

EDITORIAL CHANGES – SECOND PRINTING

- Page 44, Table R301.5: 7th row of Live Loads now reads . . . 50
- Page 70, Figure R403.3(2): Figure replaced
- Page 111, R602.3.1: Exception 2, line 2 now reads . . . in accordance with Table R602.3.1.
- Page 116, Figure R602.3(1): Section numbers changed as indicated
- Page 129, R602.11.1: line 6 now reads . . . ¼ inch by 3 inches by 3 inches (6.4 mm by 76 mm by 76...
- Page 343, Table G2409.2: changes to text in all of column 1
- Page 346, Table G2413.2: Input btu/h values changed as indicated
- Page 353, G2414.11: item 3, line 7 now reads . . . the outside end of the compression fitting...
- Page 399, P2801.4: Exception 2, line 3 now reads . . . in accordance with Section M1703...
- Page 399, P2802.3: Deleted
- Page 403, P2902.2.6: line 2 now reads . . . shall conform to ASSE 1015 or AWWA C510.
- Page 427, Figure P3108.1(3): Portion of figure deleted
- Page 460, E3605.4.4: line 6 now reads . . . shall comply with Section E3605.1 and Table E3605.5.3.
- Page 507, AAMA: Reference to 101/I.S.2/NAFS—02 now reads . . . R308.6.9, R613.3, N1101.3.2.2
- Page 517, AWWA: Reference to C50—00 now reads . . . Table P2902.2, P2902.2.6
- Page 522, TPI: Standard reference number now reads . . . TPI 1—2002
- Page 523, WDMA: Reference to 101/I.S.2/NAFS—02 now reads . . . R308.6.9, R613.3, N1101.3.2.2
- Page 599, LINTEL: now reads . . . R606.9, R611.7.3, R703.7.3, R1003.7

EDITORIAL CHANGES – THIRD PRINTING

- Page 6, R110.2: line 3 now reads . . . Sections 3406 and 3407 of the *International Building Code*.
- Page 42, Table R301.2.2.4: Table deleted
- Page 48, R308.4: Exception 9.1, line 4 now reads . . . of Sections 1012 and 1607.7 of the *International Building Code*; and
- Page 47, R308.4: line 4 now reads . . . of Sections 1012 and 1607.7 of the *International Building Code*; and
- Page 55, R317.2.2: line 3 now reads . . . an extension of exterior walls or common walls in accordance with
- Page 63, R403.1.4: line 3 now reads . . . ground surface. Where applicable, the depth of footings shall also
- Page 63, R403.1.4.2: line 4 now reads . . . shall extend to a depth of not less than 12 inches (305 mm)
- Page 65, R403.1.4: line 3 now reads . . . ground surface. Where applicable, the depth of footings shall
- Page 66, R403.1.4.2: line 4 now reads . . . grade shall extend to a depth of not less than 12 inches (305 mm) below the top of slab.
- Page 72, Table R404.1.1(1): row 15, column 3 now reads . . . 8^s
- Page 87, R502.2.1: last line now reads . . . live load specified in Table R301.5 acting on the cantilevered portion of the deck.
- Page 91, Table R502.3.3(1): footnote f now reads . . . See Section R301.2.2.2.2, item 1, for additional limitations on cantilevered floor joists for detached one- and two-family dwellings in Seismic Design Categories D₁ and D₂ and townhouses in Seismic Design Categories C, D₁, and D₂.
- Page 113, Table R602.3(1): footnote e now reads . . . Spacing of fasteners not included in this table shall be based on Table R602.3(2).
- Page 128, R602.10.11: Exception, line 6 now reads . . . spaced greater or less than 25 feet (7620 mm) apart
- Page 128, R602.10.11: 2nd exception, line 3 now reads . . . to begin no more than 8 feet (2438 mm) from each
- Page 208, Table R703.4: footnote to Horizontal aluminum now reads . . . Horizontal aluminum^c
- Page 214, Figure R703.7.2.1 is now Figure R703.7.2.2
- Page 214, Figure R703.7.2.2 is now Figure R703.7.2.1
- Page 252, R808.1: line 9 now reads . . . shall meet the requirements of Section N1102.1.11.

Page 339, G2407.10: now reads . . . The required size of openings for combustion, ventilation and dilution air shall be based on the net free area of each opening. Where the free area through a design of louver, grille or screen is known, it shall be used in calculating the size opening required to provide the free area specified. Where the design and free area of louvers and grilles are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 75-percent free area. Screens shall have a mesh size not smaller than $\frac{1}{4}$ inch (6 mm). Nonmotorized louvers and grilles shall be fixed in the open position. Motorized louvers shall be interlocked with the equipment so that they are proven to be in the full open position prior to main burner ignition and during main burner operation. Means shall be provided to prevent the main burner from igniting if the louvers fail to open during burner startup and to shut down the main burner if the louvers close during operation.

Page 365, G2427.6.8.1: Items 1-4 are not exceptions

Page 490, E3902.9 now reads . . . **E3902.10 Wet locations other than outdoors.**

Page 490, E3902.9 now reads . . . **E3902.9 Outdoor wet locations.** Where installed outdoors in a wet location, 15- and 20-ampere, 125- and 250-volt receptacles shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted.

Page 490, E3902.10 now reads . . . **E3902.11 Bathtub and shower space.**

Page 490, E3902.11 now reads . . . **E3902.12 Flush mounting with faceplate.**

Page 490, E3902.12 now reads . . . **E3902.13 Outdoor installation.**

EDITORIAL CHANGES – FOURTH PRINTING

Page 19, definition UNUSUALLY TIGHT CONSTRUCTION now reads . . . UNUSUALLY TIGHT CONSTRUCTION. Construction in which:

Page 19, definition UNUSUALLY TIGHT CONSTRUCTION subsection 1, line 1 now reads . . . Walls and ceilings comprising the building thermal envelope have a . . .

Page 20, definition UNUSUALLY TIGHT CONSTRUCTION subsection 2 now reads . . . Storm windows or weatherstripping is applied around the threshold and jambs of opaque doors and openable windows.

Page 41, R301.2.2.3.3: last line now . . . Section R611 or R612.

Page 56, R319.1.4: exception 2, line 5 now reads . . . from exposed ground, and are separated there from . . .

Page 92, TABLE R502.5(2): line 12, column 3 now reads . . . 9-0, column 5 now reads . . . 7-8, column 6 now reads . . . 1, column 7 now reads . . . 6-9, column 8 now reads . . . 1.

Page 92, TABLE R502.5(2): line 23, column 3 now reads . . . 6-1, column 4 now reads . . . 1, column 5 now reads . . . 5-3, column 7 now reads . . . 4-8.

Page 126, TABLE R602.10.5: row 1, column 1 now reads . . . MINIMUM.

Page 166, R611.2: first paragraph, line 15 now reads . . . sidered irregular as defined in Section R301.2.2.2.2.

Page 253, R905.3.8: line 18 now reads . . . to the roofing underlayment for slopes less than seven units vertical in 12 units horizontal (58-percent slope) . . .

Page 427, P3108.1: line 10 now reads . . . the wet vent. [See Figures P3108.1(1), P3108.1(2), P3108.1(3) and P3108.1(4) for typical wet vent configurations.]

Page 427, P3108.4: line now reads . . . serving one or two fixtures. [See Figures P3108.1(4) and P3108.1(5) for typical vertical wet vent configurations.]

Page 432, FIGURE P3108.2(1); figure number now reads . . . FIGURE P3108.1(4)

Page 433, FIGURE P3108.2(2); figure number now reads . . . FIGURE P3108.1(5)

Page 516, ASTM—continued: last line, reference standard C 67—02 is deleted.

Page 517, ASTM—continued: line 4, reference standard C 140—01ae01 is deleted.

Page 517, ASTM—continued: line 50, reference standard C 1167—96 now reads . . . C 1167—96 Specification for Clay Roof Tiles R905.3, R905.3.4

Page 519, ASTM—continued: line 11, reference standard D 2898—94(1999) now reads . . . D 2898—94(1999) Test Methods for Accelerated Weathering of Fire-retardant-treated Wood for Fire Testing R802.1.3.3

Page 541, FIGURE B-10: See Section callout now reads . . . G2428.3.5.

Page 567, AG103.1: last line now reads . . . Section AG108.

Page 567, AG103.2: last line now reads . . . AG108.

Page 567, AS104.1: last line now reads . . . Section AG108.

Page 567, AS104.2: last line now reads . . . ANSI/NSPI-6 as listed in Section AG108.

Page 579, AK101.1: now reads . . . Wall and floor-ceiling assemblies separating dwelling units including those separating adjacent townhouse units shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies.

Page 579, AK102.1: line 4 now reads . . . ASTM E 90. Penetrations or openings in construction assemblies for piping; electrical devices; recessed cabinets; bathtubs; soffits; or heating, ventilating or exhaust ducts shall be sealed, lined, insulated or otherwise treated to maintain the required ratings. Dwelling unit entrance doors, which share a common space, shall be tight fitting to the frame and sill.

EDITORIAL CHANGES – FIFTH PRINTING

Page 457, E3602.1: 2nd paragraph, third sentence now reads . . . at over 1,440 volt-amperes $\frac{1}{4}$ horsepower and greater shall be...

EDITORIAL CHANGES – SIXTH PRINTING

Page 15, HURRICANE-PRONE REGIONS: lines 3 and 4 now read . . . coasts where the basic wind speed is greater than 90 miles per hour (145 km/h), and Hawaii, Puerto Rico, Guam, Virgin...

Page 46, FIGURE R307.2: top row, last figure on the right now reads . . . 21 IN. CLEARANCE IN FRONT OF OPENING.

Page 63, FIGURE R403.1(1): last row, figure on right now is labeled as INTERIOR.

Page 124, TABLE R602.10.1: column 1, row 2 now reads . . . Category C ($S_s \leq 0.6g$ and $S_{ds} \leq 0.50g$) or less than 110 mph.

Page 126, FIGURE R602.10.5: see 1st printing, page 127 for figure changes.

Page 309, M1602.2 Prohibited sources: line 1 now reads . . . Outdoor and return air for a ...

Page 360, G2423.1: now reads . . . Motor fuel-dispensing facilities for CNG fuel shall be in accordance with this section and the *International Fire Code*. The operation of CNG motor fuel-dispensing facilities shall be regulated by the *International Fire Code*.

Page 376, G2428.2.12: line 1 now reads . . . G2428.2.12 (504.2.12) Component commingling. In a...

Page 395, TABLE P2701.1: row 18, column 2 now reads . . . ASME A112.19.9M.

Page 402, P2803.6.1: last line now reads . . . end of the discharge pipe shall be threaded and such discharge pipe shall not have a valve installed.

Page 515, Referenced Standard ASSE: line 2, reference standard 1002—99 now reads . . . Performance Requirements for Antisiphon Fill Valves (Ballcocks) for Gravity Water Closet Flush Tanks.

Page 515, Referenced Standard ASSE: line 4, reference standard 1006—89 now reads . . . Performance Requirements for Residential Use Dishwashers.

Page 515, Referenced Standard ASSE: line 11, reference standard 1014—90 now reads . . . Performance Requirements for Hand-held Showers.

Page 515, Referenced Standard ASSE: line 13, reference standard 1016—96 now reads . . . Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixture Fittings.

Page 515, Referenced Standard ASSE: line 15, reference standard 1019—97 now reads . . . Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type.

Page 515, Referenced Standard ASSE: line 18, reference standard 1024—98 now reads . . . Performance Requirements for Dual Check Valve Type Backflow Preventers.

EDITORIAL CHANGES – EIGHTH PRINTING

Page 61, TABLE R401.4.1: column 1, row 6, line 3 now reads . . . (CL, ML, MH and CH).

Page 79, TABLE R404.4(2): column 1, row 7 is now part of the nine feet wall measurements.

Page 79, TABLE R404.4(2): column 1, row 8 is now part of the ten feet wall measurements.

Page 95, TABLE R503.2.1.1(1): column 3, row 1 now reads . . . MAXIMUM SPAN (inches).

Page 124, TABLE R602.10.1: column 4, row 2, line 3 now reads . . . line for methods 2 through 8.

Page 397, P2708.1: line 11 now reads . . . above the shower drain outlet. Hinged shower doors shall open outward. The wall area above built-in tubs having installed shower heads and in-shower compartments shall be constructed as per Section R702.4. Such walls shall form a water-tight joint with each other and with either the tub, receptor or shower floor.

Page 402, P2803.6.1: line 18 now reads . . . end of the discharge pipe shall not be threaded and such...

Page 440, E3305.3: now reads . . . The space equal to the width and depth of the panelboard and extending from the floor to a height of 6 feet (1829 mm) above the panelboard, or to the structural ceiling, whichever is lower, shall be dedicated to the electrical installation. Piping, ducts, leak protection apparatus and other equipment foreign to the electrical installation shall not be installed in such dedicated space. The area above the dedicated space shall be permitted to contain foreign systems, provided that protection is installed to avoid damage to the electrical equipment from condensation, leaks and breaks in such foreign systems. Suspended ceilings with removable panels shall be permitted within the 6-foot (1829 mm) dedicated space.

Page 442, E3307.1: now reads . . . Insulated grounded conductors of sizes 6 AWG or smaller shall be identified by a continuous white or natural gray outer finish or by three continuous white stripes on other than green insulation along the entire length of the conductors. Conductors of sizes larger than 6 AWG shall be identified either by a continuous white or natural gray outer finish or by three continuous white stripes on other than green insulation along its entire length or at the time of installation by a distinctive white markings at its terminations. This marking shall encircle the conductor or insulation.

Page 450, E3503.1: now reads . . . Conductors used as ungrounded service entrance conductors, service lateral conductors, and feeder conductors that serve as the main power feeder to a dwelling unit shall be those listed in Table E3503.1. The main power feeder shall be the feeder(s) between the main disconnect and the lighting and appliance branch-circuit panelboard(s). Ungrounded service conductors shall have a minimum size in accordance with Table E3503.1. The grounded conductor ampacity shall not be less than the maximum unbalance of the load and its size shall not be smaller than the required minimum grounding electrode conductor size specified in Table E3503.1.

Page 454, E3507.3.2: line 12 now reads . . . The size of the grounded conductor shall be not smaller than the larger of:

1. That required by Section E3604.4.
2. That required by Section E3808.12.

Page 454, E3508.1: line 3 now reads . . . specified in Sections E3508.1.1, E3508.1.2, E3508.1.3, E3508.1.4 and E3508.1.5

Page 454, E3508.1: line 14 now reads . . . among all of the electrodes connected to it. Where none of these electrodes are available, one or more of the electrodes specified in Sections E3508.1.3, E3508.1.4 and E3508.1.5 shall be installed and used.

Page 454, E3508.1.1: now reads . . . A metal underground water pipe in direct contact with the earth for 10 feet (3048 mm) or more, (including any well casing effectively bonded to the pipe), and that is electrically continuous, (or made electrically continuous by bonding around insulating joints or insulated pipe) to the points of connection of the grounding electrode conductor and the bonding conductors. Interior metal water pipe located more than 5 feet (1.52 m) from the entrance to the building shall not be used as a part of the grounding electrode system or as a conductor to interconnect electrodes that are part of the grounding electrode system.

Page 455, E3508.1.3: line 2 now reads . . . building or structure, in direct contact with the earth at a depth below the earth's surface of not less than 30 inches (762 mm)

Page 455: section added now reads . . . E3508.1.5 Plate Electrodes. A plate electrode that exposes not less than 2 square feet (0.186 m²) of surface to exterior soil shall be considered as a grounding electrode. Electrodes of iron or steel plates shall be at least $\frac{1}{4}$ inch (6.4 mm) in thickness. Electrodes of nonferrous metal shall be at least 0.06 inch (1.5 mm) in thickness. Plate electrodes shall be installed not less than 30 inches (762 mm) below the surface of the earth.

Page 455, E3508.2.1: now reads . . . E3508.1.4 Rod and pipe electrodes. Rod and pipe electrodes not less than 8 feet (2438 mm) in length and consisting of the following materials shall be considered as a grounding electrode:

1. Electrodes of pipe or conduit shall not be smaller than $\frac{3}{4}$ -inch trade size (metric designator 21) and, where of iron or steel, shall have the outer surface galvanized or otherwise metal-coated for corrosion protection.
2. Electrodes of rods of iron or steel shall be at least $\frac{5}{8}$ inch (15.9 mm) in diameter. Stainless steel rods less than $\frac{5}{8}$ inch (15.9 mm) in diameter, nonferrous rods or their equivalent shall be listed and shall be not less than $\frac{1}{2}$ inch (12.7 mm) in diameter.

Page 455, E3508.2.2: now reads . . . E3508.1.4.1 Installation. The rod and pipe electrodes shall be installed such that at least 8 feet (2438 mm) of length is in contact with the soil. They shall be driven to a depth of not less than 8 feet (2438 mm) except that, where rock bottom is encountered, electrodes shall be driven at an oblique angle not to exceed 45 degrees from the vertical or shall be buried in a trench that is at least 30 inches (762 mm) deep. The upper end of the electrodes shall be flush with or below ground level except where the aboveground end and the grounding electrode conductor attachment are protected against physical damage.

Page 455, E3508.2: now reads . . . Rod, pipe and plate electrodes requirements. Where practicable, rod, pipe and plate electrodes shall be embedded below permanent moisture level. Such electrodes shall be free from nonconductive coatings such as paint or enamel. Where more than one such electrode is used, each electrode of one grounding system shall be not less than 6 feet (1829 mm) from any other electrode of another grounding system. Two or more grounding electrodes that

are effectively bonded together shall be considered as a single grounding electrode system. That portion of a bonding jumper that is the sole connection to a rod, pipe, or plate electrode shall not be required to be larger than 6 AWG copper or 4 AWG aluminum wire.

Page 455, E3508.2.3: now reads . . . E3508.4.

Page 455, E3508.3: now reads . . . Resistance of rod, pipe and plate electrodes. A single electrode consisting of a rod, pipe or plate that does not have a resistance to ground of 25 ohms or less shall be augmented by one additional electrode of any of the types specified in Sections E3508.1.2 through E3508.1.5. Where multiple rod, pipe or plate electrodes are installed to meet the requirements of this section, they shall be not less than 6 feet (1829 mm) apart.

Page 461, E3605.3: Exception 3 is added.

Page 463: section E3606.4 is added.

Page 465, E3702.2.2: now reads . . . Cable installed through or parallel to framing members. Where cables are installed through or parallel to the sides of rafters, studs or floor joists, guard strips and running boards shall not be required, and the installation shall comply with Table E3702.1.

Page 465: section E3702.6 is added.

Page 467, TABLE E3702.1: row 6, columns 4, 6 and 8 now reads . . . A^j.

Page 467, TABLE E3702.1: footnote j has been added.

Page 471, E3801.2.1: now reads . . . Receptacles shall be installed so that no point measured horizontally along the floor line in any wall space is more than 6 feet (1829 mm), from a receptacle outlet.

Page 472, E3801.4.5: line 6 now reads . . . fastened in place, appliance garages or appliances occupy.

Page 472, E3801.9: line 5 now reads . . . one or more habitable room(s), each separate unfinished portion shall have a receptacle outlet installed in accordance with this section.

Page 472, E3801.11: now reads . . . ampere-rated receptacle outlet shall be installed at an accessible location for the servicing of heating, air-conditioning and refrigeration equipment. The receptacle shall be located on the same level and within 25 feet (7620 mm) of the heating, air-conditioning and refrigeration equipment. The receptacle outlet shall not be connected to the load side of the HVAC equipment disconnecting means .

Page 473, E3803.3: line 6 now reads . . . outdoor egress door having grade level access, including outdoor egress doors for attached garages and detached garages with electric power. A vehicle door in a garage shall not be considered as an outdoor egress door. Where one or more lighting outlets are installed for interior stairways, there shall be a wall switch at each floor level and landing level that includes an entry-way to control the lighting outlets where the stairway between floor levels has six or more risers.

Page 473, E3804.3.1: new section.

Page 489, E3808.8: exception 1 now reads . . . A copper, aluminum or copper-clad conductor. This conductor shall be solid or stranded; insulated, covered or bare; and in the form of a wire or a busbar of any shape.

Page 490, E3808.8: exception 6 now reads . . . Armor of Type AC cable in accordance with Section E3808.4.

Page 489, E3808.8: exception 7 now reads . . . The combined metallic sheath and grounding conductor of interlocked metal tape-type MC cable where listed and identified for grounding.

Page 489, E3808.8: exception 8 now reads . . . The metallic sheath or the combined metallic sheath and grounding conductors for the smooth or corrugated tube-type MC cable where listed and identified for grounding.

Page 490, E3808.8: new exception 10.

Page 490, E3808. line 8 now reads . . . Where ungrounded connectors are increased in size, equipment grounding conductors shall be increased proportionally according to the circular mil area of the ungrounded conductors.

Page 491, E3808.13: line 2 now reads . . . Where circuit conductors are spliced within a box or terminated on equipment within or supported by a box, any separate equipment grounding conductors associated with the circuit conductors shall be spliced or joined within the box or to the box with devices suitable for the use. Connections depending solely on solder shall not be used. Splices shall be made in accordance with Section E3306.10 except that insulation shall not be required. The arrangement of grounding connections shall be such that the disconnection or removal of a receptacle, luminaire or other device fed from the box will not interfere with or interrupt the grounding continuity.

Page 491, E3808.14: exception 2, line 1 now reads . . . Surface mounted box. Where the box is mounted on the.

Page 490, E3808.14: exception 2, line 5 now reads . . . cover-mounted receptacles except where the box and.

Page 493, E3901.11: now reads . . . Snap switch faceplates. Faceplates provided for snap switches mounted in boxes and other enclosures shall be installed so as to completely cover the opening and, where the switch is flush mounted, seat against the finished surface.

Page 502, TABLE E4103.6: row 1, column 2 now reads . . . UNDERGROUND WIRING
Page 581: added Appendix L.