



Ignition Resistant 2 Construction

***All construction features must be approved by the County Building Official prior to permitting. All driveway conditions must be approved by the County Engineering Department.*

Fire Department Access

1. **Bridges** shall be posted and designed for emergency vehicle load limits. (IWUIC 403.2.6)
2. **Driveways** in excess of 150 feet shall be provided with turnarounds. Driveways shall provide a minimum unobstructed width of 12 feet and minimum unobstructed height of 13 feet 6 inches. Driveways in excess of 200 feet and less than 20 feet in width shall be provided with turnouts in addition to turnarounds. Turnarounds shall have inside turning radii of not less than 30 feet and outside turning radii of not less than 45 feet. Turnouts shall be all-weather road surface at least 10 feet wide and 30 feet long. (IWUIC 403.2)

Roof Assembly

1. **Roofs** shall have a roof assembly that complies with not less than a Class A rating when tested in accordance with ASTM E108 or UL 790, or an approved noncombustible roof covering. For roof assemblies where the profile allows a space between the roof covering and roof deck, the space at the eave ends shall be firestopped to preclude entry of flames or embers or have one layer of cap sheet complying with ASTM D3909 installed over the roof deck.
2. **Roof valleys**, where provided, shall be not less than 0.019-inch corrosion-resistant metal installed over a minimum 36-inch-wide underlayment consisting of one layer of 72-pound mineral-surfaces, nonperforated cap sheet complying with ASTM D 3909 running the full length of the valley (IWUIC 504.2.1)
3. Combustible **eaves, fascias and soffits** shall be enclosed with solid materials with a minimum thickness of 3/4 inch. No exposed rafter tails shall be permitted unless constructed of heavy timber materials. (IWUIC 505.3)
4. **Gutters and downspouts** shall be constructed of noncombustible material. Gutters shall be provided with an approved means to prevent the accumulation of leaves and debris in the gutter. (IWUIC 505.4)

Exterior Wall Protection

1. **Exterior walls of buildings or structures** shall be constructed with one of the following methods: with materials approved for not less than 1-hour fire resistance-rated construction on the exterior side, approved noncombustible materials, heavy timber or log construction, fire-retardant-treated wood on the exterior side meeting the requirements of 2303.2 of the IBC, or ignition-resistant materials on the exterior side. Such material shall extend from the top of the foundation to the underside of the roof sheathing. (IWUIC 505.5)



Decks, appendages, and projections

1. **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 approved noncombustible materials or fire-resistance-rated construction, or fire-retardant-treated wood identified for exterior use and meeting the requirements of the International Building Code. (IWUIC 505.7)

Exception: *Coated materials shall not be used as a walking surface of decks.*

2. **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 structures shall have the underfloor areas enclosed to within 6 inches of the ground, with exterior wall construction in accordance with Section 505.5.

Windows/Glazing

1. **Exterior windows**, window walls and glazed doors, windows within exterior doors, and skylights shall be tempered glass, multilayered glazed panels, glass block or have a fire-protection rating of not less than 20 minutes. (IWUIC 505.8)

Exterior Doors

1. **Exterior doors** shall be approved noncombustible construction, solid core wood not less than 1 ¾ inches thick or have a fire protection rating of not less than 20 minutes. Windows within doors and glazed doors shall be in accordance with IWUIC 505.8. (IWUIC 505.9)

Vents

1. Where provided, ventilation openings for enclosed attics, gable ends, ridge ends, under eaves and cornices, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, underfloor ventilation, foundations and crawl spaces, or any other opening intended to permit ventilation, either in a horizontal or vertical surface, shall be in accordance with **Section 505.10.1** or **Section 505.10.2** to resist building ignition from the intrusion of burning embers and flame through the ventilation openings.

2. Performance requirements. Ventilation openings shall be fully covered with listed vents, tested in accordance with **ASTM E2886**, to demonstrate compliance with all the following requirements:

1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.
3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).

3. Prescriptive requirements. Where provided, attic ventilation openings, foundation or underfloor vents, or other ventilation openings in vertical or horizontal surfaces and vents through roofs shall not exceed 144 square inches (0.0929 m²) each. Such vents shall be covered with noncombustible corrosion-resistant mesh with openings not to exceed 1/8 inch (3.2 mm) or shall be designed and approved to prevent flame or ember penetration into the structure.



4. Vent locations. 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. (IWUIC 505.10)

Accessory Structures

1. **Detached accessory structures** located less than 50 feet from a building containing habitable space shall have exterior walls constructed with materials approved for a minimum of 1-hour fire-resistance-rated construction, heavy timber, log wall construction, or constructed with approved noncombustible material on the exterior side. (IWUIC 505.11) Exposed underfloor areas must be protected per IWUIC 505.11.1.

Miscellaneous

1. All buildings shall have a **permanently posted address**, which shall be placed at each driveway entrance and be visible from both directions of travel along the road. **Where multiple addresses are required at a single driveway, they shall be mounted on a single post, and additional signs shall be posted at locations where driveways divide.** (IWUIC 403.6)
2. **Firewood and combustible material** shall not be stored in unenclosed spaces beneath buildings or structures, or on decks or under eaves, canopies or other projections or overhangs. (IWUIC 607.1)
3. **LP-gas containers** shall be installed underground. (IWUIC 606.3; amended)
4. **Chimneys** serving fireplaces, barbecues, incinerators, or decorative heating appliances in which solid or liquid fuel is used, shall be provided with a spark arrester. Arrester shall be constructed of woven or welded wire screening of 12 gage wire having openings not exceeding ½ inch. (IWUIC 605.1)

Required Defensible space is *** feet. Trees must be kept greater than 10 feet from the structure, overhead electrical facilities and the crowns must be greater than 10 feet from crowns of adjacent trees. Trees within the defensible space shall have limbs pruned at least 6 feet off of the ground. Fire resistive vegetation is recommended within this area. (IWUIC 604.2)

Above requirements shall be spelled out within construction documents for this project and shall require inspection when WUI requirements are being installed, constructed and/or assembled. **Final inspection will be required from this Department.**

Should you have questions, please feel free to contact me at bclauson@tetoncountywy.gov or 307-732-8588