

Residential System Sizing Calculation

Summary Project Title:

Project Title: Jewett Residence

Lake City, FL 32055

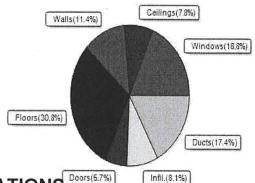
6/9/2020

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
	Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)				
Winter design temperature(TMY3	399%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	² 75	
Winter temperature difference 40 F Summer temperature difference 19 F					
Total heating load calculation	38588	Btuh	Total cooling load calculation	27053	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	94.5	36467	Sensible (SHR = 0.85)	105.4	24019
Heat Pump + Auxiliary(0.0kW)	94.5	36467	Latent	99.5	4239
			Total (Electric Heat Pump)	104.5	28258

WINTER CALCULATIONS

Winter Heating Load (for 2320 sqft)

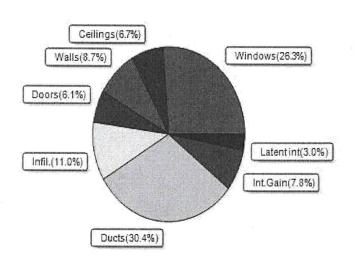
Load component			Load	
Window total	330	sqft	7260	Btuh
Wall total	1422	sqft	4395	Btuh
Door total	120	sqft	2208	Btuh
Ceiling total	2320	sqft	3003	Btuh
Floor total	2320	sqft	11894	Btuh
Infiltration	71	cfm	3130	Btuh
Duct loss			6696	Btuh
Subtotal			38588	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			38588	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2320 sqft)

Load component			Load	
Window total	330	sqft	7109	Btuh
Wall total	1422	sqft	2352	Btuh
Door total	120	sqft	1656	Btuh
Ceiling total	2320	sqft	1817	Btuh
Floor total			0	Btuh
Infiltration	54	cfm	1115	Btuh
Internal gain			2120	Btuh
Duct gain			6623	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			22791	Btuh
Latent gain(ducts)			1611	Btuh
Latent gain(infiltration)			1851	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occup	ants/othe	r)	800	Btuh
Total latent gain			4262	Btuh
TOTAL HEAT GAIN			27053	Btuh





EnergyGauge® System Sizing PREPARED BY:	
DATE:	

Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

Al	DDRESS:	ake City , FL , 320	55	Permi	t Number:	_	
MAI				vidual code section	s for full details		
/				CTION R401 GEN			
	be completed and Florida Statutes) r The EPL display o official shall verify	certified by the bui equires the EPL di ard contains inforn that the EPL displa	I (EPL) display card ilder to be accurate a splay card to be inclu nation indicating the o ay card completed an	d (Mandatory). The building nd correct before final apprinted as an addendum to each energy performance level a	official shall require that ar oval of the building for occ ich sales contract for both nd efficiencies of compon curately reflects the plans a	n energy performance level (EF cupancy. Florida law (Section 5 presold and nonpresold reside ents installed in a dwelling unit. and specifications submitted to	53.9085, ntial buildings. The building
	Exc	ugh R402.4.5.		mal envelopeshall be cons		in accordance with the require	ments of Section
	R402.4.1 B sealing met	uilding thermal er hods between dissi	nvelojiæbuilding the imilar materials shall	rmal envelopeshall comply allow for differential expans	with Sections R402.4.1.1 sion and contraction.	and R402.4.1.2. The	
	manufactur	er's instructions an	d the criteria listed in	lding thermal envelopeas li Table R402.4.1.1, as appli ponents and verify complia	icable to the method of cor	shall be installed in accordance nstruction. Where required by t	with the he code
	ANSI/RESN Section 553 written repo	ate Zones 1 and 2, IET/ICC 380 and r .993(5) or (7), Flor rt of the results of t	, and three air change eported at a pressure ida Statutes, or indivi he test shall be signe	es per hour in Climate Zone e of 0.2 inch w.g. (50 pasca iduals licensed as set forth	es 3 through 8. Testing shalls). Testing shall be condu in Section 489.105(3)(f), (rate not exceeding seven air chall be conducted in accordance ucted by either individuals as dog) or (i) or an approvedthird paecode official. Testing shall be	e with efined in arty. A
	Exception: which the ne		required for addition less than 85 percent	ns, alterations, renovations, of the building thermal enve	or repairs, of the building t elope.	hermal envelopeof existing bui	ldings in
	infiltration co 2. Dampers infiltration co 3. Interior do 4. Exterior d 5. Heating a	vindows and doors, ontrol measures. including exhaust, ontrol measures. oors, if installed at to oors for continuous nd cooling systems	intake, makeup air, b the time of the test, sl s ventilationsystems s, if installed at the tin	packdraft and flue dampers	shall be closed, but not se rsshall be closed and sea ed off.	Ξ.	
	tight-fitting doors o	n factory-built firep	laces listed and labe	II have tight-fitting flue dam led in accordance with UL 1 doors shall be listed and la	127, the doors shall be tes	r combustion air. Where using ted and listed for the fireplace. JL 907.	
	square foot (1.5 L/	s/m2), and swingin	ig doors no more than	nd sliding glass doors shall I n 0.5 cfm per square foot (2 ntlaboratoryand listed and	2.6 L/s/m2), when tested a	of no more than 0.3 cfm per ccording to NFRC 400 or AAN rer.	IA/
	Exception:	Site-builtwind	dows, skylights and d	loors.			

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 envelopeor enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the enveloperequirements 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:	
 Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. 	
R402.4.5 Recessed lighting. Recessedluminaires installed in the building thermal envelopeshall 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.	
R403.1 Controls. SECTION R403 SYSTEMS	
R403.1.1 Thermostat provision (Mandatory). Alleast one thermostat shall be provided for each separate heating and cooling system.	
R403.1.3 Heat pump supplementary heat (Mandatory). Heapumps 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) Allducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or 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. Airhandlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.	
R403.3.3 Duct testing (Mandatory). Ductsshall be pressure tested to determine air leakage by one of the following methods:	
 Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacture handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test. 	ctur
 Postconstruction 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. Registers shall be taped or otherwise sealed during the test. 	
Exceptions:	
 A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. 	
Duct testing is not mandatory for buildings complying by Section 405 of this code.	
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. Pipinginsulation 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). Heatewater 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, temperaturesensors and pumps shall be accessible. Manual controls shall be readily accessible.	
R403.5.1.1 Circulation systems. Heatedwater circulation systems shall be provided with a circulation pump. The system return pipe shall be a 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. Electricheat 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.

MA	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storagewater heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Servicewater-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. Aseparate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solarsystems 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). Thebuilding 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 stalled to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where whole-house 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 or for mechanical ventilations hall 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 ventilationor air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	If ventilationair is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacementheating 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 MAXIMUN (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

When tested in accordance with HVI Standard 916

MA	R403.7.1.1 Cooling equipment capacity. Cooling nly 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 availablesize 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:	
	 Attached single- and multiple-familyresidential 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. 	
	When signed and sealed by a Florida-registeredengineer, in attached single- and multiple-familyunits, the capacity of equipment may be sized in accordance with good design practice. Page 7.1.0.1. It is a signed and sealed by a Florida-registeredengineer, in attached single- and multiple-familyunits, the capacity of equipment may be sized in accordance with good design practice.	
_	R403.7.1.2 Heating equipment capacity.	
Ш	R403.7.1.2.1 Heat pumps. Heatpump 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. Residence sequiring 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:	t
	 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainmentareas. 	
	 A variable capacity system sized for optimum performance during base load periods is utilized. 	
	R403.8 Systems serving multiple dwelling units (Mandatory). Systemserving 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) Snowand 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).	
	103.10 Pools and permanent spa energy consumption (Mandatory). in accordance with Sections R403.10.1 through R403.10.5. Thenergy consumption of pools and permanent spas shall be	
	R403.10.1 Heaters. Theelectric 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. Timeswitches 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:	
	 Where public health standards require 24-hour pump operation. Pumps that operate solar- and waste-heat-recoverypool heating systems. Where pumps are powered exclusively from on-site renewable generation. 	
	R403.10.3 Covers. Outdoorheated swimming pools and outdoorpermanent 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 energular 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. Algas- 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.	rgy,

	R403.10.5 Heat pump pool heaters. Heatpump 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	3.11 Portable spas (Mandatory) heenergy consumption of electric-powered portable spas shall be controlled by the requirements of P-14.
	SECTION R404
ELEC	TRICAL POWER AND LIGHTING SYSTEMS
	I.1 Lighting equipment (Mandatory). Notess than 75 percent of the lamps in permanentlyinstalled lighting fixtures shall be efficacy lamps or not less than 75 percent of the permanentlyinstalled lighting fixtures shall contain only high-efficacy lamps.
	Exception: Low-voltagelighting.
	R404.1.1 Lighting equipment (Mandatory). Fuebas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

	AIR BARRIER AND INSULATION INSPECTI	ON COMPONENT CRITERIA
Project Name: Street: City, State, Zip: Owner:	Lake City , FL , 32055 Peri	der Name: nit Office: nit Number:
Design Location:	FL, Gainesville	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelop. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeableinsulation shall not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with t insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces 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 Knee walls shall be sealed.	Cavities within 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 envelopeinsulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space betweenwindow/doorjambs and framing, and skylights and framing shall be sealed.	*
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above-garage and cantileveredfloors)	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.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior unconditioned space shall be sealed.	or .
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 envelopes be sealed to the drywall.	hall Recessed light fixtures installed in the building thermal envelopeshall be air tight and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exteriorwalls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phonebox on exteriorwalls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	n .
HVAC register boots	HVAC register boots that penetrate building thermal envelopesha sealed to the sub-floor or drywall.	ll be
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be in a manner that is recommended by the manufacturer. Caulking adhesive sealants shall not be used to fill yolds between fire spring	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 2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:	Permit #	# :
Job Information		
Builder:	Community:	Lot: NA
Address:		
City: Lake City	State: FL	Zip: 32055
Air Leakage Test Results Passin	ng results must meet either the Pen	formance, Prescriptive, or ERI Method
PRESCRIPTIVE METHOD-The building or do changes per hour at a pressure of 0.2 inch w.	welling unit shall be tested and verified as g. (50 Pascals) in Climate Zones 1 and 2	s having an air leakage rate of not exceeding 7 air
the selected ACH(50) value, as shown on Form R40	ding or dwelling unit shall be tested and ve 5-2017 (Performance) or R406-2017 (ER R405-2017-Energy Calc (Performance) o	erified as having an air leakage rate of not exceeding RI), section labeled as infiltration, sub-section ACH50. or R406-2017 (ERI): 5.000
CFM(50) x 60 ÷ 22040 Building Volum		Method for calculating building volume: Retrieved from architectural plans Code software calculated
When ACH(50) is less than 3, Med must be verified by building depart	chanical Ventilation installation tment.	Field measured and calculated
R402.4.1.2 Testing. Testing shall be conducted in act Testing shall be conducted by either individuals as de 489.105(3)(f), (g), or (i) or an approved third party. A provided to the code official. Testing shall be performed	efined in Section 553.993(5) or (7), Florida written report of the results of the test sha	and reported at a pressure of 0.2 inch w.g. (50 Pascals). la Statues.or individuals licensed as set forth in Section all be signed by the party conducting the test and tions of the building thermal envelope.
During testing: 1. Exterior windows and doors, fireplace and stove do controlmeasures. 2. Dampers including exhaust, intake, makeup air, ba measures. 3. Interior doors, if installed at the time of the test, sha 4. Exterior doors for continuous ventilation systems ar 5. Heating and cooling systems, if installed at the time	ck draft and flue dampers shall be closed, all be open. nd heat recovery ventilators shall be close e of the test, shall be turned off.	, but not sealed beyond intended infiltration control
6. Supply and return registers, if installed at the time of Testing Company	of the test, shall be fully open.	
Company Name:	Ph	hone:
I hereby verify that the above Air Leakage re Energy Conservation requirements according	esults are in accordance with the 20	017 6th Edition Florida Building Code
Signature of Tester:	Da	ate of Test:
Printed Name of Tester:		
License/Certification#:	Issuing Au	ıthority: