



**Town of Little Elm Texas**  
**Residential Energy Compliance Path**  
**Energy Code Requirements of the 2018 IRC**  
**(IECC)**  
**Submit with Permit Application**

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

**N1101.13 (R401.2) – Projects shall comply with one of the following:**

- Option #1a – Prescriptive: Sections N1101.14 (R401) through N1104 (R404):**  
 N1102 (R402) Building Thermal Envelope. *{Using table N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT}*  
 N1103 (R403) Systems.  
 N1104 (R404) Electrical Power and Lighting Systems (Mandatory).  
 Plus all mandatory provisions
- Option #1b – Prescriptive-Using REScheck™ UA approach Only: Sections N1101.14 (R401) through N1104 (R404):**  
 N1102 (R402) Building Thermal Envelope.  
 N1103 (R403) Systems.  
 N1104 (R404) Electrical Power and Lighting Systems (Mandatory).  
 Plus all mandatory provisions
- Option #2 – Section N1105 (R405) Performance Approach:** Plus all mandatory provisions
- Option #3 – ENERGY STAR Certified Homes®**
- Option #4 – Section N1106 (R406) Energy Rating Index Compliance Alternative**
- Option #5 – ESL 4ACH<sup>50</sup> Tradeoff Code Equivalency Compliance<sup>a</sup>**

| Envelope Component         | Option #1             | Option #2             |
|----------------------------|-----------------------|-----------------------|
| R402.4 Air Leakage         | < 4ACH <sup>50</sup>  | < 4ACH <sup>50</sup>  |
| Wall Insulation Value      | R13 + R3 <sup>b</sup> | R13 + R3 <sup>b</sup> |
| Fenestration U-factor/SHGC | < 0.32/0.25           | < 0.32/0.25           |
| Ceiling R-value            | > R49                 | > R49                 |
| Duct Insulation            | R8                    | R6                    |
| Radiant Barrier Required   | No                    | Yes                   |

<sup>a</sup> Except for the values listed in the table, all other mandatory code provisions are applicable.

<sup>b</sup> First value is cavity insulation, second is continuous insulation or insulated siding.

**NOTE: Attach appropriate compliance option “compliance report”**

I certify that I have reviewed the construction documents including, but not necessarily limited to, insulation materials and R-values; fenestration U-factors and SHGC values; area-weighted average U-factor and SHGC calculations; mechanical system design criteria; mechanical and service water heating system and equipment types, sizes and efficiencies; equipment and system controls; duct sealing, duct and piping insulation and location; and air sealing details; and that the project as designed satisfies the minimum requirements for the compliance approach selected above.

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

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

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

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



**Town of Little Elm Texas**  
**Residential Energy Compliance Certificate**  
**Energy Code Requirements of the 2018 IRC**  
**(IECC)**

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** - \_\_\_\_\_ **CFM 25 System #3** - \_\_\_\_\_  
**System #4** - \_\_\_\_\_ **CFM25 System #5** - \_\_\_\_\_ **CFM 25 System #6** - \_\_\_\_\_

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 2015 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: \_\_\_\_\_

**PROVIDE THIS FORM AT DOCUMENTAION STEP BEFORE BUILDING FINAL**