







SIGNIFICANT CHANGES TO THE 2018 INTERNATIONAL CODE

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DEFINITIONS

CODE SECTION	DEFINITION
REPAIR GARAGE	A building or structure or portion thereof used for the servicing or repair of motor vehicles.
MODERATE HAZARD STORAGE	Group S-1 : Storage group S-1 occupancies are buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following: Aerosol products, Levels 2 and 3: Self storage facility (mini storage)
LODGING HOUSES	Owner-occupied lodging houses with five or fewer guest rooms and ten or fewer total occupants shall be permitted to be constructed in accordance with the International Residential Code.

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CODE SECTION	DEFINITION
SMOKE BARRIERS	Smoke barriers shall be provided to subdivide every story used by persons receiving care, treatment or sleeping into not fewer than two smoke compartments. Smoke barriers shall not be provided to subdivide other stories with occupant load of 50 or more persons, onto fewer than two smoke compartments. The smoke barrier shall be in accordance with Section 709.
GENERAL	Children's play structures installed inside all occupancies covered by this code that exceed 10 feet (3048mm) in height or 150 square feet (14mm ²) in area shall comply with Sections 424.2 through 424.5.

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	CODE SECTION	DEFINITION
TYPE III	602.3	Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code. Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies of a 2-hour rating or less.
FIRE-RETARDANT-TREATED WOOD IN EXTERIOR WALLS	602.4.1	Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies not less than 6 inches (152mm) in thickness with a 2-hour rating or less.

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	CODE SECTION	DEFINITION
COLUMN PROTECTION	704.2	Where columns are required to have protection to achieve a fire-resistance rating, the entire column shall be provided individual encasement protection by protecting it on all sides for the full column height, including connections to other structural members, with materials having the required fire-resistance rating. Where the column extends through a ceiling, the encasement protection shall be continuous from the top of the foundation or floor/ceiling assembly below through the ceiling space to the top of the column.
PARTY WALLS	706.1.1	Any wall located on a lot line between adjacent buildings, which is used or adapted for joint service between the two buildings, shall be constructed as a fire wall in accordance with Section 706. Party walls shall be constructed without openings and shall create separate buildings.
STRUCTURAL STABILITY	706.2	Fire walls shall be designed and constructed to allow collapse of the structure on either side without collapse of the wall under fire conditions. Fire walls designed and constructed in accordance with NFPA 221 shall be deemed to comply with this section.

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	CODE SECTION	DEFINITION
EXIT DISCHARGE	1008.2.3	<p>Illumination shall be provided along the path of travel for the exit discharge from each exit to the public way.</p> <p>Exception: Illumination shall not be required where the path of the exit discharge meets both of the following requirements:</p> <ol style="list-style-type: none"> 1. The path of exit discharge is illuminated from the exit to a safe dispersal area complying with Section 1028.5. 1. A dispersal area shall be illuminated to a level not less than 1 foot candle (11 lux) at the walking surface.

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	CODE SECTION	DEFINITION
LOW-LEVEL EXIT SIGNS IN GROUP R-1	1013.2	Where exit signs are required in Group R-1 occupancies by Section 1013.1, additional low-level exit signs shall be provided in all areas serving guest rooms in Group R-1 occupancies and shall comply with Section 1013.5. The bottom of the sign shall be not less than 10 inches (254mm) nor more than 18 inches (455mm) above the floor level. The sign shall be flush mounted to the door or wall. Where mounted on the wall, the edge of the sign shall be within 4 inches (102mm) of the door frame on the latch side.
STAIRWAY DOORS	1010.1.9.12	Interior stairway means of egress doors shall be openable from both sides without the use of a key or special knowledge or effort.
FIRE WALLS	1607.15.2	In order to meet the structural stability requirements of Section 706.2 where the structure on either side of the wall has collapsed, fire walls and their supports shall be designed to withstand a minimum horizontal allowable stress load of 5 psf (0.240 kN/m ²).

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	CODE SECTION	DEFINITION
CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING	2603.13	Cladding shall be specified and installed in accordance with Chapter 14 and the cladding manufacturer's installation instructions. Where used, furring and furring attachments shall be designed to resist design loads determined in accordance with Chapter 16. In addition, the cladding or furring attachments through foam sheathing to framing shall meet or exceed the minimum fastening requirements of Section 2603.13.2, or an approved design for support or cladding weight.

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CRAWL SPACE	An underfloor space that is not a basement

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CODE SECTION	DEFINITION
EXTERIOR WALLS	R302.1 Construction, projections, openings and penetrations of exterior walls of dwellings and accessory buildings shall comply with Table R302.1(1); or dwellings equipped throughout with an automatic sprinkler system installed in accordance with Section P2904 shall comply with Table R302.1(2).
FIRE PROTECTION OF FLOORS	R302.13 Floor assemblies that are not required elsewhere in this code to be fire rated, shall be provided with a minimum ½ inch gypsum wallboard membrane. Exceptions: Wood floor assemblies using dimensional lumber equal to or greater than 2 inches x10 inches nominal dimension.
TOWNHOUSES	R302.2 Walls separating townhouse units shall be constructed in accordance with Section R302.2.1 or Section R302.2.2.
DOUBLE WALLS	R302.2.1 Each townhouse shall be separated by two 1-hour fire-resistance rated wall assemblies tested in accordance with ASTM E119, UL 263 or Section 703.3 of the International Building Code.
MEMBRANE PENETRATIONS	R302.4.2 Membrane penetrations shall comply with Section R302.4.1. Where walls are required to have a fire-resistance rating, recessed fixtures shall be installed so that the required fire-resistance rating will not be reduced.

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CODE SECTION	DEFINITION
WIDTH	R311.7.1 Stairways shall be not less than 36 inches (914mm) in clear width at all points above the permitted handrail height and below the required headroom height. The clear width of stairways at and below the handrail height, including treads and landings, shall be not less than 31 ½ inches (787mm) where a handrail is installed on one side and 27 inches (698mm) where handrails are installed on both sides.
VERTICAL RISE	R311.7.3 A flight of stairs shall not have a vertical rise larger than 151 inches (3835mm) between floor levels or landings.
ALTERATIONS, REPAIRS, AND ADDITIONS	R314.2.2 Where alterations, repairs or additions requiring a permit occur, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings.

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BUILDING CONSTRUCTION

	CODE SECTION	DEFINITION
DECKS	R507.1	Wood-framed decks shall be in accordance with this section. For decks using materials and conditions not prescribed in this section, refer to Section R301.
MATERIALS	R507.2	Materials used for the construction of decks shall comply with this section.
WOOD MATERIALS	R507.2.1	All wood materials shall be No. 2 grade or better lumber, preservative-treated in accordance with Section R317, or approved, naturally durable lumber, and termite protected where required in accordance with Section R318. Where design in accordance with Section R301 is provided, wood structural members shall be designed using the wet service factor defined in AWC NDS. Cuts, notches, and drilled holes of preservative treated wood members shall be treated in accordance with Section R317.1.1. All preservative-treated wood products in contact with the ground shall be labeled for such usage.

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	CODE SECTION	DEFINITION
ENGINEERED WOOD PRODUCTS	R507.2.1.1	Engineered wood products shall be in accordance with Section R502.
PLASTIC COMPOSITE DECK BOARDS, STAIR TREADS, GUARDS OR HANDRAILS	R507.2.2	Plastic composite exterior deck boards, stair treads, guards and handrails shall comply with the requirements of ASTM D 7032 and this section.
DECK POSTS	R507.4	For single level wood framed decks with beams sized in accordance with Table 507.5 deck post size shall be in accordance with Table R507.4.

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	CODE SECTION	DEFINITION
WATER-RESISTIVE BARRIER	R703.2	One layer of No. 15 asphalt felt, free from holes and breaks, complying with ASTM D 226 for Type 1 felt or other approved water-resistive barrier shall be applied over studs or sheathing of all exterior walls. No. 15 asphalt felt shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51mm). Where joints occur, felt shall be lapped not less than 6 inches (152mm). Other approved materials shall be installed in accordance with the water-resistive barrier manufacturer's installation instructions. The No. 15 asphalt felt, or other approved water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

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	CODE SECTION	DEFINITION
DESIGN AND CONSTRUCTION	R802.2	The roof and ceiling assembly shall provide continuous ties across the structure to prevent roof thrust from being applied to the supporting walls. The assembly shall be designed and constructed in accordance with the provisions of this chapter and Figures R606.11(1), R606.11(2) and R606.11(3) or in accordance with AWC NDS.
RIDGE	R802.3	A ridge board used to connect opposing rafters shall be not less than 1 inch (25mm) nominal thickness and not less in depth than the cut end of the rafter. Where ceiling joist or rafter ties do not provide continuous ties across the structure, a ridge beam shall be provided and supported on each end by a wall or girder.
MINIMUM VENT AREA	R806.2	The minimum net free ventilating area shall be 1/150 of the area of vented space.

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	CODE SECTION	DEFINITION
INSULATION SHIELD	R1005.8	Where factory-built chimneys pass through insulated assemblies, an insulation shield constructed of steel having a minimum thickness of 0.0187 inch (0.4712mm) (No. 26 gage) shall be installed to provide clearance between the chimney and the insulation material. The clearance shall not be less than the clearance to combustibles specified by the chimney manufacturer's installation instructions. Where chimneys pass through attic space, the shield shall terminate not less than 2 inches (51mm) above the insulation materials and shall be secured in place to prevent displacement. Insulation shields provided as part of a listed chimney system shall be installed in accordance with the manufacturer's installation instructions.

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ENERGY CONSERVATION

	CODE SECTION	DEFINITION
LIGHTING EQUIPMENT (MANDATORY)	N1104.1 (R404.1)	Not less than 90 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
DEFINED TERMS	N1101.6 (R202)	<p>FENESTRATION. Products classified as either vertical fenestration of skylights.</p> <ul style="list-style-type: none"> • Skylights. Glass or other transparent or translucent glazing material installed at a slope of less than 60 degrees (1.05 rad) from horizontal. • Vertical Fenestration. Windows that are fixed or operable, opaque doors, glazed doors, glazed block and combination opaque/glazed doors composed of glass or other transparent or translucent glazing materials and installed at a slope of not less than 60 degrees (1.05 rad) from horizontal. <p>OPAQUE DOOR. A door that is not less than 50 percent opaque in surface area.</p>
EXHAUST TERMINATION OUTLET AND PASSAGEWAY SIZE		The passageway of dryer exhaust duct terminals shall be undiminished in size and shall provide an open area of not less than 12.5 square inches (8065mm ²).

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SOLAR THERMAL ENERGY SYSTEMS

	CODE SECTION	DEFINITION
ACCESS	M2301.2.1	Access shall be provided to solar energy equipment for maintenance. Solar systems and appurtenances shall not obstruct or interfere with the operation of any doors, windows or other building components requiring operation or access. Roof-mounted solar thermal equipment shall not obstruct or interfere with the operation of roof-mounted equipment, appliances, chimneys, plumbing vents, roof hatches, smoke vents, skylights and other roof penetrations and openings.
LOCATED WITHIN THE SAME ROOM	G2420.5.1 (409.5.1)	The shutoff valve shall be located in the same room as the appliance. The shutoff valve shall be within 6 feet (1829mm) of the appliance, and shall be installed upstream of the union, connector or quick disconnect device it serves. Such shutoff valves shall be provided with access. Shutoff valves serving movable appliances, such as cooking appliances and clothes dryers, shall be considered to be provided with access where installed behind such appliances. Appliance shutoff valves located in the firebox of a fireplace shall be installed in accordance with the appliance manufacturer's instructions.

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GARAGE BRANCH CIRCUITS

	CODE SECTION	DEFINITION
GARAGE BRANCH CIRCUITS	E3703.5	In addition to the number of branch circuits required by other parts of this section, not less than one 120-volt, 20 ampere branch circuit shall be installed to supply receptacle outlets in attached garages and in detached garages with electric power. This circuit shall not have other outlets. [210.11(C) (4)]
METAL BOXES AND CONDUIT BOXES	G2420.5.1 (409.5.1)	Where raceway or cable is installed with metal boxes, or conduit bodies, the raceway or cable shall be secured to such boxes and conduit bodies. Where nonmetallic-sheathed cable or multi-conductor Type UF cable is used, the sheath shall extend not less than ¼ inch (6mm) inside the box and beyond any cable clamp [314.17(B)]

THANK YOU FOR YOUR TIME
