



# BASIC RE-ROOFING CRITERIA 2010 CBC

**BASIC WIND SPEED: 85 MPH**

**MINIMUM CLASS' B 'ROOFING ASSEMBLY**

- Asphalt shingles: Not more than one (1) overlay of asphalt shingles shall be applied over an existing asphalt or wood shingle roof. Asphalt shingles applied over wood shingles shall not have less than ASTM 226 Type I non-perforated felt underlayment installed prior to reroofing. Section 1510.3 condition #3 2010 CBC.
- Wood shakes: Shall only be used on a slope of 4 units vertical in 12 units horizontal (33% slope) or greater. One layer of 18-inch (457 mm), Type 30 non-perforated felt shall be shingled between each course in such a manner that no felt is exposed to the weather below the shake butts. Section 1507.9.2 and 1507.9.3 2010 CBC.
- Wood shingles: Not more than one (1) overlay of wood shingles shall be applied over existing wood or asphalt shingles. Wood shingles applied over asphalt shingles shall not have less than Type 30 nonperforated felt underlayment installed prior to re-roofing. Section 1510.3 2010 CBC condition #3 2010 CBC.
- Clay and concrete tile: Shall be installed only over solid sheathing or spaced structural sheathing boards and over roofs with a slope of 2-1/2 units vertical in 12 units horizontal (21% slope) or greater over existing roof coverings in accordance with the table shown below. Such installations shall be substantiated by a report prepared by an engineer or architect licensed by the State of California. Tile shall be applied in accordance with the manufacturer's specifications or when the original manufacturer's specifications are no longer available, in accordance with Section 1507.3 2010 CBC Tile may be repaired to match the prior installation except that clay and terra-cotta hips and ridge tile shall be reinstalled with Portland cement mortar. Section 1507.3.4 2010 CBC.
- Metal roof coverings: may be applied over existing roofing in accordance with the Table below. Re-roofing with metal roof covering shall be in accordance with the original manufacturer's specifications or when the original manufacturer's specifications are no longer available as required by Section 1507.5 2010 CBC.
- Flashings: Missing, rusted or damaged flashing and counterflashing, vent caps, and metal edging shall be installed or replaced with new materials. When existing built-up roofs remain, vent flashing, metal edging, drain outlets, metal counterflashing and collars shall be removed and cleaned. All metal allowed to be reinstalled shall be primed prior to reroofing installation. Collars and flanges shall be flashed per the roofing manufacturer's instructions. Section 1510.6 2010 CBC.

**Inspection:** All installations of additional roof coverings over existing roof coverings shall be inspected by the City Building Inspector prior to application of any additional roof coverings. **Maximum installed Roof Coverings is 2.**

	NEW OVERLAY ROOFING MATERIAL TYPE [min. slope]								
	Built up Roof	Wood Shake	Wood Shingle	Asphalt Shingle	Tile Roof	Metal Roof	Modified Bitumen	Spray Polyurethane Foam	Thermoplastic Single-ply
<b>Existing Roofing</b>	2%	4 in 12	3 in 12	2 in 12	2.5 in 12	Manuf.	2%	2%	2%
<b>Built up</b>	Yes <sup>2</sup>	NP <sup>1</sup>	Yes <sup>2,4</sup>	Yes <sup>5,6</sup>	Yes	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes	Yes
<b>Wood Shake</b>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Wood Shingle</b>	NP <sup>1</sup>	NP <sup>1</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes <sup>2,3</sup>	Yes <sup>2,3</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Asphalt Shingle</b>	NP <sup>1</sup>	Yes <sup>2,4</sup>	Yes	Yes <sup>5,6</sup>	Yes <sup>2,3</sup>	Yes	Yes	NP <sup>1</sup>	NP <sup>1</sup>
<b>Asphalt over Wood</b>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Asphalt over Asphalt</b>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Tile Roof</b>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Metal Roof</b>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>	NP <sup>1</sup>
<b>Modified Bitumen</b>	Yes <sup>2</sup>	NP <sup>1</sup>	Yes <sup>5,6</sup>	Yes <sup>2,3</sup>	Yes <sup>2</sup>	Yes <sup>2</sup>	Yes	Yes	Yes

**ALL INSTALLATIONS MUST COMPLY WITH THE MANUFACTURER'S SPECS. AND INSTALL STANDARDS AND MEET A MINIMUM CLASS "B" ASSEMBLY CRITERIA**

- NP = Not permitted.
- Engineering is required for these applications.
- Where the application of new roof covering over wood shingle or shake roofs creates a combustible concealed space, the entire existing surface shall be covered with gypsum board, mineral fiber, glass fiber or other approved materials securely fastened in place. Section 1510.4 2010 CBC.
- Interlayment for both wood shakes and shingles shall comply with ASTM 226 type I (15# felt) Note: ASTM 226 type II is 30# non-perforated felt.
- Underlayment shall comply with ASTM 226 TYPE I or ASTM D 4869 (15 # felt) Where the roof slope is between 2 in 12 and 4 in 12.
- Where the roof slope is between 2 in 12 and 4 in 12 two layers are required starting with a 19" wide strip at the eaves followed by 19" overlaps with 36' wide courses.