

City of Dallas
Residential Energy Compliance Path
Energy Code Requirements of the 2015 IRC (IECC)
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 (ERI) 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.

- Option #6 (Multiple Dwelling) – ANSI/RESNET/ICC 301 – 19 Standard using ERI**
Note: The dwelling unit(s) are in compliance provided:
 - a) the building meets with the mandatory requirements of Section R406.2 of the 2018 International Energy Conservation Code;
 - b) the building's thermal envelope is at least equal to the levels of efficiency and solar heat gain coefficient in Table R402.1.2 or Table 402.1.4 of the 2018 International Energy Conservation Code; and
 - c) Energy ratings used must be for the Climate Zone as adopted during the applicable periods from September 1, 2019 and ending September 1, 2031.

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.

COD 3rd Party Provider: _____ **COD Registration #:** _____

Signature of Responsible Party: _____ **Date:** _____

Printed Name and Title of Responsible Party: _____

Effective September 1, 2016
Updated September 1, 2021