



City of Plano
Residential Energy Compliance Path
Energy Code Requirements of the 2015/2018 IRC (IECC) as amended
Submit with application for a building permit



Project Address: _____

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.

Print Name: _____ **Sign Name:** _____ **Date:** _____

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