



BUILDING INSPECTION DEPARTMENT

ENERGY CODE COMPLIANCE NOTICE

EFFECTIVE SEPTEMBER 1, 2016

Beginning with all new homes permitted September 1, the statewide move to the 2015 energy code will usher in some changes for single family and low-rise (three stories and lower) multifamily construction. The catalyst for these changes is HB 1736, a Texas Association of Builders (TAB) priority bill, passed by the legislature last year. The bill made Texas one of the first states to adopt the energy chapter (Chapter 11) of the 2015 International Residential Code (IRC) and recognized in the 2015 International Energy Conservation Code (IECC). The bill also included some key changes that provide the industry and municipalities flexibility in implementation. The bill also places the burden of compliance on the builders and/or contractors on compliance with the State Energy Code.

NOTE – The Texas Association of Builders (TAB), in partnership with local home builders associations and the State Energy Conservation Office (SECO), has held extensive training around the state since the bill was passed. The training focused on implementation of the bill itself as well as key changes in the 2015 code.

The City of McKinney anticipates adopting the 2015 IRC and the 2015 IECC on April 1, 2017, along with the remaining 2015 International Codes and 2014 National Electrical Code (NEC). Until that date of adoption, and in order to better serve the residential development community, we are providing a State ESL and NCTCOG recognized compliance path and certification form to be completed for all single family and low-rise (three stories and lower) multifamily construction projects submitted on or after September 1, 2016.

These 2 Energy Code forms can be found on our website at the below link and replaces the existing Energy Code Compliance forms on September 1, 2016.

<http://www.mckinneytexas.org/263/Notices>

If you have any questions regarding this notice, please feel free to contact us at 972 547 7400



City of McKinney Texas
Residential Energy Compliance Path
Energy Code Requirements of the 2015 IRC (IECC)

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

Minimum envelope requirements \geq Table 402.1.1 or 402.1.3 – 2009 IECC plus all mandatory provisions

Option #5 – ESL 4ACH⁵⁰ Tradeoff Code Equivalency Compliance^a

Envelope Component	Option #1	Option #2
R402.4 Air Leakage	$\leq 4ACH^{50}$	$\leq 4ACH^{50}$
Wall Insulation Value	$R13 + R3^b$	$R13 + R3^b$
Fenestration U-factor/SHGC	$\leq 0.32/0.25$	$\leq 0.32/0.25$
Ceiling R-value	$\geq R49$	$\geq R49$
Duct Insulation	R8	R6
Radiant Barrier Required	No	Yes

^a Except for the values listed in the table, all other mandatory code provisions are applicable.

^b 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: _____



City of McKinney Texas
Residential Energy Compliance Certificate
Energy Code Requirements of the 2015 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 - _____ 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 2015 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 2015 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 4ACH⁵⁰ 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 BUILDING COMPLETION