

The Infiltration and Duct Leakage (IDL) Certification

Raising the Bar in Home
Performance Contracting

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BPI

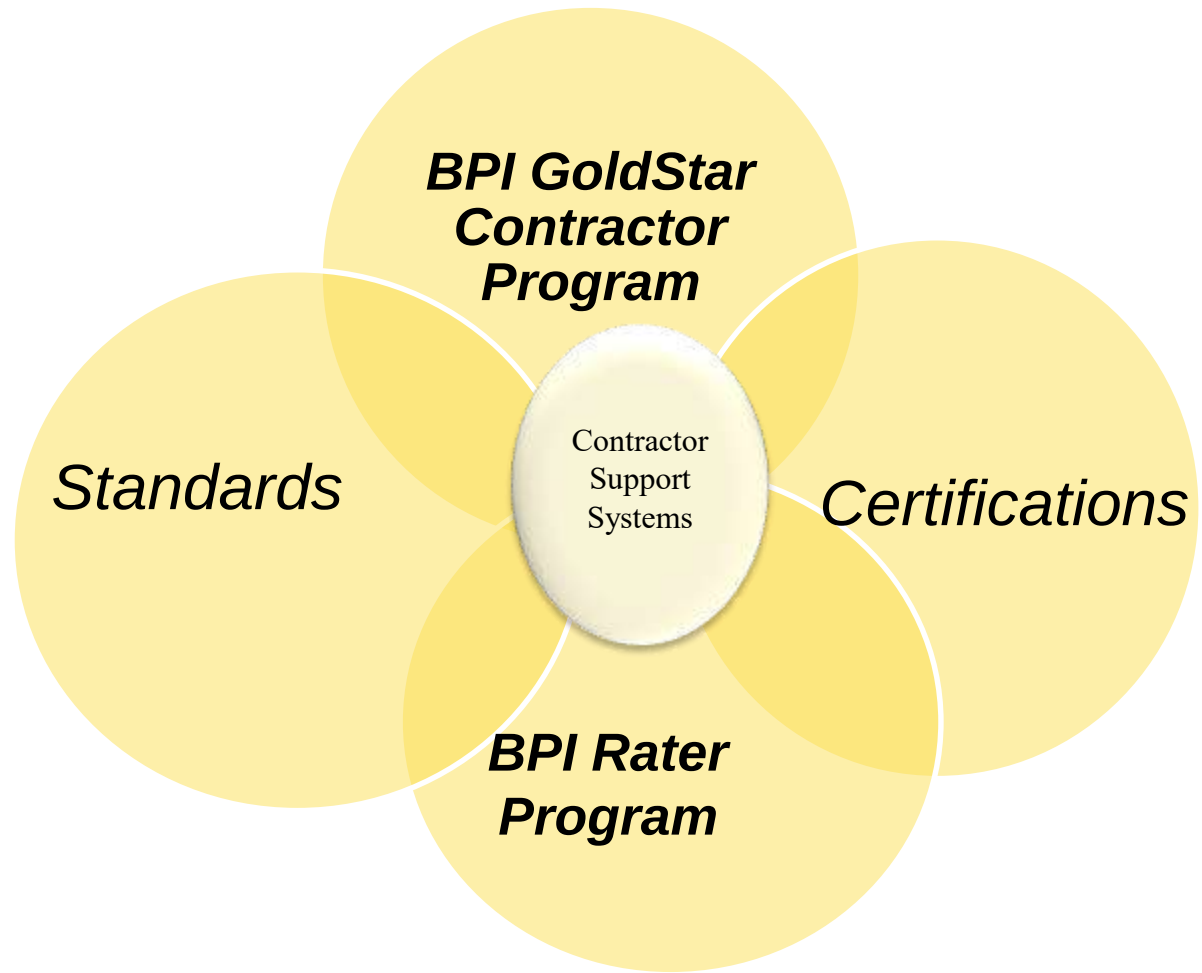
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What BPI Offers



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Just the Tests and Nothing but the Tests.

Introducing BPI's new certification for air infiltration and duct leakage (IDL) code compliance testing.

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BPI's Infiltration & Duct Leakage (IDL) Certification

- Meets IECC 2009, 2012, 2015 code compliance verification for new homes
- Verifies competency to conduct duct leakage tests to ASTM E 1554-07 and blower door tests to ASTM E 779-03.
- Field practicum test required.
- Nationwide credential that verifies skills to conduct code compliance testing.



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The Value of the BPI IDL Certification

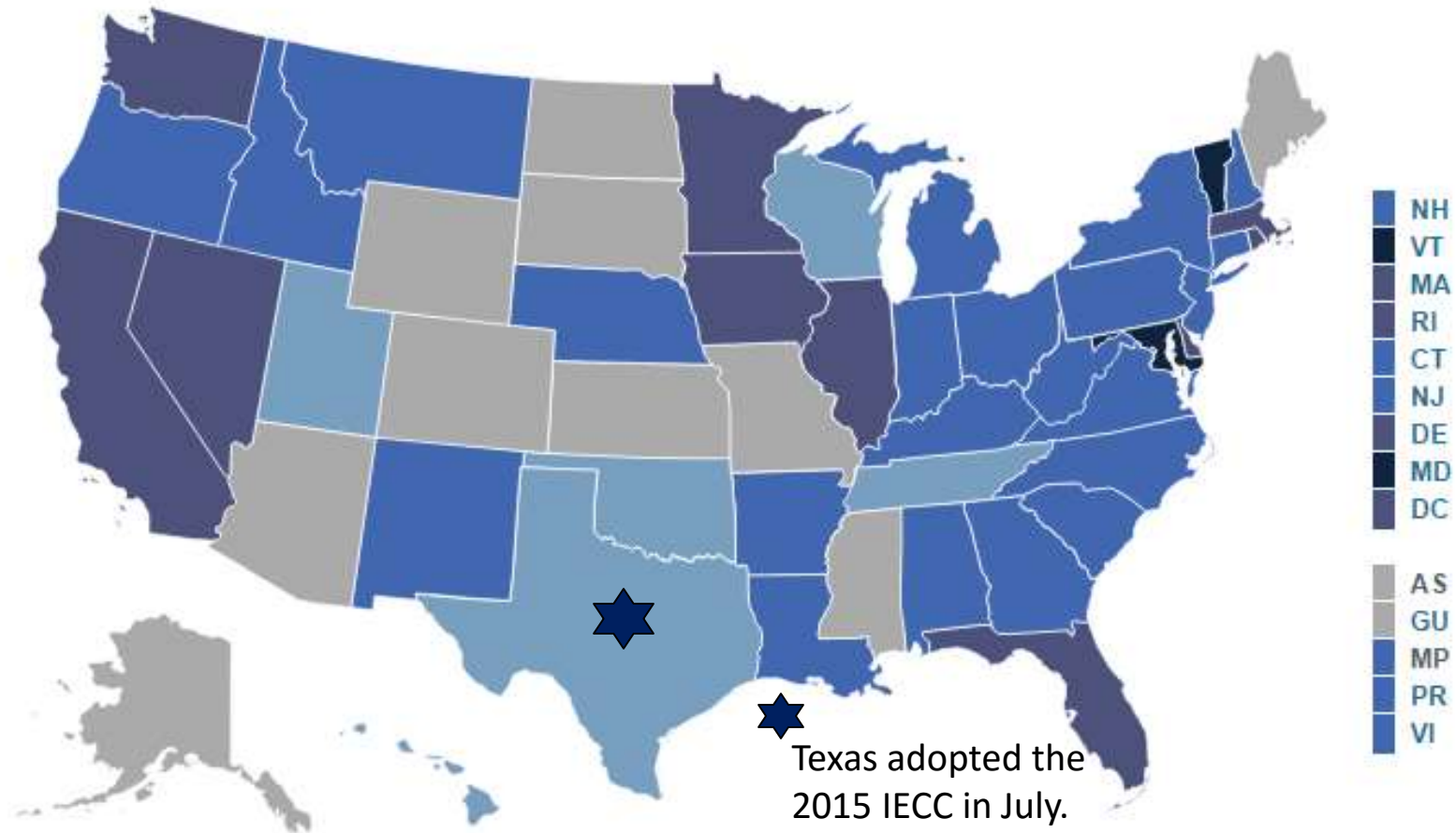
- Affordable alternative to traditional third-party rater consultants
- Allows framers, installers, or technicians to conduct code compliance verification tests
- Designed to follow required ASTM standards for air and duct leakage testing.



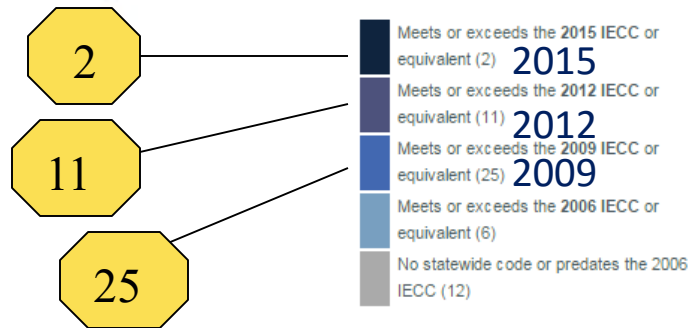
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State Level Adoption of the IECC



39
~~38~~ States Now
Require IDL
Testing for Code
Compliance



This map reflects only mandatory statewide residential energy codes currently in effect.

In instances where a state has developed its own code, the maps approximate its energy efficiency in terms of the national model codes. Every effort is made to ensure that they are accurate and up-to-date. If you have any questions or comments about the maps, please [contact us](#).

[Go to Code Status: Commercial](#)

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Changes to 2015 IECC: Air Leakage

3. Building envelope air leakage testing

Building envelope air leakage testing must now be done in accordance with either ASTM E 779 or ASTM E 1827.

What's the difference? In both the 2009 and 2012 versions of the IECC there were requirements for air leakage testing of the building envelope, but neither code referenced any standard by which to conduct the test. The 2015 code now requires that one of the two ASTM standards be followed when conducting the air leakage test.



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IECC Duct Leakage Testing

ASTM E1554 / E1554M - 13

Standard Test Methods for Determining Air Leakage of Air Distribution Systems by Fan Pressurization

Active Standard ASTM E1554 / E1554M



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Target Markets



Home Builders
or Framers



HVAC Technicians



Building
Analysts/Auditors



Code Officials



Insulation Installers



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IDL Certification Requirements

- Single-measure (field exam only) – 1.5 hrs
- Proctored exam
- 85% passing score
- Valid for 3 years
- Recertification by exam
- MSRP = \$200



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IDL Certification P&P



Certification Scheme Handbooks

-  [RBE-WHALCI](#)
-  [Energy Auditor](#)
-  [Quality Control Inspector](#)
-  [Retrofit Installer Technician](#)
-  [Crew Leader](#)
-  [Infiltration & Duct Leakage Certification \(IDL\)](#)



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IDL Certification

Infiltration and Duct Leakage Certification FIELD GUIDE

3

Setup/Preparation

Combustion appliances set to pilot or disabled

Candidate explained the importance of documenting how the house was set up for diagnostic testing

Candidate explained the importance of performing a visual inspection to determine if the site is suitable to run the diagnostics

Candidate explained the importance of performing a field calibration of the manometer

Registers taped or otherwise sealed

Interior doors open

Proper set up of the ductblaster shroud/fan

Securely attached to return/air handler

manometer away from fan discharge



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Total Leakage

Proper set up of the manometer

Proper house setup for testing - At least 1 window or door open

Proper probe placement

Accurate CFM25 measurement

Leakage to the Outdoors

Proper set up of the manometer

Proper house setup for testing - All exterior windows and doors closed

Proper probe placement

Proper setup of Blower Door

Proper set up of the blower door frame/shroud/fan

Proper set up of the manometer

Correctly measured baseline pressure differential

Proper blower door pressure differential maintained

Accurate CFM25 measurement



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Infiltration Evaluation

Proper house set-up for testing
Correctly measured baseline pressure differential
Accurate CFM50 measurement
Calculated ACH50 given a volume of 14,300 cubic feet

Analysis

Ability to Interpret Results - 14,300 cubic feet, and 1,100 square feet of conditioned floor area
Compared infiltration results to IECC limits
Compared duct tightness results to IECC limits



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Quick reference sheets



Use these handy guides as a
compendium to the standards

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Subject Matter
Expert Information



Value of IDL for Code Officials

- Required IECC tests performed by certified individual with proven competence
- Standardized written report on test results
- Recognition that required ASTM standards for air and duct leakage testing are being followed



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IDL Certification Information

- See www.bpi.org/IDL
- Find a [BPI Test Center](#)
- Read the [IDL Scheme Handbook](#)
- Read the [IDL Field Guide](#)

The IDL is BPI's Fastest Growing Certification



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Thank you

Further Questions Contact me:

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