



KITTITAS COUNTY FIRE MARSHAL'S OFFICE

411 N. Ruby St., Suite 2, Ellensburg, WA 98926

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WILDLAND URBAN INTERFACE (WUI) PLAN REVIEW SPRINKLERS REQUIRED – MITIGATION ALLOWED

PERMIT #:		PLANS EXAMINER:	
OWNER:		CONTRACTOR:	
SITE ADDRESS:		TAX PARCEL NO:	
STRUCTURE TYPE:		ROOF CLASS:	Choose an item.
CONSTRUCTION CLASS:	IR1	FIRE SPRINKLERS:	YES
DEFENSIBLE SPACE		SQ FOOTAGE:	
DISTANCE REQ'D:	100' Or To Property Line		

The following codes shall govern all aspects of construction: 2015 International Building Code, 2015 International Residential Code, 2015 International Fire Code, 2015 International Mechanical Code, 2015 International Fuel Gas Code, 2015 Uniform Plumbing Code, 2015 Washington State Energy Code, 2015 National Fuel Gas Code NFPA 54, 2014 Liquefied Petroleum Gas Code NFPA 58, 2015 International Wildland Urban Interface Code. **THE ISSUANCE OR GRANTING OF A PERMIT SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF THE PROVISIONS OF ANY APPLICABLE CODE OR ORDINANCE OF THE JURISDICTION, NOR SHALL IT BE IMPLIED ACCEPTANCE OF ANY CHANGES THAT OCCUR ON SITE.**

504.1 CLASS I IGNITION-RESISTANT CONSTRUCTION shall be in accordance with Sections 504.2 through 504.11

602.1 General.

APPROVED AUTOMATIC SPRINKLER SYSTEM shall be installed in all occupancies in new buildings required to comply with Class I Ignition-Resistant Construction. The installation of the automatic sprinkler system shall be in accordance with nationally recognized standards.

1. Submit a fire sprinkler system plan and permit application to the Fire Marshal's Office.
2. A framing inspection will not be performed until the sprinkler system is inspected and approved by the Fire Marshal.

Exception: Extending to 1.5 times the required defensible space with a *conforming water system* or 2.5 times the required defensible space per Table 503.1 KCC 20.10 Wildland Urban Interface Code will mitigate the sprinkler requirement.

<p>NOTE F1:</p>	<p>504.2 Roof Covering Roofs shall have a roof assembly that complies with a Class A rating when tested in accordance with ASTM E 108 or UL 790. For roof coverings where the profile allows a space between the roof covering and roof decking, the space at the eave ends shall be fire-stopped to preclude entry of flames or embers, or have one layer of 72-pound (32.4 kg) mineral-surfaced, non-perforated cap sheet complying with ASTM D 3909 installed over the combustible decking.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Class A roof assemblies include those with coverings of brick, masonry or an exposed concrete roof deck. 2. Class A roof assemblies also include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile or slate installed on non-combustible decks or ferrous, copper or metal sheets installed without a roof deck on non-combustible framing. 3. Class A roof assemblies include minimum 16 oz/sq. ft. (0.0416 kg/m²) copper sheets installed over combustible decks. <p>504.2.1 Roof Valleys Where provided, valley flashings 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 (914 mm) underlayment consisting of one layer of 72-pound (32.4 kg) mineral-surfaced, non-perforated cap sheet complying with ASTM D 3909 running the full length of the valley.</p>
<p>NOTE F2:</p>	<p>504.3 Protection of Eaves Eaves and soffits shall be protected on the exposed underside by ignition-resistant materials or by materials <i>approved</i> for not less than 1-hour fire-resistance-rated construction, 2-inch (51 mm) nominal dimension lumber, or 1-inch (25 mm) nominal fire-retardant-treated lumber or 3/4 inch (19.1 mm) nominal fire-retardant-treated plywood, identified for exterior use and meeting the requirements of Section 2303.2 of the <i>International Building Code</i>. Fascias are required and shall be protected on the back-side by ignition-resistant materials or by materials <i>approved</i> for not less than 1-hour fire-resistance-rated construction or 2-inch (51 mm) nominal dimension lumber.</p>
<p>NOTE F3:</p>	<p>504.4 Gutters and Downspouts Gutters and downspouts shall be constructed of non-combustible material. Gutters shall be provided with an approved means to prevent the accumulation of leaves and debris in the gutter.</p>
<p>NOTE F4:</p>	<p>504.5 Exterior Walls Exterior walls of buildings or structures shall be constructed with one of the following methods:</p> <ol style="list-style-type: none"> 1. Materials approved for a minimum of 1-hour fire-resistance-rated construction on the exterior side. 2. Approved noncombustible materials. 3. Heavy timber or log wall construction. 4. Fire-retardant treated wood on the exterior side. The fire-retardant treated

	<p>wood shall be labeled for exterior use and meet the requirements of Section 2303.2 of the <i>International Building Code</i>.</p> <p>5. Ignition-resistant materials on the exterior side.</p> <p><i>Such material shall extend from the top of the foundation to the underside of the roof sheathing.</i></p>
NOTE F5:	<p>504.6 Underfloor Enclosure Buildings or structures shall have all under-floor areas enclosed to the ground, with exterior walls in accordance with Section 505.5.</p> <p>Exception: Complete enclosure may be omitted where the underside of all exposed floors and all exposed structural columns, beams and supporting walls are protected as required for exterior 1-hour fire-resistance-rated construction or heavy timber construction.</p>
NOTE F6:	<p>504.7 Appendages and Projections Unenclosed accessory structures attached to buildings with habitable spaces and projections, such as decks, shall be a minimum of 1-hour fire-resistance-rated construction, heavy timber construction or constructed of one of the following:</p> <ol style="list-style-type: none"> 1. Approved noncombustible materials. 2. Fire retardant-treated wood identified for exterior use and meeting the requirements of Section 2303.2 of the <i>International Building Code</i>, or 3. Ignition-resistant building materials in accordance with 503.2. <p>504.7.1 Underfloor Areas Where the attached structure is located and constructed so that the structure or any portion thereof projects over a descending slope surface greater than 10 percent, the area below the structure shall have underfloor areas enclosed to within 6 inches (152 mm) of the ground, with exterior wall construction in accordance with Section 504.5.</p>
NOTE F7:	<p>504.8 Exterior Glazing Exterior windows, window walls and glazed doors, windows within exterior doors, and sky-lights shall be tempered glass, multilayered glazed panels, glass block or have a fire protection rating of not less than 20 minutes.</p>
NOTE F8:	<p>504.9 Exterior Doors Exterior doors shall be approved non-combustible construction, solid core wood not less than 1-3/4" thick or have a fire protection rating of not less than 20 minutes. Windows within doors and glazed doors shall be in accordance with Section 504.8.</p> <p>Exception: Vehicle access doors.</p>
NOTE F9:	<p>504.10 Vents Attic ventilation openings, foundation or under-floor vents or other ventilation openings in vertical exterior walls and vents through roofs shall not exceed 144 square inches each. Such vents shall be covered with noncombustible corrosion-resistant mesh with openings not to exceed 1/4" (suggested 1/8" max.) or shall be designed and approved to prevent flame or ember penetration into the structure.</p>

	<p>504.10.1 Vent Locations</p> <p>Attic ventilation openings shall not be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas. Gable end and dormer vents shall be located not less than 10 feet (3048 mm) from lot lines. Underfloor ventilation openings shall be located as close to grade as practical.</p> <p>EXCEPTION: Cal-Fire approved soffit vents only and as first approved by the Fire Marshal.</p>
NOTE F10:	<p>504.11 Detached Accessory Structures</p> <p>Detached accessory structures located less than 50 feet (15 240 mm) from a building containing habitable space shall have exterior walls constructed with materials <i>approved</i> for not less than 1-hour fire- resistance-rated construction, heavy timber, log wall construction, or constructed with <i>approved noncombustible</i> materials or fire-retardant-treated wood on the exterior side. The fire-retardant-treated wood shall be labeled for exterior use and meet the requirements of Section 2303.2 of the <i>International Building Code</i>.</p> <p>504.11.1 Underfloor Areas</p> <p>Where the detached structure is located and constructed so that the structure or any portion thereof projects over a descending slope surface greater than 10 percent, the area below the structure shall have underfloor areas enclosed to within 6 inches (152 mm) of the ground, with exterior wall construction in accordance with Section 504.5 or underfloor protection in accordance with Section 504.6.</p> <p>Exception: The enclosure shall not be required where the underside of exposed floors and exposed structural columns, beams and supporting walls are protected as required for exterior 1-hour fire-resistance-rated construction or heavy-timber construction or fire retardant- treated wood on the exterior side. The fire-retardant-treated wood shall be labeled for exterior use and meet the requirements of Section 2303.2 of the <i>International Building Code</i>.</p>

NOTE F11:	<p>DEFENSIBLE SPACE</p> <p>603.1 Objective</p> <p>Provisions of this section are intended to modify the fuel load in areas adjacent to structures to create a <i>defensible space</i>.</p> <p>603.2 Fuel Modification</p> <p>Buildings or structures, constructed in compliance with the conforming <i>defensible space</i> category of Table 503.1 (The defensible space requirement is determined in the heading on the first page of this document), shall comply with the <i>fuel modification</i> distances contained in Table 603.2. For all other purposes the <i>fuel modification</i> distance shall not be less than 30 feet (9144 mm) or to the lot line, whichever is less. Distances specified in</p>
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Table 603.2 shall be measured on a horizontal plane from the perimeter or projection of the building or structure. Distances specified in Table 603.2 are allowed to be increased by the code official because of a site-specific analysis based on local conditions and the fire protection plan.

Please also see Kittitas County Code: KCC 20.10 Wildland Urban Interface Code

603.2.2 Trees

Trees are allowed within the *defensible space*, provided the horizontal distance between crowns of adjacent trees and crowns of trees and structures, overhead electrical facilities or unmodified fuel is not less than 10 feet (3048 mm). (See 603.2 above for where to measure from).

603.2.3 Groundcover

Deadwood and litter shall be regularly removed from trees. Where ornamental vegetative fuels or cultivated ground cover, such as green grass, ivy, succulents or similar plants are used as ground cover, they are allowed to be within the designated *defensible space*, provided they do not form a means of transmitting fire from the native growth to any structure.

THIS IS NOT THE ENTIRE WUIC CODE AND ALL OTHER CODE REQUIREMENTS ARE ALSO APPLICABLE.

A FINAL WUIC SITE INSPECTION SHALL BE COMPLETED AND APPROVED PRIOR TO SCHEDULING FINAL INSPECTION FOR CERTIFICATE OF OCCUPANCY.

I, _____ have read and fully understand all above plan review notes and will abide by all applicable codes and regulations. All required inspections will be performed and no work will be covered without being inspected and approved. **No changes will be made to the approved permit without prior written approval from the Kittitas County Department of Community Development Services or the Fire Marshal.**

Signed: _____ Dated: _____