

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST



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

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Simulated Performance Alternative (Performance) shall include:

- ☒ This checklist
- ☒ Form R405 report
- ☐ Input summary checklist that can be used for field verification (usually four pages/may be greater)
- ☐ Energy Performance Level (EPL) Display Card (one page)
- ☐ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☐ Mandatory Requirements (five pages)

Required prior to CO:

- ☐ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☐ A completed Envelope Leakage Test Report (usually one page)
- ☐ If Form R405 or R406 duct leakage type indicated anything other than "default leakage", then a completed Duct Leakage Test Report (usually one page)

Florida 2023 Performance Compliance

**Property**

Orlando, FL 32789

OrganizationEkotrope
Patrick Nachlas
410-245-8290**Inspection Status**

Results are projected



















Florida Test Project
Initial House Design**Builder****This report is based on a proposed design and does not confirm field enforcement of design elements.**

End Use Loads

Design	Florida 2023 Performance REUL	As Designed nMEUL
Heating	6.2	2.5
Cooling	42.1	44.0
Water Heating	5.5	11.8
Total	53.9	58.3

R405.3 The proposed home nMEUL are MORE than the 95% of reference home REUL threshold by 7.1 MBtu.

Requirements

	R405.3	Performance-based compliance	Performance-based compliance fails the end-use loads requirement (95% of the reference EUL) by -7.1%.
	R402.4.1.2	Air Leakage Testing	A post construction blower door test is required to verify the air leakage meets the requirement.
	R404.1	Lighting Equipment	At least 100.0% of fixtures shall be high-efficacy lamps, currently 0.0% are high-efficacy.
	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	Florida 2023 Mandatory Requirements must be checked as complete.
	R403.6.1	Mechanical Ventilation Efficacy	
	R403.6.1	Mechanical Ventilation Energy Recovery	
	IRC M1507.3.3	Mechanical Ventilation Rate	The 2023 International Residential Code for 1- and 2-Family Dwellings requires mechanical ventilation to provide fresh air at a similar rate to that recommended by ASHRAE 62.2-2010. This design currently may not meet that requirement. For more information please look at ASHRAE 62.2-2010 compliance or at the 2023 IRC section M1505.4.3.
	R403.5.2	Demand Recirculation Water Systems	
	R403.7.1	Equipment Sizing	- Make sure that the total cooling capacity of all cooling equipment is at least equal to the calculated cooling design load, but not more than 1.15 times of that load.
	R403.8	Systems Serving Multiple Dwelling Units	
	R403.13	Dehumidifiers	
	R402.5	Area-weighted average fenestration SHGC	Area-weighted average fenestration SHGC is 0.268. The maximum allowed value is 0.4.
	R402.5	Area-weighted average fenestration U-Factor	
	R405.5.3.4	Area-weighted average fenestration SHGC or Overhang	Area-weighted average fenestration overhang depth is 0. The minimum required value is 4.
	R405.2	Mandatory Requirements	All ducts are inside the thermal envelope or outside and insulated to at least R8.0.
	R405.2.1	Ceiling Insulation	All ceilings are insulated to at least R19.0.
	R405.2.2	Building Air Leakage Testing	Infiltration Rate must be tested if air leakage is below R7.0 ACH50.
	R405.7.6	Ceiling Fan Option	

Design fails to meet the performance requirement for Florida 2023 Performance compliance by 13.8%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on ORANGE County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name: Patrick Nachlas

Signature: _____

Organization: Ekotrope

Date: 7/15/25 at 5:35 PM

Ekotrope RATER - Version 4.2.1.3668

Florida 2023 Performance compliance results calculated using Ekotrope RATER's energy and code compliance algorithm, including appropriate amendments.

Ekotrope RATER is a RESNET Accredited HERS Rating Tool. All results are based on data entered by Ekotrope users.

Ekotrope disclaims all liability for the information shown on this report.