



# COUNTY OF RIVERSIDE BUILDING AND SAFETY DEPARTMENT

## WILDLAND-URBAN INTERFACE FIRE AREA COMPLIANCE GUIDELINES

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Director

### 2007 CALIFORNIA BUILDING CODE CHAPTER 7A

Per California Building Code Section 701A.3.2 “New building located in any fire hazard severity zone or Wildland-Urban Interface Fire Area on or after January 1, 2008 shall comply with all sections of Chapter 7A.”

Please complete and incorporate the following checklist into construction documents to demonstrate that the proposed materials comply with these requirements.

All materials shall bear identification showing the fire performance rating thereof. That identification shall be issued by ICC-ES or a testing facility recognized by the State Fire Marshall having a service for inspection of materials at the factory.

**Field inspector shall verify and identify material prior to being covered or concealed.**

#### **701A.3.2 VEGETATION CLEARANCE (Riverside County Fire Planning)**

**701a.3.2.4** Provide documentation (on plot plan, or landscape plan) of compliance with PRC 4291 and Government Code 51182. **Fire Department clearance is required prior to permit issuance. You may contact Fire Planning at (951) 955-4777.**

#### **704A.1 ROOFING**

**704A.1.2** Roof Coverings: Class A minimum, wood roofs not allowed.

Is space proposed between the roof covering and roof decking? (example: clay S tile)  Yes  No

If yes, the spaces shall be constructed to prevent the intrusion of flames and embers, and be fire stopped with approved materials. Or have one layer of No. 72 ASTM cap sheet installed over the combustible decking. Provide detail for method of compliance, incorporate into plans and provide reference to detail location: \_\_\_\_\_.

#### **704A.1.3 Roof Valleys:**

Assume shingle overlap proposed in valleys (woven valley, comp roof only) – please verify.  Yes  No

If a metal flashing will be incorporated in valleys, it shall be not less than 0.019-inch (0.48 mm)(No. 26 galvanized sheet gage) corrosion-resistant metal installed over a minimum 36-inch wide underlayment consisting of one layer of No. 72 ASTM cap sheet running the full length of the valley. Provide detail and/or notation on section drawing(s) of plans and provide reference to detail/specification location: \_\_\_\_\_.

#### **704A.1.5 Roof gutters:**

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

Indicate where specification has been incorporated into drawings: \_\_\_\_\_.

#### **704A.2 ATTIC VENTILATION**

Define and detail how attic will be vented.

**704A.2.2** Eave or Cornice Vents: Vents shall not be installed in eaves and cornices, unless they resist the intrusion of flame and burning embers into the attic area of the structure.

If eave vents are proposed:

Detail/indicate how proposed vents will resist the intrusion of flame & embers into attic area of the structure.

If a non-vented roof system is proposed:

Provide manufacturer’s specifications and detailing for non-vented system, including air and water permeability testing data.

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**704A.2.3 Eave Protection**

Eaves meet SFM 12-7A-3  Yes  No

If yes, specify product Company Name, Product Description, Test Protocol and Flame Spread:

\_\_\_\_\_. Listed in SFM Handbook?  Yes  No (provide test data)

OR, protect by ignition-resistant materials or noncombustible construction on the exposed underside.  Yes  No

If yes, provide detail/specifications for material and installation. Provide reference to detail/specification location on drawings: \_\_\_\_\_.

**704A.3 EXTERIOR WALLS** (Exterior walls shall be approved noncombustible or ignition-resistant material, heavy timber or log wall construction or shall provide protection in accordance with standard SFM 12-7A-1.) *Check all that apply.*

**704A.3.1 Exterior walls:**

Noncombustible (Verify and document compliance with definition per CBC 202 – ASTM 136)

Heavy Timber  Log Wall Construction  Ignition –Resistant Material (per CBC 702A Definition)

Standard SFM 12-7A-1

If so, specify product Company Name, Product Description, Test Protocol and Flame Spread:

\_\_\_\_\_. Listed in SFM Handbook?  Yes  No (provide test data)

**704A.3.1.1** Exterior wall coverings shall extend from the top of the foundation to the roof, and terminate at 2-inch nominal solid wood blocking between rafters at all roof overhangs, or in the case of enclosed eaves, terminate at the enclosure.

Specify where notation has been detailed/noted on plans: \_\_\_\_\_.

**704A.3.2.1** Exterior Wall Vent openings (such as gable end attic vents or under floor vents) shall resist the intrusion of flame and embers into the structure or vents shall be screened with a corrosion-resistant, noncombustible wire mesh with 1/4 –inch openings or its equivalent.

Specify where notation has been detailed/noted on plans: \_\_\_\_\_.

**704A.3.2.2** Exterior glazing and window walls

Windows, window walls, glazed doors and glazed openings within exterior doors shall conform to one of the following (*Check all that apply*):

Insulating-glass units with a minimum of one tempered pane OR  Glass block units OR

Fire-resistance rating of not less than 20 minutes, when tested according to ASTM E 2010 OR

Performance requirements of SFM 12-7A-2

If so, specify product Company Name, Product Description, Test Protocol and Flame Spread:

\_\_\_\_\_. Listed in SFM Handbook?  Yes  No (Provide test data)

**704A.3.2.3 Exterior door assemblies.**

Exterior door assemblies (including garage doors) shall comply with one of the following (*check all that apply*):

Performance requirements of standard SFM 12-7A-1

If so, specify product Company Name, Product Description, Test Protocol and Flame Spread:

\_\_\_\_\_. Listed in SFM Handbook?  Yes  No (Provide report)

Approved noncombustible construction (document compliance with definition per CBC 202 – ASTM 136)

Solid core wood having stiles and rails not less than 1 3/8 inches thick with interior field panel thickness no less than 1 1/4-

Inches thick

Fire-resistance rating of not less than 20 minutes when tested according to ASTM E 2074

Garage doors exempt from requirement if:

Noncombustible  Exterior fire-retardant treated wood doors

Indicate location on plans where garage door requirements have been specified: \_\_\_\_\_.

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**704A.4 DECKING, FLOORS AND UNDERFLOOR PROTECTION** *(The use of paints, coatings, stains, or other surface treatments are not an approved method of protection as required in this chapter.)*

**704A.4.1 Decking Surfaces** (Decking, surfaces, stair treads, risers, and landings of decks, porches and balconies where any portion of such surface is within 10 feet of the primary structure)

Decking surfaces shall comply with one of the following methods:

Constructed of ignition-resistant materials and pass the performance requirements of SFM 12-7A-4, Parts A and B  
If so, specify product Company Name, Product Description, Test Protocol and Flame Spread:

\_\_\_\_\_. Listed in SFM Handbook?  Yes  No (provide report)

Constructed with heavy timber, exterior fire-retardant-treated wood or approved noncombustible materials

Document compliance with definition per CBC 202 – ASTM 136

Performance requirements of SFM 12-7A-4, Part A, 12-7A-4.7.5.1 only with a net peak heat release rate of 25kW/sq-ft for a 40 minute observation period and material shall pass accelerated weathering test & be identified as exterior type (ASTM E 84) and exterior wall covering where deck is attached and within 10 feet of the deck shall be constructed of approved noncombustible or ignition resistant material OR

Performance requirements of SFM 12-7A-4, Part A, 12-7A-4.7.5.1 only with a net peak heat release rate of 25 kW/sq-ft for a 40 minute observation period and material shall pass accelerated weathering test and be identified as exterior type (ASTM # 84) and decking surface conforms to ASTM E-84 Class B flame spread (Provide test data)

**704A.4.2 UNDERFLOOR AND APPENDAGES PROTECTION**

**704A.4.2.1** Underside of appendages and floor projections shall comply with one of the following:

Maintain ignition-resistant integrity of exterior walls at underside of cantilevered, overhanging appendages and floor projections.

Provide detail and reference location on plans where detail may be found \_\_\_\_\_.

Projection(s) shall be enclosed to the grade

Indicate location on plans where requirements have been specified: \_\_\_\_\_.

**704A.4.2.2** Unenclosed under floor protection

All under floor areas enclosed to the grade with exterior walls per 704A.3. OR

Underside of all exposed floors, exposed structural columns, beams and supporting walls are protected as required with exterior ignition-resistant material construction OR

Underside of all exposed floors, exposed structural columns, beams and supporting walls are heavy timber

**704A.5 ANCILLARY BUILDINGS AND STRUCTURES**

**704A.5.1** Ancillary buildings and structures. When required by the enforcing agency, ancillary buildings and structures and detached accessory structures shall comply with the provisions of this chapter.

Additions and alterations to dwellings and or detached accessory structures (requiring permits) located within a Wildland-Urban Interface Fire Area as defined in Section 702.A will be subject to the requirements of Chapter 7A of the 2007 California Building Code.

Examples: (1) Window replacement to an existing dwelling in a Wildland-Urban Interface Fire Area, based on Section 704A.3.2.2, will require a permit in order to verify the required minimum of one tempered pane.

(2) A detached garage or barn located in a Wildland-Urban Interface Fire Area, based on Section 704A.5; the structure will be subject to the requirements of 7A.