

## Residential Plans Examiner Review Form for HVAC System Design (Loads, Equipment, Ducts)

Form RPER 1 15 Mar 09

#### Header Information

Contractor:  Mechanical license:  Building plan #:		N HEATING AN N HEATING AN '8		or MJ OEM Manua	al J1 Form IAE Form <sup>a</sup> performan	n Rate Wo	orting wo oorting wo ating, coo	rksheets):	Yes   Yes   Yes   Yes   Yes	No   No   No   No   No   No   No   No
Home address (Street	or Lot#, Block, S	ubdivision):	SW HERM	AITAGE GLEN,					165 L	140
HVAC LOAD (	CALCULATI	ON (IRC M14	01.3)	. V Store	125		TE E		100	Nº Nº
Design Condit	ons			<b>Building Co</b>	onstruc	ction Inf	format	<u>ion</u>		
Winter Design Co Outdoor temperature Indoor temperature Total heat loss:  Summer Design Outdoor temperature Indoor temperature Grains difference: Sensible heat gain: Latent heat gain: Total heat gain:	Conditions ire:  5	33 70 11946 92 72 2 gr/lb @ 50% 12497 4217 16714	RH Btuh Btuh	Building Orientation: North, East, V Number of the Conditioned Number of the Vindows Eave overhal Internal share Blinds, drape Number of state of the Conditioned Number of state overhal Number over overhal Number over overhal Number over over over over over over over ov	nedrooms: floor area: accupants: ang depth: de: es, etc.	Northeast, No		faces South theast, Southwest  2 752 tt² 4  1.5 tt none	Roof Eave Depth	<b>1</b> Window
HVAC EQUIP	MENT SELE	ECTION (IRC	M1401.3	)			BUE.	3330 13		
Heating Equip	ment Data	X	Coolin	g Equipmen	t Data			Blower Data		
Equipment type: Furnace, Heat pump Model: Heating output ca Heat pumps - capaci Aux. heating output	GSZ140181 Dacity: by at winter design ou	Split ASHP Goodman Mfg. L+ASPT25B14A	Model Total o Sensil		SZ140181	Splii Goodma IL+ASPT2 17418 13044 4374	5B14A Btuh Btuh	Heating cfm: Cooling cfm: Static pressure: Fan's rated externalitiow	5 0.3	20 25 5 in H2O ure for design
HVAC DUCT [	DISTRIBUTI	ON SYSTEM	1 DESIGN	I (IRC M1601	.1)			STATE OF STREET	1	
Design airflow: Equipment design E Total device pressure Available static pre	e losses:	620 cfm 0.35 in H2O 0 in H2O 0.35 in H2O	Longest re Total effect	tive length (TEL):	203	ft ft	Duct Ma Trunk d Branch			nd flex vinyl
I declare the load of understand the cla						usly perfor	rmed bas	sed on the building ;	olan listed	above. I
Contractor's printe	d name:							1170		
Contractor's signa	_						_	Date:		
	T - 1	a alita a sa Arith asita			0	142	W. Ja .	19.00 10.00	Ph./S-X	- NAME OF

\*Home qualifies for MJ1AE Form based on Abridged Edition Checklist

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sign Basis & Architectural Scope						HOMETO	WN HEATING	SANDA	R Date:		/A 🗆	1
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esign company:	denian.			R	agni-Suit							1
esign company:  offware name and version used to complete  Dwelling, Townhouse, or Dwelling / Sie	ening Unit Within (i.e. d	uplex	):	MILE								7
			_	_	_							
rchitectural plan name or dual design(3)			_	_								
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a Dwelling / Sleeping Unit Not Within a	oing unit is in:(5)		-									
Unique ID for bldg. trial the difference of the	ling unit model):		+									
Unique ID for bldg. that the awaiing is acceptable.  Architectural plan used in design (e.g. dwell architectural plan used in design called the design calle	n be used with:(6)		-	_								
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1 Other architectural options that the design	design:(7)			WW. 1977						Syste	m 2	
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a specified system type.(10)		-		LOO	R 1		FLOO	R2	Section 1999	70	ne 3	No. Link
	m:(12)			and the same of			Zone					
	vstem:		Zone 1 FLOOR 1				FLOOR 2					
tentilation Zone Served by Verland		-	Other				Oth		-			
6 Ventilation zone name:(12)		+	2388	_	2		752		2			
2.7 Design basis:(13)	nt. zone:	+	2300		100							
(cd ff ) and ff Dediconte	1)	+	-	ofe	very 0		0 of e	very 0	-+			
2.8 Floor area (sq. 16.) and the company of the com	mins):	+		0.0				No. of Concession, Name of Street, or other Designation, Name of Street, Name				
2.9 Ventilation design almow rate (every) 2.10 Vent. runtime per cycle & cycle time (r	CFM):(15)							F		Room-by-f	Room	
2.10 Vent. runtime per cycle a cycle time.  2.11 Time-averaged mechanical vent. rate		= 1161 =	thedology:(17)						72			
3. Heat Gain & Heat Loss Loads	ACCA Manual J 8th	Editio	A1	Hea	ting Seas	ion:	70		Cooling Sea	eon:	92	
3.1 Design basis for the loads:(16) 3.3 Indoor design temperatures used in loads:	ads (°F):			Hea	ating Seas	son:	33		Data Souro	e:	ACCAS	std.
3.3 Indoor design temperatures used in     3.4 Outdoor design temperatures used in	loads (°F):(18)			1		Union,	FL		Jala Joure		Zone 3	
3.4 Outdoor design temperatures used in 3.5 Outdoor design temperature location 8	k data source:(19)			Z	one 1			one 2				
3.5 Outdoor design temperature rocation.  Zone-Specific Inputs & Loads at Design and Zone (20)	n Conditions	-		The same	OOR 1			OOR 2	920			
Zone-Specific Inputs & Louis 2001		-	6	_	13	380	4	4400	320			
3.6 Name of heated or cooled zone:(20) 3.7 Occupants & total occup. internal gains. (Bt.	ns (Btuh):(21)	-			3900			1100 752				
3.7 Occupants & total occupant internal gains (Bt 3.8 Total non-occupant internal gains (Bt ): (22)	uh):	-		_	2388			90				
3.8 Total non-occupant internal games		$\rightarrow$	_		355			0.3	-		li lisan	
3.9 Conditioned floor area (sq. ft.):(22)		-			0.3			0.5	iling: 30.0	Wall:	Ceili	ng:
3.10 Window area (sq. ft.):(23) 3.11 Predominant window SHGC:(24)		-	Wall:	13.0	0 Ceili	ng: 30.0	Wall: 1	semi-tigh	at at		50.00	
	value:(24,25)	-	VVall.	S	emi-tight			61	ıı			
		_			95			Latent	Total	Sensible	Latent	Tota
3.13 Infiltration rate (Qualitative of years) 3.14 Time-averaged mechanical vent. In	ate (CFM):		Sensit	ole	Latent	Total	Sensible	4.2	17.2			
3.14 Time-averaged medical		LN	31.2	-	8.5	39.7	13.0		17.7	1	1	
3.15 Heat gain (kBtuh):(27)		N NE		22.00	8.5	41.3	13.4	4.2	17.6		1	1
		NE E	34.		8.5	42.9	13.3	4.2	17.7	1	1	1
1		SE	A	- 1	8.5	41.4	13.4	4.2	16.7		1	
		SE	30		8.5	38.8	12.5					1
1						40.9	13.4	4.2			1	
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l					8.5	40.2	14.0	4.2	1.5			
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			C-1100			W. Contract		AAI	<b>2</b>	1		
3.16 Maximum – minimum total hea	t gain (kBtuh):(28)				33.3			11.9	9			

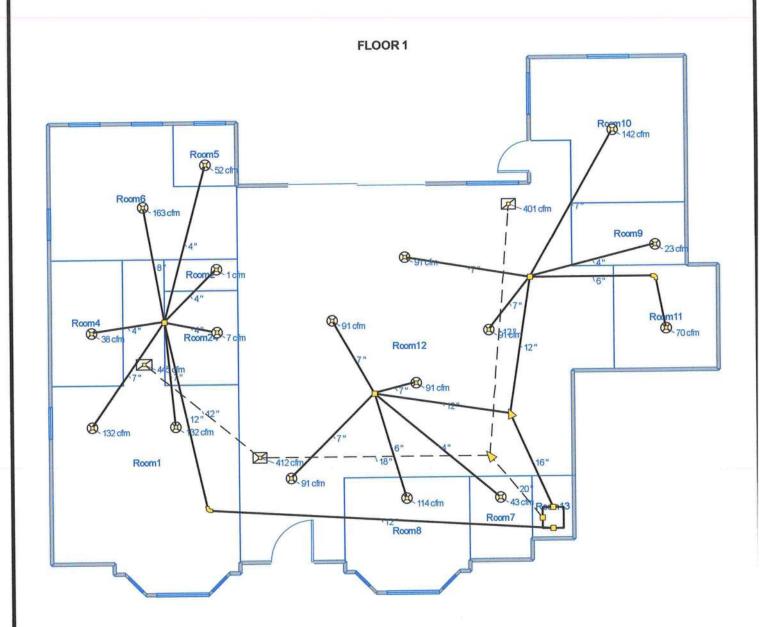
	OCA CONTRACTOR		2	Water Street	3	- Luc 5		
Heating & Cooling Equipment Selection	If none of those will b	ne installed o	heck "N/A")			N/A		
r Conditioners, Heat Pumps, & Other Cooling Equipment (	FLOOR 1	Je il Istaliou,	FLOOR 2	2				
1 Unique name or ID for each system:	FLOOR 1		FLOOR 2					
2 Zone that system serves (See Item 3.6):			HP					
3 Equipment type:(29)	HP HP	20144	GOOD ASPT2	5B14A				
	GOOD ASPT49	JULIAN D	GOOD GSZ140181	L N/A	N/A ==			
.5 Condenser mfr. & model #:(30)	GOOD GSZ140491		202630555	OEM 🗆		OEM III		
.6 AHRI ref. #, or check box for alt. OEM doc.:(31)	201664363	OEM	15 SEER	N/A		N/A =		
.7 If AC / HP, rated cooling efficiency:(32)	15 SEER	N/A	8.2 HSPF	N/A		N/A		
8.8 If HP, rated heating efficiency:(33)	8.5 HSPF	N/A	1.7	N/A		N/A I		
1.9 If HP, ratio of max. to min. rated capacity:	1.8	N/A				N/A IIII		
4.10 If AC / HP, blower fan motor & speed type:(34)	Other Single		Other Single	N/A		N/A		
4.11 If AC / HP, blower fair motor & speed type:(35)	Single	N/A	Single			N/A =		
4.11 If AC / HP, compressor speed type.(36)		N/A		N/A		N/A		
4.12 If AC / HP, meter device type:(36)	0.0	N/A	0.0	N/A =		N/A III		
4.13 If TXV or EEV, OEM subcooling target (°F):(37)		N/A		N/A	AND THE RESERVE OF THE PARTY OF	N/A		
4.14 Filter performance metric and rating:(38)	hese will be installed,	check "N/A"	)	K STEV STEV		IN/A		
4.14 Filter performance metric and rating:(30) Furnaces, Boilers, & Other Heating Equipment (If none of t	At the state of th							
4.15 Unique name or ID for each system:						_		
4.16 Zone that system serves (See Item 3.6):								
4.17 Equipment type:(39)						OFM =		
4.18 Equipment manufacturer & model #:		OEM =		OEM III		OEM II		
4.19 AHRI ref. #, or check box for alt. OEM doc(31)		N/A =		N/A =		1977		
4.20 If furnace or boiler, rated heating efficiency:		N/A		N/A =		N/A II		
4.21 If furnace, blower fan motor & speed type:(34)		N/A		N/A		N/A		
4.22 If furnace or boiler, heating capacity type:(40)		N/A ■		N/A I		N/A		
4.23 If furnace or boiler, venting type:(41)		N/A =		N/A =		N/A		
1 1 1 -1 - 1 (20)				TO NOTE THE WAY		N/A		
<ul><li>4.24 Filter performance metric and rating:(30)</li><li>5. Duct Design (Complete if duct system will be insta</li></ul>	lled; otherwise che	eck "N/A")	FLOOI	22				
5.1 Unique name or ID for each system:			FLOO					
5.2 Zone that system serves (See Item 3.6):	FLOOF			Heating	Cooling	Heating		
Design Values for Cooling and Heating Mode	Cooling	Heating	Cooling	620	Comis			
5.3 Design blower fan airflow (CFM):(42)	1225	1225	525	Medium				
5.3 Design blower fart amow (of tw).(4.2)	Medium	Medium	Medium					
5.4 Design blower fan speed setting:(43)	0.5	5	0.3		Room Name	Airflow		
5.5 Design external static pressure (IWC):(44)	Room Name	Airflow	Room Name	Airflow		WALES OF		
5.6 Room-by-room design airflows (CFM):  Total Design Airflow.	[All rooms]	122		620	[All rooms]	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
Total Design Amov.	Room1	264		88				
2.	Room10	110	Room35	117				
3.	Room11	64	Room37	143				
	Room12	454	4 Room39	84				
4.	Room13	0	- 10	165				
5.	Room2	0	Room41	20				
6.	Room24	3		0				
7.		25		3				
8.	Room4	32						
9.	Room5	12						
10.	Room6	2:						
11.	Room7	11						
12.	Room8							
13.	Room9	1	2			91420-14-		
13.								
13.								
14.								
14. 15. 16.								
14. 15. 16.								
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Airflow	Room Name	Airflow	Room Name	A left was		
			ROOM Name	Airflow	Room Name	.6 Room-by-room design airflows (Continued):
			-			6 Room-by-room design amons (estimated)
						22.
						23.
						24.
						25.
						26.
						27.
						28.
						29.
						30.
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						32.
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						34.
						35.

- The purpose of this report is to document the design information required by ANSI / RESNET / ACCA 310 a standard for grading the installation of HVAC systems - for a dwelling, townhouse, or dwelling / sleeping unit. The HVAC designer should complete one reportper dwelling, townhouse, or dwelling / Footnotes sleeping unit that encompasses all HVAC systems(e.g., for a dwelling with two zones, the HVAC system for each zone should be documented in the same
- Note that this report will be reviewed by users of the standard (e.g., a rater) to ensure that the design meets the tolerances defined in Section 4.3 of ANSI / RESNET / ACCA 310. The HVAC systems will not be eligible to earn recognition for proper installation unless alltolerances are met.
- If the HVAC design documented in this report incorporated one or more options (e.g., media room option), then list those options.
- If this same HVAC design could be used with other options (e.g., bonus room, balcony with sliding glass door), then list those option(s).
- For example, the name of the development or the building's address.
- 6. If this same HVAC design could be used with other plans (e.g., other dwelling unit models) in the building, then list those plan(s).
- Because the loads are dependent on the dwelling / sleeping unit's location in the building, indicate whether the design is for the TopFloor, a Mid-Level-Floor, or the Bottom-Floor of the building; and either a Corner Unit or Middle Unit that is between two other units.
- 8. For example, the unique ID might be "Powder Bath Fan" or "Whole-House ERV".
- The ventilation equipment manufacturer and model number are required to be reported for dwelling / sleeping units not within a dwelling or townhouse; and
- 10. Ventilation system types are: Supply a supply-only system, Exhaust an exhaust-only system, Balanced w/o Recov. a balanced system without energy or heat recovery, ERV - an energy recovery ventilator, HRV - a heat recovery ventilator, Vent. Dehu midifier - a ventilation system with integrated dehumidifier, or Other - any other system type.
- 11. For example, common ventilation control locations include a bathroom or utility room.
- 12. For example, the ventilation zone name may be "Whole Dwelling", "Upper Level", "Lower Level", or "Basement".
- 13. Design basis options are: 62.2-2010 ASHRAE 62.2-2010, 62.2-2013 ASHRAE 62.2-2013, 62.2-2016 ASHRAE 62.2-2016, 62.2-2019 ASHRAE 62.2 - 2019, or Other - any other ventilation standard.
- 14. Enter the airflow rate of the ventilation system when operating (e.g., a 50 CFM cycled bath fan has a ventilation airflow rate of 50 CFM).
- 15. The following formula shall be used to determine the time-averaged ventilation airflow rate: Time Averaged Vent Rate = Vent Rate \* Runtime Per Cycle / Cycle Time Where: • Time Averaged Vent Rate = The time - averaged ventilation airflow rate. • Vent Rate = The design's ventilation airflow rate reported in Item 2.9. • Runtime Per Cycle = The runtime per cycle reported in Item 2.10. • Cycle Time = The cycle time reported in Item 2.10.
- 16. Design basis options for the heat gain and heat loss loads are: ACCA Manual J v8 2013 ACCA Manual J v8, 2013 edition; ACCA Manual J v8 2016 -ACCA Manual J v8, 2016 edition; 2017 ASHRAE Fund. - 2017 ASHRAE Fundamentals; or Per AHJ - a design basis prescribed by the Authority Having
- 17. Load methodology options are: Room-by-Room or Single Block. Note that for dwellings, townhouses, and dwelling / sleeping units within(i.e., duplex), the
- 18. Note that the outdoor design temperatures must meet the limits defined in ANSI / RESNET / ACCA 310 Appendix A for the county or U.S. Territory where
- 19. The location shall include the city or weather station and the state. The data source options are: ACCA ACCA Manual J, ASHRAE ASHRAE Handbook of Fundamentals, or AHJ - design conditions prescribed by the Authority Having Jurisdiction.
- 20. For example, the heated or cooled zone name may be "Upper Level", "Master Suite", or "Basement".

- 21. To determine the number of occupants, calculate the number of bedrooms in the zone and add one. ANSI / RESNET / ACCA 310 defines a "bedroom" for one and two family dwellings and townhouses as a room or space 70 square feet of floor area or greater, with egress window or skylight, and doorway to the main body of the dwelling unit, that can be used for sleeping. For all other Dwelling Units, a room or space that can be used for sleeping. For all dwelling or sleeping units, the number of bedrooms shall not be less than one. ANSI / RESNET / ACCA 310 defines an "egress window" as an operable window that provides for a means of escapeand access for rescue in the event of an emergencyand with the following attributes: Has a sill height of not more than 44 inches above the floor; and, Has a minimum net clear opening of 5.7 sq.ft., opening height of 24 in., and opening width of 20 in.; and, Is operational from the inside of the room without the use of keys, tools or special knowledge. The number of occupants must fall within the tolerance specified in ANSI / RESNET / ACCA 310. See Fn. 2 for details.
- 22. The difference between the Conditioned Floor Area (CFA) used in the design and the actual dwelling, townhouse, or dwelling / sleeping unit must fall within the tolerance specified in ANSI / RESNET / ACCA 310. See Fn. 2 for details. Be advised, the CFA will be evaluated using the definition in ANSI / RESNET / ACCA 310, which defines this value, in part, as the floor area of the Conditioned Space Volume within a building or dwelling unit, not including the floor area of attics, crawlspaces, and basements below air sealed and insulated floors.
- 23. The difference between the window area used in the design and the actual dwelling, townhouse, or dwelling / sleeping unit must fall within the tolerance specified in ANSI / RESNET / ACCA 310. See Fn. 2 for details. Be advised, the window area will be evaluated by calculating it using the on site inspection protocol provided in Normative Appendix B of ANSI / RESNET / ICC 301, which instructs the user to measure the widthand height of the rough opening for the windoward round to the nearest inch, and then to use these measurements to calculate window area, rounding to the nearest tenth of a square foot. See https://codes.iccsafe.org/content/chapter/16191/ for the complete protocol.
- 24. "Predominant" is defined as the SHGC or R-value used in the greatest amount of window, wall, or ceiling area in the zone.
- 25. If both cavity and continuous insulation are used, report the sum of the nominal R-value of the cavity and continuous insulation.
- 26. The infiltration rate shall be reported using a qualitative input (i.e., Tight, Semi-Tight, Average, Semi-Leaky, Leaky) or in units of ACH50.
- 27. Provide loads for the orientation(s) that the design is intended to be used in (e.g., N, S, E, W), where orientation is defined as the direction that the front door of the dwelling is facing. For example, if a site specific design has been completed for a single project, only the loads for the single orientation of that project need to be provided.
- 28. If the heat gain has been provided for multiple orientations, then the difference between the max. and min. total heat gain across the orientations specified must be reported and fall within the tolerance specified in ANSI / RESNET / ACCA 310. See Fn. 2 for details.
- Equipment type options are: AC Air Conditioner, HP Heat Pump, MNAC Mini-Split Air Conditioner, MNHP Mini-Split Heat Pump, MTAC Multi Split
  Air Conditioner, MTHP Multi Split Heat Pump, and Other any other cooling equipment type.
- For single-package systems or systems without a condenser (e.g., evaporative cooler), provide manufacturer and model number in Item 4.4 and select "N / A" for Item 4.5.
- 31. If an AHRI Reference Number is not available, OEM-provided documentation shall be collected with the rated efficiency of the equipment. If the equipment contains multiple components, the rated efficiency shall reflect the specific combination of indoorand outdoor components, along with confirmation from the OEM that the two components are designed to be used together.
- 32. For example, if the metric for the rated efficiency of the equipment is SEER, then its SEER rating shall be reported; if the metric is EER, then its EER rating shall be reported; if both SEERand EEER, then both rated values shall be reported.
- 33. For example, if the metric for the rated efficiency of the equipment is HSPF, then its HSPF rating shall be reported; if the metric is COP, then its COP rating shall be reported; if both HSPFand COP, then both rated values shall be reported.
- 34. Blower fan motor type options are: PSC Permanent Split Capacitor, ECM Electronically Commutated Motor, or Other any other motor type. For blower fan speed type, while equipment typically has multiple speed settings to select from during installation, this parameter is related to the number of operational speeds that the blower fan is capable of: Single a system that operates at no more than one speed setting each for heating modeand cooling mode, Two a system that can operate at no more than two speeds each for heating modeand cooling mode, Variable a system that can operate at more than two speeds.
- 35. The compressor speed type is related to the number of operational speeds that the compressor is capable of: Single a system that operates at no more than one speed setting each for heating modeand cooling mode, Two a system that can operate at no more than two speeds each for heating modeand cooling mode, Variable a system that can operate at more than two speeds.
- 36. Meter device type options are: Piston/Cap piston / capillary tube, TXV thermal expansion valve, or EEV electronic expansion valve.
- 37. If the meter device type is TXV or EEV, then provide then the OEM-specified subcooling target at the service valve.
- 38. For example, MERV or FPR.
- 39. Equipment type options are: Furnace, Boiler, or Other any other heating equipment type.
- Heating capacity type options are: Single-Stage, Two-Stage, or Modulating.
- 41. Vent. type options are: Natural Draft natural draft system, Mech. Draft mechanical draft system, or Direct Vent direct-vent appliance.
- 42. Provide design airflow in cubic feet per minute of air with a density of 0.075 pounds per cubic feet. Airflow at this air density is often referred to as Standard CFM(SCFM) and represents air at 68 °F, 50 % relative humidity, and at a barometric pressure of 29.92" Hg.
- 43. This is the OEM setting that corresponds with the design blower fan airflow. Common examples include low, medium-low, medium, medium high, and high, but also may be defined in terms of dip switch settings or other classifications





### Job #: Performed for:

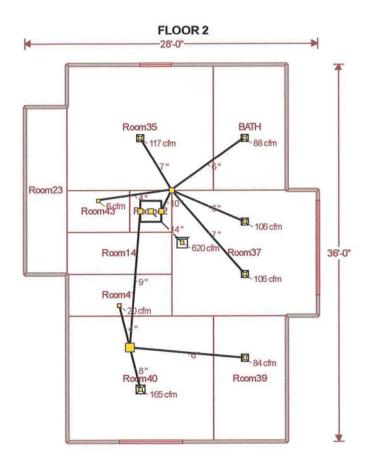
LERNER LUXURY PROPERTIES SW HERMITAGE GLEN HIGH SPRINGS, FL 32643

#### HOMETOWN HEATING AND AIR

399 SW BOSTONTER FORT WHITE, FL 32038 Phone: 352-316-7273 License: CAC1818078 Scale: 1: 110

Page 1
RightSuite® Universal 2022
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#### Job #: Performed for:

LERNER LUXURY PROPERTIES SW HERMITAGE GLEN HIGH SPRINGS, FL 32643

#### HOMETOWN HEATING AND AIR

399 SW BOSTON TER FORT WHITE, FL 32038 Phone: 352-316-7273 License: CAC1818078 Scale: 1: 110

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### 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)
Requi	ired prio	r 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).

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: LERNER LUXURY PROPERTIES Street: SW HERMITAGE GLEN City, State, Zip: HIGH SPRINGS, FL 32643 Owner: LERNER LUXURY PROPERTIES Design Location: FL, Gainesville Regional AP	Builder Name: LERNER LUXURY PROPERTIES  Permit Office: Permit Number: Jurisdiction: County: (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of bedrooms 4 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 3140.00 7. Windows (445 ft²) a. U-Factor: SHGC: b. U-Factor: SHGC: 0.56 b. U-Factor: SHGC: 0.31 c. U-Factor: SHGC: 0.36 d. U-Factor: SHGC: 0.35 305.58 SHGC: 0.35  8. Floor types (2626.00 ft²) a. Bg floor, heavy dry or light dam b. Fir floor, frm fir, 12" thkns, c c. Fir floor, frm fir, 12" thkns, c 30.0 243.00	b. Sup: FLOOR 1, Ret: FLOOR 2, AH: FLOOR 2  12. Cooling systems
Glass/Floor area: 0.142 Total Proposed Mo Total Bas	diffied Loads: 103.59 PASS seline Loads: 110.63
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  Prepared By Hawkan Head Acr  Signature	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 558 908 Florida Statutes.  Reviewed for COD WE TRUSH Signature Date  Code  Compliance

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies a
  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**

		Buil	lding li	nput	Su	mma	iry r	epoi	<u> </u>			$\neg$
				PRO	JEC.	Т						$\dashv$
Title: Buildir Dwner t of Ur Builde Permit Jurisdi Family New/E Year C	LERNER LUXUR  Thints:	YPROPERTIE YPROPERTIE	Bedroo Bathroo Conditi- Total St Worst C Rotate Cross V Whole Terrain Shieldi	oms: oned Area ories: Sase: Angle: Jentilation House Fa	: : n:	4 6280 2 No 0 No No No Rural Moderate	Lot# Bloc Platt Stree Cou City,	ess type: k/Subdivisi cock: et: nty: State, Zip:	on: SW HI	ermation ERMITAG SPRING	GE GLE	
				CLI	MATI	E				Design	Daily Te	mn
1	Design Location		TMY Site	IECC Zone	97.5 %		Winter		Heating Degree Days	Design Moisture 52	Rang	je
	FL, Gainesville Regional A	P FL	_Gainesville_Rgn	2	33	92	70	72	0	52	Medi	2111
				BL	OCK	S						_
#	Name		Area	Volume								
1 2	FLOOR 1 FLOOR 2		2388.00 ft <sup>2</sup> 752.00 ft <sup>2</sup>	24920.00 7060.00	ft³							
				SF	ACE	S						
#		Area	Volume	Kitcher	0	ccupants	Bedrooms	s Infil ID	Finished	Cooled	Heate	
1234567891012345678901	Room9 Room10 1 Room11 1 Room12 1	Room1		NO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		20000101020120100000	100000010001001000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	YES SESSES SESSES SESSES SESSES SESSES SESSES	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	
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1	# Flo	or Type		Spac		Perimeter	R-Value	Area		0	1.0	0
	1 Bg floor, heavy dry or lig 2 Bg floor, heavy dry or lig 3 Bg floor, heavy dry or lig 4 Fir floor, frm flr, 12" thick 5 Bg floor, heavy dry or lig 6 Bg floor, heavy dry or lig 7 Bg floor, heavy dry or lig 8 Bg floor, heavy dry or lig 10 Bg floor, heavy dry or lig 11 Bg floor, heavy dry or lig 12 Fir floor, frm flr, 6" thick 13 Fir floor, frm flr, 6" thick 14 Fir floor, frm flr, 6" thick 15 Bg floor, heavy dry or lig 16 Fir floor, frm flr, 6" thick 17 Fir floor, frm flr, 6" thick 18 Fir floor, frm flr, 6" thick 19 Fir floor, frm flr, 6" thick 19 Fir floor, frm flr, 6" thick 10 Fir floor, frm flr, 6" thick 10 Fir floor, frm flr, 6" thick 11 Fir floor, frm flr, 6" thick 12 Fir floor, frm flr, 6" thick 13 Fir floor, frm flr, 6" thick 14 Fir floor, frm flr, 6" thick 15 Fir floor, frm flr, 6" thick 16 Fir floor, frm flr, 6" thick 17 Fir floor, frm flr, 12" thick	int damp soil int damp soil int damp soil ints, carpet fir int damp soil	, 5' depth, , 5' depth, , 5' depth, fnsh, r' , 5' depth, , 5' depth, , 5' depth, , 5' depth, , 5' depth, , 5' depth, , sh, r- nsh, r- nsh, r- nsh, r- fnsh, r	Room Room Room Room Room Room Room Room	14 156 167 189 191 191 191 191 191 191 191 191 191	39 12 26 58 66 32 69 10 00 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 19 0 0 0 0 0 0 0 0 32 2 32 3 0 3 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	382.00 ft² 84.00 ft² 36.00 ft² 198.00 ft² 198.00 ft² 48.00 ft² 124.00 ft² 100.00 ft² 1056.00 ft² 1056.00 ft² 224.00 ft² 22.00 ft² 22.00 ft² 22.00 ft² 63.00 ft²	0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.049 0.049 0.049 0.049	000000000000000000000000000000000000000	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0000000011111111111111111111111111111

					RO	OF							- Imposur-
1	#	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr		SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (deg
	1 2	Gable or shed Gable or shed	RoofAsph RoofAsph	2030 ft² 815 ft²	390 ft² 157 ft²	Dark Dark	Y	0.75 0.75	No No	0.90 0.90	No No	8	23 23
_					АТТ	1C							
1	#	Type		Ventilation	Vent R	atio (1 in	)	Area	RBS	IRCC			
1 Full attic Vented 2 Full attic Vented			300 300			1874.00 ft <sup>2</sup> 752.00 ft <sup>2</sup>	Y	N N					
			-		CEIL	ING		(To	otal Expo	sed Are	a = 2626	sq.ft.)	)
1	#	Ceiling Type		Space	R-Value	U	-Factor	Α	rea	Framing	Fraction	Truss	з Тур
	1234567890112345678	Attic ceiling, asphalt s	chingles roof shingles roof	Room1 Room4 Room6 Room7 Room8 Room10 Room11 Room12 BATH Room35 Room37 Room39 Room40 Room41 Room41 Room41	30 30 30 30 30 30 30 30 30 30 30 30 30 3		0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032 0.032	48 124 66 186 100 850 168 168 168 40 168	.00 ft²	0.10 0.10 0.11 0.11 0.11 0.11 0.11 0.11			

			5-2020		-			W	ALLS			(Tota	al Expos	sed Ar		3873 sq.f	
1	#	Omf	Adjacer	nt To	Wall Type		Space	Cavity R-Value	Width Ft In	Height Ft In	Area		eathing -Value	U- Factor	Frm. Frac.	Solar Absor	Below Grade%
	12345678911123456789012234567893333333333344444444444444444444444444	±₩°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Exter Exter Exter Exter Exter	ior or ior ior ior ior ior ior ior ior i	Fm wall, stuce Fm wal	00 00 00 00 00 00 00 00 00 00 00 00 00	Room1 Room1 Room1 Room1 Room1 Room1 Room1 Room1 Room1 Room5 Room6 Room6 Room6 Room6 Room6 Room8 Room8 Room8 Room8 Room10 Room10 Room11 Room11 Room11 Room11 Room12 Room12 Room12 Room35 Room37	222222222222222222222222222222222222222	12862826127292612821654802008644472543233753464	000000000000000000000000000000000000000	80.0 60.0 12	ኯጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜ	000000000000000000000000000000000000000	0.091 0.091	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.75 0.75 0.75 0.75 0.75	000000000000000000000000000000000000000
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	111111111111111111111111111111111111111	12345673901234567890	₩º\$\$zzz\$₩º\$z\$zzø\$zmø	2 Wo 35 Vir 6 Vir 8 11 Vir 111 Vir 113 Wo 113 Wo 11	NY Low-E Doi Double (C NY Low-E Doi NY Low-E	ear) N N N N N N N N N N N N N N N N N N N	0 0.5 0 0.4 0 0 0.4	70 0.56 70 0.31 770 0.32 770 0.35 770 0.37	8 No	1'11" 5'0" 1'11" 3'0" 3'0 3'0" 3'0" 5'0" 4'0" 4'0" 4'0" 3'0" 3'0" 3'0" 6'0"	x 50" 11 x 50" 11 x 50" 11 x 50" 11 x 20" 11 x 20" 12 x 50"	050566655750065424550	8 ft 0 in 1 ft 6 in 13 ft 0 in 8 ft 0 in 13 ft 0 in 0 ft 0 in 1 ft 6 in 1 ft 6 in	3333333333233303330333		None None None None None None None None	None None None None None None None None
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						Н	EATING	SYS	STEM							
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		0,511				С	OOLING	SYS								
1	#		System Ty	/pe		Su	btype		Efficiency	y Cap	acity	Air Flow	SHR	Blo	ck	Ducts
	1 2	Spl	t air source h	eat pump					15 SEEF	45.5 k	Btu/hr 1	225 cfm 525 cfm	0.70 0.70	1 2		sys#1 sys#2
						НО	T WAT	ERS	YSTEM	X S						
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	1	Propar	e instantaneo				0.80 UE	F 0	gal	70 gal	120 °F			No	one	
							DU	ICTS								
1	#	Location	Supply R-Value	Area		- Return		Leakag	е Туре	Air Handler	CFM 25 Out	Percent Leakage	QN	RLF	HVA Heat	AC# Cox
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	ermost nedule	at Schedule: Type	Florida Bu (2020)	uilding Co	de, 7th 1	Edition 3	4	5	Hour 6	s 7	8	9	10	11	1	12
	oling (\		AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	5	75 75
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### **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

### **ESTIMATED ENERGY PERFORMANCE INDEX = 94**

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

1. New home or addition	1. New (From Plans)	12. Ducts, location & insulation level a. Supply ducts:	60
2. Single-family or multiple-family	2. Single-Family	b. Return ducts:	6.0 6.0 OR 1,FLOOR 2
3. Number of units, if multiple-family	31_		
4. Number of bedrooms	44_	13. Cooling systems Capacity a. Split system: SEER	61.3 15.00
5. Is this a worst case? (yes/no)	5No_	b. Single package: SEER_ c. Ground/water source: SEER/COP_	
6. Conditioned floor area (ff²)	66280.00_	d. Room unit/PTAC: EER e. Other:	
7. Windows, type and area* a. U-Factor: b. Solar Heat Gain Coefficient (SHGC): c. Area (ft²)  8. Skylights a. U-Factor:	7a. Dbl(Avg), 0.479 7b. 0.35 7c. 445	14. Heating systems a. Split system heat pump: b. Single package heat pump: c. Electric resistance: d. Gas furnace, natural gas: e. Gas furnace, LPG: f. Other:	8.20
b. Solar Heat Gain Coefficient (SHGC):	8b	15. Water heating systems	
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. 27.3 9c.	a. Electric resistance:  b. Gas fired, natrual gas: c. Gas fired, LPG: d. Solar system with tank:	0.80 UEF
10 Wall type and insulation: a. Exterior: 1. Wood/mtl frame (Insulation R-value):	10a113 10a2	e. Dedicated heat pump with tank:  f. Heat recovery unit: HeatRec%  g. Other:	
Masonry (Insulation R-value):     b. Adjacent:     1. Wood/mtl frame (Insulation R-value):     2. Masonry (Insulation R-value):	10a2 10b1 10b2	HVAC credits claimed (Performance Methoral Ceiling fans:     b. Cross ventilation:     c. Whole house fan:	Yes
11. Ceiling type and insulation level		d. Multizone cooling credit: e. Multizone heating credit:	Yes
a. Under attic (R-value): b. Single assembly (R-value): c. Knee walls/skylight walls (R-value) d. Radiant barrier installed	11a. 30.0 11b. 11c. 11d.	f. Programmable thermostat:	Yes
*Label required by Section 303.1.3 of the Florid	la Building Code, Energy	Conservation, if not DEFAULT.	
I certify that this home has complied with the Fle features which will be installed (or exceeded) in completed based on installed Code compliant	this home before final i	ergy Conservation,through the above energy savinspection. Otherwise, a new EPL Display Card v	ng vill be
Builder Signature:		Date:	
Address of New Home: SW HERMITAG	E GLEN	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:	SW HERMITAGE GLEN HIGH SPRINGS, FL 3264	PERMIT#: 3
N	MANDATORY	REQUIREMENTS -	See individual code sections for full details.
	<i>y</i>		SECTION R401 GENERAL
<b>~</b>	(Section 553.908	35, Florida Statues) requires the EP	by card (Mandatory). The building official shall require that an energy performance level (EPL) er to be accurate and correct before final approval of the building for occupancy. Florida law PL display card to be included as an addendum to each sales contract for both presold and ard contains information indicating the energy performance level and efficiencies of components by the building official shall verify that the EPL display card accurately reflects the plans ance for the building. A copy of the EPL display card can be found in Appendix RD.
		SECTIO	N R402 BUILDING THERMAL ENVELOP
	R402.4 Air leake Sections R402.4	age (Mandatory). The building .1 through R402.4.5.	thermal envelope shall be constructed to limit air leakage in accordance with the requirements of
	Excep comply	otion: Dwelling units of R-2 Occu v with Section C402.5.	pancies and multiple attached single family dwellings shall be permitted to
	R402.4.1 Building methods between	ng thermal envelope. The build n dissimilar materials shall allow for	ding thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing differential expansion and contraction.
	with the manufac	turer's instructions and the criteria	e building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance listed in Table 402.4.1.1, as applicable to the method of construction. Where required spect all components and verify compliance.
	changes per hour accordance with A individuals as def	r in Climate Zones 1 and 2, and th ANSI/RESET/ICC 380 and report fined in Section 553.993(5) or (7), 1 party - A written report of the result	nit shall be tested and verified as having an air leakage rate not exceeding seven air ree air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in ed at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or its of the test shall be signed by the party conducting the test and provided to the code creation of all penetrations of the building thermal envelope.
	Excep	otion: Testing is not required for a gs in which the new construction is	additions, alterations, renovations, or repairs, of the building thermal envelope of existing seless than 85 percent of the building thermal envelope.
	1. Externation wear wear 2. Darrinter 3. Inter 4. Externation 5. Hear	ntherstripping or other infiltration cor npers including exhaust, intake, manded infiltration control measures. Fior doors, if installed at the time of the cort o	akeup air, backdraft and flue dampers shall be closed, but not sealed beyond

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 labeledin accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-figging 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.

M	ANDATORY 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 apliances 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
님	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:
	<ol> <li>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.</li> <li>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.</li> </ol>
	Exceptions:
	<ol> <li>A duct leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.</li> <li>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.</li> <li>A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.</li> </ol>
	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 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.

### 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 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. **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. Wentilation system, fans shall meet the efficacy requirements of Table R403.6.1. When installed to function as a whole-house mechanical **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: 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, craw/spaces, 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 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

M	anda'	TORY 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.				
	expander	ished value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's d performance 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 nce data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature			
	Design v	alues for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load n 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.			
		<ol><li>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.</li></ol>			
П	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	1.3 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:			
		<ol> <li>A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.</li> <li>A variable capacity system sized for optimum performance during base load periods is utilized.</li> </ol>			
	<b>R403.8</b> S C403 an	Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections of C404 of the IECC—Commercial Provisions in lieu of Section R403.			
	shall inclu	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 ion 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 shall be i	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.			

M	ANDATORY 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.
П	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.
	<ol><li>Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.</li></ol>
	SECTION R404
E	LECTRICAL 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

City, State, Zip:	IIGH SPRINGS, FL 32643 Pe	ilder Name LERNER LUXURY PROPERTIES mit Office: mit Number: isdiction:	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	1
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/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
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.		
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.		

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 2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:				Permit Number:	
lob Informatio	n				
Builder: LERNER		Community:			Lot: LOT7
Address: SW HER	TIES MITAGE GLEN		Unit:		
city: HIGH SP	RINGS	State	: FL		Zip: 32643
Air Leakage To	est Results	Passing results mus	st meet either	the Performance, Pr	rescriptive, or ERI Method.
PRESCRIPTIV	/E METHOD	The building or dwelling u 7 air changes per hour at a	nit shall be test a pressure of 0.	ed and verified as ha 2 inch w.g. (50 pasc	iving an air leakage rate of not exceeding cals) in Climate Zones 1 and 2.
	CE or ERI METHO	the selected AC section labeled	H(50) value, a as Infiltration, s	s shown on FORM F sub-section ACH50.	arified as having an air leakage rate of not exc R405-2020 (Performance) or R406-2020 (E
ACH(50) s	pedified on Form R	405-2020-Energy Calc (F	Performance) o	or R406-2020 (ERI):	7.000
CFM(50)	60 + 319 Building	Volume ACH(50)	<del>-</del>	Meth	od for calculating building volum Retrieved from architectural plans Code software calculated
R402.4.1.2 Testing. (50 Pascals). Testing as set forth in Section conducting the test at thermal envelope.  During testing:  1. Exterior windows at other infiltration control m. 2. Dampers including infiltration control m. 3. Interior doors, if ins. 4. Exterior doors for c. 5. Heating and coolin	Testing shall be shall be conducted 489.105(3)(f), (g), and provided to the conducted to th	conducted in accordance v by either individuals as de or (i) or and approved third ode official. Testing shall be	with ANSI/RES  Ifined in Section party. A written performed and seed, but not so ue dampers sh  y ventilators sh hall be turned	SNET/ICC 380 and r n 553.993(5) or (7), n report of the results t any time after creation ealed, beyond the inter- nall be closed, but not nall be closed and sea off.	reported at a pressure of 0.2 inch wg. Florida Statues, or individuals licensed sof the test shall be signed by the party on of all penetrations of the building
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### **Reference Home Characteristics**

LERNER LUXURY PROPERTIES SW HERMITAGE GLEN HIGH SPRINGS, FL 32643	Title: LERNER LOT7 REV FLBase2020	TMY City: FL_Gainesville_Rgn
Above-grade Walls (Uo)	0.084	
Above-grade Wall Solar Absorptance	0.75	
Above-grade Wall Infared Emittance	0.90	
Basement Walls (Uo)	n/a	
Above-grade Floors (Uo)	0.064	
Slab Insulation R-Value	0.0	
Ceilings (Uo)	0.030	
Roof Solar Absorptance	0.75	
Roof Infared Emittance	0.90	
Attic Vent Area (ff²)	6.25	
Crawlspace Vent Area (ft²)	n/a	
Exposed Masonry Floor Area (ft²)	460.80	
Carpet & Pad R-Value	1.7	
Door Area (ft²)	40.00	
Door U-Factor	0.400	
North Window Area (ft²)	111.19	
South Window Area (ft²)	111.19	
East Window Area (ft²)	111.19	
West Window Area (ft²)	111.19	
Window U-Factor	0.400	
Window SHGC (Heating)	0.2169	
Window SHGC (Cooling)	0.2169	
ACH50	7.00	
Internal Gains * (Btu/day)	126948	
Water heater gallons per day	140.00	
Water Heater set point temperature	120.00	
Water heater efficiency rating	0.77	
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)	