <p style="margin-left: 20px;">c. AHU location: <u>Entire House</u></p> <p>13. Cooling systems</p> <p style="margin-left: 20px;">a. Split system: Capacity <u>42.0</u> SEER <u>14.00</u></p> <p style="margin-left: 20px;">b. Single package: SEER _____</p> <p style="margin-left: 20px;">c. Ground/water source: SEER/COP _____</p> <p style="margin-left: 20px;">d. Room unit/PTAC: EER _____</p> <p style="margin-left: 20px;">e. Other: _____</p> <p>14. Heating systems</p> <p style="margin-left: 20px;">a. Split system heat pump: Capacity <u>45.5</u> HSPF <u>8.20</u></p> <p style="margin-left: 20px;">b. Single package heat pump: HSPF _____</p> <p style="margin-left: 20px;">c. Electric resistance: COP _____</p> <p style="margin-left: 20px;">d. Gas furnace, natural gas: AFUE _____</p> <p style="margin-left: 20px;">e. Gas furnace, LPG: AFUE _____</p> <p style="margin-left: 20px;">f. Other: _____</p> <p>15. Water heating systems</p> <p style="margin-left: 20px;">a. Electric resistance: <u>0.91 UEF</u></p> <p style="margin-left: 20px;">b. Gas fired, natural gas: _____</p> <p style="margin-left: 20px;">c. Gas fired, LPG: _____</p> <p style="margin-left: 20px;">d. Solar system with tank: _____</p> <p style="margin-left: 20px;">e. Dedicated heat pump with tank: _____</p> <p style="margin-left: 20px;">f. Heat recovery unit: HeatRec% _____</p> <p style="margin-left: 20px;">g. Other: _____</p> <p>16. HVAC credits claimed (Performance Method)</p> <p style="margin-left: 20px;">a. Ceiling fans: <u>Yes</u></p> <p style="margin-left: 20px;">b. Cross ventilation: _____</p> <p style="margin-left: 20px;">c. Whole house fan: _____</p> <p style="margin-left: 20px;">d. Multizone cooling credit: _____</p> <p style="margin-left: 20px;">e. Multizone heating credit: _____</p> <p style="margin-left: 20px;">f. Programmable thermostat: _____</p>
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*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: 
 Address of New Home: HERMITAGE GLEN

Date: 3/23/22
 City/FL Zip: HIGH SPRINGS, FL 32643

Florida Building Code, Energy Conservation, 7th Edition (2020)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: HERMITAGE GLEN
HIGH SPRINGS, FL 32643

PERMIT #:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

- R401.3 Energy Performance Level (EPL) display card (Mandatory).** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit, completed and signed by the builder. The building official shall verify that the EPL display card accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

- R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

- R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

- R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

- 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. Testing shall be conducted in accordance with ANSI/RESET/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 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, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent 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, backdraft 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.

- R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

- R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- R402.4.4 Rooms containing fuel-burning appliances** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

- 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.

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, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

- 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:

1. 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.
2. 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:

1. A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. 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 Q_n to the outside of less than 0.080 (where Q_n = 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).** Mechanical system piping capable of carrying fluids above 105°F (41°C) 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 of a demand for hot 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.

MANDATORY 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 1/2 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 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.
 - 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 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:
 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. 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 mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
 - R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure of for mechanical ventilation shall meet the following criteria:
 1. 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.
 2. 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.
 3. 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 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 methodologies, heating and cooling calculation 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.

(a) When tested in accordance HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

- R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation 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.

- R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent 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.

- R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

- R403.9 Snow melt and ice system controls (Mandatory).** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

- R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in 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.

MANDATORY REQUIREMENTS - (Continued)

- 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:
1. 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.
 2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.
 3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.
 4. 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:
1. 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.
 2. 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.
 3. 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.
 4. Ductwork associated with a dehumidifier 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).** 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.

Exception: Low-voltage lighting.

- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Street: City, State, Zip: Owner: Design Location:		Builder Name Permit Office: Permit Number: Jurisdiction:	
HERMITAGE GLEN HIGH SPRINGS, FL 32643 LERNER LUXURY PROPERTIES- DROTOS FL, Gainesville Regional		COLUMBIA COUNTY, FL	
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.	<input type="checkbox"/>
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 spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	<input type="checkbox"/>
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	<input type="checkbox"/>
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		<input type="checkbox"/>
Rim joists	Rim joists are insulated and include an air barrier.	Rim joists shall be insulated.	<input type="checkbox"/>
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 side of 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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
Shafts, penetrations	Duct shafts, utility penetrations, and flue shaft openings to exterior or unconditioned space shall be sealed.		<input type="checkbox"/>
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.	<input type="checkbox"/>
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
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.	<input type="checkbox"/>
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		<input type="checkbox"/>
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.		<input type="checkbox"/>
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.		<input type="checkbox"/>

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

Reference Home Characteristics

LERNER LUXURY PROPERTIES- DROTOS
HERMITAGE GLEN
HIGH SPRINGS, FL 32643

Title: LERNER-DROTOS
FLBase2020

TMY City: FL_Gainesville_Rgn

Above-grade Walls (Uo)	0.084
Above-grade Wall Solar Absorptance	0.75
Above-grade Wall Infrared Emittance	0.90
Basement Walls (Uo)	n/a
Above-grade Floors (Uo)	n/a
Slab Insulation R-Value	0.0
Ceilings (Uo)	0.030
Roof Solar Absorptance	0.75
Roof Infrared Emittance	0.90
Attic Vent Area (ft ²)	8.44
Crawlspace Vent Area (ft ²)	n/a
Exposed Masonry Floor Area (ft ²)	506.40
Carpet & Pad R-Value	2.0
Door Area (ft ²)	40.00
Door U-Factor	0.400
North Window Area (ft ²)	70.21
South Window Area (ft ²)	70.21
East Window Area (ft ²)	70.21
West Window Area (ft ²)	70.21
Window U-Factor	0.400
Window SHGC (Heating)	0.2169
Window SHGC (Cooling)	0.2169
ACH50	7.00
Internal Gains * (Btu/day)	90486
Water heater gallons per day	60.00
Water Heater set point temperature	120.00
Water heater efficiency rating	0.90
Labeled Heating System Rating and Efficiency	HSPF = 8.2
Labeled Cooling System Rating and Efficiency	SEER = 14.0
Air Distribution System Efficiency	0.88
Thermostat Type	Manual
Heating Thermostat Settings	72.0 (All hours)