

## Notable changes in 2009 IRC (effective February 28, 2014)

1. Now exempt from permit: repairs < 25% of roofing or siding within one calendar year; sheds ≤ 200sf; detached decks ≤200sf ≤ 30" above grade (R105.2)
2. Determination of "substantial damage" (FEMA flood) now by B.O. – no longer involves Board of Appeals (R105.3.1.1)
3. Braced wall lines identified on plans where required by B.O. Many methods available to construct braced (shear) walls – designer must identify which methods used; their locations; holds downs; nail patterns & nail sizes (R106.1.3)
4. Braced wall on-line calculator [www.strongtie.com/webapps/bracedwall](http://www.strongtie.com/webapps/bracedwall)
5. Copy of site plan required (R106.2 & R106.2.1)
6. Wind borne debris region defined (Ch 2)–South of I-95; from Madison east; 1 mile exception; rated windows required therein, includes garage doors (R301.2.1.2)
7. Wind exposure categories: "A" – Large cities; "B" –default value; "C"–Open terrain for 1500'; "D"–wind coming over water, 1500' inland (R301.2.1.4)
8. New 30psf loading for habitable attics w/permanent staircase (R301.5)
9. Exterior balconies design load changed from 60 to 40 psf Table (R301.5)
10. Fire separation of buildings changed from 3'to5' Table (R302.1)
11. Dwelling unit separation allowed to terminate at ceiling with conditions (R302.3)
12. New dwelling unit/garage separation Table (R302.6)
13. Guards required when walking surface > 30" to grade at any point within 36" horizontally from the edge of open side; check fixed seating. (R312.2)
14. Fire sprinkler system(optional) to meet P2904 or NFPA 13D (R313.1)
15. Monitored smoke/CO alarm installed to NFPA 72 optional. (R314.1 & R315.1)
16. Elevators and lifts section added (R321.1)
17. New section added for storm shelters – ICC/NSSA 500 standard (R323)
18. Horizontal rebar required in foundation walls (Table R404.1.2(1))
  - a. ≤8' requires 1 #4 bar w/in 12" of top + 1 #4 mid-height
  - b. >8' requires 1 #4 bar w/in 12" of top + 1 #4 bar at 1/3 points
19. Drainage nuisances onto public way or adjacent property now violation (401.3.1)
20. Pier & pile foundations to comply with Ch. 18, IBC (R404.6)

21. Flood vents may be required in addition to crawl space vents (R408.1)
22. Min 2 – 1500# lateral load tension hold downs required per deck (R502.2.2.3)
23. 3 Classes of vapor retarder – poly/foil; Kraft faced; latex/enamel paint (R601.3.2)
24. Window sills >72" above grade must be  $\geq 24$ " above finished floor or operable parts cannot allow passage of 4" diameter sphere. (R612.2)
25. Water resistant gypboard not allowed as tile backer in tub/shower area (R702.4.2)
26. Changes/limits on truss designs; check exposures (R802.10.2.1)
27. Unvented attic provisions (R806.4)
28. Insulation to comply w/2009 IECC or Ch. 11 (N1101.2)
29. Foam installer shall post a certificate of R values & thicknesses (N1101.4)
30. Blown or foam insulation in attic requires posting every 300 s.f. (N1101.4.1)
31. Energy efficiency cert posted at electrical panel prior to CO (N1101.9)
32. Attic access to be weather-stripped and insulated (N1102.2.3)
33. House tested for air tightness – blower test or 3<sup>rd</sup> party inspection (N1102.4.2)
34. New wood burning fireplaces to have gasket doors & outside air (N1102.4.3)
35. Duct sealing - leak test post construction or rough in test (N1103.2.2)
36. Water heater hot line insulated for 10'; cold feed for 5' with R-2 (N1103.4.1)
37. Min of 50% of lamps in installed fixtures to be *high-efficacy* (N1104.1)
38. Appliance access requires 30" x 30" level working area (M1305.1)
39. 3" clear area for sides, back and top of furnaces and air handlers; (M1305.1.1)
40. 30" x 22" attic access required; 20' max distance to units; 24" wide solid flooring; 30" wide access where required for service; illuminated (M1305.1.3)
41. HVAC equipment to be set on pad  $\geq 3$ " above adjacent grade (M1305.1.4.1)
42. Outdoor refrigerant piping ports fitted with tamper resistant caps (M1411.6)
43. Clothes dryer exhaust terminate 3' from any building opening (M1502.3)
44. When dryer exhaust is concealed, perm label w/in 6' of dryer conn. (M1502.4.5)
45. GWB allowed in above ground ducts; provisions apply (M1601.1.1)
46. Hydrogen systems now in code (M1904.1)
47. Code now allows fuel oil storage >660 gals; must meet NFPA 31 (M2201.2)
48. Plastic "GAS" exterior piping allowed; marked "GAS" (G2414.6 & G2415.15.1)
49. Gas piping cannot penetrate foundation below grade (G2415.4)

50. Gas regulator vent piping cannot exceed manufacturer's instructions (G2421.3.1)
51. Gas A/C unit requires non-combustible base unless listed (G2449.4)
52. Shower pan liner requires 2" static head test (P2503.6)
53. Grey water systems now in code (P2601.2)
54. Electrical equip listed as dry/indoor use - protect during construction (E3404.5)
55. Electrical panels can't be located in closets/bathrooms/over a stairway (E3405.4)
56. 3 or more NM cables thru same hole require adjustment factor (E3705.4.4)
57. Bath vanity GFCI can be located on sides  $\leq 12$ " below countertop (E3906.1)
58. Every deck  $\geq 20$  square feet accessible from inside requires a GFCI outlet (E3901.7)
59. All 15A & 20A receptacles shall be tamper-resistant (E4002.14)
60. Luminaries w/in footprint of tub/shower to 8' height from bathtub rim or shower threshold to be listed for "damp" locations; if subject to spray "wet" (E4003.11)
61. Pool pump outlet to be GFCI even if direct wired; 6'-10' from pool (E4203.1.3)
62. Pool area receptacles at least 6' from pool (E4203.1.1)
63. Big changes in pool bonding, including pool water (E4204.3)
64. In-ground pools to be designed to NSPI-5 "*in accordance with generally accepted structural engineering practices and methods*" NSPI-5, 4.1 (AG 103.1)
65. Above-ground and on ground pools to be designed to NSPI-4, 6.1.1 (AG 103.2)
66. No diving boards/slides/or other equipment to be added to above or on ground pools. (NSPI-4, 1.2)
67. Pools in high hazard (V-Zone) flood areas to be designed to ASCE 24 (AG103.3)
68. Temporary enclosure provisions revised for in-ground pools requires self-closing, self-latching opening (AG105.6)