

## **SIGNIFICANT CHANGES FROM THE 2006 TO THE 2012 IRC**

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### **BUILDING DIVISION**

2012 IRC - Section R303.4; Mechanical Ventilation - In the Coconino County a dwelling unit is required to have an air infiltration rate less than three air changes per hour, and a whole house mechanical ventilation system shall be installed. (Table 1507.3.3(1)) and (N1103.5.1)

2009 IRC - Section R315; Carbon Monoxide Alarms - CO alarms are required in new dwellings and in existing dwellings when work requiring a permit takes place. Combination Smoke and CO alarms are prohibited, CO alarms shall be installed within 24 inches of floor.

2009 IRC - Section R317.1; Protection from Decay - Protection is now required for wood siding, sheathing and wall framing less than 6 inches from the ground or 2 inches above a concrete slab exposed to weather.

2012 IRC - Section R405.1; Foundation Drainage - A filter membrane is now required for perforated foundation drains.

2012 IRC - Section R501.3; Fire Protection of Floors - With some exceptions the code now requires ½ inch gypsum board to be applied to the underside of floor assemblies.

2012 IRC - Section R703.8; Flashing - Pan flashing at the sill is now required when flashing details are not provided by window and door manufacturer.

2012 IRC - Section R905.2.8.5; Roof Drip Edge - A roof drip edge is now required for asphalt shingles.

2012 IRC - Section N1101.15; Certificate - A permanent energy compliance certificate shall be completed and posted on or in the electrical panel by the builder or design professional.

2012 IRC – Table 1102.1.1; Climate Zones Added and changes in table.

Climate Zone	Fenestration	Skylight	Glazed	Ceiling	Wood Frame	Floor	Slab Depth	Crawl Space
	U-Factor	U-Factor	SHGC	R-Value	R-Value	R-Value	R-Value	R-Value
3B	0.35	0.55	0.25	38	19, 13+5	19	0	5/13
4B	0.35	0.55	0.40	38	19, 13+5	19	10, 2 FT.	10/13
5B	0.32	0.55	NR	38	19, 13+5	30	10, 2 FT.	15/19
6B	0.32	0.55	NR	38	20+5, 13+10	30	10, 4 FT.	15/19

2012 IRC - Section N1102.2.9; Slab-on-grade Floors - Slab on grade floors in Coconino County require R-10 insulation for a minimum depth of 2 feet, at least 12 inches into earth.

2009 IRC - Section N1103.4.2; Hot water piping is required to be insulated in many cases.

2009 IRC - Section N1103.7; Snow Melting System Controls - A new section in the IRC requires automatic shut-off controls on snow melt systems to conserve energy.

2012 IRC - Section N1104; Lighting Systems - 75% of the lamps installed in permanent lighting fixtures are now required to be compact fluorescent or other high-efficacy lamps.

2009 IRC - Section M1411.6; Refrigerant circuit access ports located outdoors shall be fitted with locking type tamper-resistant caps.

2009 IRC - Section M1503.4; Makeup Air for Kitchen Exhaust Hoods - Exhaust hoods greater than 400 CFM require make-up air.

2009 IRC - Section M1601.6; Independent Garage HVAC System - HVAC systems are not allowed to serve both the dwelling and the garage.

2012 IRC - Section M2103.2; Hydronic Floor Heating Systems - Now requires R-5 thermal insulation below the piping or tubing in slab construction, R-11 suspended floors.

2009 IRC - Section G2439.5; Dryer Duct Length - Maximum duct length has been increased to 35 feet and a New Table that has additional reductions for certain fittings that could be used. Maximum length shall be determined by the manufacturer. The code official shall be provided with a copy of the installation instructions.

2009 IRC - Section G2439.5; Dryer Duct Length Identification - Where the exhaust duct is concealed within the building construction, the length of the duct shall be identified on a permanent tag or label located within 6 feet of the duct connection.

2009 IRC - Section P3005.2.6; Cleanouts at the Base of Stacks - A cleanout is now required at the base of each sanitary drainage stack. Alternative locations near the stack or outside the building are no longer permitted.

2009 IRC - Section E3607.3; Grounding for Buildings Supplied by Feeders - The code no longer permits feeders or branch circuits without an equipment grounding conductor to serve separate buildings.

2009 IRC - Section E3609.3; Intersystem Bonding Termination - Bonding terminations for satellite, communication, and cable are required in one of three accessible locations. (1) terminals at the meter enclosure (2) A bonding bar near the SES (3) A bonding bar near the grounding electrode conductor.

2009 IRC - Section E3901.7; Outdoor Outlets - A receptacle outlet is now required for each balcony, deck, or porch 20 square feet or greater in area.

2009 IRC - Section E3902.2-5; GFCI Protection - Now required for all 125-volt, single phase, 15- and 20- ampere receptacles in garages and unfinished basements.

2009 IRC - Section E3902.11; Arc-Fault - Arc-fault protection for branch circuits has been expanded to include all habitable spaces (except where GFCI are required), hallways, closets, and similar areas. Only a combination type arc-fault circuit interrupter is permitted and it must protect the entire branch circuit.

2009 IRC - Section E4002.14; Tamper-Resistant Receptacles - Now required for all 125-volt 15- and 20 amp receptacles installed inside and outside of dwelling units, and in attached and detached garages.

2009 IRC - Section E4209.1; Hydro-massage Tubs - Now required to be on an individual branch circuit. The required GFCI device must be readily accessible.