

WILDLAND URBAN INTERFACE - ROOFING, VENTS & EXTERIORS

2025 CA WUI Code, Section 504: Roofing, Vents, Exterior Coverings, Exterior Windows & Exterior Doors

Roofing shall be a Class A assembly (ASTM E108 or UL 790) installed in accordance with its listing and the manufacturer's installation instructions. (504.2). See CRC R902 for Class A Roofing requirements.

Valley flashing (where installed) shall not be less than No. 26 gage galv sheet corrosion resistant metal installed over minimum 72-lb mineral-surfaced nonperforated cap sheet (ASTM D3909) at least 36-inch wide running the full length of the valley. (504.2.2)

Vents shall be Wildfire Flame and Ember Resistant approved and listed by the CA State Fire Marshal, or WUI vents tested to ASTM E2886 and listed (applies to all vents including eave, gable, underfloor, etc.).

Vents on roof surface shall be covered with a mesh where dimensions are minimum of 1/16 inch, and not to exceed 1/8 inch diameter.

Vents and mesh shall be noncombustible, corrosion-resistant. Gable-end and dormer vents shall be not less than 10 ft from lot lines. (504.10)

Glazing Materials in Exterior Windows, Window Walls and Glazed Doors, Windows within Exterior Doors, and Skylights, shall be constructed of any of the following:

1. Multi-layered glazed panels with at least one tempered pane complying with CBC 2406.
2. Glass block.
3. Glazing with fire protection rating of not less than 20 minutes per NFPA 257 or UL 9
4. Glazing meeting SFM Standard 12-7A-2.

(504.8)

Exterior Doors shall be constructed in accordance with any of the following:

1. Noncombustible construction.
2. Solid-core wood not less than 1-3/4 inches thick.
3. Solid Core; Stiles and rails not less than 1-3/8 in thick; Panels not less than 1-1/4 in thick with perimeter taper to not less than 3/8 in thick.
4. Fire protection rating not less than 20 minutes per NFPA 252, UL 10B or UL 10C.
5. Exterior surface or cladding meeting 504.9.3 when tested to ASTM E2707.
6. Exterior surface or cladding tested to SFM Standard 12-7A-1.

Windows within doors and glazed doors shall comply with 504.8. (504.9)

Roofing profiles with an airspace under shall have a 72 lb cap sheet complying with ASTM D3909 when installed over a combustible roof deck.

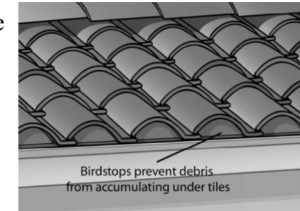
Bird Stops shall be used at the eaves to prevent debris. Hip and ridge caps shall be mudded in to prevent intrusion of fire or embers. (504.2.1.1)

Exterior Wall Coverings

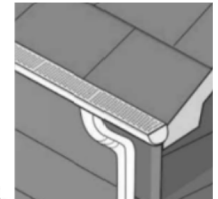
shall comply with one or more of the following:

1. Noncombustible material.
2. Ignition-resistant material labeled for exterior use.
3. Fire-retardant-treated wood complying with CBC 2303.2.
4. An exterior wall assembly complying with 504.5. (504.5.2)

Flashing min. 6" at ground, decking and roof intersections.



Roof Gutters shall be noncombustible and provided with means to prevent accumulation of leaves and debris in the gutter. (504.4)



Exterior Garage Doors shall resist the intrusion of embers by preventing gaps at the bottom, sides and tops of doors, from exceeding 1/8 inch. Gap control methods: weather-stripping; overlaps; metal flashing. (504.9.2)