RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2014 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include

- □ This checklist
- A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (1 page) and an input summary checklist that can be used for field verification (usually 4 pages/may be greater).
- Energy Performance Level (EPL) Display Card (one page)
- □ Mandatory Requirements(three pages)

Required prior to CO for the Performance Method:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page)
- A completed Envelope Leakage Test Report(usually one page)
- □ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:Sample AdditionStreet:123 Main StreetCity, State, Zip:Orlando , FL , 32922Owner:OWNERDesign Location:FL, Orlando		Builder Name: BUILDER Permit Office: Orlando Permit Number: 1234 Jurisdiction: Orange County	
 New construction or existing Single family or multiple family Number of units, if multiple family Number of Bedrooms(Bedrms In Addition) Is this a worst case? Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) Windows(60.0 sqft.) Description U-Factor: Dbl, U=0.40 SHGC: SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A SHGC: U-Factor: N/A 	Addition Single-family 1 3(3) No 500 0 Area 60.00 ft ² ft ² ft ² ft ² ft ² ft ² ft ²	 9. Wall Types (360.0 sqft.) a. Concrete Block - Int Insul, Exterior b. N/A c. N/A 10. Ceiling Types (500.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 	Insulation Area R=6.0 360.00 ft ² R= ft ² R= ft ² R= ft ² Insulation Area R=30.0 500.00 ft ² R= ft ² R= ft ² 8 100 kBtu/hr Efficiency 6.8 SEER:14.00 kBtu/hr Efficiency 5.8 HSPF:8.20
		 14. Hot water systems - Replacement equal a. Electric b. Conservation features None 15. Credits 	ipment Cap: 40 gallons EF: 0.970 None
Glass/Floor Area: 0.120	Total Proposed Modified Total Baseline		PASS
I hereby certify that the plans and specific this calculation are in compliance with the Code. PREPARED BY:	Plorida Energy	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and an envelope leakage test report in accordance with R402.4.1.2.

- Compliance requires a roof absorptance test in accordance with R405.7.2

- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with Section 803 of RESNET Standards, is not greater than 0.030 Qn for whole house.

				PROJE	СТ							
Title: Building Type Owner: # of Units: Builder Name Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	OWNER 1 : BUILDER Orlando Orange County Single-family		Bedrooms: Conditione Total Storie Worst Cas Rotate Ang Cross Ven Whole Hou	ed Area: es: e: gle: tilation:	3 500 1 No 0			Address T Lot # Block/Sub PlatBook: Street: County: City, State	Division:	Street Ad 123 Mair Orange Orlando FL , S	n Street	
				CLIMA	TE							
V De	esign Location	TMY Site	IEC Zor		esign Te .5 % 2	mp 2.5 %	Int Desig Winter		Heating Degree Da		sign Da sture F	ily Tem Range
I	FL, Orlando	FL_ORLANDO_INT	L_AR 2	2 4	41	91	70	75	526	2	I4 I	Mediur
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	500	4000									
				SPAC	ES							
Number	Name	Area	Volume ł	Kitchen	Occupa	ints	Bedrooms	Infil IC) Finisł	ned (Cooled	Hea
1	Main	500	4000	Yes	4		3	1	Yes	`	Yes	Yes
				FLOO	RS							
/ #	Floor Type	Space	Perir	meter	R-Value)	Area			Tile	Wood (Carpet
1 S	lab-On-Grade Edge I	nsulatio Mai	n 45	ft	0		500 ft ²			1	0	0
				ROO	F							
V #	Туре	Materials	Roof Area	Gable Area		Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pito (de
1		Composition shingle	es 542 ft ²	0 ft ²		ight	0.75	Yes	0.9	No	0	22
				ATTI								
V #	Туре	Ventilat	ion	Vent Rati	io (1 in)		Area	RBS	IRCC			
1	Full attic	Vente		300			500 ft ²	N	N			
				CEILI	NG							
/ #	Ceiling Type		Space	R-Value	e	A	rea	Framing	Frac	Tr	uss Type)
1	Under Attic (Ven	ited)	Main	30		50	DO ft ²	0.11			Wood	

						W	ALLS							
√ <u>#</u> 1	Ornt SE	Adjace To Exterior	Wall	Type hcrete Block - Ii	Spao nt Insul Mai	IN- value	Widt Ft 20		Height =tIn 3	Area 160.0 ft²	R-Value	g Framing Fraction 0	Solar Absor. 0.6	Belov Grade
2	SW	Exterior	Cor	ncrete Block - Ir	nt Insul Mai	n 6	25	8	3	200.0 ft ²		0	0.6	C
						DC	ORS							
\checkmark	#	Ornt		Door Type	Space			Storms	U-Va	lue F	Width t In	Height Ft	: In	Area
	1	SE		Wood	Main			None	.2	2.	.8	6.7	1	8.8 ft ²
					Orientations	WIN hown is the e	DOWS	ronosed	orientatio	'n				
		Wall						loposed		Ove	rhang			
V		Ornt ID	Frame	Panes	NFRC	U-Factor			Area		Separation			Screeni
		SE 1	Metal	Low-E Double		0.4	0.25		30.0 ft ²		1 ft 0 in	HERS 2		None
	2 8	SW 2	Metal	Low-E Double	e Yes	0.4	0.25		30.0 ft ²	^e 1 ft 0 in	1 ft 0 in	HERS 2	006	None
						INFILT	RATIO	N						
S	Scope	N	/lethod		SLA	CFM 50	ELA	E	qLA	ACH	AC	H 50		
Who	lehouse	Prop	osed AC	CH(50)	.000254	333.3	18.3	34	1.42	.1855		5		
						HEATIN	G SYST	ЕМ						
\checkmark	#	System T	уре		Subtype			Efficiency	/	Capacity		E	Block	Ducts
	1	Electric H	leat Pur	mp	None		ł	HSPF:8.2	2 5	.84 kBtu/hr			1	sys#1
						COOLIN	G SYSI	ЕМ						
\checkmark	#	System T	уре		Subtype		E	fficiency	Capa	city A	ir Flow	SHR E	Block	Ducts
	1	Central U	Init		None		S	EER: 14	6.78 kE	Btu/hr 2 ⁻	10 cfm	0.75	1	sys#1
						HOT WAT	ER SYS	STEM						
\checkmark	#	System	туре	SubType	Location	EF	Cap)	Use	SetPr	nt	Conse	rvation	
	1	Electric	;	None	Main	0.97	40 ga	al	60 gal	120 de	ġ	No	ne	
					SOL	AR HOT V	VATER	SYSTE	EM					
\checkmark	FSE0 Cert		pany Na	ame		System Mo	del #	Co	ollector M	odel #	Collector Area	Storage Volume		EF
	None	e None									ft²			

							DUCTS								
\checkmark	#		upply R-Value	Area	Locati	Return on Area	Leak	age Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV Heat	AC # Cool
	1	Attic	8	100 ft ²	Attic	25 ft²	Prop	osed Qn	Main	cfm	15.0 cfm	0.03	0.60	1	1
						TEN	IPERATU	JRES							
Programa	able Therr	mostat: Nor	ie			Ceiling Far	IS:								
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[X] Fe	b [X]I	Mar Mar Mar	[] Apr [] Apr [X] Apr	[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Ser [Oct Oct Oct	[_] Nov [X] Nov [X] Nov	[×]	Dec Dec Dec
Thermostat	Schedule	e: HERS 2	2006 Refe	rence				Но	ours						
Schedule T	уре		1	:	2 3	3 4	5	6	7	8	9	10	11		12
Cooling (W	D)	AM PM	78 78	7 7	787 787	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	-	78 78
Cooling (W	EH)	AM PM	78 78	7 7	787 787	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	-	78 78
Heating (W	'D)	AM PM	68 68	6	8 6 8 6	8 68 8 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68		68 68
Heating (W	ΈH)	AM PM	68 68	6	6 8 6	8 68 8 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	(68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 100 The lower the EnergyPerformance Index, the more efficient the home.

123 Main Street, Orlando, FL, 32922

1.	New construction or exis	sting	Additio	n
2.	Single family or multiple	family	Single-	family
3.	Number of units, if multip	ole family	1	
4.	Number of Bedrooms		3(3)	
5.	Is this a worst case?		No	
6.	Conditioned floor area (f	t²)	500	
7.	Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average Area Weighted Average	0 1	ŗ	Area 60.00 ft ² ft ² ft ² ft ² 1.000 ft. 0.250
8.	Floor Types a. Slab-On-Grade Edge b. N/A c. N/A	Insulation	Insulation R=0.0 R= R=	Area 500.00 ft² ft² ft²

9. Wall Types a. Concrete Block - Int Insul, Exterior b. N/A c. N/A d. N/A	Insulation Area R=6.0 360.00 ft² R= ft² R= ft² R= ft² R= ft² R= ft²
 Ceiling Types Under Attic (Vented) N/A N/A 11. Ducts Sup: Attic, Ret: Attic, AH: Main 	$\begin{array}{rrrr} \text{Insulation} & \text{Area} \\ \text{R=30.0} & 500.00 \ \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ \text{R=} & \text{ft}^2 \\ & \text{R} & \text{ft}^2 \\ & \text{R} & \text{ft}^2 \\ & \text{R} & \text{ft}^2 \end{array}$
12. Cooling systems a. Central Unit	kBtu/hr Efficiency 6.8 SEER:14.00
13. Heating systems a. Electric Heat Pump	kBtu/hr Efficiency 5.8 HSPF:8.20
14. Hot water systems - Replacement equal to the concernition factures	Lipment Cap: 40 gallons EF: 0.97
 b. Conservation features None 15. Credits 	None

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

Builder Signature:	Date:	
Address of New Home:	City/FL Zip:	þ

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Department of Business and Professional Regulations Residential Whole Building Performance and Prescriptive Methods

ADDRESS:

123 Main Street Orlando, FL, 32922 Permit Number: 1234

MANDATORY REQUIREMENTS See individual code sections for full details.

- 401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law [Section 553.9085, Florida Statues] requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix C.
- **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.1 through R402.4.4.
 - R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
 - R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
 - R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, and 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;

2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;

- 3. Interior doors, if installed at the time of the test, shall be open;
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air.
- 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.

- R402.4.4 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 E 283 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.
- **R403.1.1 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.
- R403.2.2 Sealing (Mandatory) All ducts, air handlers, and 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 C403.2.7.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria by post-construction or rough-in testing below.

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by either an energy rater certified in accordance with Section 553.99, Florida Statutes, or as authorized by Florida Statutes, to be "substantially leak free" by either of the following:

- 1. Post-construction test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
- 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m2) of conditioned floor area.

Exceptions:

- 1. The total leakage test is not required for ducts and air handlers located entirely within the building envelope.
- 2. Duct testing is not mandatory for buildings complying by Section R405 of this code.

MANDATORY REQUIREMENTS - (Continued)

- **R403.2.2.1 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.
- R403.2.3 Building Cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.
- R403.3 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.,
 - R403.3.1 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.
- **R403.4.1 Circulating hot water systems (Mandatory).** Circulating hot water systems shall be provided with an automatic or readily accessible manual switch that can turn off the hot-water circulating pump when the system is not in use.
- R403.4.3 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 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- □ R403.4.4 Water heater efficiencies (Mandatory). Water heater efficiencies
 - O R403.4.4.1 Storage water heater temperature controls
 - R403.4.4.1.1 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).
 - R403.4.4.1.2 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.
 - R403.4.2 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 Section R403.4.4.2.1.
 - R403.4.4.2.1 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:
 - 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 - 2. Be installed at an orientation within 45 degrees of true south.
- R403.5 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. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
 - R403.5.1 Whole-house mechanical ventilation system fan efficacy. Mechanical ventilation system fans shall meet the efficacy requirements of Table R403.5.1.

Exception: Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.

- R403.5.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
 - 1. The design air change per hour minimums for residential buildings in ASHRAE 62, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 - 2. No ventilation or air-conditioned system make air shall be provided to conditioned space from attics, crawlspaces, attached closed garages or outdoor spaces adjacent to swimming pools or spas.
 - 3. If ventilation air is drawn from enclosed spaces(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum or R-19, space permitting, or R-10 otherwise.

R403.6 Heating and cooling equipment (Mandatory). The following sections are mandatory for cooling and heating equipment.

- R403.6.1 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 which affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems.
 - **R403.6.1.1 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 403.6, 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.

R403.6.1.1 Cooling equipment capacity. (continued) The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacture's expanded performance data shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection 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 temperature shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

- 1. Attached single- and multi-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- 2. When signed and sealed by a Florida-registered engineer, in attached single- and multi-family units, the capacity of equipment may be sized in accordance with good design practice.
- R403.6.1.2 Heating equipment capacity
 - R403.6.1.2.1 Heat pumps. Heat pumps sizing shall be based on the cooling requirements as calculated according to Section R403.6.1.1 and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load.
 - R403.6.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.6.1.
 - R403.6.1.2.3 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 R403.6.1.
- R403.6.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
 - 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 - 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.7 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Commercial Provisions in lieu of Section R403.
- R403.8 Snow melt system controls (Mandatory). Snow and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 55°F, and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F.
- R403.9 Swimming pools, inground spas and portable spas (Mandatory). The energy requirements for residential pools and inground spas shall be as specified in Sections R403.9.1 through R403.9.3 and in accordance with ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14.
 - R403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily accessible on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.
 - R403.9.1.1 Gas and oil-fired pool and spa heaters. All gas- and oil-fired pool and space 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 gas or LP gas shall not have continuously burning pilot lights.
 - **R403.9.1.2 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.
 - R403.9.2 Time switches. Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this equipment.

Exceptions:

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- 1. Where public health standards require 24-hour pump operations.
- 2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
- 3. Where pumps are powered exclusively from on-site renewable generation.
- R403.9.3 Covers. Heated swimming pools and inground permanently installed 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:** Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.

RR404.1 Lighting equipment (Mandatory). A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or a minimum of 75 percent of permanently installed lighting fixtures shall contain only high efficacy lamps.

- **Exception:** Low-voltage lighting shall not be required to utilize high-efficacy lamps.
- R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights
- R405.2 Performance ONLY. All ducts not entirely inside the building thermal envelope shall be insulated to a minimum of R-6.
 - R405.2.1 Performance ONLY. Ceilings shall have minimum insulation of R-19. Where single assembly of the exposed deck and beam type or concrete deck roofs do not have sufficient space, R-10 is allowed.

TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	Sample Addition
Street:	123 Main Street
City, State, Zip:	Orlando , FL , 32922
Owner:	OWNER
Design Location:	FL, Orlando

Builder Name:BUILDERPermit Office:OrlandoPermit Number:1234Jurisdiction:Orange County

COMPONENT	CRITERIA	CHECK
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. 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 attic spaces shall be sealed.	
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top or exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.	
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.	
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation.	
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	
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 air tight, IC rated, and sealed to the drywall.	
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	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.	
Electrical/phone box on	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 envelope shall be sealed to the sub-floor or drywall.	
Fireplace	An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Envelope Leakage Test Report Prescriptive and Performance Method

Project Name: Street:		Builder Name: Permit Office:	-
City, State, Zip:	Orlando , FL , 32922	Permit Number:	1234
Design Location:	FL, Orlando	Jurisdiction:	Orange County

Envelope Leakage Test Results

Regression Data:

C: _____ n: ____ R:___ Single or Multi Deint Test Dete

Single or Multi Point Test Data						
	HOUSE PRESSURE	FLOW:				
1	Pa	cfm				
2	Ра	cfm				
3	Ра	cfm				
4	Ра	cfm				
5	Ра	cfm				
6	Ра	cfm				

Leakage Characteristics

CFM(50):	
ELA:	
EqLA:	
ACH:	
ACH(50):	
SLA:	

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures:
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures:
- 3. Interior doors, if installed at the time of the test, shall be open;
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.

DATE:

Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the third party conducting the test and provided to the code official.



BUILDING OFFICIAL:

DATE:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Form R405 Duct Leakage Test Report

Performance Method

Project Name:	Sample Addition	Builder Name:	BUILDER
Street:	123 Main Street	Permit Office:	Orlando
City, State, Zip:	Orlando , FL , 32922	Permit Number:	1234
Design Location:	FL, Orlando	Jurisdiction:	Orange County
		Duct Test Time:	Post Construction

Duct Leakage Test Results

CFM2	5 Duct Leakage	Test Values
Line	System	Outside Duct Leakage
1	System 1	cfm25(Out)
2	System 2	cfm25(Out)
3	System 3	cfm25(Out)
4	System 4	cfm25(Out)
5	Total House Duct System Leakage	Sum lines 1-4 Divide by (Total Conditioned Floor Area) =(Q _n ,Out)

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section R403.2.2.

SIGNATURE:

PRINTED	NAME:
---------	-------

DATE:

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by an energy rater certified in accordance with Section 553.99, Florida Statutes.



BUILDING OFFICIAL:

DATE:

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2014 Florida Building Code, Energy Conservation via the residential Simulated Performance method shall include

- □ This checklist
- A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (1 page) and an input summary checklist that can be used for field verification (usually 4 pages/may be greater).
- Energy Performance Level (EPL) Display Card (one page)
- □ Mandatory Requirements(three pages)

Required prior to CO for the Performance Method:

- Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 one page)
- A completed Envelope Leakage Test Report(usually one page)
- □ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:Single Family HomeStreet:456 Main StreetCity, State, Zip:Orlando , FL , 32922Owner:OwnerDesign Location:FL, Orlando		Builder Name: Builder Permit Office: Orlando Downtown Permit Number: 456789 Jurisdiction: Orange County	
a. Slab-On-Grade Edge Insulation R=	New (From Plans) Single-family 1 6 No 2400 0 Area 374.00 ft ² 24.00 ft ² ft ³ ft ³ ft ³ ft ³ ft ³ ft ³ ft ⁴ ft ⁴ f	 9. Wall Types (2320.0 sqft.) a. Frame - Wood, Exterior b. Concrete Block - Int Insul, Exterior c. Frame - Wood, Adjacent d. N/A 10. Ceiling Types (1200.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Main, Ret: Main, AH: Main b. Sup: Attic, Ret: Attic, AH: 2nd Floor 12. Cooling systems a. Central Unit b. Central Unit b. Central Unit 13. Heating systems a. Electric Heat Pump b. Natural Gas Furnace 14. Hot water systems a. Electric b. Conservation features None 15. Credits 	Insulation Area R=13.0 1200.00 ft ² R=6.0 944.00 ft ² R=13.0 176.00 ft ² R= ft ² Insulation Area R=30.0 1200.00 ft ² R= ft ² R= ft ² R ft ² 6 240 6 240 kBtu/hr Efficiency 20.0 SEER:14.00 18.0 SEER:14.00 kBtu/hr Efficiency 20.0 HSPF:8.20 18.0 AFUE:0.78 Cap: 50 gallons EF: 0.930
Glass/Floor Area: 0.166	Total Proposed Modified Total Baseline I		PASS
I hereby certify that the plans and specification are in compliance with the PCode. PREPARED BY:	Florida Energy	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.	CHEAT OF THE STATE

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and an envelope leakage test report in accordance with R402.4.1.2.

- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2

- Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with Section 803 of RESNET Standards, is not greater than 0.030 Qn for whole house.

				PRO	JECT							
Title: Building T Owner: # of Units: Builder Na Permit Off Jurisdictio Family Ty New/Exist Comment	Owner 1 ame: Builder ice: Orlando Dowr n: Orange Count pe: Single-family ing: New (From Pla	itown y ans)	Total Sto Worst Ca Rotate A Cross Ve	ned Area: pries: ase:	6 2400 2 No 0			Address Ty Lot # Block/Subl PlatBook: Street: County: City, State	Division:	Street Ad 456 Mair Orange Orlando FL ,	n Street	
				CLIN	IATE							
\checkmark	Design Location	TMY Site			Design 1 97.5 %	「emp 2.5 %	Int Desig Winter		Heating Degree Da	g De ays Moi	-	aily Tem Range
	FL, Orlando	FL_ORLANDO_IN	TL_AR	2	41	91	70	75	526	2	14	Mediur
				BLO	скѕ							
Number	Name	Area	Volum	e								
1	Zone 1	1200	9600)								
2	Zone 2	1200	9600)								
				SPA	CES							
Number	Name	Area	Volume	Kitchen	Occu	pants	Bedrooms	Infil ID	Finish	ned	Cooled	Hea
1	Main	1200	9600	Yes		3.5	3	1	Yes	,	Yes	Yes
2	2nd Floor	1200	9600	No		3.5	3	1	Yes		Yes	Yes
				FLO	ORS							
	# Floor Type	Space	Pe	rimeter Pe	erimeter I	R-Value	Area	Joist R-V	alue	Tile		
V	1 Clob On Crada Eda	e Insulatio Ma	ain 14	40 ft	0		1200 ft ²			0.2	0	0.8
	1 Slab-On-Grade Edge									0	0	1
	2 Floor Over Other Sp		Floor -				1200 ft ²	0				
	-		Floor -	 RO			1200 ft ²	0				
✓	-		Floor - Roc Area	RO f Ga	OF ble	Roof Color	1200 ft² Solar Absor.	0 SA Tested	Emitt	Emitt Tested	Decl Insul	
✓	2 Floor Over Other Sp	ace 2nd	Roc Area	RO f Ga a Ar	OF ble ea		Solar	SA	Emitt 0.9			. (de
✓	2 Floor Over Other Sp # Type	ace 2nd Materials	Roc Area	RO f Ga a Ar	OF ble ea	Color	Solar Absor.	SA Tested		Tested	Insul	. (de
✓	2 Floor Over Other Sp # Type	ace 2nd Materials	Roc Are: les 1300	RO f Ga a Ar ft ² 0 f AT	OF ble ea	Color White	Solar Absor.	SA Tested		Tested	Insul	

						CEI	LING							
\checkmark	#	Ceilin	д Туре		Space	R-V	alue	/	Area	Fran	ning Frac	Т	russ Typ	е
	1	Under	Attic (Ve	ented)	Main	30	1	1	200 ft ²		0.11		Wood	
						WA	LLS							
V #	Ornt	Adjao To		Туре	Space	Cavity R-Value	Wid Ft	th In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
1	N	Exterio		ncrete Block - Int Insul	Main	6	40		8	320.0 ft ²		0	0.5	(
_ 2	Е	Exterio	r Coi	ncrete Block - Int Insul	Main	6	30		8	240.0 ft ²		0	0.5	
3	S	Exterio	r Coi	ncrete Block - Int Insul	Main	6	40		8	320.0 ft ²		0	0.5	
4	W	Exterio	r Coi	ncrete Block - Int Insul	Main	6	8		8	64.0 ft ²		0	0.5	
_ 5	Ν	Garage	e Fra	me - Wood	Main	13	22		8	176.0 ft ²		0	0.01	
6	Ν	Exterio	r Fra	me - Wood	2nd Floor	13	40		8	320.0 ft ²		0.23	0.5	
_ 7	Е	Exterio	r Fra	me - Wood	2nd Floor	13	30		8	240.0 ft ²		0	0.5	
8	S	Exterio	r Fra	me - Wood	2nd Floor	13	40		8	320.0 ft ²		0	0.5	
9	W	Exterio	or Fra	me - Wood	2nd Floor	13	40		8	320.0 ft ²		0	0.5	
						DO	ORS							
\checkmark	#	Orr	nt	Door Type	Space			Storms	U-Valu	ue Ft	Width In	Heigh Ft	t In	Area
	1	N		Wood	Main			None	.2	3		6	8	20 ft ²
	2	S		Wood	Main			None	.2	3		6	8	20 ft ²
				Orient	ation show		DOWS		l orientatior).				
$\langle $		Wal								Over	hang			
V		Ornt ID	Frame		NFRC	U-Factor			Area	•	Separation	Int Sha		Screen
	1	N 1	Vinyl	Low-E Double	Yes	0.35	0.25		48.0 ft ²		10 ft 4 in	Drapes/b		None
	2	N 1	None	Glazed Block	Yes	0.35	0.25		24.0 ft ²	2 ft 0 in	0 ft 0 in	Drapes/b		None
	3	E 2	Vinyl	Low-E Double	Yes	0.35	0.25		24.0 ft ²		10 ft 4 in	Drapes/b		None
	4	E 2	Vinyl	Low-E Double	Yes	0.35	0.25		24.0 ft ²		10 ft 4 in	Drapes/b		None
	5	S 3	Vinyl	Low-E Double	Yes	0.35	0.25		18.0 ft ²		10 ft 40 in	Drapes/b		None
	6	S 3	Vinyl	Low-E Double	Yes	0.35	0.25		40.0 ft ²		10 ft 4 in	Drapes/b		None
	7	N 1	Vinyl	Low-E Double	Yes	0.35	0.25		16.0 ft ²		10 ft 4 in	Drapes/b		None
	8	N 1	Vinyl	Low-E Double	Yes	0.35	0.25		36.0 ft ²	2 ft 0 in	1 ft 4 in	Drapes/b		None
	9	N 6	Vinyl	Low-E Double	Yes	0.35	0.25		48.0 ft ²		1 ft 4 in	Drapes/b		None
	10	E 7	Vinyl	Low-E Double	Yes	0.35	0.25		48.0 ft ²		1 ft 4 in	Drapes/b		None
	11	S 8	Vinyl	Low-E Double	Yes	0.35	0.25		48.0 ft ²		1 ft 4 in	Drapes/b		None None
	12	W 9	Vinyl	Low-E Double	Yes	0.35	0.25		24.0 ft ²		1 ft 4 in	Drapes/b	Parala	

					GA	ARAGE								
\checkmark	#	Floor Area		Ceiling Area	Exposed	d Wall Perimete	r	Avg. Wall I	Height	Expose	d Wall I	nsulatio	n	
	1	385 ft ²		384 ft ²		64 ft		8 ft			1			
					INFIL	TRATION								
# Sco	ре	Method		SLA	CFM 50	ELA	EqL	A A	ACH	ACH	50			
1 Wholeh	nouse	Proposed AC	CH(50)	.000254	1600	87.84	165.1	19 .:	2284	5	1			
					HEATIN	NG SYSTEM								
\checkmark	#	System Type		Subtype		Efficie	ency	Cap	bacity			Block	D	ucts
	1	Electric Heat Pur	mp	None		HSPF	-:8.2	20 kl	Btu/hr			1	sy	ys#1
	2	Natural Gas Furr	nace	None		AFUE	:0.78	18 kl	Btu/hr			2	Sy	ys#2
					COOLI	NG SYSTEM								
\checkmark	#	System Type		Subtype		Efficie	ncy	Capacity	Air I	Flow SI	HR	Block	D	ucts
	1	Central Unit		None		SEER	: 14	20 kBtu/hr	600	cfm 0.	.75	1	sy	ys#1
	2	Central Unit		None		SEER	: 14	18 kBtu/hr	540	cfm 0.	.75	2	sy	ys#2
					HOT WA	TER SYSTE	М							
\checkmark	#	System Type	SubType	Location	EF	Сар		Use	SetPnt		Cons	servatior	n	
	1	Electric	None	Garage	0.93	50 gal	90) gal	120 deg		١	None		
				SOL	AR HOT	WATER SYS	STEN	Λ						
Ŷ	FSEC									ollector	Storag	-		
	Cert #	. ,	ame		System M	odel #	Colle	ector Model	#	Area	Volum	ie	FEF	
	None	None								ft²				
					D	UCTS								
\checkmark	#	Supp Location R-	oly Value Area		turn Area	Leakage Typ	be	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV Heat	# AC/ Co
	1	Main	6 240 f	t² Main	60 ft ²	Proposed Q	n	Main	cfm	36.0 cfm	0.03	0.60	1	1
	2	Attic	6 240 f	t ² Attic	60 ft ²	Proposed Q		2nd Floor	cfm	36.0 cfm	0.03	0.60	2	2

	TEMPERATURES													
Programa	able Thermo	stat: None			С	eiling Fans	S:							
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr Apr [X] Apr		[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] S [ep ep ep	Oct Oct [X] Oct	[] Nov [X] Nov [X] Nov	[] Dec [X] Dec [] Dec
Thermostat	Schedule:	HERS 200	6 Reference	9				Ηοι	urs					
Schedule T	уре		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Cooling (W	EH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (W	D)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (W	EH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93 The lower the EnergyPerformance Index, the more efficient the home.

456 Main Street, Orlando, FL, 32922

1.	New construction or exis	New (From Plans)	
2.	Single family or multiple	Single	-family	
3.	Number of units, if multip	1		
4.	Number of Bedrooms	6		
5.	Is this a worst case?		No	
6.	Conditioned floor area (ft	⁽²⁾	2400	
7.	Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: d. U-Factor: SHGC: Area Weighted Average Area Weighted Average	0 1		Area 374.00 ft ² 24.00 ft ² ft ² ft ² 2.000 ft. 0.250
8.	Floor Types a. Slab-On-Grade Edge I b. Floor Over Other Spac c. N/A	Insulation R=0.0 R=0.0 R=	Area 1200.00 ft² 1200.00 ft² ft²	

 Wall Types Frame - Wood, Exterior Concrete Block - Int Insul, Exterior Frame - Wood, Adjacent N/A Ceiling Types Under Attic ((control)) 	$\begin{array}{llllllllllllllllllllllllllllllllllll$
a. Under Attic (Vented) b. N/A c. N/A	$\begin{array}{ccc} R=30.0 & 1200.00 \ \text{I}^2 \\ R= & \text{ft}^2 \\ R= & \text{ft}^2 \end{array}$
11. Ducts	R ft ²
a. Sup: Main, Ret: Main, AH: Main	6 240
b. Sup: Attic, Ret: Attic, AH: 2nd Floor	6 240
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	20.0 SEER:14.00
b. Central Unit	18.0 SEER:14.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	20.0 HSPF:8.20
b. Natural Gas Furnace	18.0 AFUE:0.78
14. Hot water systems	Cap: 50 gallons
a. Electric	EF: 0.93
b. Conservation features None	
15. Credits	None

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

Builder Signature:	Date:
Address of New Home:	City/FL Zip:

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Department of Business and Professional Regulations Residential Whole Building Performance and Prescriptive Methods

ADDRESS:

456 Main Street Orlando, FL, 32922 Permit Number: 456789

MANDATORY REQUIREMENTS See individual code sections for full details.

- 401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law [Section 553.9085, Florida Statues] requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate compliance for the building. A copy of the EPL display card can be found in Appendix C.
- R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.1 through R402.4.4.
 - R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
 - R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table 402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
 - R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, and 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;

2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;

- 3. Interior doors, if installed at the time of the test, shall be open;
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers and outdoor combustion air.
- R402.4.3 Fenestration air leakageWindows, 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.

- R402.4.4 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 E 283 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.
- **R403.1.1 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.
- R403.2.2 Sealing (Mandatory) All ducts, air handlers, and 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 C403.2.7.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria by post-construction or rough-in testing below.

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by either an energy rater certified in accordance with Section 553.99, Florida Statutes, or as authorized by Florida Statutes, to be "substantially leak free" by either of the following:

- 1. Post-construction test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
- 2. Rough-in test: Total leakage shall be less than or equal to 4 cfm (113 L/min) per 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of 0.1 inches w.g. (25Pa) across the system, including the manufacturer's air handler enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm (85 L/min) per 100 square feet (9.29 m2) of conditioned floor area.

Exceptions:

- 1. The total leakage test is not required for ducts and air handlers located entirely within the building envelope.
- 2. Duct testing is not mandatory for buildings complying by Section R405 of this code.

MANDATORY REQUIREMENTS - (Continued)

- **R403.2.2.1 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.
- R403.2.3 Building Cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.
- R403.3 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.,
 - R403.3.1 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.
- **R403.4.1 Circulating hot water systems (Mandatory).** Circulating hot water systems shall be provided with an automatic or readily accessible manual switch that can turn off the hot-water circulating pump when the system is not in use.
- R403.4.3 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 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- □ R403.4.4 Water heater efficiencies (Mandatory). Water heater efficiencies
 - O R403.4.4.1 Storage water heater temperature controls
 - R403.4.4.1.1 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).
 - R403.4.4.1.2 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.
 - R403.4.2 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 Section R403.4.4.2.1.
 - R403.4.4.2.1 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:
 - 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 - 2. Be installed at an orientation within 45 degrees of true south.
- R403.5 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. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
 - R403.5.1 Whole-house mechanical ventilation system fan efficacy. Mechanical ventilation system fans shall meet the efficacy requirements of Table R403.5.1.

Exception: Where mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.

- R403.5.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
 - 1. The design air change per hour minimums for residential buildings in ASHRAE 62, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 - 2. No ventilation or air-conditioned system make air shall be provided to conditioned space from attics, crawlspaces, attached closed garages or outdoor spaces adjacent to swimming pools or spas.
 - 3. If ventilation air is drawn from enclosed spaces(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum or R-19, space permitting, or R-10 otherwise.

R403.6 Heating and cooling equipment (Mandatory). The following sections are mandatory for cooling and heating equipment.

- R403.6.1 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 which affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems.
 - **R403.6.1.1 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 403.6, 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.

R403.6.1.1 Cooling equipment capacity. (continued) The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacture's expanded performance data shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection shall be used to select cooling-only equipment. This selection 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 temperature shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

- 1. Attached single- and multi-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- 2. When signed and sealed by a Florida-registered engineer, in attached single- and multi-family units, the capacity of equipment may be sized in accordance with good design practice.
- R403.6.1.2 Heating equipment capacity
 - R403.6.1.2.1 Heat pumps. Heat pumps sizing shall be based on the cooling requirements as calculated according to Section R403.6.1.1 and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load.
 - R403.6.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.6.1.
 - R403.6.1.2.3 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 R403.6.1.
- R403.6.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
 - 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 - 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.7 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Commercial Provisions in lieu of Section R403.
- R403.8 Snow melt system controls (Mandatory). Snow and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 55°F, and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F.
- R403.9 Swimming pools, inground spas and portable spas (Mandatory). The energy requirements for residential pools and inground spas shall be as specified in Sections R403.9.1 through R403.9.3 and in accordance with ANSI/APSP-15. The energy requirements for portable spas shall be in accordance with ANSI/APSP-14.
 - R403.9.1 Pool and spa heaters. All pool heaters shall be equipped with a readily accessible on-off switch that is mounted outside the heater to allow shutting off the heater without adjusting the thermostat setting.
 - R403.9.1.1 Gas and oil-fired pool and spa heaters. All gas- and oil-fired pool and space 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 gas or LP gas shall not have continuously burning pilot lights.
 - **R403.9.1.2 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.
 - R403.9.2 Time switches. Time switches or other control method that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this equipment.

Exceptions:

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- 1. Where public health standards require 24-hour pump operations.
- 2. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.
- 3. Where pumps are powered exclusively from on-site renewable generation.
- R403.9.3 Covers. Heated swimming pools and inground permanently installed 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:** Outdoor pools deriving over 70 percent of the energy for heating from site-recovered energy, such as a heat pump or solar energy source computed over an operating season.

RR404.1 Lighting equipment (Mandatory). A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or a minimum of 75 percent of permanently installed lighting fixtures shall contain only high efficacy lamps.

- **Exception:** Low-voltage lighting shall not be required to utilize high-efficacy lamps.
- R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights
- R405.2 Performance ONLY. All ducts not entirely inside the building thermal envelope shall be insulated to a minimum of R-6.
 - R405.2.1 Performance ONLY. Ceilings shall have minimum insulation of R-19. Where single assembly of the exposed deck and beam type or concrete deck roofs do not have sufficient space, R-10 is allowed.

TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	Single Family Home	Builder Name: Builder	
Street:	456 Main Street	Permit Office: Orlando Downtown	
City, State, Zip:	Orlando , FL , 32922	Permit Number: 456789	
Owner:	Owner	Jurisdiction: Orange County	
Design Location:	FL, Orlando		

COMPONENT	CRITERIA	CHECK
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. 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 attic spaces shall be sealed.	
Walls	Corners and headers shall be insulated and the junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top or exterior walls shall be sealed. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Knee walls shall be sealed.	
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.	
Floors (including above-garage and cantilevered floors)	Insulation shall be installed to maintain permanent contact with underside of subfloor decking. The air barrier shall be installed at any exposed edge of insulation.	
Crawl space walls	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls. Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	
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 air tight, IC rated, and sealed to the drywall.	
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	Exterior walls adjacent to showers and tubs shall be insulated and the air barrier installed separating them from the showers and tubs.	
Electrical/phone box on	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 envelope shall be sealed to the sub-floor or drywall.	
Fireplace	An air barrier shall be installed on fireplace walls. Fireplaces shall have gasketed doors	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Envelope Leakage Test Report Prescriptive and Performance Method

Project Name: Street:	Single Family Home 456 Main Street	Builder Name: Builder Permit Office: Orlando Downtown
City, State, Zip:	Orlando , FL , 32922	Permit Number: 456789
Design Location:	FL, Orlando	Jurisdiction: Orange County

Envelope Leakage Test Results

Regression Data:

C: _____ n: ____ R:

Single or Multi Point Tes	t Data
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	HOUSE PRESSURE	FLOW:
1	Ра	cfm
2	Ра	cfm
3	Ра	cfm
4	Ра	cfm
5	Ра	cfm
6	Ра	cfm

Leakage Characteristics

CFM(50):	
ELA:	
EqLA:	
ACH:	
ACH(50):	
SLA:	

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 5 air changes per hour in Climate Zones 1 and 2, 3 air changes per hour in Climate Zones 3 through 8. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures:
- 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures:
- 3. Interior doors, if installed at the time of the test, shall be open;
- 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
- 6. Supply and return registers, if installed at the time of the test, shall be fully open.

I hereby certify that the above envelope leakage
performance results demonstrate compliance
with Florida Energy Code requirements in
accordance with Section R402.4.1.2.

SIGNATURE:

DATE:

Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the third party conducting the test and provided to the code official.



BUILDING OFFICIAL:

DATE:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Form R405 Duct Leakage Test Report

Performance Method

Project Name:	Single Family Home	Builder Name:	Builder
Street:	456 Main Street	Permit Office:	Orlando Downtown
City, State, Zip:	Orlando , FL , 32922	Permit Number:	456789
Design Location:	FL, Orlando	Jurisdiction:	Orange County
		Duct Test Time:	Post Construction

Duct Leakage Test Results

CFM25 Duct Leakage Test Values			
Line	System	Outside Duct Leakage	
1	System 1	cfm25(Out)	
2	System 2	cfm25(Out)	
3	System 3	cfm25(Out)	
4	System 4	cfm25(Out)	
5	Total House Duct System Leakage	Sum lines 1-4 Divide by (Total Conditioned Floor Area) =(Q _n ,Out)	

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section R403.2.2.

SIGNATURE:

PRINTED	NAME:
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DATE:

Duct tightness shall be verified by testing to Section 803 of the RESNET Standards by an energy rater certified in accordance with Section 553.99, Florida Statutes.



BUILDING OFFICIAL:

DATE: