December 27, 2016

ROOFING INFORMATION
CODE INFORMATION

The City of Cheyenne has adopted the 2015 editions of the International Building Code (IBC) and the International Residential Code (IRC) which applies to one- and two-family dwellings.

Local amendments to the IBC include:
- Ground snow load: 30 lbs. per square foot
- Ultimate Design Wind Speed: There are four (4) levels of wind speed depending on the Risk Category of the building. The majority of buildings will be in Risk Category II with a wind speed of 115 mph.
- Wind exposure: C
- Seismic Design Category: B
- Weathering: Severe
- Frost depth (for foundation design): 36”
- Climate zone: 6B
- Ice barrier IS required
- Drip edge IS required

Local amendments to the IRC include:
- Ground snow load: 30 lbs. per square foot
- Ultimate Design Wind Speed: 90 mph
- Wind exposure: C
- Seismic Design Category: B
- Weathering: Severe
- Frost depth (for foundation design): 36”
- Climate zone: 6B
- Ice barrier IS NOT required
- Drip edge IS required on the eave and the rake.
- Max. layers of asphalt shingles: one (1)
- One (1) layer of 15 lb. felt as underlayment
- Section R905.2 Asphalt Shingles. The installation of asphalt shingles shall comply with the provisions of this section.
- Section R905.2.1 Sheathing requirements: Asphalt shingles shall be fastened to solidly sheathed decks.
ADDITIONAL ROOFING CODE INFORMATION

We are pleased to provide the following additional information relative to the City of Cheyenne’s current roofing codes and are hopeful you find this information useful.

I. The City of Cheyenne adopted the 2015 edition of the *International Residential Code* on July 01, 2016. In order to view that particular portion of the Cheyenne City code, follow the instructions provided below:

1. Go to www.cheyennecity.org

2. Click “City Code” on the left-hand side of the page.

3. Click “Access the online Cheyenne City Code here” at the bottom of the page.

4. Click Title 15 – BUILDING AND CONSTRUCTION on the left-hand side of the page.

5. Click on Chapter 15.10 - INTERNATIONAL RESIDENTIAL CODE ADOPTED

There you will see:

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15.10.010 - International Residential Code—Adopted.
A document, one copy of which is on file and open for inspection of the public in the office of
the city clerk, being marked and designated as:

International Residential Code, 2015 Edition, as published by the International Code Council,
Inc., including Appendices E, G and H; is referred to, adopted, and made a part hereof as if
fully set out in this chapter
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II. The following sections are contained within the 2015 edition of the *International Residential Code*:

**R806.1 Ventilation required.** Enclosed attics and enclosed rafter spaces formed where
ceilings are applied directly to the underside of roof rafters shall have cross ventilation for
each separate space by ventilating openings protected against the entrance of rain or
snow. Ventilation openings shall have a least dimension of 1/16 inch minimum and 1/4
inch maximum. Ventilation openings having a least dimension larger than 1/4 inch shall
be provided with corrosion-resistant wire cloth screening, hardware cloth or similar
material with openings having a least dimension of 1/16 inch minimum and 1/4 inch
maximum. Openings in roof framing members shall conform to the requirements of
Section R802.7 Required ventilation openings shall open directly to the outside air.

**R806.2 Minimum vent area.** The minimum net free ventilating area shall be
1/150 of the area of the vented space.
Exception: The minimum net free ventilation area shall be 1/300 of the vented space provided one or more of the following conditions are met:

1. In Climate Zones 6, 7 and 8, a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.
2. At least 40 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located no more than 3 feet below the ridge or highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of upper ventilators, installation more than 3 feet below the ridge or highest point of the space shall be permitted.

R903.2 Flashing. Flashings shall be installed in a manner that prevents moisture from entering the wall and roof through joints in copings, through moisture permeable materials and at intersections with parapet walls and other penetrations through the roof plane.

R903.2.1 Locations. Flashings shall be installed at wall and roof intersections, wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019 inch (0.5 mm) (No. 26 galvanized sheet).

R905.2.1 Sheathing requirements. Asphalt shingles shall be fastened to solidly sheathed decks.

R905.2.2 Slope. Asphalt shingles shall be used only on roof slopes of two units vertical in 12 units horizontal (2:12) or greater. For roof slopes from two units vertical in 12 units horizontal (2:12) up to four units vertical in 12 units horizontal (4:12), double underlayment application is required in accordance with Section R905.2.7.

R908.3 Roof Replacement. Roof replacement shall include the removal of all existing layers of roof coverings down to the roof deck:

Exception: Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane installed in accordance with Section R905.
R908.3.1 Roof Re-Cover. The installation of a new roof covering over an existing roof covering shall be permitted where any of the following conditions occur:

1. Complete and separate roofing systems, such as standing-seam metal roof systems, which are designed to transfer the roof loads directly to the buildings structural systems and do not rely on existing roofs or roof coverings for support and shall not require the removal of existing roof coverings.
2. The application of new protective coatings over an existing spray polyurethane foam roofing system shall be permitted without tear-off of existing roof coverings.

R908.3.1.1 Roof Re-Cover. A roof re-cover shall not be permitted where any of the following conditions occur:

1. Where the existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.
2. Where the existing roof covering is slate, clay, cement or asbestos-cement tile.
3. Where an existing roof has two or more roof coverings.