



## Development Service Center

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## WUI Fire Conformance Checklist

### 2019 CBC Chapter 7A and CRC Section R337 Wildland-Urban Interface (WUI) Fire Conformance Checklist

(Paints, coatings, stains, or other surface treatments are not an approved method of protection as required in this chapter)

#### APPLICABILITY:

- New residential building
- New commercial building

#### Exceptions:

1. Group U accessory buildings not exceeding 120 S.F. in floor area when located at least 30' from an applicable building.
2. Group U accessory buildings of any size located at least 50' from an applicable building.
3. Additions and remodels to buildings permitted before July 1, 2008.

(Applicable building includes all buildings that have residential, commercial, educational, institutional or similar use.)

Per CBC 701A.4 and CRC R337.1.4 *"The local building official shall, prior to construction, provide the owner or applicant a certification that the building as proposed to be built complies with... all WUI materials and construction methods for wildfire exposure."* Plans "Approved" by the Building Division demonstrate compliance with this requirement.

#### USE THE FOLLOWING CHECKLIST TO VERIFY COMPLIANCE WITH WUI 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 to verify identification prior to it being covered and/or concealed\*\*)

#### **VEGETATION MANAGEMENT COMPLIANCE - CBC 701A.5 and CRC R337.1.5**

Provide documentation (on plot plan or landscape plan) of compliance with PRC 4291.

(Suggest scheduling design/pre-construction meeting with the Fire Marshall to review/clarify what their requirements will be for your particular parcel/project.)

- Plans shall specify and demonstrate requirement to maintain fire break:
  - Remove and clear away all flammable vegetation or combustible growth for 30 feet from each side of building
  - Remove any tree limbs within 10 feet of chimney outlet
  - Eliminate any dead wood from trees overhanging building. Maintain the roof to be free of leaves, needles or dead vegetation
- Inspection and written approval by the Fire Marshall shall be obtained prior to final of the building permit (Fire Marshall to sign inspection card)

#### **ROOFING - CBC 705A and CRC R337.5**

##### **CBC 705A.2, CRC R337.5.2 Roof Coverings:**

Is space proposed between the roof covering and roof decking? \_\_\_ Yes \_\_\_ No

If yes, the spaces shall be constructed to prevent the intrusion of flames and embers, be firestopped 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.

##### **CBC 705A.3, CRC R337.5.3 Roof Valleys:**

- Assume shingle overlap proposed in valleys – Please verify.
- Or, if 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 plans.

#### **CBC 705A.4, CRC R337.5.4 Roof Gutters:**

- Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter. Provide detail and/or notation on plans.

#### **VENTS - CBC 706A.3 and CRC R337.6.3**

**Eave vents** shall not be installed on the underside of eaves unless they resist the intrusion of flame and burning embers into the attic/rafter bay area of the structure.

#### **If vented roof system is proposed:**

- Plans shall define and detail how attic and/or rafter bays will be vented, i.e. gable end vents, eave vents, ridge vent(s)
- Detail/indicate how proposed eave vents will resist the intrusion of flame and embers into attic/rafter bay area of the structure. (Specify product Company Name/ Description on the drawings). \_\_\_ Listed by SFM \_\_\_ Approved by Building Official, OR The vents are located more than 12 feet from the ground or walking surface of a deck, porch, patio or similar surface; the vent materials are noncombustible, corrosion resistant and the dimensions of the openings are min. 1/16-inch and do not exceed 1/8-inch. The exterior wall covering, and exposed underside of the eave are of noncombustible material, or ignition-resistant material (per SFM Standard 12-7A-5 Ignition Resistant material), OR The attic space being ventilated is fully protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1. (Document on plans and provide notation to sprinkler designer of requirement).

#### **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.

#### **EXTERIOR COVERINGS – CBC 707A and CRC R337.7**

**CBC 707A.3, CRC R337.7.3 Exterior walls:** Exterior wall coverings or wall assemblies shall comply with one of the following.

Check all that apply:

- Noncombustible material (verify and document compliance with definition per CBC 202, CRC R202 – ASTM E136)
- Ignition-resistant material (per CBC 702A and CRC R337.2)
- Sawn lumber or glue-laminated wood with the smallest minimum nominal dimension of 4". Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked.
- Log Wall construction assembly.
- Standard SFM 12-7A-1 (Specify product Company Name/ Description/ Test Protocol/ Flame Spread on the Drawing(s). Listed in SFM Handbook? \_\_\_ Yes \_\_\_ No (provide test data)
- One layer of 5/8" Type X gypsum sheathing applied behind the exterior covering or cladding on the exterior side of the framing
- The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual

**CBC 707A.3.1, CRC R337.7.3.2 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.

- Provide detail for method of compliance; incorporate into plans.

**CBC 707A.4, CRC R337.7.4 Open roof eaves** (Solid wood rafter tails on the exposed underside of open roof eaves having a min. nominal dimension of 2", solid wood blocking installed between rafter tails on the exposed underside of open roof eaves having a minimum nominal dimension of 2", gable end overhangs and roof assembly projections beyond an exterior wall other than at the lower end of the rafter tails, fascia and other architectural trim boards are exempt from requirements).

**Proposing open roof eaves?** \_\_\_Yes \_\_\_No

If yes, identify roof eave compliance method. The exposed roof deck on the underside of unenclosed roof eaves shall consist of the following - Check all that apply:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind an exterior covering on the underside exterior of the roof deck

The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the roof deck designed for exterior fire exposure including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design manual.

**CBC 707A.5, CRC R337.7.5 Enclosed roof eaves and roof eave soffits** (Gable end overhangs and roof assembly projections beyond an exterior wall other than at the lower end of the rafter tails and fascia and other architectural trim boards are exempt from requirement).

**Proposing enclosed eaves?** \_\_\_Yes \_\_\_No

If yes, the exposed underside of enclosed roof eaves having either a boxed-in roof eave soffit with a horizontal underside, or sloping rafter tails with an exterior covering applied to the underside of the rafter tails, shall be protected by one of the following:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind an exterior covering on the underside of the rafter tails or soffit
- The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the rafter tails or soffit including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual
- Boxed-in roof eave soffit assemblies with a horizontal underside that meet the performance criteria in accordance with the test procedures set forth in SFM Standard 12-7A-3.

**CBC 707A.6, CRC R337.7.6 Exterior porch ceilings** (Except architectural trim boards)

The exposed underside of exterior porch ceilings shall be protected by one of the following:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind the exterior covering on the underside of the ceiling.
- The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the ceiling assembly including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design manual.
- Porch ceiling assemblies with a horizontal underside that meet the performance criteria in accordance with the test procedures set forth in SFM Standard 12-7A-3.

**CBC 707A.7, CRC R337.7.7 Floor projections** (except architectural trim boards)

The exposed underside of a cantilevered floor projection where a floor assembly extends over and exterior wall shall be protected by one of the following:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.

- The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the floor projection including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design manual.
- The underside of a floor projection assembly that meets the performance criteria in accordance with the test procedures set forth in SFM Standard 12-7A-3.

**CBC 707A.8, CRC R337.7.8 Underfloor protection** (heavy timber structural columns and beams do not require protection)

The underfloor area of elevated or overhanging buildings shall be enclosed to grade in accordance with the requirements of this chapter or the underside of the exposed underfloor shall consist of one of the following:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
- The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the floor including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design manual.
- The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in SFM Standard 12-7A-3.

**CBC 707A.8, R337.7.9 Underside of appendages**

When required by the enforcing agency the underside of overhanging appendages shall be enclosed to grade in accordance with the requirements of this chapter or the underside of the exposed underfloor shall consist of one of the following:

- Noncombustible material
- Ignition-resistant material
- One layer of 5/8" Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
- The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the floor including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design manual.
- The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in SFM Standard 12-7A-3.

Exception: 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". Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked.

**EXTERIOR WINDOWS AND DOORS - CBC 708A and CRC R337.8**

(Exterior windows; exterior glazed doors; glazed openings within exterior doors; glazed openings within exterior garage doors; exterior structural glass veneer)

**CBC 708A.2.1, CRC R337.8.2.1 Exterior windows and exterior glazed door assemblies**

Exterior windows and exterior glazed door assemblies shall comply with one of the following:

- Constructed of multi-pane glazing with a minimum of one tempered pane meeting requirements of CBC 2406 Safety Glazing
- Constructed of glass block units
- Have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 257
- Tested to meet the performance requirements of SFM Standard 12-7A-2

**CBC 708A.2.2, CRC R337.8.2.2 Operable Skylights**

- Operable skylights shall be protected by a noncombustible mesh screen where the dimensions of

the opening in the screen shall not exceed 1/8 inch (3.2 mm).

### **CBC 708A.2.3, CRC R337.8.2.3 Structural glass veneer**

- The wall assembly behind the structural glass veneer shall comply with Sections CBC 707A.3 and CRC R337.7.3.

### **CBC 708A.3, CRC R337.8.3 Exterior doors**

Exterior doors surface or cladding shall comply with one of the following:

- Shall be of noncombustible, OR
- Shall be of ignition-resistant material
- Constructed of solid core wood that complies with the following:
  - Stiles and rails shall not be less than 1 3/8 inches thick.
  - Raised panels shall not be less than 1 ¼ inches thick, except for the exterior perimeter of the raised panel that may taper to a tongue not less than 3/8 inch thick
- Fire-resistance rating of not less than 20 minutes when tested according to NFPA 252
- Tested to meet the performance requirements of SFM Standard 12-7A-1

### **CBC 708A.3.1, CRC R337.8.3.1 Exterior door glazing**

- Glazing in exterior doors shall comply with Sections CBC 708A.2.1 and CRC R337.8.2.1.

### **CBC 708A.4, CRC 337.8.4 Garage door perimeter gap.**

Exterior garage doors shall resist the intrusion of ember from entering by preventing gaps between doors and doors openings, at the bottom, sides and tops of doors, from exceeding 1/8 inch (3.2mm). Gaps between doors and doors openings shall be controlled by one of the following:

Weather stripping products made of materials that:

- Have been tested for tensile strength in accordance with ASTM D638 (Standard Test Method for Tensile Properties of Plastics) after exposure to ASTM G155 (Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non Metallic Materials) for a period of 2,000 hours, where the maximum allowable difference in tensile strength values between exposed and nonexposed sampled does not exceed 10 percent and;
  - Exhibit a V-2 or better flammability rating when tested to UL91, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
- Door overlaps onto jambs and headers.
  - Garage door jambs and headers covered with metal flashing.

## **DECKING - CBC 709A and CRC R337.9**

### **CBC 709A.2, CRC R337.9.2 Where required:**

The walking surface material of decks, porches, balconies and stairs shall comply with the requirements of this section when any portion of such surface is within 10 feet of the building.

### **CBC 709A.3, CRC R337.9.3 Decking Surfaces**

The walking surface material of decks, porches, balconies and stairs shall be constructed with one of the following materials: (Identify proposed product on the drawings. see compliance methods below.)

- Ignition-resistant material compliant with performance requirements of both SFM Standard 12-7A-4 and 12-7A-5
- Exterior fire retardant treated wood
- Noncombustible material
- Any material compliant with performance requirements of SFM Standard 12-7A-4A when attached exterior wall covering is also either noncombustible or ignition-resistant material. Exception: Wall material may be of any WUI compliant material when the decking surface material has a Class B flame spread index.