

City of Lancaster  
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 Compliance Alternative**  
 Minimum envelope requirements  $\geq$  Table 402.1.1 or 402.1.3 – 2009 IECC  
 Plus all mandatory provisions
  
- Option #5 – ESL 4ACH<sup>50</sup> Tradeoff Code Equivalency Compliance<sup>a</sup>**

| Envelope Component         | Option #5-a           | Option #5-b           |
|----------------------------|-----------------------|-----------------------|
| R402.4 Air Leakage         | $\leq 4ACH^{50}$      | $\leq 4ACH^{50}$      |
| Wall Insulation Value      | R13 + R3 <sup>b</sup> | R13 + R3 <sup>b</sup> |
| 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                   |

<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.

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.

**3<sup>rd</sup> Party Energy Provider Company:** \_\_\_\_\_

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

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