



## Prescriptive Certificate of Compliance “Cool Roof”: Residential Re-Roof

### Roof Replacement (2016 California Energy Code Prescriptive Alteration Section 150.2 ((b) 1H) for climate zone 13.

“Replacement of the exterior surfaces of existing roofs shall meet the requirements of section 110.8 and the applicable requirements of subsections i and ii where more than 50% of the roof is being replaced”.

- i. Low rise residential roofs with steep-sloped roof. Climatic zones 10 through 15 **shall** have a minimum aged solar reflectance of .20 and a minimum thermal emittance of .075, or a minimum SRI of 16.

#### Exceptions to section 150.2(b)1Hi: Circle the exception to be used if applicable

- a) 1” air space provided between top of roof deck and bottom of roofing product.
  - b) Installed roofing product has a rise to width of 1 to 5 for 50% or greater of the roofing product width.
  - c) Existing ducts are sealed in accordance with section 150.1(c).
  - d) Buildings with at least R-38 ceiling insulation.
  - e) Buildings with a radiant barrier meeting section 150.1(c)2.
  - f) Buildings that have no ducts in the attic.
  - g) In climate zones 10-15 and 14, R-2 or greater insulation above the roof deck.
- ii. Low-sloped roofs in climate zones 13 and 15 **shall** have a 3-year aged solar reflectance equal or greater than .063 and a thermal emittance equal or greater than .075, or a minimum SRI of 75.

#### Exceptions to section 150.2(b)1Hii: Circle the exception to be used if applicable

- a) Buildings with no ducts in the attic.
- b) The aged solar reflectance can be met using insulation at the roof deck specified in table 150.2-B.

**Table 150.2-B Aged Solar Reflectance Insulation Trade off Table**

Aged Solar Reflectance	Roof Deck Insulation R-value	Aged Solar Reflectance	Roof Deck Insulation R-value
0.62-0.60	2	0.44-0.40	12
0.59-0.55	4	0.39-0.35	16
0.54-0.50	6	0.34-0.30	20
0.49-0.45	8	0.29-0.25	24

#### Verification of smoke alarms and carbon monoxide monitors.

In conformance with sections R314.2.2 and R315.2.2 of the 2016 California Residential Code, at the time of inspections for the work being applied for above. The City of Shafter will need to verify that the required smoke alarms and carbon monoxide monitors are installed in the dwelling unit in accordance with sections R314.3 and R315.3 of the 2106 California Residential Code.

Project Address: \_\_\_\_\_

Permit Applicant Name: \_\_\_\_\_

Permit Applicant Signature: \_\_\_\_\_

Date: \_\_\_\_\_