

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST



Florida Department of Business and Professional Regulation Total UA Alternative

Applications for compliance with the 2023 Florida Building Code, Energy Conservation via the Total UA Alternative shall include:

- ☒ This checklist
- ☒ Form Total UA 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 UA 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.**

Building UA

Elements	IECC Reference	As Designed
Ceilings	30.0	16.8
Above-Grade Walls	150.8	97.1
Windows, Doors and Skylights	166.0	104.4
Slab Floor:	75.2	75.2
Framed Floors	0.0	0.0
Foundation Walls	0.0	0.0
Rim Joists	7.7	13.0
Overall UA (Design must be equal or lower):	429.7	306.5

Requirements

✓	R402.1.5	Total UA alternative compliance passes by 28.7%.	The proposed home meets the UA requirement by 28.7%
⚠	R402.3.2	Average SHGC: 0.27 Max SHGC: 0.25	Average SHGC of 0.27 is greater than the maximum of 0.25.
i	R402.2.9	Slab insulation is evaluated through total UA.	
⚠	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	
✓	R403.3.1	Duct Insulation	All ducts are inside the thermal envelope or outside and insulated above the minimum R-value.
⚠	R403.3.4	Duct Leakage Testing	Forced air ducts and air handlers that aren't entirely in conditioned space must be tested
⚠	R403.5.2	Hot water pipe insulation	Hot water pipes at least 3/4 in diameter must be insulated to R-3 at minimum.
✓	R403.7.2	Electric-resistance Space Heating	

Design exceeds the requirement for Florida 2023 Prescriptive compliance by 28.7% but fails the mandatory requirements.

Name: Patrick Nachlas Signature: _____
Organization: Ekotrope Date: 7/15/25 at 5:35 PM

Ekotrope RATER - Version 4.2.1.3668

Florida 2023 Prescriptive 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.