

Residential System Sizing Calculation

Summary Project Title:

Project Title: Jewett Residence

Lake City, FL 32055

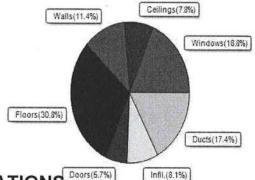
6/9/2020

Location for weather data: Gaine	sville, FL -	Defaults:	Latitude(29.7) Altitude(152 ft.) Ter	mp Range(N	1)
Humidity data: Interior RH (50%					63
Winter design temperature(TMY3	399%) 30	F	Summer design temperature(TMY	3 99%) 94	F
Winter setpoint	70	F	Summer setpoint	75	F
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)

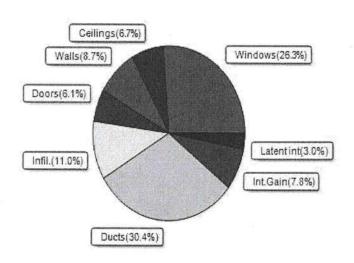
Load component			Load	
Window total	330	sqft	7260	Btuh
Wall total	1422	sqft	4395	Btuh
Door total	120	sqft	2208	Btuh
Ceiling total	2320	sqft	3003	Btuh
Floor total	2320	sqft	11894	Btuh
Infiltration	71	cfm	3130	Btuh
Duct loss			6696	Btuh
Subtotal			38588	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			38588	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	8		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)		1	1611	Btuh
Latent gain(infiltration)			1851	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occ	upants/othe	er)	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

	marradi	iory recognition	memes for recon	acritiar i criorinari	ce, i rescriptive and L	-IXI Wethous
Al	DDRESS:	Lake City , FL , 320	55	Permit Num	ber:	
MAI	NDATORY I	REQUIREME	NTS See individu	ual code sections for	full details.	
\checkmark			SECT	ION R401 GENER	AL	
	be completed ar Florida Statutes The EPL display official shall veri	nd certified by the bui) requires the EPL dis y card contains inform fy that the EPL displa	ilder to be accurate and o splay card to be included nation indicating the ene ay card completed and si	correct before final approvalor d as an addendum to each sal rgy performance level and effi	I shall require that an energy perform f the building for occupancy. Florida les contract for both presold and non ciencies of components installed in a yreflects the plans and specification kRD.	law (Section 553.9085, presold residential buildings. a dwelling unit. The building
		age (Mandatory). rough R402.4.5.	Thebuilding thermal	envelopeshall be constructed	d to limit air leakage in accordance w	vith the requirements of Section
	E	xception: Dwelling ith Section C402.5.	units of R-2 Occupancie	es and multiple attached single	e family dwellings shall be permitted	i to comply
	R402.4.1 sealing me	Building thermal er ethods between dissi	nvelojitebuilding therma imilar materials shall allo	l envelopeshall comply with S w for differential expansion an	Sections R402.4.1.1 and R402.4.1.2 and contraction.	The
	manufactu	urer's instructions and	d the criteria listed in Tat	g thermal envelopeas listed in ble R402.4.1.1, as applicable nents and verify compliance.	n Table R402.4.1.1 shall be installed to the method of construction. Wher	I in accordance with the re required by the code
	hour in Cli ANSI/RES Section 55 written rep	mate Zones 1 and 2, SNET/ICC 380 and re 53.993(5) or (7), Flori port of the results of the	, and three air changes p eported at a pressure of ida Statutes, or individua	er hour in Climate Zones 3 th 0.2 inch w.g. (50 pascals). Te ils licensed as set forth in Sec y the party conducting the tes	aving an air leakagerate not exceeding an air leakagerate not exceeding shall be conducted esting shall be conducted by either into the stion 489.105(3)(f), (g) or (i) or an apost and provided to the code official. To	in accordance with ndividuals as defined in provedthird party. A
	Exception which the	n: Testing is not new construction is l	required for additions, a ess than 85 percent of th	Iterations, renovations, or reparted building thermal envelope.	airs, of the building thermal envelope	eof existing buildings in
	infiltration 2. Damper infiltration 3. Interior 4. Exterior 5. Heating	windows and doors, control measures. rs including exhaust, control measures. doors, if installed at to doors for continuous and cooling systems	intake, makeup air, back he time of the test, shall s ventilationsystems and s, if installed at the time o	draft and flue dampers shall b	led, beyond the intended weatherstr be closed, but not sealed beyond into Il be closed and sealed.	
	tight-fitting doors	on factory-built firep	laces listed and labeled i	ve tight-fitting flue dampers or in accordance with UL 127, th ors shall be listed and labeled i	r doors, and outdoor combustion air. he doors shall be tested and listed fo in accordance with UL 907.	. Where using r the fireplace.
	square foot (1.5 l	L/s/m2), and swingin	g doors no more than 0.5	iding glass doors shall have a 5 cfm per square foot (2,6 L/s boratoryand listed and labele	on air infiltration rate of no more than (m2), when tested according to NFR dby the manufacturer.	0.3 cfm per RC 400 or AAMA/
	Exception	: Site-builtwind	dows, skylights and door	s		

MANI	DATORY REQUIREMENTS - (Continued)
isolated the wall lines ar	4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open stion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelopeor enclosed in a room, of from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the enveloperequirements of Table R402.1.2, where ls, 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 and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space nimum 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.
cfm (0.9	.5 Recessed lighting. Recessedluminaires installed in the building thermal envelopeshall be sealed to limit air leakage between oned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed lasket or caulk between the housing and the interior wall or ceiling covering.
R403.1	Controls. SECTION R403 SYSTEMS
R40	3.1.1 Thermostat provision (Mandatory). Alleast one thermostat shall be provided for each separate heating and cooling system.
	3.1.3 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.
R40:	3.3.2 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:
	1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacture handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
	 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 leakagetest shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
	Duct testing is not mandatoryfor buildings complying by Section 405 of this code.
(Tanana)	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 I below 55	Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or of \$\footnote{0.00}\$ (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). Heated ater 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 automaticallyturn 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 availableheat 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-heatingsystems 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).
_	D400 FC 4 0.01- 4 4
Ш	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating-equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. 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. Whennstalled 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. Residentiabuildings designed to be operated at a positive indoor pressure or for mechanical ventilationshall 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.
	3. 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 Heating and cooling equipment (Mandatory).
	R403.7.1 Equipment sizing. Heatingand 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 ventilations uch 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 MAXIMUM (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	NDATORY REQUIREMENTS - (Continued)	
	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. 2. 	
	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.	
	R403.7.1.2 Heating equipment capacity.	
	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. Thecapacity 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:	
	 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas. 	
	 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).	
	R403.10 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 number are necessary and waste-heat-recoverypool heating systems.	
П	 Where pumps are powered exclusively from on-site renewable generation. R403.10.3 Covers. Outdoorheated 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 for heating.	
	such as from a heat pump or solar energy source, covers or other vapor-retardantmeans shall not be required.	33,
	R403.10.4 Gas- and oil-fired pool and spa heaters. Albas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.	

	R403.10.5 Heat pump pool heaters. 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. Geothermals wimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory)heenergy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
E	LECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Notess than 75 percent of the lamps in permanentlyinstalled lighting fixtures shall be high-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). Fuegas 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

		IN COMPONENT CRITERIA
Project Name: Street: City, State, Zip:	Perm	er Name: it Office: it Number:
Owner:		it Number:
Design Location:	FL, Gainesville	3
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General	A continuous air barrier shall be installed in the building envelope	
requirements	The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with th 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 exteriorwalls shall be s 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 between window/door jambs 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 exterio 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	paces.
Recessed lighting	Recessed light fixtures installed in the building thermal envelopes be sealed to the drywall.	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 exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exteriorwall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exteriorwalls adjacent to showers and tubs shall be insulated.
Electrical/phonebox 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 register boots that penetrate building thermal envelopeshal sealed to the sub-floor or drywall.	be
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be in a manner that is recommended by the manufacturer. Caulking o adhesive sealants shall not be used to fill voids between fire sprink	other

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 #:		t #:
Job Information		
Builder:	Community:	Lot: NA
Address:		
City: Lake City	State: FL	Zip: 32055
Air Leakage Test Resu	ults Passing results must meet either the Pe	erformance, Prescriptive, or ERI Method
PRESCRIPTIVE METHOD- changes per hour at a press	The building or dwelling unit shall be tested and verified ure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and	as having an air leakage rate of not exceeding 7 air l 2.
the selected ACH(50) value, as sho	ETHOD-The building or dwelling unit shall be tested and own on Form R405-2017 (Performance) or R406-2017 (Performance) pecified on Form R405-2017-Energy Calc (Performance	ERI), section labeled as infiltration, sub-section ACH50.
When ACH(50) is leading to the must be verified by R402.4.1.2 Testing. Testing shall be testing shall be conducted by either 489.105(3)(f), (g), or (i) or an approximate provided to the code official. Testing During testing: 1. Exterior windows and doors, firepic control measures. 2. Dampers including exhaust, intak measures. 3. Interior doors, if installed at the tin 4. Exterior doors for continuous vent 5. Heating and cooling systems, if in	ess than 3, Mechanical Ventilation installation building department. The conducted in accordance with ANSI/RESNET/ICC 38 or individuals as defined in Section 553.993(5) or (7), Floral ved third party. A written report of the results of the test so shall be performed at any time after creation of all penetral lace and stove doors shall be closed, but not sealed, beyone, makeup air, back draft and flue dampers shall be closed.	rations of the building thermal envelope. ond the intended weatherstripping or other infiltration ed, but not sealed beyond intended infiltration control
Testing Company		
Company Name:		Phone:
Energy Conservation requiren	Air Leakage results are in accordance with the 2 ments according to the compliance method selections.	2017 6th Edition Florida Building Code cted above.
Signature of Tester:		Date of Test:
Printed Name of Tester:		