

Town of Sunnyvale
Residential Energy Compliance Path
Energy Code Requirements of the 2021 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 RE 401 (R401) through RE 406 (R404):

RE 402 (R402) Building Thermal Envelope. {Using table R402.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT} RE 403 (R403) Systems.
RE 404 (R404) Electrical Power and Lighting Systems (Mandatory).
Plus all mandatory provisions

Option #1b – Prescriptive-Using REScheck™ UA approach Only: Sections RE 401 (R401) through RE 406 (R404):

RE 402 (R402) Building Thermal Envelope.
RE 403 (R403) Systems.
RE 404 (R404) Electrical Power and Lighting Systems (Mandatory).
Plus all mandatory provisions

Option #2 – Section RE 405 (R405) Performance Approach

Plus all mandatory provisions

Option #3 – ENERGY STAR Certified Homes®

Option #4 – Section RE 406 (R406) Energy Rating Index Compliance Alternative

Minimum envelope requirements \geq Table 406.2 or 406.5 – 2021 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: _____