

R327.4 Wildfire Hazard Mitigation Construction Guide for Wildfire Hazard Zones



Underfloor and Attic Vents

ORSC Section R327.4.4

All Vents:

All vents shall have screening made of corrosion-resistant metal mesh with minimum 1/16" and maximum 1/8" grid **or** be designed to resist flame and ember intrusion (ASTM E2886).

Eave, Soffit, and Cornice Vents less than 12' above grade or surface:

All vents shall have screening made of corrosion-resistant metal mesh with minimum 1/16" and maximum 1/8" grid **and** be designed to resist flame and ember intrusion (ASTM E2886).

Roofing

ORSC Section R327.4.3

Roofing shall be asphalt, slate, metal, tile, clay, concrete, or equivalent minimum Class B. **Wood shingle or shake materials are prohibited.** Cap off or fire block spaces between roofing and roof deck to prevent flame and ember intrusion and provide galvanized valley flashing where valley flashing is installed.

Walking Surfaces

ORSC Section R327.4.7

Deck, porch, and balcony walking surfaces greater than 30" and less than 12' above grade or the surface below shall be constructed of minimum 2" nominal lumber for decks <= 200 sq. ft., non-combustible, ignition-resistant conforming to ASTM E84 or UL 723, exterior fire retardant treated wood, meets ASTM E2632 and ASTM 2726 criteria, or meets ASTM E2632 with ignition-resistant wall covering.

Rain Gutters

ORSC Section R327.4.3.1

Non-combustible materials with provisions to prevent the accumulation of leaves and debris in the gutters (Non-combustible corrosion resistant metal screening).

Underfloor Protection

ORSC Section R327.4.6.4

Underfloor area of elevated structures shall be enclosed or meet non-combustible material, ignition-resistant material, ASTM E2957 compliant, one layer of minimum 5/8" exterior grade Type X applied behind the exterior covering of the underside, or 1-hour fire resistive exterior wall assembly.

Windows, Doors, Skylights Glazing

ORSC Section R327.4.8

Exterior windows, windows within exterior doors, and skylights shall be tempered glass, multilayered glazed panels (typical dual pane), glass block, or have a minimum fire-resistant rating of 20 minutes.



Overhanging Projections

ORSC R327.4.6.1; R327.4.6.2; R327.4.6.3

All enclosed roof eaves, soffits, cornices, exterior patio/porch ceilings and floor projections less than 12' above grade or the surface below shall be covered with either non-combustible material, ignition-resistant material, ASTM E2957 compliant, one layer of minimum 5/8" ext. Type X applied behind the exterior covering, or 1-hour fire resistive exterior wall assembly (Gable end overhangs are exempt).

Exterior Wall Covering

ORSC Section R327.4.5

Wall covering materials shall be noncombustible, ignition-resistant, heavy timber, log wall, or wall assemblies tested in accordance with ASTM E2707. Alternatively, one layer of minimum 5/8" exterior grade Type X applied behind the exterior wall covering or cladding or 1-hour fire resistive exterior wall assembly. Exterior wall coverings shall extend from the top of the foundation to the roof, and terminate at 2" nominal solid wood blocking between rafters at all roof overhangs, or in the case of enclosed eaves or soffits, shall terminate at the underside of the enclosure.

