

# 2015 IRC Significant Changes Summary

## Tier I

- R301.2.1 – New wind design provisions. Requirement added for a continuous load path to transmit uplift forces from roof to foundation.
- R301.2.1.1 – Tables R301.2(4) have changed.
- R301.2.1.1.1 - Section added for Sunrooms
  - Sunrooms must comply with AAMA/NPEA/NSA 2100
  - Shall be identified by one of the 5 added categories on the construction documents
- R301.2.1.2 – Added to establish the wind zone to determine the missile types per ASTM E1996. New map added for Wind Debris Regions.
- R301.2.1.3 – Section reworded. Removes fasted mile and 3 second gusts and old table. Based on nominal design wind speeds and conversion between ultimate design wind speeds. Table R301.2.1.3 changed with new conversions for wind speed. Brought in alignment with the IBC requirements.
- R301.2.1.4 – Wind exposure category A was deleted, because it was deleted in the IBC and ASCE 7. Wind exposure category D deleted shorelines including inland waterways, the Great Lakes, coastal area of California, Oregon, Washington, and Alaska. It will now extend a distance of 600 feet or 20 times the height of building.
- Table R301.2.1.5.1 – Table updated for the change in wind speed values of R301.2.1.3
- R301.2.1 – Section broken into two categories; one- and two family dwellings and townhouses for seismic provisions.
- R302.1 – Two tables introduced to address building with fire sprinklers and those without fire sprinklers.
  - Category was added to tables to not allow projections for minimum fire separation distance less than 2 feet of lot line.
  - Footnote A allows for a zero lot line separation if all of the buildings are provided with fire sprinklers in a subdivisions, and one side is provided with a minimum 6 ft setback.
- R302.2 – Townhouses common walls shall be separated by a 1-hour wall with fire sprinklers or a 2-hour wall without fire sprinklers. Walls shall be rated from both sides. Common walls shall be constructed without plumbing, mechanical equipment, ducts or vents in the cavity.
- R302.2.2 – The exception to number 2 as Class C rating test with ASTM E108 or UL 790. Noncombustible material or approved fire retardant treated wood, or 5/8" Type X gypsum board installed for 4 feet on either side of the common wall. No openings or penetrations are permitted within 4 feet of common wall.
- R302.13 – Floor assemblies for non-fire-rated shall be protected on the underside of the floor framing members with ½" gypsum board, 5/8" wood structural panel, or equivalent. Penetrations for ducts, vents, electrical outlets, lighting devices, luminaires, wires, speakers, drainage, piping or similar openings are permitted. Exception 1 – protected by fire sprinklers. Exception 2 – located directly over a crawl space not intended for storage or fuel-fired

equipment. Exception 3 – area less than 80sq ft per story, and Fireblocking in cavity between protected and unprotected portions. Exception 4 – Wood floor assemblies using structural composite lumber, or 2x10 nominal or greater.

- R303.4 – When blower door tests is  $\leq 5$  ACH per energy code requirements, a whole house ventilation system per M1507.3 is required.
- R309.5 – Fire sprinklers requirements for private garages.
- R310 – Section is reorganized and renumbered.
- R310.1 – Sill height removed for its own subsection (R310.2.2) Storm shelters added to exception.
- R310.1.1 – Operational constraints and opening control devices – window opening devices comply with ASTM F 2090.
- R310.2.3.2 – Window well drainage requirements added.
- R310.3 - section added for requirements with rescue and escape doors. Side hinged, provide drainage, minimum door opening size.
- R310.5 – Requirements for dwelling additions that contain sleeping rooms shall provide emergency escape and rescue openings. Exceptions provided for sleeping rooms in basement with emergency escapes and rescue openings. Exception 2 – new basement where escape and opening provided in existing basement accessible from new basement.
- R310.6 – Requirements for alterations and repairs of existing basements. Not required in existing basements except for when new sleeping rooms are created.
- R311.1 – Egress door shall open directly into public way or yard, or court that opens to public way.
- R311.3.1 – measured at landing or finished floor. Exception requires measure to be taken at landing or floor on the exterior side of door.
- R311.3.2 – exception now specifies that a top landing not required.
- R312.2.1 – top of sill of operable window opening is less than 24” above finished floor and greater than 72” above finished grade:
  - Operable windows will not allow a 4” sphere to pass through opening
  - Operable windows provided with window fall protection devices that comply with ASTM F 2090
  - Operable windows provided with opening devices that comply with section R312.2.2.
- R312.2.2 – Control devices comply with ASTM F 2090. After release to fully open shall not reduce the clear net opening area of window to less than what’s required in R310.2.1.
- R314 - entire section revised
- R314.1.1 – Combo smoke/co listed with UL 217 and UL 2034
- R314.2.1 – New construction requirements
- R314.2.2 – Alterations, repairs, and additions required as new construction.
- R314.3 – added 4<sup>th</sup> requirement not less than 3 ft from opening of bathroom containing bathtub or shower.
- R314.3.1 – Not installed near cooking appliances. Requirement 1 – Ionization smoke alarms shall be installed less than 20 ft from cooking appliance. Requirement 2 – Ionization smoke alarm with silencing switch installed less than 10 ft from cooking appliance. Requirement 3 – Photoelectric smoke alarms not installed less than 6 ft from cooking appliance.

- R314.5 – Combination smoke/co allowed.
- R314.7 – Fire alarm systems are permitted in lieu of smoke alarms. Comply with NFPA 72. Combination smoke/co listed with UL 268 and UL 2075.
- R324 – New Section requirements For solar energy systems
- R324.2 – Solar thermal system in accordance to Chapter 23 and the IFC
- R324.3 – Comply with this section and NFPA 70. Inverters listed and labeled UL 1741.
- R324.3.1 - PV panels and modules listed and labeled with UL 1703.
- R324.4 – Rooftop mounted PV panel systems R907.
- R324.5 – Building-integrated PV R905.
- R324.5.1 - Photovoltaic shingles R905.16
- R324.6 – Ground mounted PV R301
- R324.6.1 - Fire separation distance required.
- R324.7.1 - Requirements for roof access points.
- R324.7.2.1 – Size requirements for PV array- 150 ft by 150 ft. multiple arrays separated by 3 ft of clear access pathway width.
- R324.7.2.2 – Hip roof layout requirements exception for slopes less than 2:12.
- R324.7.2.3 - Single ridge roof provide two 3 ft wide access pathway exception for slopes less than 2:12.
- R324.7.2.4 – Shall not be installed less than 18 inches from roof hips or valleys. Exception for slopes less than 2:12.
- R324.7.2.5 - not located less than 3 ft below the roof ridge for smoke ventilation operations. Exception for alternative ventilation methods approved by code official.
- Table R502.3.1(1) and Table R502.3.1(2) spans changed in tables
- R502.10 – Approved hangers portion deleted.
- R507.2 – New section on deck requirements including deck ledger connection in accordance to section and Tables R507.2 and R507.2.1 and figures R507.2.1(1) and R507.2.1(2).
- R507.2.1 - Ledger shall be minimum 2x8” pressure treated, naturally durable, #2 grade or better. Shall not be supported on stone or masonry veneer.
- R507.2.2 – Band joist shall be in accordance to the new requirements within this section
- R507.2.4 – Lateral load connection hold-down devices installed not less than four locations per deck. Allowable stress design not less than 750 pounds.
- R507.3 – New section with requirements for plastic composite deck boards, stair treads, guards, or handrails including labeling, flame spread index, decay resistance, termite resistance, and installation.
- R507.4 – Decking with Table R507.4 New Table
- R507.5.1 – requirements for lateral restraints for deck joists.
- Table R507.5 -new
- R507.6 - Deck beams requirements including new Table R507.6
- R507.7 - deck joist and beam bearing
- R507.8 – New section on deck posts with new table T507.8
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- R507.8 – New section on deck posts with new table T507.8
- Table R802.4(1) values changed
- R802.7 – Portions of section deleted
- R802.7.1.1 – 4" reduced to 3 ½" with figure R802.7.1.1
- R802.7.1.2 – New section on ceiling joist taper cut with figure R802.7.1.2
- R802.10.5 – section deleted
- R802.11.1 – section rewritten uplift resistance
- R802.11.1.2 - New section truss uplift resistance reference new table R802.11
- R802.11.1.3 – New section rafter uplift resistance reference new table R802.11
- Table R802.11 deleted and new table created (Table R802.11)
- R806 – Exception 1:300 changed
- R806.2 – 40-50% of ventilation at upper portion of attic, and no more than 3 ft below ridge. The remainder at eave or cornice. Exception deleted
- R806.5 – adds enclosed rafter assemblies to attics. Air impermeable insulation board added
- Table 806.5 new footnote added
- R902.3 – New section Building integrated photovoltaic product section added
- R902.4 – New section Rooftop-mounted photovoltaic panels and modules- fire classification UL 1703 Class A, B, or C where less than 3 ft from lot line
- R905.16 – New section -photovoltaic shingles comply with section and NFPA 70.
- R905.16.1 – Deck requirements
- R905.16.2 – Deck slope > 2:12
- R905.16.3 – Underlayment conform to ASTM D4869 or ASTM D6757.
- R905.16.4 – underlayment application
- R905.16.4.1 – Ice barrier and exception for accessory structures
- R905.16.4.2 – underlayment and high winds
- R907 – New section Rooftop-mounted Photovoltaic Systems
- R907.1 – comply with this section, R324, and NFPA 70.
- R907.2 – Wind resistance comply with Table 301.2(2) and Table 301.2(3)

- R907.3 – Panels same fire classification as roof assembly from R902.
- R907.4 – Installation man spec
- R907.5 – PV panels and modules listed labeled in accordance to UL1703
- R909 – New section Rooftop-Mounted Photovoltaic Panel Systems
- R909.1 - comply with this section, R324, and NFPA 70.
- R909.2 – structural requirements
- R909.3 – Installation requirements
- Energy provisions (old Chapter 11) have been deleted from the IRC, and replaced with the new IECC residential provisions. It is cut and paste.
- M1301.4 - New section - plastic pipe fittings and components third party certified as conforming NSF 14.
- M1301.5 – New section – third party testing and certification requirements
- M1507.1 – require whole house mechanical ventilation
- M1507.3 – new section whole-house mechanical ventilation system requirements
- Table M1507.3.3(1) –new table
- Table M1507.3.3(2) – new table
- M1507.4 new exhaust rates
- Table M1507.4 – new table
- M1601.1.1 – Exterior wall studs not permitted to be used as air plenums.
- Old chapter redone. New sections to replace old chapter
- M2301.2 - design and installation
- M2301.2.2 – collectors and panels
- M2301.2.2.2 – Collector sensors
- M2301.2.3 – Pressure and temperature relief valves and system components
- M2301.2.5 – Piping insulation
- M2301.2.7 – Storage tank sensors
- M2301.2.8 – Expansion tanks
- M2301.2.10 – Description and warning labels
- M2301.2.11 – Solar loop
- M2301.2.11.2 – Drain and fill valve labels and caps
- M2301.4 – Heat transfer gasses or liquids and heat exchangers
- M2301.6 – Filtering
- M2301.7 – Solar thermal systems for heating potable water
- P2502.1 – section reworded for existing building sewers and building drains
- P2503.4 – new testing pressure of 5 psi greater than pump rating and maintain pressure for 15 minutes.
- P2503.5.1 – head pressure reduced from 10 ft to 5 ft. Plastic piping not permitted to use air for testing
- P2802 – new section added –Solar water heating systems
- P2901.1 – section revised for additional
- P2901.2 – new section identification of nonpotable water systems
- P2901.2.1 – new section signage requirements
- P2901.2.2 – new section distribution pipe labeling and marking

- P2901.2.2.1 – new section color
- P2901.2.2.2 – new section lettering size
- Table P2901.2.2.2 new table
- P2901.2.2.3 – new section identification tape
- P2910 – new section Nonpotable water systems
- R2911 – new section On-site nonpotable water reuse systems
- P2913 – new section Reclaimed water systems
- P3009 – grey water section removed replaced with Subsurface landscape irrigation systems
- P3010 – new section Replacement of Underground Sewers by Pipe Bursting Methods
- P3201.2.1 – new section Trap seal protection
- P3201.2.1.1 – new section Potable water supplied trap seal primer valve
- P3201.2.1.2 – new section Reclaimed or grey water supplied trap seal primer valve
- P3201.2.1.3 – new section Water-waste supplied trap primer device
- P3201.2.1.4 – new section Barrier- type trap seal protection device
- Appendix T - This is a new appendix to aid in energy requirements and mechanical requirements
- Appendix U - This is a new appendix to provide requirements for buildings to be more readily prepared for solar installation at a later date that at time of construction.

## Tier II

- R301.2.4 – Most restrictive provisions apply to structures located in more than one flood plane. The exception was removed.
- R301.3 – Wood, cold-formed steel, insulated concrete, and SIP walls not exceed 11 feet, 7 inches. Masonry wall height not exceed 13 feet, 7 inches. The exception for wood walls was deleted.
- Table R301.5 – Uninhabitable was added to attic category uses without storage and limited storage to clarify.
- Table R301.7 – Ceilings with brittle finishes and Ceilings with flexible finishes added to table. Exterior walls (structural members) redefined in table.
- R302.1 – Two tables introduced to address building with fire sprinklers and those without fire sprinklers.
  - Category was added to tables to not allow projections for minimum fire separation distance less than 2 feet of lot line.
  - Footnote A allows for a zero lot line separation if all of the buildings are provided with fire sprinklers in a subdivisions, and one side is provided with a minimum 6 ft setback.
- R302.2 – Townhouses common walls shall be separated by a 1-hour wall with fire sprinklers or a 2-hour wall without fire sprinklers. Walls shall be rated from both sides. Common walls shall be constructed without plumbing, mechanical equipment, ducts or vents in the cavity.
- R302.2.2 – The exception to number 2 as Class C rating test with ASTM E108 or UL 790. Noncombustible material or approved fire retardant treated wood, or 5/8" Type X gypsum board installed for 4 feet on either side of the common wall. No openings or penetrations are permitted within 4 feet of common wall.

- R308.4. – new subsections were added that were created out of the listed conditions for hazardous locations. Condition 6 glazing in walls/fences adjacent to indoor and outdoor swimming pools combined with condition 5.
- R308.4.1 – Glazing in doors
- R308.4.2 - glazing adjacent to doors bottom exposed edge is less than 60" and meets either condition added. Condition 1 – 24" on either side of closed door. Condition 2 – perpendicular of door in closed condition within 24" of hinge side of in-swing door. Exception 3 deleted.
- R308.4.3 – Glazing in windows
- R308.4.4 – Glazing in guards and railings
- R308.4.5 – Glazing in wet surfaces – Spas, indoor and outdoor swimming pools were added to list for requirements. Exception clarifies from the edge for shower, sauna, or steam room.
- R308.4.6 – Glazing adjacent to stairs and ramps- rewords for bottom exposed edge of less than 36" above plane. Exception 2 replaced with glazing 36" or more from walking surface. Exception 3 deleted.
- R308.4.7 – Glazing adjacent to the bottom stair landing – changed to glazing less than 36" above landing and a 60" arc of 180 degrees from bottom tread nosing. Exception 2 deleted.
- R308.6.9 .1 – new requirements for comparative analysis for glass-glazed unit skylights, and adds in accordance to WDMA I.S. 11.
- R311.3.1 – measured at landing or finished floor. Exception requires measure to be taken at landing or floor on the exterior side of door.
- R311.3.2 – exception now specifies that a top landing not required.
- R311.8.1 – Ramps serving egress shall not have a slope greater than 1:12. All other ramps have a maximum slope of 1:8.
- R312.1.2 – guard required at height above fixed seating deleted.
- R325 – New section for requirements of mezzanines
- R325.2 – clear height above and below mezzanine of not less than 7 feet.
- R325.3- aggregate area not greater than 1/3 of floor area of room its located Enclosed portion of room not be included in floor area of room.
- R325.4 – means of egress must be provided
- R325.5 – shall be open except for walls not more than 42" in height
- R404.1.9 – New section for Isolated Piers. 8" minimum thickness, length not to exceed 3x the nominal thickness, height not to exceed 4x the nominal thickness. Exception Filled solid with grout height maybe 10x the thickness.
- R404.1.9.1 – Pier cap for hollow masonry a minimum of 4" solid masonry or concrete cap. Termite protection required at cap if required.
- R404.1.9.2 – Isolation masonry piers supporting floor girders – interior bearing walls 12" minimum thickness, 10' maximum height. Exterior bearing walls 12" minimum thickness, 4' maximum height – height measured from bottom of footing/thickness applies to pier not masonry unit. Piers supporting braced wall panels must be designed using acceptable engineering practice.
- R404.4 – Retaining wall not laterally supported at the top in excess of 48 inches designed in accordance with accepted engineering practice. Not apply to foundation walls supporting buildings.

- R405.1 – Foundation drainage perforated drains provided with gravel or crushed rock, filter membrane be provided or around rock/gravel fill.
- R703.3 – New language added to clarify use of Table R703.3(1), fastener type, length, and penetration. New Tables R703.3(1), R603.3(2)
- R703.3.1 – new section and new table R703.3.1
- R703.3.2 – new section on fasteners and new Table R703.3.2
- R703.4 – Increased requirements for flashing
- R703.5 – New language with new compliance testing. Footnote i from Tables R703.4 became section R703.5.2, and footnote j became section R703.5.1.
- Table R703.6.1 values changed
- R703.5.3.1 – section deleted
- R703.6.3 – new attachment requirements including standards, installation, placement, fastener.
- Table R703.6.3(1) new table
- Table R703.6.3(2) new table
- R703.7.4 – section deleted but created a new table R703.7.4
- R703.8.4.2 – Grout is now required, mortar is no longer permitted to fill 1” air space
- R703.9 – new requirements for EIFS
- R703.11.1 – New requirements for vinyl siding including fasteners, penetration depth, spacing, soffit panels.
- R703.12 – New section on adhered veneer- requires flashing at foundation, water resistive barrier, and new installation requirements.
- R703.13 - New section for insulated vinyl siding- conform to ASTM D7793 and installed per man spec
- R703.14 – New section for Polypropylene siding – conform to ASTM D7254, installed man spec, fastener requirements, and fire separation.
- R703.15 - New section for Cladding attachment over foam sheathing to wood framing – attachment New Tables 703.15.1 and R703.15.2.
- R703.16 – New section for cladding attachment over foam sheathing to cold-formed steel framing – attachment New Tables 703.16.1 and 703.16.2
- R703.17 – New section for Cladding attachment over foam sheathing to masonry or concrete wall construction
- M1301.2 – New section identification
- M1301.3 – New section - Installation of materials- man specs
- M1411.8 - secure to prevent unauthorized access to refrigerant circuit access ports
- Table M1601.1(1) table deleted
- Table M1601.1.1 table added
- M1601.2 – section deleted
- M1601.4.1 – Requirements for joints, seams, and connections – tapes and mastics
- M1601.4.2 – section added for duct lap
- M1601.4.4 – section reworded UL 181, SMACNA, NAIMA
- M1602.1 - replaced with new section Outdoor air openings
- M1602.2 – replaced with new section – return air openings



- M2105 – old section deleted and new sections with requirements for Ground-source heat-pump system loop piping
- Table M2105.4 table added
- Table M2105.5 table added
- R2601.2 – new exception added
- R2603.2.1 – Reduced from 1 ½” to 1 ¼”
- R2603.3 – Thickness of material for protection reduced. Section reworded.
- R2603.4 – Pipes under footing no longer regulated only pipes passing through foundation wall.
- Table R2605.1 values changed
- P2606 – Requirements for sealing of annular spaces
- Table P2608.4 deleted
- P2609.1 – Pipes must be marked with identification of manufacturer. Exception added – for identification because of size shall be printed on packaging
- P2609.4 – Pipes third party listed
- P2706.1 – Waste receptor not installed in attics, crawl spaces, interstitial spaces above ceiling and below floors. –exception added to permit clothes washers standpipes in bathrooms.
- P2709.2 – shower lining height now 2”
- P2709.2.1 - thickness requirement deleted
- P2709.2.2 – thickness requirement deleted
- P2709.2.4 – new section liquid type, trowel applied, load bearing, bonded waterproof materials
- P2713.1 – Overflow required, outlet not less than 1 ½”, and watertight stopper required.
- P2717.2 - Combined section P2717.2 and P2717.3 to new section 2717.2
- P2801.2 – new section Drain valves
- Table P2903.9.4 new table
- P2905.1 – new section heated water circulation systems and heat trace systems
- P2905.2 – new section demand recirculation systems
- P2906.2 – new section lead content not greater than 8 percent
- P2906.2.1 new section lead content of drinking water pipe and fitting – comply with NSF 372 and .25 percent lead

## **Tier III**

- ACCESSORY STRUCTURE. – Definition changed
- ALTERNATING TREAD DEVICE – Definition added
- BACKFLOW PREVENTER – Definition changed
- BUILDING-INTEGRATED PHOTOVOLTAIC PRODUCT – Definition added
- CIRCULATING HOT WATER SYSTEMS – Definition added
- CLIMATE ZONE – Definition added
- COLLECTION – Definition added
- CONDITIONED SPACE. – Definition changed
- CONTAMINATION – Definition changed
- CONTINUOUS INSULATION – Definition added

- CROSS-LAMINATED TIMBER– Definition added
- CURTAIN WALL [PER Chapter 11) – Definition added
- (DEAD END) – Definition removed
- DEMAND RECIRCULATION WATER SYSTEM (per Chapter 11) – Definition added
- DIRECT SYSTEM – Definition added
- DRAIN-BACK SYSTEM – Definition added
- DURHAM FITTING – Definition removed
- DURHAM SYSTEM. – Definition removed
- EFFECTIVE GROUND FAULT CURRENT PATH – Definition added
- ENGINEERED WOOD RIM BOAR) – Definition added
- ERI REFERNECE DESIGN – Definition added
- EXTERIOR WALL COVERING – Definition added
- FACTORY-MADE AIR DUCT – Definition added
- FIBER-CEMENT SIDING. Definition removed
- FIBER-CEMENT [BACKERBOARD, SIDING, SOFFIT, TRIM AND UNDERLAYMENT PRODUCTS] – Definition added
- Masonry chimney. – Definition removed
- FLEXIBLE AIR CONNECTOR – Definition added
- GREY WATER. – Definition added
- GROUND FAULT CURRENT PATH – definition added
- GUESTROOM – Definition added
- GYPSUM BOARD – Definition added
- GYPSUM PANEL PRODUCT – Definition added
- HISTORIC BUILDING – Definition added
- HURRICANE-PRONE REGIONS. - Definition changed
- INDIRECT SYSTEM – Definition added
- INSULATED SIDING – Definition added
- INSULATED VINYL SIDING – Definition added
- LIGHTING TRACK –Definition added
- LOCAL EXHAUST – Definition added.
- LODGING HOUSE – Definition added.
- MECHANICAL JOINT – Definition added
- MEZZANINE – Definition changed
- NAILABLE SUBSTRATE – Definition added
- NONCONDITIONED SPACE – Definition removed
- ON-SITE NONPOTABLE WATER REUSE SYSTEMS – Definition added
- PAN FLASHING – Definition added
- PERFORMANCE CATEGORY. – Definition added
- PHOTOVOLTAIC MODULE. – Definition added
- PHOTOVOLTAIC PANEL– Definition added
- PHOTOVOLTAIC PANEL SYSTEM– Definition added
- PHOTOVOLTAIC SHINGLES. – Definition added
- PLASTIC COMPOSITE. – Definition added

- PLUMBING SYSTEM – Definition changed
- POLLUTION. – Definition changed
- POLYPROPYLENE SIDING. – Definition changed
- RATED DESIGN. – Definition added
- RECLAIMED WATER. – Definition added
- REFLECTIVE DUCT INSULATION. – Definition added
- REPAIR – Definition changed
- RISER – Definition changed
- ROOF REPLACEMENT. – Definition added
- SIDE VENT – Definition removed
- SHINGLE FASHION. – Definition added
- SKYLIGHT AND SLOPED GLAZING. – Definition added
- SKYLIGHT, UNIT– Definition added
- STACK VENTING. – Definition removed
- STAIRWAY, SPIRAL. – Definition added
- STORY ABOVE GRADE PLANE. Definition changed
- STRUCTURAL COMPOSITE LUMBER. – Definition added
- THIRD-PARTY CERTIFICATION AGENCY. – Definition added
- THIRD PARTY CERTIFIED. – Definition added
- THIRD-PARTY TESTED. – Definition added
- TUBULAR DAYLIGHTING DEVICE (TDD). – Definition added
- VEHICULAR ACCESS DOOR. – Definition removed
- WASTE RECEPTOR. – Definition added
- WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM– Definition added
- WIND-BORNE DEBRIS REGION. – Definition changed
- WOOD/PLASTIC COMPOSITE. – Definition removed
- R301.2.1 – Scoping extends to 110 mph for hurricane prone regions. Adds IBC as a design reference for forces exceeding 110 mph. Table R301.2(2) updated with the new wind requirements.
- R303.1 – Skylights added to list for natural ventilation. Exception 1 states ventilation openings not required if requirements of M1507 are met.
- R303.3 – Reference the exhaust rates of M1507, and shall discharge to the outdoors.
- R303.5.1 - Revises separation of intake openings from vents, chimneys, plumbing vents, street, alleys, parking lots, and loading docks not less than 10 feet. Exception 1 added - 10 feet not required if opening is located 3 feet or greater. Exception 2 added – Vents Chimneys in accordance to Chapters 18 and 24. Exception 3 added – Dryer exhaust ducts in accordance to section M1502.3
- R303.6 Interior and exterior stairway illumination provisions have been placed in separate sections R303.7 and R303.8.
- R303.7 – Provide with artificial light source to illuminate treads, and shall have a wall switch at each level where six or more risers are installed.

- R303.8 – Provide with an artificial light source located at the top landing of the stairway. Exterior stairways providing access to a basement from the outside shall be provided with a light source at the bottom landing of stairway.
- R304.1 – Minimum area of habitable rooms shall be a minimum of 70 sq ft.
- R305.1 – Ceiling heights for bathrooms, toilet rooms shall have ceiling height of not less than 6’ 8”. Exception 2 added – revised for shower area. Exception 3 added - Beams, girders, ducts, or other obstructions in basement shall have ceiling height of not less than 6’ 4”. City amendments further amend this to a minimum 6’.
- R316.4 – Previous test methods replaced with NFPA 275 for equivalency to 1/2” gypsum.
- R316.5.13 – New section added for requirements for floors. 1/2” nominal wood structural panel permitted as walking surface.
- R317.1.4 – exception 3 added – deck post 1” above concrete floor or 6” above earth.
- R320.1.1 Guest room requirements added for accessibility.
- R322.1 – Coastal A Zones added. Buildings in more than one flood hazard area shall comply with the most restrictive provisions.
- R322.2.1 – Elevation requirement 2 is deleted.
- R322.3 – adds areas having wave heights between 1 1/2ft and 3ft.
- R326 – New section for swimming pools, spas and hot tubs – reference the International Swimming Pool and Spa Code.
- R403.1.1 – Minimum width, W, and thickness, T for footings shall be in accordance with Tables 403.1(1) – R403.1(3) and figure R403.1 or 403.1.3.
- Tables R403.1(1) – R403.1(3) new
- R403.1.2 – Continuous footing in seismic categories D0,D1, and D2 supported by continuous solid or fully grouted masonry or concrete footings. Exception for two story buildings with three conditions.
- R403.1.3 - Footings and stem wall reinforcement in seismic categories D0,D1, and D2 installed with support in accordance with section R403.1.3.5.
- R403.1.3.1 – One No 4 horizontal bar install within 12” of the top of the stem wall, and one NO 4 install 3 to 4 “ from bottom of footing. Vertical bar deleted from section.
- R403.1.3.2 - -Vertical bar shall have a standard hook and extend to the bottom of the footing and extend a minimum 14” into the stem wall. One No 4 horizontal bar install within 12” of the top of the stem wall, and one NO 4 install 3 to 4 “ from bottom of footing. Exception deleted.
- R403.1.3.3 – Now required for seismic categories D0,D1, and D2 cast monolithically. One No5 bar or two NO 4 bars in the middle third of the footing depth. Exception removed.
- R403.1.3.5.1 Steel reinforcement shall comply with ASTM A615, A706, or A996. Minimum strength 40,000 psi.
- R403.1.3.5.2 – location of reinforcement in wall.
- R403.1.6 – Foundation anchorage is required to be located in the middle third of the width of the plate.
- R903.2.1 – additional language for roof flashing to divert water away from adjacent
- R903.2.2 – Exception added for skylights
- R905.1.1 – requirements for underlayment
- Table R905.1.1(1) new table

- Table R905.1.1(2) new table
- R905.2.8.3 – continuous flashing permitted, extend under siding, special provisions for anchored veneer and plaster flashing
- R905.2.8.5 – required drip edge eaves and gable extend 2” under roof, 2” overlap, underlayment over drip edge.
- R905.7.5 – requirements for application of wood shingles. New table R905.7.5(2)
- R905.8.6 – requirements for application of wood shakes. New table R905.7.5(2)
- R908 –New section on reroofing- broken into roof recover and roof replacement
- R1003.9.1 – chimney caps required
- R1003.9.3 – cap 4 times area of net free area of flue
- R1005.7 – Factory built chimney offsets 30 degrees from vertical not more than four elbows.
- M1502.4.1 – 28 ga permitted
- M1502.4.2 – support at 12 ft intervals
- M1502.4.4.1 – length increases to 35 ft
- M1502.4.4 – new section dryer exhaust duct power ventilators
- M1502.4.5 – new section
- M1502.4.6 – identify dryer exhaust length if exceeds 35 ft.
- M1901.2 – Cooking appliances shall be listed and labeled for household use.
- M1901.3 – Commercial appliances not permitted
- G2404.11 – new section added – Condensate pumps
- G2409.1 – adding gypsum and clearance reduction
- G2411.1.1 – Bonding of CSST gas piping
- G2411.1.1.1 –point of connection
- G2411.1.1.2 – jumper not smaller than 6 AWG copper wire
- G2411.1.1.3 – jumper length not exceed 75 ft
- G2411.1.1.4 – Bonding connection with NFPA 70
- G2411.1.1.5 – Connection devices with UL 467
- G2412.9 – New section - shall be identification of manufacturer
- G2412.10 – New section - third party testing and certification requirements
- G2413.2 – most of section deleted, and Table G2413.2 deleted
- G2414.6 – PVC and CPVC shall not be used to supply fuel gas
- G2415.1 – Installation of Materials
- G2415.5 – fittings in concealed locations – threaded elbows, tees, and couplings, brazed fittings, welded fittings, fittings listed to ANSI LC-1/CSA 6.26 or ANSI LC-4. Exceptions deleted
- G2415.7 – Section rewritten to extend protection. Exception added for black steel piping and galvanized steel piping not requiring protection.
- G2415.7.1 – new section - piping through bored holes or notches.
- G2415.7.2 – new section – piping installed in other locations
- G2415.7.3 – new section – shield plates
- G2421.2 - Unions required with MP regulator rigid piping
- G2422.1 – Connecting hoses for appliances must comply with ANSI Z21.54
- G2426.7.1 – new section door swing not located within 12” of vent termination. Door stops or closures not allowed to obtain clearance.

- G2427.4.1 new section plastic piping requirements
- G2427.6.8.3 – Sizing of plastic piping in accordance to manufacturer’s instructions for Category II, III, and IV.
- G2427.8 – added requirement for venting systems category IV appliances
- G2439.4 – Dryer exhaust duct power ventilators comply with UL 705
- G2439.7.2 – ducts not joined with screws or similar fasteners protrude more than 1/8” in duct
- G2439.7.4.3 - – Dryer exhaust duct power ventilators length requirements
- G2439.7.5 – length identified if exceeds 35 ft.
- G2442.4 – prohibited sources- cooling systems added- 10 ft separation of return air and draft hood or combustion chamber of atmospheric burner. Exception 2 added – dedicated forced air serving garage.
- P2801.6 – pan constructed in one of three new requirements
- P2801.6.1 – pan drain not required for replacement water heater without required pan
- P2804.6.1 – terminate not less than two times the discharge pipe diameter above flood rim level. Add additional requirement for one size larger than relief valve outlet constructed of PEX or PE-RT tubing.
- R2912 – new section Nonpotable rainwater collection and distribution system
- P3003.9.2 – new exceptions added for solvent cementing
- P3003.14- joint shall be bolted
- P3005.2 – cleanouts required entire section revised
- P3007.3.5 – Ejector pumps now permitted to connect to soil stacks, waste stacks, and horizontal branch drains wye located within 10 pipe diameters from soil stack, waste stack or fixture
- P3008.1 new exception added
- P3103.1 – Roof vent extension terminate not less than 7 feet about roof
- R3103.2 - new requirements for inside thermal envelope of the building
- P3103.5 - vent terminal within 10 not less than 3 ft above top of opening.
- E3404.12 – original text moved into section E3404.13 new section Field-applied hazard markings
- E3405.3 – broken into 2 sections – indoor dedicated panel space and E3405.4
- E3405.4 - new section Outdoor dedicated panel space
- E3406.13 - new section Connection of grounding and bonding equipment
- E3406.13.1 – new section Permitted methods
- E3601.4 – exception 1 adds grounding electrode conductors
- E3603.1 - new section and subsections – grounded and ungrounded service conductor
- Table E3603.1 table deleted
- E3604.5.1 – new section –Strength
- E3604.5.2 – new section attachment
- E3608.1.2 – broken into parts for application of concrete-encased electrodes
- E3608.4 – additional electrode to be bonded. Exception for single electrode resistance to earth of 25 ohms or less
- E3705.4.5 – new section Conductors of Type SE cable
- E3901.7 – outdoor outlet required for any size deck, porch, or balcony.
- E3901.9 – Garage receptacle served by a separate dedicated branch circuit. One receptacle for each car space.

- E3901.11 – new section Foyers- larger than 60 sq ft require a receptacle.
  - E3902.8 – section moved from E3902.1 – GFCI within 6 ft of bathtub or shower
  - E3902.9 – new section laundry areas GFCI laundry areas
  - E3902.10 – new section Kitchen Dishwasher Branch Circuit – GFCI receptacle supply to dishwasher
  - E3902.11 – new section Location of GFCI- readily accessible location
  - E3905.8 – ceiling outlet box wired for future ceiling fan the box must be listed for support of fan.
  - E4001.11.1 – New exceptions added
  - E4001.12 – Exceptions removed and 7 requirements added
  - E4002.14 - new exceptions added to not require tamper resistant receptacles
  - E4002.15 – new section Dimmer-controlled receptacles
  - E4203.4.3 – low-voltage luminaires permitted to be located less than 5ft of inside wall of pool.
  - E4204.2 – new exceptions added to requirement 1.
  - E4207.5 – new section Clearances
  - E4207.6 – new section Disconnecting means
  - E4207.7 – new section GCFI
  - E4207.8 –new section Grounding of equipment
  - E4207.9 – new section Pool water heaters
  - E4209.3 – corded equipment for hydro massage tub face of receptacle within 12” of face of access opening.
  - AF103 – entire section reworded and new subsections added
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- Previous Appendix G (swimming pools) was deleted and replaced with new appendix for piping.
  - Previous appendix Q (IRC electrical NEC cross reference) was deleted, no new appendix was placed here.
  - Appendix R - This is a new appendix that deals with light straw-clay construction
  - Appendix S - This is a new appendix that deals with Strawbale construction