**Mandatory Measures Summary-Residential**

### 2008 Building Envelope Measures:

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<tr>
<th>Site Address:</th>
<th>Enforcing Agency: City of Hanford</th>
<th>Date:</th>
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*NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Forms) shall supersede the item marked with an asterisk (*) below. This Mandatory Measures Summary shall be incorporated into the permit documents and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit this MF-1R Form with the submittal documents.*

### Building Envelope Measures:

- §116(a)1: Doors and Windows between conditioned and unconditioned spaces are manufactured to limit air leakage.
- §116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a).
- §117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.
- §118(a): Insulation specified or installed meets Standards for Insulating Materials. Indicate type and include on CF-6R Form.
- §118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §118(i) when the installation of a Cool Roof is specified on the CF-1R Form.
- *§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-Factor.*
- *§150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.*
- *§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.*
- *§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.*
- §150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95 (2000) when specified on the CF-1R Form.
- §150(g): Mandatory Vapor Barrier installed in Climate Zones 14 or 16.
- §150(l): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.