***Analysis of Changes***

***for the***

***8th Edition (2023) Florida Codes***

***Changes to the Florida Building Code, Residential***

This *Analysis of Changes for the 8th Edition (2023) of the Florida Building Code* is intended to provide a comprehensive comparison of the provisions in the 7*th Edition (2020) Florida Building Code, Residential* (FBCR) and the 8*th Edition (2023) Florida Building Code, Residential*. The 7th Edition (2020) FBCR is the base code for the 8*th Edition (2023)* FBCR. The model code used to update the 8*th Edition (2023)* FBCR is the *2021 International Residential Code* (IRC). However, not all changes in the 2021 IRC are included in the 8*th Edition (2023)* FBCR. As a result of changes from the 2021 IRC and Florida-specific amendments, certain provisions and criteria of the code have changed. This *Analysis* will serve as a useful tool to facilitate the transition to the new code.

This *Analysis* is arranged so that comparable provisions in the two codes can be easily located. The left two columns contain section numbers and a brief overview of the corresponding requirements from the 7*th Edition (2020)* FBCR. The next two columns contain section numbers and a brief overview of the corresponding requirements in the 8*th Edition (2023)* FBCR. The far-right column contains a brief analysis or comment on the differences between the provisions.

This *Analysis* is not intended to replace or interpret the provisions contained in either the 7*th Edition (2020)* or the 8*th Edition (2023)* FBCR. This information simply points out the differences. The *Analysis* is not designed to be used without the aid of the representative code books, as all the details pertaining to a specific section may or may not be provided. However, this *Analysis* will provide an easy means for identifying differences in the two codes, as well as enabling the user to locate issue specific provisions in the 8*th Edition (2023)* FBCR by means of a numbered section cross reference.

This *Analysis* provides a cross-reference for most of the sections that changed in the 8*th Edition (2023)* FBCR. In some cases, sections are grouped together due to substantial differences. This grouping enables the extent of the differences to be more readily identified.

Notable changes deemed to be the most significant or to have the greatest impact have been highlighted in yellow.

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| **7th Edition (2020) FBCR** | | **8th Edition (2023) FBCR** | | **Analysis** |
| **Section** | **Requirement** | **Section** | **Requirement** |
| **Chapter 1: Scope and Administration** | | | | |
| *No changes.* | | | | |
| **Chapter 2: Definitions** | | | | |
| R202 | Definitions: Battery System, Stationary Storage | - | - | Definition deleted and replaced with new definition Energy Storage System |
| R202 | Definitions: Cleanout | R202 | Definitions: Cleanout | The definition has been revised for clarity and adds examples of types of cleanouts. |
| - | - | R202 | Definitions: Copper Alloy | New definition added for copper alloy metals to correlate with the definition in Chapter 24. |
| R202 | Definitions: Emergency Escape and Rescue Opening | R202 | Definitions: Emergency Escape and Rescue Opening | Definition revised to provide a reference to Grade Floor Emergency Escape and Rescue Openings. |
| - | - | R202 | Definitions: Energy Storage System (ESS) | New definition added that replaces the definition Battery System, Stationary Storage for consistency with terminology in NFPA 855. |
| R202 | Definitions: Fire-Retardant-Treated Wood | R202 | Definitions: Fire-Retardant-Treated Wood | Definition revised for consistency with the FBCB. |
| - | - | R202 | Definitions: Fuel Cell Power System, Stationary | New definition added to correlate with new requirements for Stationary Fuel Cell Power Systems in Section R330. |
| - | - | R202 | Definitions: Glass Mat Gypsum Panel | New definition added for a term already used in the code and for consistency with terminology used by ASTM and industry. |
| - | - | R202 | Definitions: Gypsum Sheathing | New definition added for a term already used in the code and for consistency with terminology used by ASTM and industry. |
| - | - | R202 | Definitions: Gypsum Wallboard | New definition added for a term already used in the code and for consistency with terminology used by ASTM and industry. |
| R202 | Definitions: Grade Floor Opening | R202 | Definitions: Grade Floor Emergency Escape and Rescue Opening | Definition revised to correlate with how it will be used in Section R310.2.1. The reference to sill height has been changed to the “height of the bottom of the clear opening” for clarity. |
| R202 | Definitions: Hot Water | R202 | Definitions: Hot Water | The trigger temperature for Hot Water has been increased from 110°F to 120°F. |
| R202 | Definitions: Insulating Sheathing | R202 | Definitions: Insulating Sheathing | Definition revised to clarify its suitability for use. |
| R202 | Definitions: Live Loads | R202 | Definitions: Live Loads | Snow and earthquake loads deleted. |
| R202 | Definitions: Lot | R202 | Definitions: Lot | Definition revised to clarify that a lot has to be measured and have fixed boundaries. |
| R202 | Definitions: Lot Line | R202 | Definitions: Lot Line | Definition revised to correlate with revised definition of Lot. |
| R202 | Definitions: Noncombustible Material | R202 | Definitions: Noncombustible Material | Definition revised to remove the reference to elementary materials and simply refer to a material that passes ASTM E136. |
| R202 | Definitions: Positive Roof Drainage | R202 | Definitions: Positive Roof Drainage | Definition revised to clarity that the roof has sufficient slope has been provided to ensure drainage of the roof within 48 hours of precipitation. |
| - | - | R202 | Definitions: Press-Connect Joint | New definition added for a type of plumbing joint. |
| - | - | R202 | Definitions: Professional Survey and Mapper | New definition added to correlate with changes to Section R322 with regards to who is permitted to certify elevation data. |
| - | - | R202 | Definitions: Push-Fit Fitting | New definition added for a type of plumbing fitting. |
| R202 | Definitions: Roof Assembly | R202 | Definitions: Roof Assembly | Definition revised to clarify that a roof assembly includes the roof covering and the roof deck but may include other items such as a vapor retarder and insulation. |
| R202 | Definitions: Roof Covering System | - | - | Definition deleted. |
| - | - | R202 | Definitions: Roof Covering System | New definition added identifying the Roof System as all components above the roof deck unless the roof deck is part of a single component serving as the roof covering and the roof deck. |
| R202 | Definitions: Seismic Design Category (SDC) | - | - | Definition deleted. |
| R202 | Definitions: Shear Wall | R202 | Definitions: Shear Wall | Definition revised to delete earthquake loads. |
| R202 | Definitions: Stairway | R202 | Definitions: Stairway | Definition revised to match the definition of Stairway in the FBCB. |
| - | - | R202 | Definitions: Sun Control Structure | New definition added to correlate with new requirements for Sun Control Structures in Section R301.2.1.1.2. |
| R202 | Definitions: Windborne Debris Region | R202 | Definitions: Windborne Debris Region | Item 1 of the definition has been revised to delete the term “coastal” and clarify that an Exposure D condition must exist upwind of the water line. The net effect is that some inland areas where the wind speed is equal to or greater than 130 mph and located near large bodies of water with a fetch of 5000 ft or more will now be in a Windborne Debris Region. |
| **Chapter 3: Building Planning** | | | | |
| R301.1 | Application | R301.1 | Application | Reference to snow and seismic loads has been deleted. |
| Figure R301.2(2) | Seismic Design Categories—Site Class D | - | - | Figure deleted. |
| Figure R301.2(4) | Ultimate Design Wind Speeds Vult | Figure R301.2(4) | Ultimate Design Wind Speeds Vult | Ultimate design wind speeds have been updated to correlate with ASCE 7-22. Wind speeds are unchanged for most of Florida except for the panhandle area where wind speeds have increased slightly in some areas.  A new note has been added specifically permitting location-specific wind speeds to be determined using the ASCE Wind Design Geodatabase. |
| Figure R301.2(5) | Ground Snow Loads, Pg, for the United States | - | - | Figure deleted. |
| Table R301.2(2) | Component and Cladding Loads for a Building with a Mean Roof Height of 30 Feet Located in Exposure B (ASD) | Table R301.2(2) | Component and Cladding Loads for a Building with a Mean Roof Height of 30 Feet Located in Exposure B (ASD) | The simplified component and cladding wind pressures have been updated for consistency with ASCE 7-22. Component and cladding loads for roof slopes of 7° to 45° have been reduced for many zones and roof slopes. Additionally, for roof slopes of 7° to 45° the number of pressure zones on the roof surface have been reduced to 3 (consistent with previous editions of the FBCR). Component and cladding loads for wall components are generally unchanged from the previous edition. |
| Table R301.2(3) | Height and Exposure Adjustment Coefficients for Table R301.2(2) | Table R301.2(3) | Height and Exposure Adjustment Coefficients for Table R301.2(2) | The height and exposure adjustment coefficients have been updated for consistency with ASCE 7-22. |
| - | - | R301.2.1.1.1.2 | Sun control structures | New design requirements for sun control structures have been added to the code. Free-standing sun control structures are required to be designed using Risk Category I wind speeds. A permanent decal is required to be applied that will alert owners that operable louvers are to be locked in the vertical position when wind speeds are predicted to be 75 mph and during hurricane warnings. |
| Figure R301.2(7) | Component and Cladding Pressure Zones | Figure R301.2(7) | Component and Cladding Pressure Zones | The pressure zones for roof slopes of 7° < θ ≤ 45° have been updated for correlation with ASCE 7-22. |
| R301.2.2 | Seismic provisions | - | - | Entire section including subsections has been deleted and shown as “Reserved.” Seismic and snow provisions have deleted throughout the FBC. |
| R301.2.2 | Snow loads | - | - | Section has been deleted and shown as “Reserved.” Seismic and snow provisions have deleted throughout the FBC. |
| R301.3 | Story height | R301.3 | Story height | Reference to seismic loads has been deleted. |
| R301.6 | Roof load | R301.6 | Roof load | Reference to snow loads has been deleted. |
| Table R301.5 | Minimum Uniformly Distributed and Concentrated Live Loads | Table R301.5 | Minimum Uniformly Distributed and Concentrated Live Loads | Live loads on guards, handrails, and guard in-fill components have been clarified. |
| Table R301.7 | Allowable Deflection of Structural Members | Table R301.7 | Allowable Deflection of Structural Members | New language has been added to Note e requiring the dead load of supporting members to be included in deflection calculations for lintels supporting masonry veneer walls. |
| R302.4.1 | Through penetrations | R302.4.1 | Through penetrations | New exception to rated through penetrations has been added for annular spaces created by the penetration of of water-filled fire sprinkler piping where the annular space is filled using a material complying with Item 1.2 of Exception 1. |
| R302.4.2 | Membrane penetrations | R302.4.2 | Membrane penetrations | Exception 3 has been modified to include water-filled sprinkler piping to its scope. |
| - | - | R302.8.1 | Foam plastics | New section added requiring foam plastics used as interior finishes to comply with Section R316.5.10. |
| - | - | R302.9.5 | High density polyethylene (HDPE) and polypropylene (PP) | New section requiring HDPE and PP materials used as interior finishes to be tested in accordance with NFPA 286 and also comply with Section R302.9.4. |
| R303.1 | Habitable rooms (ventilation) | R303.1 | Habitable rooms (ventilation) | New language added to Exception 1 for non-openable glazed areas for habitable rooms other than kitchens permitting a mechanical ventilation system capable of producing 0.35 air changes per hour. Exception 2 has been revised to permit glazed areas to not be openable where a local exhaust system is installed. |
| R305.1 | Minimum ceiling height | R305.1 | Minimum ceiling height | New exception permits beams and girders spaced apart not less than 36 inches (914 mm) in clear finished width to project not more than 78 inches (1981 mm) from the finished floor. |
| R308.4.5 | Glazing and wet surfaces | R308.4.5 | Glazing and wet surfaces | Section revised to clarify walls adjacent to wet surfaces (bathtubs, showers, etc.) are considered hazardous locations for glazing. New exception to required safety glazing has been added for laminated insulating glass units where the outboard sacrificial pane is not exposed to any of the hazardous locations in Section R308.4. |
| R309.3 | Garages and carports located in flood hazard areas | R309.3 | Garages and carports located in flood hazard areas | Section revised to refer to Section R322 for the construction of garages and carports located in flood hazard areas. |
| R310.1.1 | EERO operational constraints and opening control devices | R310.1.1 | EERO operational constraints and opening control devices | Section revised to permit the use of fall prevention devices complying with ASTM F2090 on windows serving emergency escape and rescue openings. |
| 310.2.1 | Minimum opening area | R310.2.1 | Minimum size | Section reorganized for clarity. Requirements are the same. |
| R310.2.2 | Minimum dimensions |
| R310.2.2 | Window sill height | R310.2.3 | Maximum height from floor | The height limitation for EERO’s is now based on the distance from the floor to the bottom of the clear opening instead of the sill. |
| - | - | R311.7 | Stairways | A new section added clarifying that stairways, whether required by the code or otherwise provided, have to comply the code requirements for stairways. New exceptions have been added for the following:   * stairways not within or serving a building, porch, or deck, * stairways leading to nonhabitable attics, and * stairways leading to crawl spaces. |
| R311.7.5 | Risers | R311.7.5 | Risers | Section revised to clarify that it is the riser height that is being measured. The maximum slope of risers has been deleted. |
| R311.7.7 | Stairway walking surface | R311.7.7 | Stairway walking surface | A new exception has been added for situations where the surface of a landing is required elsewhere in the code to drain surface water. For that the condition, the walking surface of the landing is required to be sloped not steeper than 1 unit vertical in 20 units horizontal (5-percent slope) in the direction of travel. |
| R312.2.1 | Window sills (window fall protection) | R312.2.1 | Window sills opening height (window fall protection) | For window fall prevention requirements, this section has been revised to clarify that the measurement is from the finished floor to the bottom of the clear opening and not the sill. |
| R314.3.1 | Installation near cooking appliances (smoke alarms) | R314.3.1 | Installation near cooking appliances (smoke alarms) | Section revised to prohibit smoke alarms listed and marked “helps reduce cooking nuisance alarms” from being installed less than 6 feet (1828 mm) horizontally from a permanently installed cooking appliance. |
| R316.3 | Surface burning characteristics (foam plastic) | R316.3 | Surface burning characteristics (foam plastic) | Section rearranged and revised to clarify what fire testing is required for foam plastic insulation. New exception added permitting the use of spray foam plastic insulation more than 4 inches thick provided it has a flame spread index of not more than 25 provided and smoke-developed index of not more than 450 and is separated from the inter of the building by a thermal barrier. |
| R316.3.1 | Foam plastic insulation 4 inches thick or less |
| R316.3.2 | Foam plastic insulation more than 4 inches thick |
| R316.5.13 | Floors (foam plastic) | R316.5.13 | Floors (foam plastic) | Section revised to clarify that the thickness of wood structural panel used to cover foam plastic insulation in floor systems is a minimum thickness not a maximum thickness. |
| R317.1 | Protection of wood members from decay | R317.1 | Protection of wood members from decay | Section has been revised and reorganized for clarity and to eliminate confusion in the existing language and correct errors in the code. |
| R317.1.3 | Geographical areas |
| R317.1.4 | Wood columns |
| R317.1.5 | Exposed glued laminated timbers |
| R322.1.6 | Protection of mechanical, plumbing and electrical systems (flooding) | R322.1.6 | Protection of mechanical, plumbing and electrical systems (flooding) | New language has been added requiring the replacement of exterior equipment and exterior appliances damaged by flood to be elevated to the required elevation. The exception has been revised to replace the term “design flood elevation” with “required elevation.” |
| R322.1.10 | As-built elevation documentation | R322.1.10 | As-built elevation documentation | Section revised to permit licensed professional surveyors and mappers in addition to registered design professionals to prepare as-built elevation documents. Surveyors and mappers are required to have a Florida license in good standing to certify elevation data. |
| R322.2.1 | Elevation requirements (flood hazard areas including A zones) | R322.2.1 | Elevation requirements (flood hazard areas including A zones) | Section revised to permit wet floodproofed detached accessory structures and detached garages with floors below the required elevations based on use, size, material, and other factors. |
| R322.2.2 | Enclosed areas below design flood elevation | R322.2.2 | Enclosed areas below required flood elevation | The term “design flood elevation” has been replaced with “required elevation.” A new exception to the requirements of this section has been added for elevator shafts and utility chases that protect utility lines from freezing. |
| R322.2.2.1 | Installation of openings | R322.2.2.1 | Installation of openings | The phrase “below the design flood elevation” has been removed for clarity. |
| R322.3.2 | Elevation requirements (coast high-hazard areas including V zones and Coastal A zones) | R322.3.2 | Elevation requirements (coast high-hazard areas including V zones and Coastal A zones) | Section revised to permit wet floodproofed detached accessory structures and detached garages with floors below the required elevations based on use, size, material, and other factors. Also revised to clarify the location of the bottom of the lowest horizontal structural member for backfilled stem wall foundations. |
| R322.3.3 | Foundations | R322.3.3 | Foundations | Section revised to specifically require pilings and columns to be designed in accordance with ASCE 24. Section has been reorganized into a numbered list. |
| R322.3.5 | Walls below required elevation | R322.3.5 | Walls below required elevation | The term “design flood elevation” has been replaced with “required elevation.” A new exception to the requirements of this section has been added for elevator shafts and utility chases that protect utility lines from freezing. |
| R322.3.6 | Enclosed areas below design flood elevation | R322.3.6 | Enclosed areas below design flood elevation | The term “design flood elevation” has been replaced with “required elevation.” |
| R322.3.7 | Stairways and ramps | R322.3.7 | Stairways and ramps | The term “design flood elevation” has been replaced with “elevation required in Section R322.3.2.” |
| R324.3.1 | Equipment listings (solar energy systems) | R324.3.1 | Equipment listings (solar energy systems) | Section revised to require mounting systems listed and labeled in accordance with UL 2703 to be installed in accordance with the manufacturer’s installation instructions and their listings. |
| R324.4.1.1 | Roof loads | R324.4.1.1 | Roof loads | Reference to snow loads has been deleted. |
| - | - | R324.5.3 | BIPV roof panels | A new section has been added requiring BIPV roof panels to comply with Section R905.16. |
| R328 | Stationary Storage Battery Systems | R328 | Stationary Storage Battery Systems | The term “stationary storage battery systems” has been replaced with “energy storage systems” throughout the section. The entire section has been revised for consistency with NFPA 855. |
| - | - | R329 | Stationary Engine Generators | New section addressing basic safety requirements for stationary engine generators. |
| - | - | R330 | Stationary Fuel Cell Power Systems | New section added requiring stationary fuel cell power systems to comply with the FFPC. |
| **Chapter 4: Foundations** | | | | |
| R401.1 | Application | R401.1 | Application | Reference to seismic design has been deleted. |
| Table R403.1(1) | Minimum Width and Thickness for Concrete Footings for Light-Frame Construction | Table R403.1(1) | Minimum Width and Thickness for Concrete Footings for Light-Frame Construction | Reference to snow loads has been deleted. |
| Table R403.1(2) | Minimum Width and Thickness for Concrete Footings for Light-Frame Construction with Brick Veneer | Table R403.1(2) | Minimum Width and Thickness for Concrete Footings for Light-Frame Construction with Brick Veneer | Reference to snow loads has been deleted. |
| Table R403.1(3) | Minimum Width and Thickness for Concrete Footings with Cast-In-Place Concrete or Fully Grouted Masonry Wall Construction | Table R403.1(3) | Minimum Width and Thickness for Concrete Footings with Cast-In-Place Concrete or Fully Grouted Masonry Wall Construction | Reference to snow loads has been deleted. |
| R403.1.6.1 | Foundation anchorage in Seismic Design Categories C, D0 and D1 | - | - | Section deleted. |
| R403.4.1 | Crushed stone footings | R403.4.1 | Crushed stone footings | The requirement limiting crushed stone footings to Seismic Design Categories A, B and C has been deleted. |
| Table R404.1.1(1) | Plain Masonry Foundation Walls | Table R404.1.1(1) | Plain Masonry Foundation Walls | Maximum Wall Height has been changed to Maximum Unsupported Wall Height |
| Table R404.1.1(2) | 8-inch Masonry Foundation Walls with Reinforcing Where d ≥ 5 Inches | Table R404.1.1(2) | 8-inch Masonry Foundation Walls with Reinforcing Where d ≥ 5 Inches | Seismic design requirements in Note b have been deleted. Wall Height has been changed to Maximum Unsupported Wall Height. |
| Table R404.1.1(3) | 10-inch Masonry Foundation Walls with Reinforcing Where d ≥ 6.75 Inches | Table R404.1.1(3) | 10-inch Masonry Foundation Walls with Reinforcing Where d ≥ 6.75 Inches | Seismic design requirements in Note b have been deleted. Wall Height has been changed to Maximum Unsupported Wall Height. |
| Table R404.1.1(4) | 12-inch Masonry Foundation Walls with Reinforcing Where d ≥ 8.75 Inches | Table R404.1.1(4) | 12-inch Masonry Foundation Walls with Reinforcing Where d ≥ 8.75 Inches | Seismic design requirements in Note b have been deleted. Wall Height has been changed to Maximum Unsupported Wall Height. |
| Table R404.1.2(1) | Minimum Horizontal Reinforcement for Concrete Basement Walls | Table R404.1.2(1) | Minimum Horizontal Reinforcement for Concrete Basement Walls | Height of Basement Wall has been changed to Maximum Unsupported Wall Height. |
| Table R404.1.2(8) | Minimum Vertical Reinforcement for 6-, 8-, 10- and 12-Inch Nominal Flat Basement Walls | Table R404.1.2(8) | Minimum Vertical Reinforcement for 6-, 8-, 10- and 12-Inch Nominal Flat Basement Walls | Maximum Wall Height has been changed to Maximum Unsupported Wall Height. |
| R404.1.2.1 | Masonry foundation walls | R404.1.2.1 | Masonry foundation walls | Seismic design requirements have been deleted. |
| R404.1.3.2 | Reinforcement for foundation walls | R404.1.3.2 | Reinforcement for foundation walls | Seismic design requirements have been deleted. |
| R404.1.3.3.1 | Compressive strength | R404.1.3.3.1 | Compressive strength | Seismic design requirements have been deleted. |
| R404.1.3.3.7.1 | Steel reinforcement | R404.1.3.3.7.1 | Steel reinforcement | Seismic design requirements have been deleted. |
| R404.1.3.4 | Requirements for Seismic Design Category C | - | - | Section deleted and shown as Reserved. |
| R404.1.4 | Seismic Design Category C, D0 or D1 | - | - | Section deleted and shown as Reserved. |
| R404.1.5.3 | Pier and curtain wall foundations | R404.1.5.3 | Pier and curtain wall foundations | Seismic design requirements have been deleted. |
| R404.1.8 | Rubble stone masonry | R404.1.8 | Rubble stone masonry | Seismic design requirements have been deleted. |
| R404.1.9.4 | Seismic design of masonry piers | - | - | Section deleted and shown as Reserved. |
| R404.5.2 | Precast concrete foundation design drawings | R404.5.2 | Precast concrete foundation design drawings | Reference to Seismic Design Category in Note 6 has been deleted and shown as Reserved. |
| R407.3 | Structural requirements | R407.3 | Structural requirements | Reference to seismic design in the exception has been deleted. |
| R408.1 | Ventilation | R408.1 | Moisture control | The provisions for these sections have been combined and reformatted to eliminate duplicative language and correlate the requirements. Clarifies that ventilation openings are required to be with 3 feet of each external corner. |
| R408.2 | Openings for under-floor ventilation | R408.2 | Openings for under-floor ventilation |
| R408.3 | Unvented crawl space | R408.3 | Unvented crawl space | Charging language revised for clarity. Moisture removal requirements in Item 2.4 have been revised to be in accordance with the manufacturer’s specifications. |
| **Chapter 5: Floors** | | | | |
| R502.11.4 | Truss design drawings | R502.11.4 | Truss design drawings | Requirement to identify controlling earthquake loads on truss design drawings has been deleted. |
| Table R507.5 | Deck Beam Span Lengths | Table R507.5 | Deck Beam Span Lengths | Reference to ground snow load has been deleted. New footnote accounts for deck joist cantilevers than are less ¼ of the main deck joist span. |
| Table R507.6 | Deck Joist Spans for Common Lumber Species | Table R507.6 | Deck Joist Spans for Common Lumber Species | Reference to ground snow load has been deleted. |
| Table R507.8.1.3(1) | Deck Ledger Connection to Band Joist | Table R507.8.1.3(1) | Deck Ledger Connection to Band Joist | Reference to snow load has been deleted. |
| R507.8.1.2 | Band joist details | R507.8.1.2 | Band joist details | The minimum band joist depth of 9 ½ inches has been deleted. Douglas-fir laminated veneer lumber has been changed to nominal engineered wood rim boards. |
| - | - | R507.9 | Exterior guards | New section providing design requirements for exterior guards on decks. |
| **Chapter 6: Wall Construction** | | | | |
| R606.8.2 | Masonry in Seismic Design Categories A, B and C | R606.8.2 | Masonry serving as the later-force-resisting system | Reference to seismic design has been deleted. |
| R606.2.8.3 | Masonry in Seismic Design Categories D0, D1 and D2 | - | - | Section deleted. |
| R606.4.4 | Parapet Walls | R606.4.4 | Parapet Walls | Reference to seismic design has been deleted. |
| R608.1 | General (exterior concrete wall construction) | R608.1 | General (exterior concrete wall construction) | ACI 332 has been added an option for designing exterior concrete walls. |
| R608.2 | Applicability limits | R608.2 | Applicability limits | Seismic limitations have been deleted. |
| Table R608.8(2) | Maximum Allowable Clear Spans for 4-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(2) | Maximum Allowable Clear Spans for 4-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(3) | Maximum Allowable Clear Spans for 6-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(3) | Maximum Allowable Clear Spans for 6-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(4) | Maximum Allowable Clear Spans for 8-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(4) | Maximum Allowable Clear Spans for 8-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(5) | Maximum Allowable Clear Spans for 10-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(5) | Maximum Allowable Clear Spans for 10-Inch-Nominal Thick Flat Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(6) | Maximum Allowable Clear Spans for 6-Inch-Thick Waffle-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(6) | Maximum Allowable Clear Spans for 6-Inch-Thick Waffle-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(7) | Maximum Allowable Clear Spans for 8-Inch-Thick Waffle-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(7) | Maximum Allowable Clear Spans for 8-Inch-Thick Waffle-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| Table R608.8(8) | Maximum Allowable Clear Spans for 6-Inch-Thick Screen-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Table R608.8(8) | Maximum Allowable Clear Spans for 6-Inch-Thick Screen-Grid Lintels in Load-Bearing Walls Roof Clear Span 40 Feet and Floor Clear Span 32 Feet | Reference to ground snow loads has been deleted and all table values for ground snow loads of 30 psf and 70 psf have been deleted. |
| R609.3.1 | Comparative analysis (exterior windows and doors) | R609.3.1 | Comparative analysis (exterior windows and doors) | Section revised to permit the use of AAMA 2502 for comparative analysis of windows and doors for structural wind load design pressures. |
| R610.2 | Applicability limits (structural insulated panel wall construction) | R610.2 | Applicability limits (structural insulated panel wall construction) | Snow load limitations have been deleted. |
| Table R610.5(1) | Minimum Thickness for SIP Wall Supporting SIP or Light-Frame Roof Only | Table R610.5(1) | Minimum Thickness for SIP Wall Supporting SIP or Light-Frame Roof Only | Reference to snow loads has been deleted and all table values for ground snow loads of 30 psf , 50 psf and 70 psf have been deleted. |
| Table R610.5(2) | Minimum Thickness for SIP Wall Supporting SIP or Light-Frame One Story and Roof Only | Table R610.5(2) | Minimum Thickness for SIP Wall Supporting SIP or Light-Frame One Story and Roof Only | Reference to snow loads has been deleted and all table values for ground snow loads of 30 psf , 50 psf and 70 psf have been deleted. |
| Table R610.8 | Maximum Spans for 11 7/8-Inch or Deeper SIP Header | Table R610.8 | Maximum Spans for 11 7/8-Inch or Deeper SIP Header | Reference to snow loads has been deleted and all table values for ground snow loads of 20 psf, 30 psf , 50 psf and 70 psf have been deleted. |
| **Chapter 7: Wall Covering** | | | | |
| Table R702.3.5 | Minimum Thickness and Application of Gypsum Board and Gypsum Panel Products | Table R702.3.5 | Minimum Thickness and Application of Gypsum Board and Gypsum Panel Products | In the size of nails column, the term “annular ringed” has been changed to “ring shank.” |
| Table R702.3.6 | Allowable (ASD) Shear Capacity for Horizontal Wood-Framed Gypsum Board Diaphragm Ceiling Assemblies | Table R702.3.6 | Allowable (ASD) Shear Capacity for Horizontal Wood-Framed Gypsum Board Diaphragm Ceiling Assemblies | The reduction in shear capacity for Seismic Design Categories D0, D1, D2 and E has been deleted. |
| R702.7 | Vapor retarders | R702.7 | Vapor retarders | Requirements for vapor retarders have been reorganized into a table format for simplicity. A new exception has been added specifically stating that vapor retarders are not required in Climate Zones 1, 2 and 3. Vapor retarder options have been expanded. |
| R703.1.2.1 | Wind resistance of soffits | R703.1.2.1 | Wind resistance of exterior soffits | Section revised to clarify the provisions apply to exterior soffits. |
| R703.2 | Water-resistive barrier | R703.2 | Water-resistive barrier | Section has been reorganized by providing the options for water-resistive barriers in a list form. Materials complying with ASTM E2568 Type I or 3 and ASTM E331 have been added as options for water-resistive barriers. |
| R703.3.3 | Minimum fastener length and penetration | R703.3.3 | Minimum fastener length and penetration | The prescriptive fastening requirements for vinyl siding and insulated vinyl siding in Item 3 have been deleted. New language refers to Section R703.11 or R703.13 for fastening vinyl and insulated vinyl siding. |
| - | - | R703.3.4 | Polypropylene siding | New section referring to Section R703.14 for fasteners for polypropylene siding. |
| - | - | R703.3.5 | Siding clearance at wall and adjacent surfaces | A new section has been added requiring siding to have a clearance of at least 6 inches from grade and at least ½ inch from other adjacent surfaces (decks, roofs, slabs) |
| R703.4 | Flashing | R703.4 | Flashing | For exterior window and door openings, FMA/AAMA/WDMA 2710 has been added as a referenced standard for flashing for exterior windows and doors. The water-resistive barrier manufacturer’s instruction has also been added as an option for flashing exterior windows and doors. |
| R703.5 | Wood, hardboard and wood structural panel siding | R703.5 | Wood, hardboard and wood structural panel siding |  |
| R703.8 | Anchored stone and masonry veneer, general | R703.8 | Anchored stone and masonry veneer, general | Seismic design limitations have been deleted. |
| Table R703.8(1) | Stone or Masonry Veneer Limitations and Requirements, Wood or Steel Framing, Seismic Design Categories A, B and C | Table R703.8(1) | Stone or Masonry Veneer Limitations and Requirements, Wood or Steel Framing | Seismic design limitations for stone or masonry veneer height, and thickness have been deleted. |
| Table R703.8(2) | Stone or Masonry Veneer Limitations and Requirements, One- and Two-Family Detached Dwellings, Seismic Design Categories D0, D1 and D2 | - | - | Table deleted. |
| R703.8.2 | Exterior veneer support | R703.8.2 | Exterior veneer support | Reference to seismic design limitations has been deleted. |
| R703.8.4 | Anchorage | R703.8.4 | Anchorage | Section revised to clarify the two separate masonry tie anchorage options – directly to studs and to wood structural panel sheathing. |
| R703.8.4.1 | Size and spacing (veneer ties) | R703.8.4.1 | Size and spacing (veneer ties) | Seismic design limitations have been deleted. |
| Table R703.8.4(1) | Tie Attachment and Airspace Requirements | Table R703.8.4(1) | Tie Attachment and Airspace Requirements | Seismic requirements in Note a have been deleted. New options have been added to the table to allow for larger airspaces to be constructed between masonry veneer and backing. Adjustable metal strand wire is now permitted for wood stud backing and cold-formed steel stud backing. |
| R703.11 | Vinyl siding | R703.11 | Vinyl siding | The term “approved quality control agency” has been changed “approved agency” which is a defined term. |
| R703.11.1 | Installation | R703.11.1 | Installation | Section revised to include insulated vinyl siding within the scope. Clarifies that accessories for vinyl siding have to be compatible. |
| R703.11.1.2 | Penetration depth | R703.11.1.2 | Penetration depth | Specific requirements for nailing vinyl siding directly to sheathing have been deleted. |
| - | - | R703.11.1.4 | Starter strip | A new section has been added requiring the first course of horizontal vinyl siding to be secured using a manufacturer approved starter strip. New Figure R703.11.1.4(1) provides an illustration of a typical installation of an approved starter strip for horizontal vinyl siding. |
| - | - | R703.11.1.5 | Utility trim | A new section has been added requiring the use of utility trim and snap locks to secure the top edge where horizontal vinyl siding has to be cut or trimmed below windows and at the top of walls. New Figures R703.11.1.5(1) and R703.1.5(2) provide illustrations of typical snap lock and utility trim used to secure the top edge of horizontal vinyl siding. |
| R703.11.2 | Installation over foam plastic sheathing (vinyl siding) | R703.11.2 | Installation over foam plastic sheathing (vinyl siding) | Section revised to clarify terminology. |
| Table R703.11.2 | Required Minimum Wind Load Design Pressure Rating for Vinyl Siding Installed Over Foam Plastic Sheathing Alone | Table R703.11.2 | Adjusted Minimum Design Wind Pressure Requirement for Vinyl Siding | Minimum wind load design pressure ratings for vinyl siding installed over foam plastic sheathing have been revised for consistency with ASTM D3679 which has changed the pressure equalization factor for vinyl siding from 0.36 to 0.5. Table notes have been revised to clarify terminology. |
| R703.14 | Polypropylene siding | R703.14 | Polypropylene siding | The term “approved quality control agency” has been changed “approved agency” which is a defined term. |
| R703.14.1.1 | Installation (polypropylene siding) | R703.14.1.1 | Installation (polypropylene siding) | Section revised to require that polypropylene accessories are installed in accordance with the manufacture’s installation instructions. |
| - | - | R703.14.1.1.1 | Starter strip | A new section has been added requiring the first course of horizontal polypropylene siding to be secured using a manufacturer approved starter strip. |
| - | - | R703.14.1.1.2 | Under windows and top of walls | A new section has been added requiring the use of nail slot punch or pre-drilled holes to secure the top edge where the nail hem of horizontal polypropylene siding has to be cut or trimmed below windows and at the top of walls. New Figure R703.14.1.1.2(1) provides an illustration of typical trim under winds and the top of walls for polypropylene siding. |
| R703.14.1.2 | Fastener requirements (polypropylene siding) | R703.14.1.2 | Fastener requirements (polypropylene siding) | Section revised to clarify terminology. New language added requiring the spacing of fasteners to be in accordance with the manufacturer’s installation instructions. |
| Table R703.15.1 | Cladding Minimum Fastening Requirements for Direct Attachment Over Foam Plastic Sheathing to Support Cladding Weight | Table R703.15.1 | Cladding Minimum Fastening Requirements for Direct Attachment Over Foam Plastic Sheathing to Support Cladding Weight | Table revised to add maximum foam sheathing thicknesses for cladding weights of 15 psf. New Note b added permitting the thickness of wood structural panels complying with the specific gravity requirement of Note a to be included in satisfying the minimum penetration into framing. |
| Table R703.15.2 | Furring Minimum Fastening Requirements for Application Over Foam Plastic Sheathing to Support Cladding Weight | Table R703.15.2 | Furring Minimum Fastening Requirements for Application Over Foam Plastic Sheathing to Support Cladding Weight | Table revised to add maximum foam sheathing thicknesses for cladding weights of 15 psf. New Note b added addressing fastening through wood structural panels. |
| Table R703.16.1 | Cladding Minimum Fastening Requirements for Direct Attachment Over Foam Plastic Sheathing to Support Cladding Weight | Table R703.16.1 | Cladding Minimum Fastening Requirements for Direct Attachment Over Foam Plastic Sheathing to Support Cladding Weight | Table revised to add maximum foam sheathing thicknesses for cladding weights of 15 psf. New Note b added addressing cladding attached to wood structural panel sheathing only. |
| Table R703.16.2 | Furring Minimum Fastening Requirements for Application Over Foam Plastic Sheathing to Support Cladding Weight | Table R703.16.2 | Furring Minimum Fastening Requirements for Application Over Foam Plastic Sheathing to Support Cladding Weight | Table revised to add maximum foam sheathing thicknesses for cladding weights of 15 psf. |
| R704.2.1 | Vinyl soffit panels | R704.2.1 | Vinyl soffit panels | Section revised to include aluminum soffit panels within its scope. Requires vinyl and aluminum soffit panels to be attached with aluminum, galvanized, stainless steel or rust-preventative coated nails. New language requires facia covers to also comply with new Section R704.3. |
| Figure R704.2.1 | Typical Single-Span Vinyl Soffit Panel Support | Figure R704.2.1 | Typical Single-Span Vinyl or Aluminum Soffit Panel Support | Figure revised to include aluminum soffit panels within its scope. New language has been added requiring fascia to be in accordance with Section R704.3. |
| Figure R704.2.2 | Typical Multi-Span Vinyl Soffit Panel Support | Figure R704.2.2 | Typical Multi-Span Vinyl or Aluminum Soffit Panel Support | Figure revised to include aluminum soffit panels within its scope. Revised to require fascia to be in accordance with Section R704.3. |
| - | - | R704.3 | Aluminum fascia | A new section has been added that specifies the minimum thickness and attachment of aluminum fascia. New subsections address the following:   * Fascia installation where the design wind pressure is 30 psf or less (R704.3.1) * Fascia installation where the design wind pressure exceeds 30 psf but is 60 psf or less (R704.3.2) * Fascia installation where the design wind pressure exceeds 60 psf (R704.3.3) |
| - | - | R704.4 | Corners on hip roofs (aluminum fascia) | A new section has been added that addresses wrapping of fascia around corners of hip roofs. |
| - | - | R704.5 | Corners on gable roofs (aluminum fascia) | A new section has been added that addresses wrapping of fascia around corners of gable roofs. |
| **Chapter 8: Roof-Ceiling Construction** | | | | |
| R802.1.5 | Fire-retardant-treated wood | R802.1.5 | Fire-retardant-treated wood | Testing of fire-retardant-treated wood has been revised for consistency with ASTM E84. New language requires the ASTM E84 or UL 723 test to be continue for additional 20 minutes. |
| R802.1.5.2 | Other means during manufacture (fire-retardant-treated wood) | R802.1.5.2 | Other means during manufacture (fire-retardant-treated wood) | Section revised to specifically prohibit the use of paints, coatings, stains, or other surface treatments as a method of protection as required by this section. Terminology has been clarified. |
| R802.1.5.3 | Testing | R802.1.5.3 | Testing | Section revised to clarify the fire-retardant-treated wood is required to be tested on the front and back and not all sides. |
| - | - | R802.1.5.3.1 | Fire testing of wood structural panels | New section requiring fire-retardant-treated wood structural panels to be tested with a ripped or cut longitudinal gap of 1/8 inch. |
| R802.10.1 | Truss design drawings | R802.10.1 | Truss design drawings | Requirement to identify controlling earthquake loads on truss design drawings has been deleted. |
| R802.10.2.1 | Applicability limits | - | - | Section deleted. |
| R803.1 | Lumber sheathing | R803.1 | Lumber sheathing | Reference to seismic design has been deleted. |
| R803.2.3.1 | Sheathing fastenings | R803.2.3.1 | Sheathing fastenings | Section revised to require the use of ASTM F1667 RSRS-03 ring shank nails where the sheathing thickness is greater than 15/32 inch. ASTM F1667 RSRS-04 nails are now only permitted to be used where the sheathing thickness is 15/32 inch and less. |
| Table R803.2.3.1 | Roof Sheathing Attachment | Table R803.2.3.1 | Roof Sheathing Attachment | Note b has been revised to permit fastening in accordance with the AWC WFCM for specific gravities other than those shown providing the spacing does not exceed 6 inches on center along panel edges and 12 inches on center along intermediate supports in the panel field. |
| **Chapter 9: Roof Assemblies** | | | | |
| R902.1 | Roof covering materials | R902.1 | Roof covering materials | Section revised to clarify that Class A, B or C roof assemblies are required to be tested in accordance with ASTM E108 or UL 790. The term “roofing” has been changed to “roof assemblies” for clarity. |
| R905.1.1 | Underlayment | R905.1.1 | Underlayment | Section revised to clarify that these provisions apply to roofs with slopes of 2:12 and greater. Underlayment complying with ASTM D8257 (synthetic underlayment) has been added as an underlayment material option. |
| R905.1.1.1 | Underlayment for asphalt, metal, mineral surfaced, slate and slate-type roof coverings. | R905.1.1.1 | Underlayment for asphalt shingles, metal roof panels or shingles, mineral surfaced roll roofing, slate and slate-type shingles, wood shakes and wood shingles. | Wood shakes and shingles have been added to the scope of this section. A new exception has been added that prohibits the use of ASTM D1970 underlayment with wood shakes and shingles.  The minimum width of the self-adhering modified bitumen strips complying with ASTM D1970 (formerly Option 2) has been reduced to 3 ¾ inches from 4 inches. The exception for synthetic underlayment has been deleted as underlayment complying with ASTM D8257 is now specifically permitted in Section R905.1.1.  The application and lapping of the double underlayment system (formerly Options 4 and 5) has been revised to account for underlayment widths that exceed 36 inches. Underlayment Option 5 for synthetic underlayment has been deleted because performance requirements for synthetic underlayment are now contained in ASTM D8257. Underlayment complying with ASTM D8257 is now specifically permitted in Section R905.1.1.  A new exception prohibits the use of ASTM D8257 underlayment with wood shakes and shingles.  Underlayment fastening has been revised to account for underlayment widths that exceed 36 inches. |
| R905.1.1.3 | Underlayment for wood shakes and shingles | - | - | Section deleted. Underlayment for wood shakes and shingles is now covered in Section R905.1.1.1. |
| Table R905.1.1.1 | Underlayment With Self-Adhering Strips Over Roof Decking Joints | Table R905.1.1.1 | Underlayment With Self-Adhering Strips Over Roof Decking Joints | Table revised to permit the use of underlayment complying with ASTM D8257 for all roof coverings except wood shakes and wood shingles. Underlayment for wood shakes and wood shingles is required to comply with ASTM D226 Type II or ASTM D4869 Types III or IV.  Underlayment fastening has been revised to account for underlayment widths that exceed 36 inches. |
| R905.2.2 | Slope (asphalt shingles) | R905.2.2 | Slope (asphalt shingles) | The requirement that double underlayment application be used for roof slopes from 2:12 to less than 4:12 has been deleted. |
| R905.2.6.1 | Classification of asphalt shingles | R905.2.6.1 | Wind resistance of asphalt shingles | Section revised to clarify that the standards referenced in this section are for testing as well as classification. New language points to Table R905.2.6.1 for the required classification of asphalt shingles based on wind speed. The incorrect limitation of ASTM D7158 Class G asphalt shingles has been removed. |
| R905.2.8.2 | Valleys | R905.2.8.2 | Valleys | Section revised to require self-adhering underlayment complying with ASTM D1970 to be a minimum of 36 inches wide when used on closed valleys. |
| R905.2.8.4 | Other flashing | R905.2.8.4 | Other flashing | Section revised to refer to the manufacturer’s instructions instead of printed instructions. |
| R905.2.8.5 | Drip edge | R905.2.8.5 | Drip edge | Section revised to require drip edge to be installed “over” the underlayment at gables (rakes) and at eaves. New language permits the use of self-adhering underlayment as an alternate to the 4 inch width of roof cement installed over the drip edge flange. When self-adhering underlayment is used, the drip edge flange is required to be primed. |
| R905.3 | Concrete and clay tile | R905.3 | Concrete and clay tile | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.2 | Deck slope | R905.3.2 | Deck slope | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.3 | Underlayment | R905.3.3 | Underlayment | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted.  New exception added to correlate with an existing exception in Section R905.1.1 regarding existing self-adhering modified bitumen underlayment when reroofing. |
| R905.3.3.1 | Slope and underlayment requirements | R905.3.3.1 | Slope and underlayment requirements | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.6 | Fasteners | R905.3.6 | Fasteners | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.7 | Application | R905.3.7 | Application | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.7.1 | Hip and ridge tiles | R905.3.7.1 | Hip and ridge tiles | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R905.3.8 | Flashing | R905.3.8 | Flashing | The FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual has been updated to the 7th Edition. The option to use RAS 118, RAS 119, or RAS 120 for concrete and clay tile installation has been deleted. |
| R906.1 | General (roof insulation) | R906.1 | General (roof insulation) | Section revised to replace material complying with FM 4450 with NFPA 276 for above-deck thermal insulation. Materials complying with UL 1256 have been maintained. |
| Table R906.2 | Material Standards for Roof Insulation | Table R906.2 | Material Standards for Roof Insulation | Cellular glass board complying with ASTM C1902 has been added for materials for roof insulation. |
| R908.1.1 | 25 percent rule | R908.1.1 | 25 percent rule | When the 25 percent rule is triggered, it now applies to a roof replacement and roof recover. |
| R908.7.2 | Roof secondary water barrier for existing structures with wood roof decks | R908.7.2 | Roof secondary water barrier for existing structures with wood roof decks | Specific underlayment (secondary water barrier) requirements for the HVHZ have been deleted. Underlayment in the HVHZ is now required to be in accordance with the requirements for new construction in Section 1518.2 of the FBCB. |
| **Chapter 10: Chimneys and Fireplaces** | | | | |
| R1001.3 | Seismic reinforcing (masonry fireplaces) | - | - | Section deleted and shown as Reserved. |
| R1001.4 | Seismic anchorage | - | - | Section deleted and shown as Reserved. |
| Table R1001.1 | Summary of Requirements for Masonry Fireplaces and Chimneys | Table R1001.1 | Summary of Requirements for Masonry Fireplaces and Chimneys | Seismic requirements have been deleted from the table |
| Figure R1001.1 | Fireplace and Chimney Details | Figure R1001.1 | Fireplace and Chimney Details | Seismic requirements have been deleted from the figure. |
| - | - | R1001.13 | Fireplace accessories | New section requiring fireplace accessories to comply with UL 907. Requires listed and labeled fireplace accessories to be installed in accordance with the conditions of the listing and the manufacturer’s instructions. |
| R1002.4 | Seismic reinforcing (masonry heaters) | - | - | Section deleted and shown as Reserved. |
| R1003.3 | Seismic reinforcing (masonry chimneys) | - | - | Section deleted and shown as Reserved. |
| R1003.4 | Seismic anchorage | - | - | Section deleted and shown as Reserved. |
| **Chapter 11: Energy Efficiency** | | | | |
| *No changes.* | | | | |
| **Chapter 12: Mechanical Administration** | | | | |
| *No changes.* | | | | |
| **Chapter 13: General Mechanical System Requirements** | | | | |
| M1307.2 | Anchorage of appliances | M1307.2 | Anchorage of appliances | Seismic design requirements have been deleted. |
| - | - | M1307.7 | Prohibited support (appliances) | New section prohibiting the use of gypsum board as a support base under an appliance. |
| **Chapter 14: Heating and Cooling Equipment and Appliances** | | | | |
| - | - | M1411.3.1.2 | Appliance, equipment and insulation in pans (heating and cooling equipment) | New section requiring appliances, equipment or insulation subject to water damage when auxiliary drain pans fill, that portion of the appliance, equipment and insulation to be installed above the rim of the pan. Supports inside the pan for appliances or equipment are required to be water resistant. Correlates with Section 307.2.3.2 of the FBCM. |
| - | - | M1411.9 | Support of refrigerant piping | New section requiring refrigerant piping and tubing to be securely fastened to a permanent support within 6 feet of the condensing unit. |
| **Chapter 15: Exhaust Systems** | | | | |
| M1502.3 | Duct termination (clothes dryer exhaust) | M1502.3 | Duct termination (clothes dryer exhaust) | Section revised to also prohibit exhaust ducts from terminating not less than 3 feet in any direction from openings in ventilated soffits. |
| - | - | M1502.4.8 | Booster fans prohibited | New section specifically prohibiting the installation of domestic booster fans in clothes dryer exhaust systems. |
| Table M1507.4 | Minimum Required Local Exhaust Rates for One- and Two-Family Dwellings | Table M1507.4 | Minimum Required Local Exhaust Rates for One- and Two-Family Dwellings | New Note a requires the listed exhaust rate for bathrooms-toilet rooms to equal or exceed the exhaust rate at a minimum static pressure of 0.25 inch wc. |
| **Chapter 16: Duct Systems** | | | | |
| M1601.1.1 | Above-ground duct systems | M1601.1.1 | Above-ground duct systems | Section revised to require fireblocking used for isolation in stud wall cavities and spaces between solid joists used as plenums, to comply with Section R302.11.1. |
| **Chapter 17: Combustion Air** | | | | |
| *No changes.* | | | | |
| **Chapter 18: Chimneys and Vents** | | | | |
| - | - | M1802.4 | Blocked vent switch (vent components) | New section requiring oil-fired appliances to be equipped with a device that will stop burner operation in the event that the venting system is obstructed. Such devices are required to have a manual reset and shall be installed in accordance with the manufacturer’s instructions. |
| **Chapter 19: Special Appliances, Equipment and Systems** | | | | |
| M1903 | Stationary Fuel Cell Power Plants | - | - | Section deleted and shown as Reserved. Section R328 requires stationary fuel cell power systems to comply with the FFPC. |
| - | - | M1905 | Residential Permanently Installed Standby Generators | New section added addressing installation requirements for residential permanently installed stand-by generators. These new requirements specifically address the following:   * Electrical installation * Flood hazard areas * Fuel installation * Wind resistance * Exhaust location |
| **Chapter 20: Boilers and Water Heaters.** | | | | |
| *No changes.* | | | | |
| **Chapter 21: Hydronic Piping** | | | | |
| - | - | M2101.11 – M2101.31 | Specific installation requirements for hydronic piping | New sections added for hydronic piping adapted from Section M2105 for ground-source heat-pump system loop piping. |
| M2103.1 | Piping materials (floor heating systems) | M2103.1 | Piping materials (floor heating systems) | Polybutylene piping is no longer permitted to be used in floor heating systems. The minimum rating for permitted piping materials has been reduced from 100 psf to 80 psi at 180°F. |
| Table M2105.4 | Ground-Source Loop Pipe | Table M2105.4 | Ground-Source Loop Pipe | Standards for acceptable piping materials have been updated. |
| Table M2105.5 | Ground-Source Loop Pipe Fittings | Table M2105.5 | Ground-Source Loop Pipe Fittings | Standards for acceptable piping fittings have been updated. |
| M2105.7 | Preparation of pipe ends | M2105.7 | Preparation of pipe ends | Section has been revised to remove terminology that doesn’t apply to plastic pipes. New language requires pipe ends to be prepared in accordance with the pipe manufacturer’s instructions. |
| **Chapter 22: Special Piping and Storage Systems** | | | | |
| M2202.1 | Materials (oil piping, fitting and connections) | M2202.1 | Materials (oil piping, fitting and connections) | Section revised to permit the use of stainless steel tubing conforming to ASTM A254 or ASTM A269. |
| M2202.2 | Joints and fittings | M2202.2 | Joints and fittings | The term “standard fittings” has been changed to “fittings.” |
| M2203.5 | Vent termination (vent piping) | M2203.5 | Vent termination (vent piping) | The requirement that vent terminations be located to avoid obstruction by snow and ice has been deleted. |
| **Chapter 23: Solar Thermal Energy Systems** | | | | |
| M2301.2.13 | Thermal storage unit seismic bracing | - | - | Section deleted. |
| **Chapter 24: Fuel Gas** | | | | |
| - | - | G2403 | Definitions: Copper Alloy | New definition of copper alloy added and defined as a homogeneous mixture of not less than two metals where not less than 50 percent of the finished metal is copper. |
| G2403 | Definitions: Point of delivery | G2403 | Definitions: Point of delivery | Definition revised to include system shutoff valves provided after the outlet of the service meter assembly. |
| - | - | G2403 | Definitions: Press-Connect Joint | New definition of press-connect joint added that aligns with the definition currently used in the FBCM and FBP. |
| G2403 | Definitions: Regulator, Monitoring | G2403 | Definitions: Regulator, Monitoring | Definition revised to remove technical requirements as they are already covered in Section 416 of the FBCFG. |
| - | - | G2403 | Definitions: Service Meter Assembly | New definition of service meter assembly defined as the meter, valve, regulator, piping, fittings and equipment installed by the service gas supplier before the point of delivery. |
| - | - | G2403 | Definitions: System Shutoff | New definition of system shutoff added defined as a valve installed after the point of delivery to shut off the entire piping system. |
| G2403 | Definitions: Service Shutoff | G2403 | Definitions: Service Shutoff | Definition revised to clarify that the service shutoff valve is always installed between the gas supply and point of delivery. |
| G2407.8 | Engineered solutions (combustion air) | G2407.8 | Engineered solutions (combustion air) | Section revised to require engineered solutions be determined using approved engineering methods. |
| G2412.5 | Identification (exposed piping) | G2412.5 | Identification (exposed piping) | Section revised to require CSST to be identified as required by ANSI LC 1/CSA 6.26. |
| G2413.3 | Sizing (pipe) | G2413.3 | Sizing (pipe) | Section revised to editorially clarify that gas piping is permitted to sized in accordance with “approved engineering methods.” |
| G2413.6 | Allowable pressure drop | G2413.6 | Allowable pressure drop | The design pressure loss now applies to a piping system under maximum demand and applies throughout the entire gas piping system not to any individual appliance. |
| G2413.7 | Maximum operating pressure | G2413.7 | Maximum operating pressure | New condition added for exceeding 5 psi pressure inside buildings. Piping has to be joined by fittings listed to ANSI LC4/CSA 6.32 and installed in accordance with the manufacturer’s instructions. |
| G2413.3 | Other materials (piping) | - | - | Section deleted. |
| G2414.9.3 | Thread joint compounds | G2414.8.3 | Thread joint compounds | Section revised for clarity. Requires threaded joints to be made using a thread joint sealing material. Requires thread joint sealing materials to be compatible with the piping fitting materials on which the sealing materials are used. |
| G2414.11 | Plastic pipe, joints, and fittings | G2414.10 | Plastic pipe, joints, and fittings | Heat fusion joints (Item 2) have revised to require polyethylene heat fusion fittings to be marked “ASTM D2513” and polyamide heat fusion fittings to be marked “ASTM F2945.” |
| G2415.5 | Fittings in concealed locations | G2415.5 | Fittings in concealed locations | Threaded plugs and caps have been added acceptable fittings to be installed in concealed locations. |
| G2415.11.5 | Prohibited use (uncoated joints) | - | - | Section deleted as unnecessary because Section G2415.11.2, Item 2 requires pipe to have a factor-applied, electrically insulating coating. |
| G2415.18 | Pipe cleaning | G2415.18 | Pipe debris removal | Section revised to require that the interior piping to be clear of debris. |
| G2422.1 | Connecting appliances | G2422.1 | Connecting appliances | Section revised to require quick-disconnect devices to be listed and labeled and comply with ANSI Z21.41/CSA 6.9. Convenience outlets are required to be listed and labeled and comply with ANSI Z21.90/CSA 6.24. |
| G2427.2.1 | Direct-vent appliances (venting) | G2427.2.1 | Direct-vent appliances (venting) | Section revised to require through-the-wall vent terminations for listed direct-vent appliances to be in accordance with Section G2427.8. Listed direct-vent appliances are required to be installed in accordance with the manufacturer’s instructions. |
| G2427.2.2 | Appliances with integral vents | G2427.2.2 | Appliances with integral vents | Section revised to require that appliances incorporating integral venting means be installed in accordance with Section G2427.8. The requirement that they be installed in accordance with the manufacturer’s instructions has been deleted. |
| G2427.3.3 | Mechanical draft systems | G2427.3.3 | Mechanical draft systems | Item 6 applying to the location of exit terminals of mechanical draft systems has been deleted. |
| G2427.5.1 | Factory-built chimneys | G2427.5.1 | Factory-built chimneys | The requirement that factory-built chimneys be installed in accordance with the manufacturer’s instructions has been deleted. |
| G2427.5.4 | Size of chimneys | G2427.5.4 | Size of chimneys | Methods 2 and 3 for determining the effective area of a chimney venting system have been revised for clarity. |
| G27.5.5.1 | Chimney lining | G27.5.5.1 | Chimney lining | The exception permitting existing chimneys to be continued to be used provided specific conditions are met, has been deleted. |
| G2427.5.10 | Insulation shield | G2427.5.10 | Insulation shield | Language requiring Insulation shields provided as part of a listed chimney system to be installed in accordance with the manufacturer’s installation instructions has been deleted. |
| G2427.6.9.1 | Category I appliances (size of vents) | G2427.6.9.1 | Category I appliances (size of vents) | Terminology in Method 4 for sizing vents has been changed from “approved engineering practices” to “approved engineering methods.” |
| G2427.7.9 | Size of single-wall metal pipe | G2427.7.9 | Size of single-wall metal pipe | Terminology in Method 3 for sizing vents has been changed from “approved engineering practices” to “approved engineering methods.” |
| G2427.8 | Venting system termination location | G2427.8 | Venting system terminal clearances | The requirements for the location of through-the-wall vent terminals have been completely rewritten. Specific requirements are now contained in new Table G2427.8 that is correlated with new Figure G2427.8 that pictorially shows the clearance requirements specified in the Table G2427.8. New clearance locations addressed include: above finished grade, unventilated soffit, inside corner of buildings, and others. The specific clearances required from exterior air openings has been clarified. |
| Figure G2427.8 | Through-The-Wall Vent Terminal Clearances |
| Table G2427.8 | Through-The-Wall Vent Terminal Clearances |
| G2427.9 | Condensation drainage | G2427.9 | Condensation drainage | Section revised to simply require the collection and disposal of condensate from venting systems and for condensate drains to be installed in accordance with the appliance and vent manufacturer’s instruction. The requirement pertaining to local experience for condensate removal has been deleted. |
| G2427.10.3.2 | Multiple draft hood | G2427.10.3.2 | Multiple draft hood | “Approved engineering practices” has been changed to “approved engineering methods.” |
| - | - | G2427.10.7 | Connector junctions | New section requiring the use of a tee or wye where vent connectors are joined together. |
| G2427.12.2.2 | Special design draft hood | - | - | Section deleted. |
| G2427.13 | Manually operated dampers | G2427.13 | Manually operated dampers | Section revised to clarify that balancing baffles are not to be classified as manually operated dampers. |
| - | - | G2427.13.1 | Balancing baffles | New section requiring balancing baffles to be listed in accordance with UL 378 and be mechanically locked in the desired position before placing the appliance in operation. |
| G2428.3.14 | Multiple input rate appliances | G2428.3.14 | Multiple input rate appliances | Section reorganized for clarity. |
| G2432.1 | General (decorative appliances for installation in fireplaces) | G2432.1 | General (decorative appliances for installation in fireplaces) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2432.2 | Flame safeguard device | G2432.2 | Flame safeguard device | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2433.1 | General (log lighters) | G2433.1 | General (log lighters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2434.1 | General (vented gas fireplaces) | G2434.1 | General (vented gas fireplaces) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2435.1 | General (vented gas fireplace heaters) | G2435.1 | General (vented gas fireplace heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2436.1 | General (vented wall furnaces) | G2436.1 | General (vented wall furnaces) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2437.1 | General (floor furnaces) | G2437.1 | General (floor furnaces) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2438.1 | General (clothes dryers) | G2438.1 | General (clothes dryers) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2439.5 | Makeup air | G2439.5 | Makeup air | Section reorganized by relocating the criteria for clothes dryer installed in closets to a new section. |
| G2439.5.1 | Closet installation |
| G2441.1 | General (pool and spa heaters) | G2441.1 | General (pool and spa heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2442.1 | General (forced-air warm-air furnaces) | G2442.1 | General (forced-air warm-air furnaces) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2444.1 | General (unit heaters) | G2444.1 | General (unit heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2445.1 | General (unvented room heaters) | G2445.1 | General (unvented room heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2446.1 | General (vented room heaters) | G2446.1 | General (vented room heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2447.1 | General (cooking appliances) | G2447.1 | General (cooking appliances) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2447.2 | Prohibited location | G2447.2 | Prohibited location | Exception 2 which permitted an installation designed by a licensed professional engineer has been deleted. |
| G2448.1 | General (water heaters) | G2448.1 | General (water heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2449.1 | General (air-conditioning appliances) | G2449.1 | General (air-conditioning appliances) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2450.1 | General (illuminating appliances) | G2450.1 | General (illuminating appliances) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2451.1 | General (infrared radiant heaters) | G2451.1 | General (infrared radiant heaters) | Section revised to require appliances to be listed in accordance with the specified standard. |
| G2453.1 | General (outdoor decorative appliances) | G2453.1 | General (outdoor decorative appliances) | Section revised to require appliances to be listed in accordance with the specified standard. |
| **Chapter 25: Plumbing Administration** | | | | |
| P2503.4 | Building sewer testing | P2503.4 | Building sewer testing | The requirement that building sewers be tested with not less than a 5-foot head of water has been deleted. Building sewers are now required to be tested by completely filling the building sewer with water from the lowest to the highest point. |
| P2503.5.1 | Rough plumbing (DWV system tests) | P2503.5.1 | Rough plumbing (DWV system tests) | Section revised to permit plastic piping systems to be tested by a vacuum of air. The vacuum test requires air to be evacuated by a vacuum type pump to achieve a uniform gauge pressure of -5 pounds per square inch or a negative 10-inches of mercury column (-34 kPa) and be held without the removal of additional air for a period of 15 minutes |
| **Chapter 26: General Plumbing Requirements** | | | | |
| *No changes.* | | | | |
| **Chapter 27: Plumbing Fixtures** | | | | |
| - | - | P2708.2.1 | Waste fittings (shower drains) | New section added requiring waste fittings for shower drains to conform to ASME A112.18.2/CSA B125.2. |
| P2708.4 | Shower control valves | P2708.4 | Shower control valves | Section revised to add specific language requiring field adjustment of temperature limiting devices to not-to-exceed temperature. Language has also been revised to correlate with similar requirements in the FBCP. |
| - | - | P2709.4.1 | Waste fitting (receptor drains) | New section added requiring flanged drains to conform to ASME A112.18.2/CSA B125.2. |
| P2713.3 | Bathtub and whirlpool bathtub valves | P2713.3 | Bathtub and whirlpool bathtub valves | Section revised to add specific language requiring field adjustment of temperature limiting devices to not-to-exceed temperature. New language requires access be provided for temperature limiting devices in accordance with ASSE 10705/ASME A112.1070/ CSA B125.70. An exception to the new access requirements has been added for valves that have integral water temperature limiting devices that comply with ASSE 10705/ASME A112.1070/ CSA B125.70. |
| **Chapter 28: Water Heaters** | | | | |
| P2801.8 | Water heater seismic bracing | - | - | Section deleted and shown as Reserved. |
| P2802.1 | Water temperature control (solar water heating systems) | P2802.1 | Water temperature control (solar water heating systems) | Section editorially revised to change the term “thermostatic” to “temperature-actuated.” |
| P2803.2 | Temperature control (water heaters used for space heating) | P2803.2 | Temperature control (water heaters used for space heating) | Section editorially revised to change the term “thermostatic” to “temperature-actuated.” |
| **Chapter 29: Water Supply and Distribution** | | | | |
| Table P2902.3 | Application For Backflow Preventers | Table P2902.3 | Application For Backflow Preventers | Backflow preventers with intermediate atmospheric vents complying with ASSE 1081 have been added to the table. |
| P2902.3.3 | Backflow preventer with intermediate atmospheric vent | P2902.3.3 | Backflow preventer with intermediate atmospheric vent | ASSE 1081 has been added as a recognized standard for backflow preventer with intermediate atmospheric vents. |
| P2902.5.1 | Connections to boilers | P2902.5.1 | Connections to boilers | ASSE 1081 has been added as a recognized standard for backflow preventer with intermediate atmospheric vents. |
| P2902.6.3 | Relief port piping (location of backflow preventers) | P2902.6.3 | Relief port piping (location of backflow preventers) | Section revised to require indirect waste receptor and drainage piping to be sized to drain the maximum discharge flow rate from the relief port as published by the backflow preventer manufacturer. |
| P2903.1 | Water supply system design criteria | P2903.1 | Water supply system design criteria | Section revised to clarify that this section is intended to set required design capacities and not to be used for field testing. |
| Table P2903.1 | Required Capacities at Point of Outlet Discharge | Table P2903.1 | Flow Rate and Pressures for Designing Piping Systems | Table title revised in correlation with changes to Section P2903.1 to clarify that this table is intended to set required design capacities and not to be used for field testing. |
| - | - | P2303.3.2 | Pumps handling drinking water | New section added requiring pumps intended to supply drinking water to conform to NSF 61. |
| P2904.2.1 | Temperature rating and separation from heat sources (dwelling unit fire sprinkler systems) | P2904.2.1 | Temperature rating and separation from heat sources (dwelling unit fire sprinkler systems) | Section revised to change the maximum temperature rating of sprinklers from 170°F to 225°F. |
| P2904.2.3 | Freezing areas (dwelling unit fire sprinkler systems) | P2904.2.3 | Freezing areas (dwelling unit fire sprinkler systems) | A new option for protecting sprinkler piping from freezing has been added. Dry pipe automatic sprinkler systems listed for residential occupancy applications are now permitted to be used. |
| P2904.3.2 | Shutoff valves prohibited | P2904.3.2 | Shutoff valves prohibited | Section revised to permit a control valve on a standalone sprinkler system for coordination with NFPA 13D. |
| P2904.4 | Determining system design flow | P2904.4 | Determining system design flow | Entire section including subsections has been revised to correlate with NFPA 13D and current installation practices for residential sprinklers protecting spaces with sloped and/or beamed ceilings. |
| Table P2904.6.2(2) | Minimum Water Meter Pressure Loss (PLm) | Table P2904.6.2(2) | Minimum Water Meter Pressure Loss (PLm) | Table revised to better correlate with the water meter table in NFPA 13D. |
| Table P2906.6 | Pipe Fittings | Table P2906.6 | Pipe Fittings | Table revised add ASTM F3226 as a standard for copper or copper alloy pipe fitting material. |
| P2906.21 | Push-fit joints | P2906.21 | Push-fit fitting joints | Section revised to change “push-fit joints” to “push-fit fitting joints.” |
| P2906.15 | Soldered and brazed joints | P2906.15 | Soldered and brazed joints | Section revised to require solder and flux joining pipe or fittings intended to supply drinking water to conform to NSF 61. |
| P2909.1 | Design (drinking water treatment units) | P2909.1 | Design (drinking water treatment units) | Section revised to replace NSF 60 with NSF 62 for drinking water treatment units. |
| P2912.1 | General (nonpotable rainwater collection and distribution systems) | P2912.1 | General (nonpotable rainwater collection and distribution systems) | Section revised to permit the use of CSA B805/ICC 805 for nonpotable rainwater systems for regulating the materials, design, construction and installation of systems for rainwater collection, storage, treatment and distribution of nonpotable water. |
| - | - | P2912.1.1 | Alternate compliance path | New section added permitting the use of systems for nonpotable uses that comply with CSA B805/ICC 805 as an alternate to Section P2912. |
| **Chapter 30: Sanitary Drainage** | | | | |
| Table P3002.2 | Building Sewer Pipe | Table P3002.2 | Building Sewer Pipe | ASTM D2680 has been added as a reference standard for ABS plastic pipe. |
| Table P3002.3 | Pipe fittings | Table P3002.3 | Pipe fittings | ASME A112.4.4 has been added as a reference standard for ABS plastic pipe and PVC plastic pipe. |
| - | - | P3003.3.4 | Push-fit fittings | New section added requiring push-fit DWV fittings to be listed and labeled to ASME A112.4.4 and be installed in accordance with the manufacturer’s instructions. |
| - | - | P3003.9.4 | Push-fit fittings | New section added requiring push-fit fittings to conform to ASME A112.4.4 and be installed in accordance with the manufacturer’s instructions. |
| - | - | P3005.2.10.1 | Cleanout equivalent | New section added permitting a fixture trap or a fixture with integral trap, removable without altering the concealed piping to be used as an acceptable cleanout equivalent. |
| P3009 | Subsurface Graywater Soil Absorption Systems | - | - | Entire section deleted and shown as Reserved. |
| P3011 | Replacement of Underground Sewers by PVC Fold and Form Methods | P3011 | Relining of Building Sewers and Drains | The requirements for replacing underground sewers have deleted and replaced with new requirements applicable to relining of building sewers and drains. The relining method reduces the impact of open trench excavation and reduces repair costs. |
| **Chapter 31: Vents** | | | | |
| P3103.1.1 | Roof extension (vent terminals) | P3103.1.1 | Roof extension (vent terminals) | The requirement that vents terminate not less than 6 inches above the anticipated snow accumulation has been deleted. |
| P3103.1.3 | Roof extension covered | P3103.1.3 | Roof extension covered | The reference to snow accumulation has been deleted. |
| **Chapter 32: Traps** | | | | |
| *No changes.* | | | | |
| **Chapter 33: Storm Drainage** | | | | |
| *No changes.* | | | | |
| **Chapter 34 General Requirements (Electrical)** | | | | |
| - | - | E3408 | GFCI Protection | New section added that modifies Section 210.8 in NFPA 70, National Electrical Code. A new exception to Section 210.8 has been added stating that GFCI protection is not required for listed and labeled HVAC equipment. |
|  |  |  |  |  |
| **Chapters 35 through 43: Electrical** | | | | |
| *No changes.* | | | | |
| **Chapter 44: High-Velocity Hurricane Zones** | | | | |
| *No changes.* | | | | |
| **Chapter 45: Private Swimming Pools** | | | | |
| R4501.17.1.15 | Mesh safety barriers | R4501.17.1.15 | Mesh safety barriers | Specific requirements for mesh safety barriers have been deleted and mesh safety barriers are now required to comply with ASTM F2286. Mesh safety barriers are not permitted to be installed on top of above-ground/on-ground private swimming pools. |
| **Appendix D: Recommended Procedure for Safety Inspection of an Existing Appliance Installation** | | | | |
| D.6 | Appliance-specific inspections | D.6 | Appliance-specific inspections | Item (3)d requiring an inspection of water heaters in earthquake prone regions has been deleted. |
| **Appendix G: Piping Standards for Various Applications.** | | | | |
| Table AG101.1 | Plastic Piping Standards for Various Applications | Table AG101.1 | Plastic Piping Standards for Various Applications | CSA B137.18 has been added as a reference standard for PE-RT pipe for various applications. |
| **Appendix H: Patio Covers** | | | | |
| AH105.1 | Design loads | AH105.1 | Design loads | Section revised to delete the reference to the use of snow loads. |
| **Appendix J: Existing Buildings and Structures** | | | | |
| AJ102.4.3 | Emergency escape and rescue openings | AJ102.4.3 | Replacement windows for emergency escape and rescue openings | Section revised for clarity and to correlate with section number changes in Chapter 3. Condition 3 has been revised to permit the use of fall prevention devices complying with ASTM F2090 on windows serving emergency escape and rescue openings. |
| - | - | AJ102.4.3.1 | Control devices | New section added requiring window opening control devices and fall prevention devices to not reduce the net clear opening of the window unit after operation to release the control device allowing the window to fully open. |
| AJ102.4.4 | Window control devices | AJ102.4.4 | Window control devices | Section revised to also apply to window replacement that includes the sash only when the existing frame remains. The height limitation is now based on the distance from the floor to the bottom of the clear opening instead of the sill |
| AJ401.4 | Structural (renovations) | - | - | Section deleted and shown as Reserved. |
| **Appendix K: Sound Transmission** | | | | |
| AK102.1 | General (air-borne sound) | AK102.1 | General (air-borne sound) | Section revised to require air-borne sound insulation for wall and floor-ceiling assemblies to meet a sound transmission class (STC) rating of 45 where tested in accordance with ASTM E90 or a Normalized Noise Isolation Class (NNIC) rating of 42 when tested in accordance with ASTM E336. |
| AK103.2 | General (structural air-borne sound) | AK103.2 | General (structural air-borne sound) | Section revised to permit floor/ceiling assemblies between dwelling units, or between a dwelling unit and a public or service area within a structure, to have a Normalized Impact Sound Rating (NISR) of 42 where tested in accordance with ASTM E1007. |
| **Appendix Q: Tiny Houses** | | | | |
| AQ104.2.2.1 | Size and capacity (ladders for loft access) | AQ104.2.2.1 | Size and capacity (ladders for loft access) | The capacity of ladders providing loft access has been increased from 200 lbs to 300 lbs on any rung. |
| - | - | AQ106 | Energy Conservation | New section addressing energy conservation for tiny houses. The new provisions address air leakage testing and whole-house mechanical ventilation. New Section AQ106.2 provides alternate compliance path of conditions that are deemed to meet Chapter R4 of the FBCEC. |
| **Appendix R: Light Straw-Clay Construction** | | | | |
| AR101.1 | Scope | AR101.1 | Scope | Reference to Seismic Design Categories has been deleted. |
| **Appendix S: Strawbale Construction** | | | | |
| Appendix S | Seismic requirements | Appendix S | - | All seismic requirements and references throughout Appendix S have been deleted. |
| Appendix U | Solar-Ready Provisions – Detached One- And Two-Family Dwellings, Multiple Single-Family Dwellings (Townhouses) | Appendix X | Solar-Ready Provisions – Detached One- And Two-Family Dwellings, Multiple Single-Family Dwellings (Townhouses) | The provisions of Appendix U have been relocated to Appendix X |
| **Appendix U: Cob Construction (Monolithic Adobe)** | | | | |
| A new appendix has been added providing prescriptive and performance-based requirements for the use of natural cob as a building material. This new appendix addresses the following criteria for cobb construction:   * Materials, mixing and installation * Finishes * General design requirements * Structural requirements * Floor construction * Fire resistance * Thermal performance * Other criteria | | | | |
| **Appendix V: Board of Appeals** | | | | |
| A new appendix has been added addressing the establishment of a Board of Appeals within the jurisdiction for the purpose of hearing applications for modification of the code pursuant to appeals. Specific criteria related to the rules and procedure and makeup of the board are addressed. | | | | |
| **Appendix W: 3D-Printed Building Construction** | | | | |
| A new appendix has been added addressing 3D-printed construction based on the requirements in UL 3401, *Outline of Investigation for 3D Printed Building Construction.* | | | | |