



PROJECTS LOCATED WITHIN A FIRE HAZARD SEVERITY ZONE

This document is intended to highlight the requirements for projects located within a Fire Hazard Severity Zone in accordance with CRC Section R337 and/or CBC Chapter 7A. This list is only a summary of key requirements. Refer to the CRC and CBC for additional information. Do not deviate from these requirements without prior approval from the Building Inspection Division and/or the Fire Department.

Roof covering

1. Very-High Fire Hazard Severity Zone - Class A, High Fire Hazard Severity Zone - Class B, Moderate Fire Hazard Severity Zone - Class C or approved noncombustible material (metal, concrete tile, etc.)
2. If the roof covering has a profile that creates a space between the roof covering and decking, the space shall be firestopped or have one layer of 72 pound mineral-surfaced nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking.

Valley flashing

1. When installed, valley flashing shall not be less than 26 gage galvanized sheet metal installed over a minimum 36-inch-wide underlayment of one layer of 72 pound mineral-surfaced nonperforated cap sheet running the full length of the valley.

Vents (attics and foundation)

1. Not permitted on the underside of eaves, soffits, cornices, or overhanging areas unless special vents comply with ASTM E2886 and are approved by the building official
2. Protected with noncombustible corrosion resistant metal wire screens with 1/16" minimum and 1/8" maximum openings

Spark arresters on chimneys

1. Heat and corrosion resistant wire mesh (12 gage minimum) with 3/8" minimum and 1/2" maximum openings

Underfloor areas and decks/appendages

Note: Structural columns and beams do not require protection when they are constructed with sawn lumber or glue laminated wood with the smallest minimum nominal dimension of 4 inches. Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked.

1. Enclosed to the ground with approved exterior finish, or
2. The exposed underfloor shall consist of noncombustible material, or ignition-resistant material, or
3. One layer of 5/8" type X gypsum sheathing behind an exterior covering on the underside of the floor, or
4. Conform to SFM Standard 12-7A-3, or
5. Conform with ASTM E2957

Open roof eaves

Note: Gable end overhangs are exempt.

1. Exposed roof deck shall be noncombustible material, or ignition-resistant material, or
2. One layer of 5/8" type X gypsum sheathing behind an exterior covering on the underside exterior of the roof deck.
3. Exposed rafter tails and blocking shall be minimum 2 inch nominal.

Enclosed roof eaves, soffits, and exterior porch ceilings

Note: Gable end overhangs are exempt.

1. Enclosed with noncombustible material, or ignition-resistant material, or
2. One layer of 5/8" type X gypsum sheathing behind an exterior covering on the underside of the rafter tails or porch ceiling, or
3. Conform to SFM Standard 12-7A-3, or
4. Conform with ASTM E2957

Exterior walls

1. Noncombustible material, or ignition resistant material, or
2. Sawn lumber or glue-laminated wood with the smallest minimum nominal dimension of 4 inches. Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked, or
3. Log wall construction (6 inch minimum thickness), or
4. Assembly tested in accordance with ASTM E2707 with the conditions of acceptance per CBC 707A.3.1/CRC R337.7.3.1, or
5. Conform to SFM Standard 12-7A-1, or
6. Any material installed over one layer of 5/8" Type X gypsum sheathing

Surface material for decks, balconies, porches, and stairs

1. Material that meets the performance requirements when tested per ASTM E2632 and ASTM E2726, or
2. Ignition-resistant material that meets the performance requirements when tested per ASTM E84 or UL 723, or
3. Noncombustible material, or
4. Exterior fire-retardant treated wood, or
5. Conform to both SFM Standard 12-7A-4 and 12-7A-5, or
6. Any material that complies with SFM 12-7A-4A when attached exterior wall covering is also of noncombustible or ignition-resistant material, or
7. Any material that complies with CBC 709A.5/CRC R337.9.5 when tested per ASTM E2632 and when attached exterior wall covering is also composed of only non-combustible or ignition-resistant materials.

Exterior windows and glazed openings in exterior doors and garage doors

1. Multipane glazing with at least one pane of tempered glass, or
2. Glass block units, or
3. Have a fire rating of at least 20 minutes, or
4. Conform to SFM Standard 12-7A-2
5. Operable skylights shall be protected by a noncombustible mesh screen where the dimensions of the openings do not exceed 1/8".

Exterior doors and garage doors

1. Solid core with stiles and rails not less than 1 3/8" thick and raised panels not less than 1 1/4" thick except the exterior perimeter may taper to a tongue not less than 3/8" thick, or
2. Noncombustible or ignition-resistant material, or
3. Have a fire-resistance rating of at least 20 minutes, or
4. Conform to SFM Standard 12-7A-1
5. Garage doors shall resist the intrusion of embers by limiting gaps between doors and door openings to a maximum of 1/8" by one of the following methods:
 - a. Weather stripping products made of materials that have been tested for tensile strength in accordance with ASTM D638 after exposure to ASTM G155 for a period of 2,000 hours, where the maximum difference in tensile strength values between exposed and nonexposed does not exceed 10%. Products must also exhibit a V-2 or better flammability rating when tested to UL 94.
 - b. Door overlaps onto jambs and headers.
 - c. Garage door jambs and headers covered with metal flashing.

Gutters and downspouts

1. Shall be provided with a means to prevent the accumulation of leaves and debris.

Detached accessory structures

1. Structures located within 50 feet of an applicable building must comply with the requirements listed herein.

Water supply for fire protection

1. Water tank with a minimum capacity of 3,500 gallons, and
2. Tank must be within 200 feet of the structure, and
3. Tank must have a 2 1/2" valved male outlet with fire hose threads (National Standard Thread) with an automatic fill device and level indicator, and
4. Fire vehicles must be able to drive to the hose connection on the tank, **OR**
 - a. Install a fire hydrant within 330 feet of the structure, and
 - b. Minimum hydrant flow shall be 500 GPM at 20 PSIG

Access (driveway to structure and water supply)

1. Minimum of 12 feet wide with minimum 15 feet of vertical clearance, and
2. Maximum slope of 15%, and
3. Provide an approved turnaround when a dead-end driveway exceeds 150 feet

Address

1. Address numbers shall be posted and visible from the street prior to construction.