



Proposed Amendments to the 2015 International Residential Code

The following document contains the proposed modifications to the 2015 IRC and has been revised from the previous document. The revisions include proposed adoption of the Mechanical, Fuel Gas, and Plumbing provisions from the IRC. These sections were not included in the previous proposed modifications.

Historically, RBD has not adopted the Mechanical, Fuel Gas, and Plumbing provisions from the IRC and has relied upon the International Mechanical Code (IMC), International Fuel Gas Code (IFGC), and the International Plumbing Code (IPC) for One and Two-Family Dwellings.

The requirements in the IRC are very similar to those found in the IMC, IFGC, and IPC but have been “stripped down” to only apply to residential construction. This makes the path to code compliance easier to achieve for the user as all requirements can be found in one book.

Proposed amendments to chapters 1 through 10 of the 2015 IRC have not changed from the previous document. Proposed adoption of the 2015 IRC **DOES NOT** include provisions for Energy Efficiency and Electrical. Energy Efficiency provisions are located in the Residential Section of the 2015 International Energy Conservation Code and Electrical provisions remain under the 2014 National Electrical Code (NEC).

SECTION RBC303 - RESIDENTIAL BUILDING CODE

RBC303.1 SHORT TITLE. This section will be known and cited as the Residential Building Code.

RBC303.2 SCOPE. The provisions of the Residential Building Code shall apply in accordance with Section RBC101.3 of this Code specifically to detached one- and two-family dwellings and townhomes not more than three (3) stories above grade plane in height with a separate means of egress and their accessory structures.

RBC303.3 CODE ADOPTED BY REFERENCE. There is hereby adopted by reference the International Residential Code for One-and Two-Family Dwellings of the International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, 2015 Edition. Three (3) copies of the Code are now filed in the office of the Clerk of the Jurisdiction and may be inspected during regular business hours. The Code is being adopted as if set out at length, to include the International Residential Code Appendices, save and except the following, which are declared to be non-applicable to the Jurisdiction and are therefore expressly deleted:

1. Chapter 1, Administration
2. Chapter 11, 12 and 25
3. Chapter 34 through 43
4. Appendix A through Appendix G
5. Appendix I through Appendix U

RBC303.4 ADDITIONS AND MODIFICATIONS. The adopted Code is subject to the following additions and modifications:

RBC303.4.1 Section R202 DEFINITIONS. Delete the definition of BASEMENT and replace with the following:

BASEMENT. That portion of a building that is partly or completely below grade plane, having a permanent floor of approved material and not defined as a crawlspace. (See the definitions of "Story above grade plane" in the International Residential Code, 2015 Edition and "Crawlspace" below.)

Add the following definitions:

CRAWL SPACE. An under-floor space between the bottom of a floor and the earth under any building that is not more than 5 feet (1,524 mm) in height measured from the average interior grade to the underside of the floor framing. (See Section R408 of the International Residential Code, 2015 Edition.)

GARAGE. An attached or detached, finished or unfinished structure or portion thereof provided with a vehicular access door and intended for storage of one or more motor vehicles.

SLEEPING ROOM. A habitable space used primarily for sleeping purposes and containing a closet 16 inches (406.4 mm) or greater in depth.

See Appendix D of this code for additional modifications to Section 202 of the International Residential Code, 2015 Edition, by the City of Colorado Springs.

RBC303.4.2 Table R301.2(1) Climatic and geographic design criteria. Delete and replace with the following:

TABLE R301.2(1)

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

FLAT ROOF SNOW LOAD ^a	WIND DESIGN (V_{ult})				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER UNDER-LAYMENT REQUIRED ^c	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP
	Speed ^b (mph)	Topographic effects	Special Wind Region	Wind-borne debris zone		Weathering	Frost line Depth	Termite					
30/40	130 Exp. C (min)	NO	YES	NO	B	Severe	30 inches (762 mm)	Slight to moderate	0°F (-18°C)	YES	12/18/1986	1,000	45°F (7°C)

a. For buildings or structures with a grade plane below 7,000 ft (2,134 m) elevation, the flat roof snow load (p_f) shall be 30 pounds per square foot (1,436 N/m²) of horizontal projected area. For all buildings and structures with a grade plane at or above 7,000 ft (2,134 m) elevation, the flat roof snow load (p_f) shall be 40 pounds per square foot (1,915 N/m²) of horizontal projected area.

b. Ultimate design wind speed (V_{ult}) per ASCE 7-10, refer to Table R301.2.1.3 of the International Residential Code, 2015 Edition for conversion to nominal design wind speed (V_{asd}) as used in previous version of ASCE 7.

c. Required only for buildings and structures with a grade plane at or above 7,000 ft (2,134 m) elevation.

RBC303.4.3 Section R301.2.1.4 Exposure category. Delete category "1. Exposure B".

RBC303.4.4 Section R302.1 Exterior walls. Add the following exception:

- 6. The following modifications to R302.1 shall apply to exterior walls of single family dwellings only:
 - 6.1 A fire-resistance rating is not required on projections 18" (457.2 mm) or less measured from the point at which fire-resistant wall protection is required.
 - 6.2 The underside of the projection shall be protected with an approved minimum 7/16" (11.11mm) sheeting. Finish materials are not limited.
 - 6.3 Where provided, soffit vents shall be of fire resistance construction and

approved for use by the Building Official.

- 6.4 Vent terminations including but not limited to dryer vents, bath exhaust and appliance vents may be unprotected.

RBC303.4.5 Section R302.2 Townhouses. Add the following after the third sentence:

NFPA 13D systems shall be considered equivalent to systems designed in accordance with Section P2904 of the International Residential Code, 2015 Edition.

RBC303.4.6 Section R302.5.1 Opening protection. At the end of the second sentence delete ", equipped with a self-closing device".

RBC303.4.7 Table R302.6 Dwelling/garage fire separation. Delete and replace with the following:

TABLE R302.6.

DWELLING/GARAGE SEPARATION

SEPARATION ^{a, b}	MATERIAL
From dwelling unit and attics.	Not less than 1/2-inch gypsum board or equivalent applied to the garage side.
From habitable space above the garage.	Not less than 5/8-inch Type X gypsum board or equivalent applied at the garage side.
Structure(s) supporting floor-ceiling assemblies required by this section.	Not less than 1/2-inch gypsum board or equivalent applied to the garage side.
Detached garages located less than 6 feet from a dwelling unit on the same lot	Not less than 1/2-inch gypsum board or equivalent applied to the interior side of the accessory structure.

- a. In lieu of these requirements any wall or floor-ceiling assembly with a fire resistance rating of one hour or greater from the garage side may be used.
- b. Garages attached to the residence by means of a covered breezeway where not more than 50 percent of the perimeter of the breezeway is enclosed may be considered detached.

RBC303.4.8 Section R305.1.1 Basements. Delete and replace with the following:

Minimum height in unfinished basements. Unfinished basements shall have a ceiling height of not less than 7 feet, 1 1/2 inches (2,171.7 mm). The required ceiling height shall be measured from the unfinished floor to the underside of floor joists.

Exception: Beams, girders, ducts or other obstructions may project up to 8 inches (203.2 mm) below the required ceiling height.

RBC303.4.9 Section R309.1 Floor surface. Add the following exception after the second paragraph:

Exception: The floor surface shall not be required to slope when the foundation is in

accordance with exception 2 of section RBC303.4.30 of this Code.

RBC303.4.10 Section R310.1 Emergency escape and rescue required. Add the following after the first paragraph:

Unfinished portions of basements exceeding 500 square feet (46.5 m²) in gross area but less than 1000 square feet (92.9 m²) in gross area shall be provided with one emergency escape and rescue opening. For each additional 500 square feet (46.5 m²) in gross floor area or fraction thereof, one additional emergency escape and rescue opening shall be provided.

RBC303.4.11 Section R310.2.1 Minimum opening area. Revise the exception to "Exception 1."

Add the following exception:

- Existing emergency escape and rescue openings with a clear opening of not less than 4.5 square feet (4,181 cm²) are permitted to remain as a means of emergency egress in dwellings issued a building permit prior to August 1, 2011.

RBC303.4.12 Section R310.2.3 Window wells. Add the following exception:

Exception: Existing window wells with a minimum horizontal projection of 30 inches (762 mm) are permitted to remain as a means of emergency egress in dwellings issued a building permit prior to January 1, 2000.

RBC303.4.13 Section R310.2.3.1 Ladder and steps. Add the following exception:

Exception: Window wells with a depth exceeding 44 inches in unfinished basements and portions thereof need only be equipped with one permanently affixed ladder at final inspection regardless of the number of emergency escape and rescue openings.

RBC303.4.14 Section R310.2.3.2 Drainage. Delete and replace with the following:

R310.2.3.2 Drainage. Where required by the soils test, window wells shall be designed for proper drainage by connecting to the building foundation drain.

RBC303.4.15 Section R310.2.4 Emergency escape windows under decks and porches.

Delete and replace with the following:

R310.5. Emergency escape openings below horizontal projections. Emergency escape openings may be located below decks, porches, cantilevers, and similar horizontal projections provided one of the following occur:

- The location of the projection allows the emergency escape opening to be fully opened and provides a path not less than 36 inches (914.4 mm) in height and width to a yard or court.
- The minimum horizontal area of 9 square feet (8,361 cm²) is provided clear of the projection and the horizontal projection of the operable portion of the egress window and ladder, if required, remain clear of the projection.

RBC303.4.16 Section R310.4 Bars, grilles, covers and screens. Add the following after the first sentence:

The force required for normal operation of any device shall not exceed 30 pounds.

RBC303.4.17 Section R311.3.2 Floor elevations for other exterior doors. Revise the exception to "Exception 1."

Add the following exception:

- When more than two risers are required landing length at the exterior side of the door may be reduced to 18 inches (457.2 mm), provided the door does not swing over the stairway. Maximum height of the reduced landing shall not exceed 30 inches (762 mm) above adjacent grade.

RBC303.4.18 Section R311.7.8.2 Continuity. Add the following exception:

- Where a handrail supported by a wall terminates and a new handrail along the same stairway is then supported by a guard, continuity is not required provided the terminus of the handrail supported by the wall is flush with or overlaps the vertical wall surface in which the handrail supported by the guard terminates.

RBC303.4.19 Section R312.2 Window fall protection. Delete

RBC303.4.20 Section R313.1 Townhouse automatic fire sprinkler systems. Revise the exception to "Exception 1."

Add the following exception:

- An automatic residential fire sprinkler system shall not be required in townhouses with four or less attached units when separated in accordance with Section R302.2, Item 2 of the International Residential Code, 2015 Edition.

RBC303.4.21 Section R313.2 One- and two-family dwellings automatic fire systems. Delete.

RBC303.4.22 Section R315.2.2 Alterations, repairs and additions. Delete "Exception 2."

RBC303.4.23 Section R317.1 Location required.

Item 2. Delete and replace with the following:

- All exterior wood framing members that are less than 6 inches (152.4 mm) from exposed ground or less than 2 inches (51 mm) from a concrete slab or similar surface.

Item 7. Modify as follows:

- Delete "Wood furring strips or other wood" and replace with "Structural wood"

RBC303.4.24 Section R318 PROTECTION AGAINST SUBTERRANEAN TERMITES. Add the following under the heading of this Section:

This Section is to be used for reference only.

RBC303.4.25 Section R319.1 Address numbers. Delete and replace with the following:

R319.1. Premises identification. Street addressing shall be in accordance with Section RBC312 of this Code.

RBC303.4.26 Section R320.1 Scope. Add the following after the first sentence:

See also Colorado Revised Statutes Title 9, Section 9-5-105.

RBC303.4.27 Section R321.1 Elevators. Delete and replace with the following:

R321.1. Elevators. Where provided, passenger elevators, limited-use/limited-applications elevators or private residence elevators shall comply with Section RBC310 of this Code.

RBC303.4.28 Section R322 FLOOD-RESISTANT CONSTRUCTION. Delete and replace with the following:

R322.1 General. Buildings and structures constructed in whole or in part in flood hazard area (as defined by Section RBC313.6) shall comply with Section RBC313 of this Code.

RBC303.4.29 Section R323 STORM SHELTERS. Add the following under the heading of this Section:

This Section is to be used for reference only.

RBC303.4.30 Section R326.1 General. Delete and replace with the following:

R326.1 General. The design and construction of pools and spas shall comply with Section RBC314 of this code.

RBC303.4.31 Section R401.1.1. Insert a new section as follows:

R401.1.1. Design professional required. Construction documents for foundation systems and/or components regulated by this section shall be sealed by a design professional licensed by the State of Colorado.

Exceptions:

1. Freestanding, enclosed, accessory structures with an area of 200 square feet (18.6 m²) or less and an eave height of 10 feet (3,048 mm) or less;
2. Single-story, enclosed, detached wood frame accessory structures not more than 750 square feet (69.7 m²) in area with a thickened edge monolithic slab extending a minimum of 12 inches (304.8 mm) below grade not retaining any soil;

3. Decks, open patio covers, gazebos and similar structures set on piers; and
4. Patio cover enclosures built in accordance with Appendix H of the International Residential Code, 2015 Edition.

RBC303.4.32 Section R401.4 Soil tests. Delete and replace with the following:

R401.4. Soil tests. A soil test shall be required to determine the soil's characteristics for each building or structure regulated by this Code. This test shall be made and a subsequent report produced by a design professional licensed by the State of Colorado.

Exception: A soil test is not required for buildings or structures whose foundation system construction documents are not required to be sealed by a design professional in accordance with Section R401.1.1 of the International Residential Code, 2015 Edition.

RBC303.4.33 Table R402.2 Minimum specified compressive strength of concrete. Delete footnote d and replace with the following:

- d. Concrete shall be air entrained as required by either the soils test or the foundation design.

RBC303.4.34 Section R403.1.4.1 Frost protection. Delete the three (3) exceptions and replace with the following:

Exceptions:

1. Freestanding, enclosed accessory structures with an area of 200 square feet (18.6 m²) or less and an eave height of 10 feet (3,048 mm) or less shall be permitted to be supported directly on grade.
2. Ramps, stairs and detached, uncovered decks with a walking surface no greater than 24 inches (609.6 mm) above grade at any point within 36 inches (1,067 mm) horizontally from the edge of the walking surface may be supported directly on grade by an approved method.
3. Detached landings in conjunction with a temporary set modular or manufactured home less than 32 square feet (2.97 m²) and a walking surface no higher than 42 inches at any point within 36 inches (1,067 mm) horizontally from the edge of the deck may be supported directly on grade by an approved method.
4. Single-story detached, enclosed wood frame accessory structures not more than 750 square feet (69.7 m²) in area with a

thickened edge monolithic slab extending a minimum of 12 inches (304.8 mm) below grade not retaining any soil.

RBC303.4.35 Section R403.1.8 Foundations on expansive soils. Delete "Section 1808.6 of the International Building Code" and replace with "the soils test recommendations as required per Section R401.4 of the International Residential Code, 2015 Edition."

RBC303.4.36 Section R404.1.1 Design required. Delete

RBC303.4.37 Section R404.1.2 Design of masonry foundation walls. Delete the second sentence.

RBC303.4.38 Section R404.4 Retaining walls. Delete and replace with the following:

R404.4. Retaining walls. Retaining walls that do not meet the criteria set forth by Section RBC105.2.1, Item 4 of this code shall be designed to ensure stability against overturning, sliding, excessive foundation pressure, and water uplift. Retaining walls shall be designed for a safety factor of 1.5 against lateral sliding and overturning and shall be sealed by a design professional licensed in the State of Colorado.

RBC303.4.39 Section R405.1 Concrete or masonry foundation walls. Insert the following before the first sentence:

Unless otherwise specified by the soils test,

RBC303.4.40 Section R405.1.2. Insert a new section as follows:

R405.1.2. Drainage system. When a foundation peripheral drain is required by the soils test report and the system is not capable of positive gravity drainage to daylight; a collection sump shall be provided on the interior or exterior of the building. The sump shall be at least 24 inches (609.6 mm) in diameter or 20 square inches (129 cm²), shall extend at least 24 inches (609.6 mm) below the bottom of the basement floor and shall be capable of mechanical drainage to remove any accumulated water. The drainage system shall discharge into an approved underdrain system or to daylight. An electrical receptacle installed in accordance with the Electrical Code shall be provided within 24 inches (609.6 mm) of the sump pit. When provided on the interior, discharge piping installed in accordance with the Plumbing Code shall be provided to

discharge a minimum of 6 inches (152.4 mm) from the exterior of the foundation wall above grade.

RBC303.4.41 Section R505.1.1 Applicability limits. Delete and replace with the following:

R505.1.1. Application and design professional required. The provisions of this section shall control the construction of steel floor framing. Construction documents shall be sealed by a design professional licensed by the State of Colorado.

RBC303.4.42 Section R506.1 General. Delete the second sentence and replace with the following:

Concrete slab-on-ground floors shall be a minimum 3.5 inches (88.9 mm) thick and in accordance with the soils test per Section R401.4 of the International Residential Code, 2015 Edition.

RBC303.4.43 Section R506.2.2 Base. Delete the exception and replace the following:

Exception: A base course is not required unless specified by the soils test per Section R401.1 of the International Residential Code, 2015 Edition.

RBC303.4.44 Section R506.2.3 Vapor retarder. Delete exception 2 and replace with the following:

2. Unless specifically required by the soils test.

RBC303.4.45 Section R507.2 Deck ledger connection to band joist. Delete and replace with the following:

R507.2 Deck ledger connection to structure. For decks supporting a total design load of 50 pounds per square foot (2,394 Pa)" [40 pounds per square foot (1915 Pa) live load plus 10 pounds per square foot (479 Pa) dead load] shall be in accordance with this section, Tables R507.2 and R507.2.1, and Figures R507.2.1(1) and R507.2.1(2). The ledger shall be a minimum 2-inch by 8-inch (51 mm by 203mm) nominal, pressure-preservative-treated southern yellow pine, or pressure-preservative-treated hem fir, or approved naturally durable, No 2 grade lumber. For other grades, species, connection details and loading conditions the ledger connection shall be designed in accordance with Section R301.

RBC303.4.46 Table R507.2 Deck Ledger Connection to Band Joist. Delete and replace with the following:

TABLE R507.2

DECK LEDGER TO STRUCTURE CONNECTION
 (Deck live load = 40 psf, deck dead load = 10psf) ^e

JOIST SPAN	MINIMUM NUMBER OF FASTENER(S) AND SIZE ^{b, c, d, f, g, h}				
	STUD		RIM JOIST ^a		
	16" o.c.	24" o.c.	12" o.c.	16" o.c.	24" o.c.
6' and less	(1) 7/16"	(2) 5/16"	(1) 3/8"	(1) 3/8"	(2) 3/8"
6'-1" to 8'	(2) 5/16"	(2) 7/16"	(1) 3/8"	(2) 3/8"	(2) 3/8"
8'-1" to 10'	(2) 3/8"	(2) 7/16"	(2) 3/8"	(2) 3/8"	(3) 3/8"
10'-1" to 12'	(2) 7/16"	(3) 7/16"	(2) 3/8"	(2) 3/8"	(3) 3/8"
12'-1" to 14'	(2) 7/16"	(3) 7/16"	(2) 3/8"	(3) 3/8"	(4) 3/8"
14'-1" to 16'	(3) 3/8"	(4) 3/8"	(2) 3/8"	(3) 3/8"	(4) 3/8"

- a. The tip of the lag screw shall extend beyond the inside face of the rim joist. Through bolts shall be provided with a plate washer at the inside face of the rim joist.
- b. Ledger shall be tight to exterior face the exterior the wall. Ledgers may be spaced with an approved product or a connection designed in accordance with accepted engineering practice.
- c. Ledgers shall be flashed and or sealed at the top to prevent water from contacting the rim joist.
- d. Alternative ledger connections shall be sized for 120% of live and dead loads.
- e. Deck ledger shall not be attached to an un-supported rim unless such connection is designed in accordance with accepted engineering practice.
- f. Rim joist material shall be 2" nominal lumber or minimum 1 1/8" engineered wood product. When solid sawn deck ledgers are attached to a 1 inch thick or less engineered wood product, the ledger attachment shall be designed in accordance with accepted engineering practice.
- g. Wood structural panel sheathing, gypsum board sheathing, and approved siding materials shall be permitted between the ledger and rim joist provided distance between the face of the rim and face of the ledger does not exceed 1 inch.
- h. Deck ledgers shall not be supported on stone or masonry veneer.

RBC303.4.47 Section R602.3 Design and construction. Delete the exception.

RBC303.4.48 Table R602.3.1 Stud size, height and spacing.

Exceptions:

- 2. In the first sentence, delete "25 pounds per square foot" and replace with "40 pounds per square foot".

RBC303.4.49 Table R602.3(5) Stud size, height and spacing. Add the following footnotes applicable to Table R602.3(5).

- d. This table is invalid for structures with cementitious toppings exceeding 13 pounds per square foot (622 N/m²).
- e. At openings in walls, (such as windows), for each stud removed to allow for the opening, a minimum of 1/2 of a stud must be placed at each side of the opening.
- f. Listed heights are distances between lateral supports placed perpendicular to the plane of the wall.

RBC303.4.50 Section R602.3.4 Bottom (sole) plate. Add the following after the first paragraph:

Wood sole and sill plates supporting floors shall be installed in accordance with this section and shall not be stacked more than two plates high

for nominal 2 x 4 plates nor more than three plates high for nominal 2 x 6 or larger plates including the sole plate unless a specific design is provided by a design professional licensed by the State of Colorado.

RBC303.4.51 Section R602.5.1 Insert a new section as follows:

Section R602.5.1 Interior nonbearing walls on slab. Interior nonbearing walls on non-structural concrete slabs shall be constructed to accommodate slab movement in accordance with the soils test.

Exception: In the absence of a soils test walls shall be constructed in a manner to allow for a minimum of 1 1/2 inch (38.1 mm) vertical movement.

RBC303.4.52 Section R602.6 Drilling and notching-studs. Add the following:

- 3. Studs having holes or notches larger than required to accommodate the piping shall be replaced or satisfactorily repaired. Where holes larger than indicated above are required to accommodate the piping in nonbearing studs, the studs may be reinforced by the addition of 0.1046 inch thick (2.657 mm) (12 ga.) x 1 1/2 inch wide (38.1 mm) steel straps fastened to each side of the stud with four (4) 16d nails.

Where holes or notches larger than allowed above are required to accommodate the piping in bearing studs, engineering calculations shall be submitted to show that the stresses allowed by this section are not exceeded under the design loads.

RBC303.4.53 Section R603.1.1 Applicability limits. Delete and replace with the following:

R603.1.1. Application and design professional required. The provisions of this Section shall control the construction of exterior wall framing and interior load bearing steel wall framing. Construction documents shall be sealed by a design professional licensed by the State of Colorado.

RBC303.4.54 Section R606.1.1 Professional registration not required. Delete and replace with the following:

R606.1.1. Application and design professional required. The provisions of this Section shall control the construction of exterior masonry wall construction and interior load bearing masonry wall construction. Construction documents shall be sealed by a design professional licensed by the State of Colorado.

RBC303.4.55 Section R608.1 General. Delete the last sentence and replace with the following:

Construction documents shall be sealed by a design professional licensed by the State of Colorado.

RBC303.4.56 Section R610.1 General. Delete and replace with the following:

R610.1. Application and design professional required. The provisions of this Section shall control the construction of exterior structural insulated panel walls and interior load-bearing structural insulated panel walls. Construction documents shall be sealed by a design professional licensed by the State of Colorado.

RBC303.4.57 Section R702.7 Vapor retarders. In the first sentence delete zone "5".

RBC303.4.58 Section R801.3 Roof drainage. Delete and replace with the following:

R801.3 Roof drainage. All dwellings shall have a controlled method of water disposal from roofs that will collect and discharge roof drainage to the ground surface or approved drainage system at least 3 feet (914.4 mm) from foundation walls or greater if required by the soils report.

RBC303.4.59 Section R804.1.1 Applicability limits. Delete and replace with the following:

R804.1.1. Application and design professional required. The provisions of this Section shall control the construction of steel roof framing. Construction documents shall be sealed by a design professional licensed by the State of Colorado.

See Appendix D of this code for additional modifications to Section 902.1 of the International Residential Code, 2015 Edition, by the City of Colorado Springs.

RBC303.4.60 Section R905.2.9. Insert a new section as follows:

R905.2.9. Face nailing. Face nailing of asphalt shingles shall only be permitted in the following locations:

1. The ridge cap as per manufacturer's specifications;
2. Flashing at clearstory, low side of skylights, and roof jacks provided the nail heads are covered with mastic.

RBC303.4.61 Section R905.7.5 Application. Add the following after the first paragraph:

Face nailing of wood shingles shall only be permitted in the following locations:

1. The ridge cap as per manufacturer's specifications;
2. Flashing at clearstory, low side of skylights, and roof jacks provided a soldier course is provided over the flashing to nail through.

RBC303.4.62 Section R905.8.6 Application. Add the following after the first paragraph:

Face nailing of wood shakes shall be as permitted for wood shingles.

RBC303.4.63 Section R908.2.1. Insert a new section as follows:

R907.2.1. Roof dead load. Where the total weight of the new and / or existing roof covering materials exceed 6.6 pounds per square foot (316 N/m²) calculations sealed by a design professional licensed by the State of Colorado shall be submitted demonstrating that the structure will accommodate the increased total roof dead load.

RBC303.4.64 Section R908.3 Roof Replacement. Renumber "Exception" to "Exception 1" and add the following:

Exceptions:

4. Complete and separate roofing systems, such as standing-seam metal roof systems, that are designed to transmit the roof loads directly to the building's structural system and do not rely on existing roofs and roof coverings for support, shall not require the removal of existing roof coverings.
5. Metal panel, metal shingle and concrete and clay tile roof coverings shall be permitted to be installed over existing wood shake roofs where applied in accordance with Section 908.4.

RBC303.4.65 Section R908.3.1 Roof-recover. Delete.

RBC303.4.66 Section R1003.9.2 Spark arrestors. Delete the first sentence and replace with the following:

Spark arrestors shall be installed on all masonry chimneys and meet all of the following requirements:

RBC303.4.67 Section M1305.1.4 Appliances under floors. At the end of the first paragraph add the following:

Access to appliances in under floor spaces shall not be through a garage unless the access is provided with a solid weather-stripped door equipped with an approved self-closing device, and all combustion air is outdoor combustion air.

RBC303.4.68 Section M1408 VENTED FLOOR FURNACES. Delete and replace with the following:

M1408 Vented floor furnaces. Vented floor furnaces are prohibited.

RBC303.4.69 Section M1411.8 Locking access port caps. Delete

RBC303.4.70 Section M1413 EVAPORATIVE COOLING EQUIPMENT. Delete

RBC303.4.71 Section M1601.1.1 Above-ground duct systems. Delete item 7.

RBC303.4.72 Section M2101.10 Tests. In the first sentence delete "100 pounds per square inch (689 kPa)" and replace with "50 pounds per square inch (345 kPa)".

RBC303.4.73 Section M2103.4 Testing. Delete and replace with the following:

M2101.10 Tests. Piping or tubing to be embedded shall be tested with liquid or air to at

least 50 pounds per square inch (345 kPa) greater than the operating pressure.

RBC303.4.74 Section M2105.28 Testing. Add the following after the last sentence:

Testing results from an approved third party shall be provided at time of inspection.

RBC303.4.75 Section G2406.2 Prohibited locations. Delete items 3 and 4.

Item 5, add the following after the end of the second sentence:

"or other adjacent spaces meeting indoor combustion air requirements of Section G2407.5"

Add the following item:

6. The appliance is installed in a room or space that opens only into a bedroom or bathroom, and such room or space is used for no other purpose, the door to the bedroom or bathroom is fully louvered, the door to the appliance room is fully louvered, all combustion air may be taken from indoors in accordance with Section G2407.5.

RBC303.4.76 Section G2407.7.3 Outdoor opening(s) size. Add item 4 as follows:

4. The outdoor opening may connect to the cold air return plenum if it is located within 12 feet (3,657.6 mm) of the furnace blower when sized at 1 square inch per 5,000 BTU/hr (1 cm² per 227 W) of the total input rating of all gas utilization equipment.

RBC303.4.77 Section G2412.5 Insert a new section as follows:

G2412.5 Elevated gas pressure pipe identification. Gas piping systems on the discharge side of the Gas Purveyors regulator/meter with pressures exceeding 1/2 (psi) shall be identified with labels marked Medium Pressure. Pressures exceeding 5 (psi) shall be identified with labels marked High Pressure. Piping shall be labeled every 10 feet.

RBC303.4.78 Section G2414.5.2 Copper and copper alloy tubing. Delete and replace with the following:

G2414.5.2 Copper and copper alloy tubing. Copper and copper alloy tubing shall not be used on natural gas systems.

RBC303.4.79 Section G2415.11 Protection against corrosion. Add the following at the end of the first paragraph:

Underground piping systems shall be installed using only listed Polyethylene Plastic or Corrugated Stainless Steel.

Exceptions:

1. Metallic tubing (type L copper) may be used in underground LP gas systems
2. Metallic piping may be used in underground systems with prior approval.

RBC303.4.80 Section G2415.12 Minimum burial depth. Delete "12 inches (304.8 mm)" and replace with "18 inches (457.2 mm)".

RBC303.4.81 Section G2417.1.2 Repairs and additions. Delete the second paragraph and replace with the following:

Minor repairs and additions are not required to be pressure tested provided that the piping is accessible, limited a maximum of eight joints and has a total developed length of not greater than 10 feet (3,048 mm).

RBC303.4.82 Section G2417.4.1 Test pressure. Delete and replace with the following:

G2417.4.1 Test pressure. Test pressure shall be observed by the code official. Necessary apparatus for conducting tests shall be furnished by the permit holder. Mechanical gauges used to measure test pressure shall have a range such that the highest end of the scale is not greater than three times the test pressure and shall be in accordance with the following:

Pipe Type	Test pressure	Duration of test in minutes	Testing method
Threaded Pipe	10 psi (69 kPa)	15	Air, CO2, Nitrogen
Welded Pipe	60 psi (414 kPa)	30	Air, CO2, Nitrogen
Corrugated Stainless Steel Pipe	10 psi (69 kPa)	15	Air, CO2, Nitrogen

RBC303.4.83 Section G2417.4.2 Test duration. Delete.

RBC303.4.84 Section G2417.7.1.1 Removal from service. Delete and replace with the following:

G2417.7.1.1 Interruption of service. In the event that existing service is shut off or the meter is removed for more than one (1)

calendar year, the piping shall be retested in accordance section G2417.4.1 of this code.

RBC303.4.85 Section G2419 Drips and Sloped Piping. Delete.

RBC303.4.86 Section G2427.5.2 Masonry chimneys. After the first sentence add the following:

Masonry chimney flues serving listed gas appliances with drafts hoods, Category I appliances, and other gas appliances listed for use with Type B vent shall be lined with a chimney lining system specifically listed for use only with such appliances. The liner shall be installed in accordance with the liner manufacturer's instructions and the terms of the listing. A permanent identifying label shall be attached at the point where the connection is to be made to the liner. The label shall read: "This chimney liner is for appliances that burn gas only. Do not connect to solid or liquid fuel-burning appliances or incinerators."

Delete the exception and replace with the following:

Exception: When replacing an existing draft hood appliance, a chimney lining system is not required to be installed in an existing approved masonry chimney that serves two or more draft hood appliances provided that the existing chimney flue is inspected and deemed safe for the intended appliance.

RBC303.4.87 Section G2427.5.5.1 Chimney lining. Delete the exception.

RBC303.4.88 Section G2427.7 Single-wall metal pipe. Delete and replace with the following:

G2427.7 Single-wall metal pipe. Single-wall metal pipe vents are prohibited.

RBC303.4.89 Section AH101.2 Permitted uses. Add the following after the second sentence:

Enclosed patios shall not be conditioned by any heating or cooling means.

RBC303.4.90 Section G2432.4 Insert a new section as follows:

G2432.4 Fireplace doors. Fireplace openings containing decorative gas appliances shall be equipped with glass doors or automatic dampers.

RBC303.4.91 Section G2433 LOG LIGHTERS. Delete and replace with the following:

G2433 Log lighters. Log lighters are prohibited.

RBC303.4.92 Section G2437 FLOOR FURNACES. Delete and replace with the following:

G2437 Floor furnaces. Floor furnaces are prohibited.

RBC303.4.93 Section 2445.2 Prohibited use. Delete and replace with the following:

G2445.2 Prohibited use. Unvented room heaters are prohibited within a dwelling unit.

RBC303.4.94 Section AH105.2 Footings. Delete and replace with the following:

Patio covers shall be permitted to be supported on a slab on grade without footings, provided the slab conforms to the provisions of Section R506 of this code and columns spaced a minimum of 6 feet on center do not support live and dead loads in excess of 750 pounds (3.34 kN) per column.

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