

VERY HIGH FIRE HAZARD SEVERITY ZONE

GENERAL REQUIREMENTS

Buildings/structures erected, constructed, altered, repaired or moved within or into a Very High Fire Hazard Severity Zone shall comply with the following requirements. (701A.3;R327.1.3)

Paints, coatings, stains or other surface treatments are NOT AN APPROVED method of protection required in Chapter 7A / Section R327. (703A.5.3)

ROOFING

1. Roof covering shall be Class A as specified in Section 1505.2/R902. (705A.2;R327.5.2)
2. Detail the space between the roof covering and roof decking; the spaces shall be constructed to prevent the intrusion of flames and embers, or provide one layer of 72 pound mineral-surfaced nonperforated cap sheet meeting ASTM D3909. (705A.2;R327.5.2)
3. Wood-shingle and wood-shake roofs are PROHIBITED regardless of classification. (705A.2;R327.5.2)
4. Valley flashings shall be not less than 0.019-inch (No. 26 galvanized sheet gage) corrosion-resistant metal installed over a 36-in. wide underlayment consisting of one layer of 72 pound mineral-surfaced nonperforated cap sheet meeting ASTM D3909 running the full length of the valley. (705A.3;R327.5.3)
5. Note on Plans "Roof gutters shall be design to prevent the accumulation of leaves and debris." (705A.4;R327.5.4)

VENTS

6. Vent openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces, and underfloor vents shall resist building ignition from the intrusion of burning embers and flame through the vent openings. Vent openings shall be protected by corrosion resistant, noncombustible wire mesh with min. 1/16" and max. 1/8" openings. (706A.2;R327.6.2)
7. Vents shall NOT be installed on underside of eaves and cornices unless the conditions set forth in Section 706A.3.2 or R327.6.3 are met. (706A.3;R327.6.3)

EXTERIOR WALLS

8. Exterior wall covering or wall assembly shall comply by meeting one of the following:
 - a. Noncombustible construction OR
 - b. Ignition resistant material OR
 - c. Heavy Timber construction OR
 - d. Log wall construction OR
 - e. Complies with SFM 12-7A-1 (707A.3;R327.7.3)

OPEN ROOF EAVES

9. Exposed roof deck on the underside of unenclosed roof eaves shall consist of one of the following:
 - a. Noncombustible material
 - b. Ignition-resistant material
 - c. One layer of 5/8" Type X applied behind an exterior covering on the underside exterior of roof deck
 - d. Exterior portion of a 1-hr fire resistive exterior wall assembly applied to the underside of roof deck designed for exterior fire exposure per Gypsum Association Fire Resistance Design Manual (707A.4;R327.7.4)

ENCLOSED ROOF EAVES AND ROOF EAVES SOFFITS

10. Exposed underside shall be protected by one of the following:
 - a. Noncombustible material
 - b. Ignition-resistant material
 - c. One layer of 5/8" Type X applied behind an exterior covering on the underside of the rafter tails or soffit

- d. Exterior portion of a 1-hr fire resistive exterior wall assembly applied to the underside of rafter tails or soffit per Gypsum Association Fire Resistance Design Manual
- e. Boxed-in roof eave soffit assemblies complying with SFM 12-7A-3 (707A.5;R327.7.5)

EXTERIOR PORCH CEILINGS

11. Exposed underside shall be protected by one of the following:
- a. Noncombustible material
 - b. Ignition-resistant material
 - c. One layer of 5/8" Type X applied behind an exterior covering on the underside of the ceiling
 - d. Exterior portion of a 1-hr fire resistive exterior wall assembly applied to the underside of the ceiling assembly per Gypsum Association Fire Resistance Design Manual
 - e. Porch ceiling assemblies with a horizontal underside complying with SFM 12-7A-3 (707A.6;R327.7.6)

FLOOR PROJECTIONS / UNDERFLOOR PROTECTION / UNDERSIDE OF APPENDAGES

12. Exposed underside shall be protected by one of the following:
- a. Noncombustible material
 - b. Ignition-resistant material
 - c. One layer of 5/8" Type X applied behind an exterior covering on the underside of the floor projection
 - d. Exterior portion of a 1-hr fire resistive exterior wall assembly applied to the underside of the floor assembly per Gypsum Association Fire Resistance Design Manual
 - e. Underside of a floor assembly complying with SFM 12-7A-3
 - f. Heavy timber structural columns and beams is allowed for underfloor protection and underside appendages only. (707A.7-9;R327.7.7-9)

EXTERIOR WINDOWS AND DOORS

13. Exterior glazing shall be MULTI-PANE units with a minimum of ONE TEMPERED PANE, or glass block units, or minimum 20-min. rated or complies with SFM 12-7A-2 (708A;R327.8.2.1)
14. Exterior doors shall meet one of the following:
- a. Noncombustible material OR
 - b. Ignition-resistant material OR
 - c. Solid core wood having stiles and rails not less than 1-3/8-in. thick with interior panel thickness not less than 1-1/4-in. thick. OR
 - d. Minimum 20-min. rated OR
 - e. Complies with SFM 12-7A-1 (708A;R327.8)

DECKING

15. Walking surface material of decks, porches, balconies and stairs shall be constructed with one of the following materials when any portion of such surface is within 10 feet of the building:
- a. Ignition-resistant material that complies with SFM 12-7A-4 and 12-7A-5
 - b. Exterior fire retardant treated wood
 - c. Noncombustible material
 - d. Complies with SFM 12-7A-4A when attached exterior wall covering is also either noncombustible or ignition-resistant material. (709A;R327.9)

ACCESSORY STRUCTURES

16. When any portion of an attached or detached accessory structure (trellises, arbors, patio covers, carports, gazebos and similar structures of an accessory or miscellaneous character within 50 ft of an applicable building shall be constructed of:
- a. Noncombustible materials OR
 - b. Ignition-resistant materials OR
 - c. Heavy timber construction (710A;R327.10)