



# Residential Energy Code Implementation

Permits must fully comply with the energy conservation provisions of the International Residential Code as mandated by Texas Senate Bill 365 passed in the 17th Legislative Session.

Compliance must be demonstrated at two (2) different stages of the project:

## I. PERMIT APPLICATION / PLAN REVIEW

- a. Compliance must be demonstrated by submitting documentation at the time of permit application and must include the following:
  - i. City of Allen Residential Energy Compliance Form. A copy of this form is attached (page 2) and is also available online in the Building Code and Compliance section of our website, [CityofAllen.org](http://CityofAllen.org).
  - ii. If methods other than the North Central Texas Council of Governments Simplified Prescriptive approach are used, the appropriate report (such as REScheck or IC3) must be submitted with the compliance form.
  - iii. Additional energy conservation information is required on the building plans.

## II. FIELD INSPECTION

- a. Field inspections must be conducted by inspectors certified in energy code provisions as specified in the appropriate state law.  
**\*At this time, City of Allen inspectors will not perform energy inspections. Energy inspections must be conducted by certified third-party inspectors.**
- b. All energy inspection reports completed by certified third-party inspectors will be picked up by City inspectors at the City's final building inspection. **It is the builder's responsibility to obtain the appropriate energy inspections before required elements are covered up.** The energy inspection reports must be placed in the packet on-site and must include the certification number of the third party inspector. The form and content of all third-party inspection reports are subject to review and final acceptance by City of Allen.



**Residential Energy Compliance Certificate - Energy Code  
Requirements of the 2018 IRC (IECC)**  
*(Provide this form at building completion prior to final inspection)*

Project Address: \_\_\_\_\_ Permit Number: \_\_\_\_\_

**DUCT LEAKAGE TESTING VERIFICATION**

**Rough-In Test Option (R403.3.3)**  **Post Construction Option (R403.3.3)**

**System #1 - \_\_\_\_\_ CFM25 System #2 - \_\_\_\_\_ CFM25 System #3 - \_\_\_\_\_ CFM25**

**System #4 - \_\_\_\_\_ CFM25 System #5 - \_\_\_\_\_ CFM25 System #6 - \_\_\_\_\_ CFM25**

I certify that I have conducted a **duct leakage test and it has passed the requirements of the 2018 International Energy Conservation Code**. I further certify that I am certified to perform duct leakage testing certified by national or state organizations as approved by the building official. I certify I am an independent third-party entity, and have not installed the HVAC system; nor am I employed or have any financial interest in the company that constructs the structure.

Agency and Certification Number: \_\_\_\_\_

Signature of Responsible Party: \_\_\_\_\_

Printed Name and Title of Responsible Party: \_\_\_\_\_

**BUILDING THERMAL ENVELOPE LEAKAGE TESTING VERIFICATION**

**Building Thermal Envelope Leakage Testing (R402.4.1.2): \_\_\_\_\_ ACH50**

I certify that I have conducted an **air leakage test and it has passed the requirements of the 2018 International Energy Conservation Code**. I further certify that I am certified to perform air infiltration testing certified by national or state organizations as approved by the building official. I certify I am an independent third-party entity, nor am I employed or have any financial interest in the company that constructs the structure.

Agency and Certification Number: \_\_\_\_\_

Signature of Responsible Party: \_\_\_\_\_

Printed Name and Title of Responsible Party: \_\_\_\_\_

**COMPLIANCE STATEMENT**

**We have concluded all inspections, testing and plan reviews of the above project and hereby declare it in compliance with the residential provisions of the 2018 IECC, as amended, for the selected compliance approach.**

- Option 1(a) **Prescriptive: Sections N1101.14 (R401) through N1104 (R404)**
- Option 1(b) **Prescriptive: REScheck™ UA Approach Only: Sections N1101.14 (R401)-N1104 (R404) (attach report)**
- Option 2 **Performance: Section N1105 (R405) Performance Approach (attach report)**
- Option 3 **ENERGY STAR Certified Homes® (attach certificate)**
- Option 4 **Energy Rating Index Compliance Alternative (ERI): Section N1106 (R406) ERI: \_\_\_\_\_**
- Option 5 **ESL 4ACH<sup>50</sup> Tradeoff Code Equivalency Compliance**

**Agency and Certification Number:** \_\_\_\_\_

**Agency Contact Information:** \_\_\_\_\_

**Signature of Responsible Party:** \_\_\_\_\_

**Printed Name and Title of Responsible Party:** \_\_\_\_\_



# Residential Energy Code Compliance Form

Effective August 27, 2019  
2018 IECC

Builder Name: \_\_\_\_\_ Builder Phone Number: \_\_\_\_\_  
 Builder Address: \_\_\_\_\_ Builder Fax Number: \_\_\_\_\_  
 Construction Address: \_\_\_\_\_ Subdivision: \_\_\_\_\_

### Choose one method of compliance:

Simplified Prescriptive Approach  
\*Fill out remainder of form

Systems Analysis Approach  
\*Attach documentation such as HERS report

Component Performance Approach  
\*Attach documentation such as REScheck check or IC3 Report

Participation in an Approved Energy Performance Testing Program  
\*Attach documentation such as Energy Star

Air Leakage Test Performed per R402.4 IECC 2018

### If you chose 'Simplified Prescriptive Approach,' continue here

IRC 1101.13.1 Simplified Prescriptive for new homes and additions **over** 500 sq. feet

<u>Insulation</u>	<u>Minimum</u>	<u>Installed</u>	<u>Inspection</u>
Ceiling-Attic	R-38	_____	_____
Ceiling-Vaulted	R-22	_____	_____
Walls	20 or 13+5*	_____	_____
Floors	R-19	_____	_____
Basement Walls	R-6	_____	_____
Crawl Space	R-7	_____	_____
HVAC	Min 13	_____	_____
Glazing U-Factor	Max .35	_____	_____
SHGC	Max .25	_____	_____
Glazing Area (%)	Max 50%	_____	_____
Duct Insulation: (Outside Envelope)	R-8	_____	_____

The proposed building represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the requirements of the Energy Code and any amendments in the jurisdiction in which it will be built.

\_\_\_\_\_  
Signature of Builder/Designer

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Date

IRC 1108.1 Simplified Prescriptive for additions **less than** 500 sq. feet

<u>Insulation</u>	<u>Minimum</u>	<u>Installed</u>	<u>Inspection</u>
Ceiling	R-30	_____	_____
Walls	R-13	_____	_____
Floors	20 or 13+5*	_____	_____
Basement Walls	R-8	_____	_____
Crawl Space U-Factor	R-10	_____	_____
Glazing U-Factor	Max .35	_____	_____
SHGC	Max .25	_____	_____
HVAC	Min 13	_____	_____

\* 13 cavity insulation + 5 continuous insulation

Permit Number: _____	Submittal Date: _____
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**City of Allen | Community Development | Building and Code Division**

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[CityofAllen.org](http://CityofAllen.org) • [permits@cityofallen.org](mailto:permits@cityofallen.org)