

R337.5.2 Roof coverings. Where the roof profile allows a space between the roof covering and roof decking, the spaces shall be constructed to resist the intrusion of flames and embers, be firestopped with approved materials or have one layer of minimum 72 pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking.

R337.5.3 Roof valleys. Where valley flashing is installed, the flashing shall be not less than 0.019-inch (0.48 mm) No. 26 gage galvanized sheet corrosion-resistant metal installed over not less than one layer of minimum 72-pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909, at least 36-inch-wide (914 mm) running the full length of the valley.

R337.5.4 Roof gutters. Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter.

SECTION R337.6 VENTS

R337.6.1 General. Where provided, ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation shall be in accordance with Section 1203 of the California Building Code and Sections R337.6.1 through R337.6.3 of this section to resist building ignition from the intrusion of burning embers and flame through the ventilation opening.

R337.6.2 Requirements. Ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation openings shall be fully covered with metal wire mesh, vents, other materials, or other devices that meet one of the following requirements:

1. Vents shall be listed to ASTM E2886 and comply with all of the following:
 - 1.1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
 - 1.2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.
 - 1.3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).
2. Vents shall comply with all of the following:
 - 2.1. The dimensions of the openings therein shall be a minimum of $1/16$ inch (1.6 mm) and shall not exceed $1/8$ inch (3.2 mm).
 - 2.2. The materials used shall be noncombustible.

Exception: Vents located under the roof covering, along the ridge of roofs, with

the exposed surface of the vent covered by noncombustible wire mesh, may be of combustible materials.

- 2.3. The materials used shall be corrosion resistant.

R337.6.3 Ventilation openings on the underside of eaves and cornices. Vents shall not be installed on the underside of eaves and cornices.

Exceptions:

1. Vents listed to ASTM E2886 and complying with all of the following:
 - 1.1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
 - 1.2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.
 - 1.3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).
2. The enforcing agency shall be permitted to accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.
3. Vents complying with the requirements of Section R337.6.2 shall be permitted to be installed on the underside of eaves and cornices in accordance with either one of the following conditions:
 - 3.1. The attic space being ventilated is fully protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 of the California Building Code or,
 - 3.2. The exterior wall covering and exposed underside of the eave are of noncombustible material, or ignition-resistant materials, as determined in accordance with SFM Standard 12-7A-5 Ignition-Resistant Material the requirements of Section R337.4.3, and the vent is located more than 12 feet (3.66 m) from the ground or walking surface of a deck, porch, patio, or similar surface.

SECTION R337.7 EXTERIOR COVERING

R337.7.1 Scope. The provisions of this section shall govern the materials and construction methods used to resist building ignition and/or safeguard against the intrusion of flames resulting from small ember and short-term direct flame contact exposure.

R337.7.2 General. The following exterior covering materials and/or assemblies shall comply with this section:

1. Exterior wall covering material.