FORM R405 - 2026

RESIDENTIAL ENERGY CONSERVATION CODE Documentation Checklist

ekotrope

Florida Department of Business and Professional Regulation

Simulated Performance Alternative (Performance)

UNCONFIRMED

Applications for compliance with the 2026 Florida Building Code, Energy Conservation via the Simulated Performance Alternative (Performance) shall include:

BETA

☑ 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 BUILDING CODE, ENERGY CONSERVATION
Residential Performance Compliance Method

Property
1234 Orlando ave
Orlando, FL 32789

Florida Test Project 1.1 - 2026-07-02 21:18 - Co
Initial House Design - Without PV

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Builder

Inspection Status
Results are projected

Residence Type
Single family detached

End Use Loads

UNCONFIRMED

Design	Florida 2026 Performance (Beta) REUL	As Designed nMEUL
Heating	6.2	1.7
Cooling	42.1	35.6
Water Heating	5.5	5.5
Total	**53.9**	**42.8**

R405.3: The proposed home nMEUL are LESS than the 85% of reference home REUL threshold by 3.0 MBtu.

BETA

Requirements

ℹ	Beta	Florida 2026 Performance is in beta. Please do not rely on these results as they are subject to change.	
✓	R405.3	Performance-based compliance	Performance compliance based on the end-use loads requirement passes by 6.6%.
✓	R402.4.1.2	Air Leakage Testing	
✓	R404.1	Lighting Equipment	Please check that all permanently installed luminaires are capable of operation with an efficacy of not less than 45 lumens per watt or shall contain lamps capable of operation with an efficacy of not less than 65 lumens per watt.
✓	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	Florida 2026 Mandatory Requirements must be checked as complete.
✓	R403.6.1	Mechanical Ventilation Efficacy	
✓	R403.6.1	Mechanical Ventilation Energy Recovery	
⚠	R403.6	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	
✓	R403.5.6.2	Water Heater Efficiencies	
✓	R403.7.1	Equipment Efficiencies	
⚠	R403.7.1	Equipment Sizing	A Manual J should be supplied to comply with system sizing requirements.
✓	R403.8	Systems Serving Multiple Dwelling Units	
✓	R403.13	Dehumidifiers	
✓	R101.2	Scope: Residential Buildings	
✓	R405.5.3.4	Area-weighted avg fenestration SHGC or Overhang	Passes because area-weighted avg fenestration SHGC is 0.25, satisfying the maximum allowed value of 0.4.
✓	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	
✓	R405.7.6	Ceiling Fan Option	

Design exceeds requirements for Florida 2026 Performance (Beta) compliance by 6.6%.

I hereby certify that the plans and specifications covered by this form are in compliance with the Florida Building Code, Energy Conservation.

Prepared By: Patrick Nachlas Date: 7/6/26 at 11:15 AM

Prepared By Signature:

I hereby certify that this building is in compliance compliance with the Florida Building Code, Energy Conservation.

Owner/Agent By: Date:

Owner/Agent Signature:

Review of plans and specifications covered by this form indicate compliance with the Florida Building Code, Energy Conservation. Before construction is complete, this building will be inspected for compliance in accordance with Section 553.908, F.S.

Code Official By: Date:

Code Official Signature:

Florida 2026 Reference Home Summary (Beta)

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Property
1234 Orlando ave
Orlando, FL 32789

Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Reference

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Builder

Inspection Status
Results are projected

General Building Information

Number Of Bedrooms: 3	Number Of Floors: 2
Conditioned Floor Area [sq. ft.]: 2,000	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 19,000
Total Units in Building: 1	Residence Type: Single family detached
Number of Floors in Building: N/A	Floor Number: N/A
Model: N/A	Community:
FEC Climate Zone: Z2	

Envelope Components

Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
Slab	Florida 2026 Reference	130	On Grade	2	200	1,000.0 ft²	Exposed Exterior	Conditioned Space

Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value
Florida 2026 Reference	Wood Frame / Other	No	0	0	0	Yes	No	0.00

Rim Joist

Name	Library Type	Surface Area	Location	Effective Insulation R-value
Rim Joist	Florida 2026 Reference	130.0 ft²	Exposed Exterior	11.905

Wall

Name	Library Type	Surface Area	Location	Effective R-value
Wall	Florida 2026 Reference	2,210.0 ft²	Exposed Exterior	11.905

Glazing

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
NORTH Window /Glass Door	Florida 2026 Reference	Wall		Yes	0	0	0	North	75.0 ft²
NORTH Window /Glass Door	Florida 2026 Reference	Wall		Yes	0	0	0	East	75.0 ft²
NORTH Window /Glass Door	Florida 2026 Reference	Wall		Yes	0	0	0	West	75.0 ft²
NORTH Window /Glass Door	Florida 2026 Reference	Wall		Yes	0	0	0	South	75.0 ft²

Glazing Library List

Name	Shgc	U-factor
Florida 2026 Reference	0.25	0.400

Florida 2026 Reference Home Summary (Beta)

Property
1234 Orlando ave
Orlando, FL 32789

Project & Plan
Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Reference

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Inspection Status
Results are projected

Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Florida 2026 Reference	Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	2.50

Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Roof	Florida 2026 Reference	1,100	No	No	-	Medium	0.75	1,000.0 ft²	Vented Attic

Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
Florida 2026 Reference	No	33.333

Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
7 ACH at 50 Pa	Blower-door tested	4

Mechanical Systems & Water Heating

Dehumidifier

Name	Library Type	Equipment Type	Capacity [pints/day]	Integrated Energy Factor [liters/kWh]
Florida Code Reference	Florida Code Reference	Whole Home	50	1.7

Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Cooling Equipment	Low Efficiency AC		0%	100%	0%	Unspecified
Heating Equipment	ASHP		100%	0%	0%	Unspecified
Water Heater	47 gal. 0.95EF Elec		0%	0%	100%	Unspecified

Equipment Type: 47 gal. 0.95EF Elec

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.9309 UEF
Tank Capacity (gal.)	40

Equipment Type: ASHP

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heat Pump System Type	Small Duct High Velocity
Heating Efficiency	6.1 HSPF2
Heating Capacity [kBtu/h]	31.0
Backup Fuel Type	Natural Gas
Switchover Temperature [°F]	18
Backup Heating Efficiency	80 AFUE
Backup Capacity [kBtu/h]	22.5

BETA

Florida 2026 Reference Home Summary (Beta)

Property
1234 Orlando ave
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Project & Plan
Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Reference

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Inspection Status
Results are projected

Equipment Type: Low Efficiency AC

Equipment Type	Air Conditioner
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Unspecified
Cooling Efficiency	14.3 SEER2
Cooling Capacity [kBtu/h]	21.9

Distribution System

Distribution Type	Forced Air
Heating Equipment	Heating Equipment
Cooling Equipment	Cooling Equipment
Is All Equipment In Conditioned Space	Yes
Leakage Default	Custom DSE
Duct System Efficiency	0.88

Water Distribution

Water Fixture Type	Standard
Use Default Hot Water Pipe Length	Yes
At Least R3 Pipe Insulation?	Yes
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

Components Not Found: Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Mechanical Ventilation, Onsite Generation, Solar Generation, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan

BETA

Florida 2026 Proposed Home Summary (Beta)

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Property
1234 Orlando ave
Orlando, FL 32789

Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Proposed

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Builder

Inspection Status
Results are projected

General Building Information

Number Of Bedrooms: 3	Number Of Floors: 2
Conditioned Floor Area [sq. ft.]: 2,000	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 19,000
Total Units in Building: 1	Residence Type: Single family detached
Number of Floors in Building: N/A	Floor Number: N/A
Model: N/A	Community:
FEC Climate Zone: Z2	

Envelope Components

Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
Slab	S1	130	On Grade	2	0	1,000.0 ft²	Exposed Exterior	Conditioned Space

Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value
S1	Wood Frame / Other	No	0	0	0	Yes	No	0.00

Rim Joist

Name	Library Type	Surface Area	Location	Effective Insulation R-value
Rim Joist	Common Rim Joist	130.0 ft²	Exposed Exterior	25.00

Wall

Name	Library Type	Surface Area	Location	Effective R-value
Wall	W4	2,210.0 ft²	Exposed Exterior	12.582

Glazing

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
EAST Window / Glass Door	.24/.25	Wall		Yes	0	0	0	East	75.0 ft²
NORTH Window /Glass Door	.24/.25	Wall		Yes	0	0	0	North	75.0 ft²
NORTH Window /Glass Door - Copy	.24/.25	Wall		Yes	0	0	0	North	75.0 ft²
SOUTH Window /Glass Door	.24/.25	Wall		Yes	0	0	0	South	75.0 ft²
WEST Window / Glass Door	.24/.25	Wall		Yes	0	0	0	West	75.0 ft²

Glazing Library List

Name	Shgc	U-factor
.24/.25	0.25	0.240

BETA

Florida 2026 Proposed Home Summary (Beta)

Property
1234 Orlando ave
Orlando, FL 32789

Project & Plan
Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Proposed

Organization
Ekotrope
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410-245-8290

Inspection Status
Results are projected

Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	D1	Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	1.30

Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Roof	C1	1,100	No	No	-	Medium	0.75	1,000.0 ft²	Vented Attic

Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
C1	No	59.574

Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
3.7 ACH at 50 Pa	Blower-door tested	4

Mechanical Systems & Water Heating

Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Cooling Equipment	Low Efficiency AC		0%	100%	0%	Unspecified
Heating Equipment	ASHP		100%	0%	0%	Unspecified
Water Heater	47 gal. 0.95EF Elec		0%	0%	100%	Unspecified

Equipment Type: 47 gal. 0.95EF Elec

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.95 Energy Factor
Tank Capacity (gal.)	40

Equipment Type: ASHP

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	ECM (Variable Speed)
Heat Pump System Type	Small Duct High Velocity
Heating Efficiency	18 HSPF
Heating Capacity [kBtu/h]	42
Backup Fuel Type	Natural Gas
Switchover Temperature [°F]	18
Backup Heating Efficiency	82.1 AFUE
Backup Capacity [kBtu/h]	144

Equipment Type: Low Efficiency AC

Equipment Type	Air Conditioner
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Unspecified
Cooling Efficiency	13.1 SEER2
Cooling Capacity [kBtu/h]	24

BETA

Florida 2026 Proposed Home Summary (Beta)

Property
1234 Orlando ave
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Project & Plan
Florida Test Project 1.1 - 2026-07-02 21:18 - Copy
Florida 2026 Proposed

Organization
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Inspection Status
Results are projected

Distribution System

Distribution Type	Forced Air
Heating Equipment	Heating Equipment
Cooling Equipment	Cooling Equipment
Sq. Feet Served	2,000
# Return Grilles	2
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	300
Return Duct Area [ft²]	80
Leakage to Outdoors	3 CFM25 / 100 ft²
Total Leakage	80 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

Water Distribution

Water Fixture Type	Standard
Use Default Hot Water Pipe Length	Yes
At Least R3 Pipe Insulation?	Yes
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

Components Not Found: Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Mechanical Ventilation, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan

BETA

Florida 2026 Fuel Summary Comparison (Beta)

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Property
1234 Orlando ave
Orlando, FL 32789

Florida Test Project 1.1 - 2026-07-02 21:18 - Co
Initial House Design - Without PV

Organization
Ekotrope
Patrick Nachlas
410-245-8290

Builder

Inspection Status
Results are projected

BETA

Annual Energy Cost [$/yr]	Reference	Rated Home	Savings	% Saved
Electric	$1,662	$1,356	$306	18.4%

BETA

Annual End-Use Cost [$/yr]	Reference	Rated Home	Savings	% Saved
Heating	$112	$25	$87	77.4%
Cooling	$634	$536	$98	15.5%
Water Heating	$201	$199	$2	1%
Lights & Appliances	$714	$596	$118	16.5%
Onsite Generation	-$0	-$0	$0	0%
Service Charges	$0	$0	$0	0%
Total	$1,662	$1,356	$306	18.4%

BETA

Annual End-Use Consumption	Reference	Rated Home	Savings	% Saved
Heating [Electric kWh]	965.4	214.4	751.0	77.8%
Cooling [Electric kWh]	5,441.5	4,599.8	841.8	15.5%
Hot Water [Electric kWh]	1,724.0	1,707.7	16.3	0.9%
Lights & Appliances [Electric kWh]	6,132.1	5,117.9	1,014.1	16.5%
Total [Electric kWh]	14,263.1	11,639.8	2,623.2	18.4%
Total Onsite Generation kWh	0.0	0.0	0.0	0%

BETA

Peak Electric Consumption	Reference	Rated Home	Savings	% Saved
Peak Winter kW	2.42	1.34	1.08	44.7%
Peak Summer kW	2.52	2.14	0.38	15.2%

BETA

Utility Rates

Electricity	27 cents/kWh

BETA

BETA

All results are based on data entered by Ekotrope users. Ekotrope disclaims all liability for the information shown on this report.

DUCT LEAKAGE TEST REPORT

2026 Florida Building Code, Energy Conservation, 9th Edition

ekotrope

Jurisdiction: | Permit #:

Job Information

Address:	1234 Orlando ave	City:	Orlando	State:	FL	Zip:	32789	Builder:	

Community: | Lot:

Duct Leakage Test Results

System 1: 80.0 cfm25

Total of all: 80.0 cfm25

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80.0	÷	2,000.0	=	0.040
Total of all systems		Total Conditioned Square Footage		Qn

PASS

BETA

☐ **Prescriptive Method cfm25 (Total)**

To qualify as "substantially leak free" Qn Total must be less than or equal to 0.04 if air handler unit is installed. If air handler unit is not installed, Qn Total must be less than or equal to 0.03. This testing method meets the requirements in accordance with Section R403.3.3.

Is the air handler unit installed during testing?

☑ YES (= .04 Qn) ☐ NO (= .03 Qn)

☑ **Performance/ERI Method cfm25 (Out or Total)**

To qualify using this method, Qn must not be greater than the proposed duct leakage Qn specified on Form R405-2026 or R406-2026.

Leakage Type selected on Form R405-2026: Outside | **Qn specified on Form R405-2026 or R406-2026**: 0.040

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC380 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.

Testing Company

Company Name: | **Phone:**

I hereby verify that the above duct leakage testing results are in accordance with the Florida Building Code requirements with the selected compliance path as stated above, either the Prescriptive Method or Performance Method.

Signature of Tester: | **Date of Test:** | **Printed Name of Tester:**

License/Certification #: | **Issuing Authority:**

ENVELOPE LEAKAGE TEST REPORT (BLOWER DOOR TEST)

2026 Florida Building Code, Energy Conservation, 9th Edition

ekotrope

Jurisdiction: | Permit #:

Job Information

Address:	1234 Orlando ave	City:	Orlando	State:	FL	Zip:	32789	Builder:	

Community: | Lot:

Air Leakage Test Results

Passing results must meet either the Performance, Prescriptive, or ERI Method

☐ **Prescriptive Method cfm25 (Total)**

PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

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☑ **Performance/ERI Method cfm25 (Out or Total)**

PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2026 (Performance) or R406-2026 (ERI), section labeled as infiltration, sub-section ACH50.

ACH(50) specified on Form R405-2026-Energy Calc (Performance) or R406-2026 (ERI): 3.7

BETA

1,171.7	x 60 ÷	19,000.0	=	3.7
CFM(50)		Building Volume		ACH(50)

PASS

Method for calculating building volume:

☐ Retrieved from architectural plans ☑ Code software calculated ☐ Field measured and calculated

R402.4.1.2 Testing.

The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Dwelling units with an air leakage rate less than three air changes per hour shall be provided with whole-house mechanical ventilation in accordance with Section R403.6.1 of this code and Section M1507.3 if the Florida Building Code, Residential. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statues,or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or 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, back draft 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.
6. Supply and return registers, if installed at the time of the test, shall be fully open.
7. If an attic is both sealed and insulated at the roof deck, interior access doors and hatches between the conditioned space volume and the attic shall be opened during the test and the volume of the attic shall be added to the conditioned space volume for purposes of reporting the infiltration volume and calculating the air leakage of the home.

Testing Company

Company Name: | **Phone:**

I hereby verify that the above Air Leakage results are in accordance with the 2026 9th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: | **Date of Test:** | **Printed Name of Tester:**

License/Certification #: | **Issuing Authority:**

MECHANICAL VENTILATION TEST REPORT

2026 Florida Building Code, Energy Conservation, 9th Edition

ekotrope

Jurisdiction: | Permit #:

Job Information

Address: 1234 Orlando ave **City:** Orlando **State:** FL **Zip:** 32789 **Builder:**

Community: **Lot:**

Mechanical Ventilation Test Results

UNCONFIRMED

Exhaust Flow		Supply Flow	
System 1	NA cfm	System 1	NA cfm
System 2	NA cfm	System 2	NA cfm
System 3	NA cfm	System 3	NA cfm
Sum of others	NA cfm	Sum of others	NA cfm
Total of all	**NA cfm**	**Total of all**	**NA cfm**

BETA

Total Exhaust Design Flow NA cfm **Total Supply Design Flow** NA cfm

☐ **PASS** ☐ **FAIL**

Mechanical ventilation was verified by testing in accordance with ANSI/RESNET/ICC 380.

Testing Company

Company Name: **Phone:**

I hereby verify that the above mechanical ventilation flow leakage test results are in accordance with the Florida Building Code, Energy Conservation, Section R403.6.3 requirements.

Signature of Tester: **Date of Test:** **Printed Name of Tester:**

License/Certification #: **Issuing Authority:**

AIR BARRIER AND INSULATION INSTALLATION REPORT

2026 Florida Building Code, Energy Conservation, 9th Edition

TABLE R402.4.1.1[a]

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Project Information

Project Name: Florida Test Project 1.1 - 2026-07-02 21:18 - Copy **Street:** 1234 Orlando Ave **City, State, Zip:** Orlando, FL 32789 **Builder Name:**

County: Orange **Permit Office:** **Permit Number:** **Jurisdiction:**

Owner: **Design Location:**

UNCONFIRMED
BETA

Florida 2026 Air Barrier and Insulation Installation - R402.4.1.1[a]

Component	Air Barrier Criteria	Insulation Installation Criteria	Compliant
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air 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.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	☐
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. 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 envelope insulation 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 cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	☐
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	☐
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior 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 space.	☐
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 sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall 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 exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	☐
Electrical, communication and other equipment boxes, housings and enclosures	Boxes, housings and enclosures that penetrate the air barrier shall be caulked, taped, gasketed or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with Section R402.4.6.	Boxes, housings and enclosures shall be buried in or surrounded by tightly fitted insulation.	☐
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.		☐
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		☐

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ekotrope

ESTIMATED ENERGY PERFORMANCE INDEX* = 79

The lower the Energy Performance Index, the more efficient the home.

Address: 1234 Orlando ave, Orlando, FL

UNCONFIRMED BETA

1.	New home or, addition	New home
2.	Single-family or multi-family	Single-family
3.	No. of units (if multi-family)	1
4.	Number of Bedrooms	3
5.	Is this a worst case?	No
6.	Conditioned floor area above grade	2,000.0 ft²
-	Conditioned floor area below grade	0.0 ft²

	Windows**	U-factor	SHGC	Area
7. (1)	Window Type - 1	0.240	0.25	375.0 ft²
-	Area-weighted average overhang depth:			0.00 ft
-	Area-weighted average SHGC:			0.25

	Skylights	U-factor	SHGC	Area
8. N/A	N/A	N/A	N/A	N/A

	Floor Types	Insulation	Area
9. (1)	Slab On Grade	Underslab R=0.00 Perimeter R=0.00	1,000.0 ft²

	Wall Types	Insulation	Area
10. (1)	Wall Type - 1	R=12.582	2,210.0 ft²

	Ceiling Types	Insulation	Area
11. (1)	Ceiling Type - 1	R=59.574	1,000.0 ft²

	Ducts & Location	Insulation	Area
12. (1)	Cond. space: 100% Sup, 100% Ret;	Sup R=6.00, Ret R=6.00	2,000.0 ft²

	Cooling Systems	Capacity	Efficiency
13. (1)	Cooling System - 1	24	13.1 SEER2

	Heating Systems	Capacity	Efficiency
14. (1)	Heating System - 1	42	18 HSPF

	Water Heating Systems	Capacity	Efficiency	Draw Pattern
15. (1)	Water Heating System - 1	40 gallons	0.95 Energy Factor	High

16. Credits (Performance method):
- Cross Ventilation

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: 7/6/26 at 11:15 AM

Address of New Home: 1234 Orlando ave City/FL Zip: Orlando, FL, 32789

* 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 an Energy Rating. 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.