

Analysis of Changes to the 2007 Florida Building Code, Building

Detailed side-by-side comparison

This Analysis of Changes to the 2007 Florida Codes is intended to provide a comprehensive comparison of the provisions in the 2004 Florida Building Code, Building (FBCB) and the 2007 Florida Building Code, Building. The 2003 International Building Code was the base code for the 2004 FBCB. The 2006 International Building Code is the base code for the 2007 FBCB. As a result of changing the base code, specific provisions have changed significantly in addition to other technical changes. This *Analysis* will serve 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 description of the topic of the requirements from the 2004 FBCB. The next two columns contain section numbers and a brief description of the topic of the corresponding requirements in the 2007 FBCB. The far right column contains an analysis or comment on the differences between the provisions. For many entries, the basis for the change is also addressed.

This *Analysis* is not intended to replace or interpret the provisions contained in either the 2004 FBCB or the 2007 FBCB. This information simply points out the differences. The *Analysis* is not designed to be used without the aide 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 significant differences in the two codes, as well as enabling the user to locate issue specific provisions in the 2007 FBCB by means of a numbered section cross reference.

This *Analysis* provides a cross-reference for the majority of the sections that changed in the 2007 FBCB. In some cases, sections were grouped together due to substantial differences. This grouping enables the context of the differences to be more easily identified.

Chapter 1: Administration				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
105.1	Required permits	105.1	Required permits	Revised to required a permit for erecting, installing, enlarging, altering, repairing, removing, converting or replacing "impact-resistant coverings".
105.3.1.2	Documents required for permit issuance	105.3.1.2	Documents required for permit issuance	Deleted Item 1 which required a registered engineer to prepare electrical documents for any new building or addition which requires an aggregate service capacity of 600 amperes (240 volts) or more on a residential electrical system or 800 amperes (240 volts) or more on a commercial or industrial electrical system and which costs more than \$50,000
106.1	Submittal documents	106.1	Submittal documents	Revised to replace "special inspection and structural observation programs" with "statement of special inspections."
109.3	Required inspections	109.3	Required inspections	The listed inspection for Building Framing Inspection (Item 2) has been revised to include verifying that rough opening dimensions are within tolerances. New Item 9 added requiring inspections and criteria for impact-resistant coverings.
-	-	110.4	Certificate of completion	New section defining a certificate of completion that is intended to allow connection to utility systems prior to issuance of a certificate of occupancy.
Chapter 2: Definitions				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
	-		ACC Masonry	Added AAC Masonry term due to additions of references in several code sections.
	Adjusted Shear Resistance		-	Removed term definition for steel construction. ANSI's new methodology for determining deflection in shear walls is not addressed in the IBC and meaning is shown elsewhere in the code as reference to the ANSI std.
	Adjusted Shear Resistance		-	Removed term definition for wood construction. ANSI's new methodology for determining deflection in shear walls is not addressed in the IBC and meaning is shown elsewhere in the code as reference to the ANSI std.
	Admixture		-	Definition deleted. Concrete terms are now defined in ACI 318.

	Aggregate		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Aggregate, lightweight		-	Definition deleted. Concrete terms are now defined in ACI 318.
	-		Aisle accessway	Added the definition for clarification between what is considered an aisle and an aisle accessway, as they relate to mercantile occupancies.
	-		Term: Approved	Revised wording to include acceptable by AHJ, not just per the Bldg Official.
	-		Autoclaved aerated concrete (AAC)	New text added in 2102 utilizing AAC term.
	-		Baled cotton	Added term due to clarifications in hazardous materials sections of the code (occupancy and quantity)
	-		Baled cotton, densely packed	Added term due to clarifications in hazardous materials sections of the code (occupancy and quantity)
	Base Shear		-	Removed term definition due to ANSI's new methodology for determining deflection in shear walls is not addressed in the IBC and meaning is shown elsewhere in the code as reference to the ANSI std.
	Basement		Basement	Removed definition text and replaced with reference: See Section 502.1.
	Boundary Element		-	Definition deleted - no longer utilized.
	Boundary Members		-	Definition deleted - no longer utilized.
	Brittle		-	Definition deleted - no longer utilized.
	Brittle Steel Element		-	Definition deleted - no longer utilized.
	Building Enclosed		-	Definition deleted - no longer utilized.
	Cantilevered Column System		-	Definition deleted - no longer utilized.
	Cementitious Material		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Collector Elements		-	Removed term - no longer utilized.
	Component		-	Definition deleted - no longer utilized.
	Components and Cladding		-	Definition deleted - no longer utilized.
	Concrete, Specified Compressive Strength Of.		-	Definition deleted - no longer utilized.
	Confined Region		-	Definition deleted - no longer utilized.
	-		Congregate Living Facilities	Added term to clarify Group R with added distinction between R2 and R3 based on 16 person threshold.
	Contraction Joint		-	Definition deleted. Concrete terms are now defined in ACI 318.

	-		Decorative Materials	Added definition to clarify the term used throughout IFC and several chapters of IBC.
	Deformability		-	Term was previously not referred to or used in the code and therefore removed.
	Deformation		-	Term was previously not referred to or used in the code and therefore removed.
	Deformed Reinforcement		-	Term was previously not referred to or used in the code and therefore removed.
	-		Design Displacement	Term added and now utilized in ACI and Section 1908.
	-		Design Earthquake Ground Motion	Term added and now utilized in Section 1613.
	-		Designated Seismic System	Definition added.
	-		Detailed Plain Concrete Structural Wall	Definition added.
	Ductile Steel Element		-	Definition deleted - no longer utilized.
	Effective Depth of Section		-	Definition deleted.
	Effective Embedment Depth		-	Definition deleted.
	Element		-	Definition deleted.
	-		Equipment Platform	Definition revised to read equipment platform instead of industrial equipment platform to clarify its use for both industrial and commercial use.
	Equipment Support		-	Definition deleted.
	-		Exit Horizontal	Term is utilized in Ch.10 but was not previously listed.
	-		Fabric Partitions	Added definition to clarify the term used in Ch.16.
	-		Family Day Care Homes	Clarification of definition to define the client numbers and ages allowed.
	-		Fiber Cement Siding	Definition added.
	-		Fire Alarm Box, Manual	Term now defined in 902.1
	-		Fire Lane	Definition added (taken from IFC). Term was not previously defined in Ch.2 but is utilized in IBC.
	Flame Resistance		-	Definition deleted.
	Flexible Buildings and Other Structures		-	Definition deleted.
	Flexible Equipment Connections		-	Definition deleted.
	Flexible Plan Buildings		-	Definition deleted.
	Garden Mausoleum		-	Definition deleted.

	Habitable Space		Habitable Space	Definition revised to clarify the addition of: screen enclosures, sunroom Categories I, II and III as defined in the AAMA/NPEA/NSA 2100,
	Importance Factor, I.		-	Definition deleted. Wind Factor was removed from Table 1604.5.
	-		Masonry, Unreinforced (plain) masonry	Definition added for consistency with ACI for masonry structures.
	Mean Roof Height		-	Definition deleted.
	Nonvisitation Crypt Mausoleum		-	Definition deleted.
	Occupancy Importance Factor		-	Definition deleted.
	-		Ordinary Precast Structural Wall	Definition added for consistency with ACI.
	-		Ordinary Reinforced Concrete Structural Wall	Definition added for consistency with ACI.
	-		Ordinary Structural Plain Concrete Wall	Definition added for consistency with ACI.
	Pedestal		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Plain Concrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Precast Concrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	-		Prefabricated Wood I-Joist	Definition added for consistency with AF&PA National Design Specification for Wood Construction.
	Prestressed Concrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Reinforced Concrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Reshores		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Shear Panel		-	Definition deleted
	Shear Wall		Shear Wall	Definition revised to remove sub-categories definitions and provide a single definition as follows: Shear Wall- A wall designed to resist lateral forces parallel to the plane of the wall.
	Shores		-	Definition deleted. Concrete terms are now defined in ACI 318.

	Shotcrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Side-Face Blowout Strength		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Space Frame		-	Definition deleted.
	Spiral Reinforcement		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Story		Story	Removed the term "basement" from within definition.
	Story Above Grade Plane		Story Above Grade Plane	Revision to this definition as well as the definition for "basement" eliminates redundant conditions from the determination of whether or not a basement is a story above plane. New definition revised to state that < 12 ft above finished ground level at any point.
	Strength		Strength	Added term "Required strength" and section reference: 1602.1 and 2102.1.
	Structural Concrete		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Tendon		-	Definition deleted. Concrete terms are now defined in ACI 318.
	Torsional Force Distribution		-	Definition deleted.
	Unadjusted Shear Resistance		-	Definition deleted.

Chapter 3: Use and Occupancy Classification				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
-	-	508.1	Mixed use and occupancy	General scoping statement for mixed uses and occupancies.
302.1.1	Incidental use areas	508.2	Incidental uses	Text relocated to Section 508. Language revised to clarify that incidental uses areas to be in accordance with this
302.1.1.1		508.2.1	Occupancy classification	
302.1.1.1	Separation	508.2.2	Separation	Language reorganized for clarity. Section 706 is specifically referenced for construction of fire barriers and Section 711 is
		508.2.2.1	Construction of separation	
-	-	508.2.3	Protection	New language clarifying that where an automatic fire-extinguishing system or automatic sprinklers system is provided per Table 508.2, only the incidental use areas have to be equipped with such a system.

Table 302.1.1	Incidental use areas separation requirements	Table 508.2	Incidental use areas separation and/or requirements	Hydrogen cut-off rooms was revised to clarify the requirements only applied to those not classified as Group H. Requirements for boilers was revised to clarify that the 15 psi and 10 horsepower limit applies to the largest piece of equipment in a room with a boiler.
302.2	Accessory use areas	508.3.1	Accessory occupancies	Language reorganized for clarity. Now requires accessory use areas to not exceed the tabular values in Table 503 without height and area increases as specified in Sections 504 and 506. Assembly areas accessory to Group E are not considered separate occupancies except when applying the assembly occupancy requirements of Chapter 11.
302.2.1	Accessory assembly areas	508.3.1.3	Separation	
-	-	508.3.1.1	Occupancy classification	Requires accessory occupancies to be classified in accordance with 302.1. Requires all code requirements to apply to each portion of the building based on the classification of the accessory space.
-	-	508.3.1.2	Allowable height and area	Requires allowable height and area of accessory occupancies to be based on the allowable area and height for the main occupancy. Restricts the height of accessory occupancies to the tabular value in Table 503 without height and area increases.
302.3	Mixed occupancies	508.3	Mixed occupancies	Section and provisions reformatted for coordination with relocation of mixed use provisions.
302.3.1	Nonseparated uses	508.3.2	Nonseparated uses	Requirements reorganized but primarily the same. Revised to require the most restrictive requirements of Chapter 9 and Section 403 as applicable to the entire building instead of just the nonseparated uses.
		508.3.2.1	Occupancy classification	
		508.3.2.2	Allowable height and area	
		508.3.2.3	Separation	
302.3.2	Separated uses	508.3.3	Separated uses	Requirements reorganized but primarily the same.
		508.3.3.1	Occupancy classification	
		508.3.3.2	Allowable area	
		508.3.3.3	Allowable height	
		508.3.3.4	Separation	

Table 302.3.2	Required separation of occupancies	Table 508.3.3	Required separation of occupancies	Table significantly revised. Group H occupancies require separation from each other and all other occupancies. Groups B, F-1, M, and S-1 require no separation from each other but are required to be separated from other occupancies. Groups A, E, and D require no separation from each other but are required to be separated from other occupancies except for fully sprinklered Groups F-2, F-3 and S-2.
302.4	Spaces used for different purposes	-	-	Section deleted.
303.1	Assembly Group A	303.1	Assembly Group A	Section reformatted to place provisions that are exceptions to the requirements as Exceptions 1, 2, and 3. Places of religious worship located in A-3.
304.1	Business Group B	304.1	Business Group B	Revised to include Training and skill development not within a school or academic program in Group B list.
307.1	High-Hazard Group H	307.1	High-Hazard Group H	Revised to provide a direct connection to Section 414 and the Florida Fire Prevention Code. Exceptions in Section 307.9 relocated as exceptions to Section 307.1
307.2	High-Hazard Definitions	307.2	High-Hazard Definitions	Added new definitions for "Baled Cotton" and "Baled Cotton, Densely Packed." Revised definition of "Combustible Fibers" to replace "fibers" with "materials in a fibrous or shredded form" and exclude densely packed baled cotton. Revised definition of "Control Area" by deleting that the area be enclosed and bounded by exterior walls, fire walls, fire barriers, and roofs. Added new definition for "Day Box." Revised definition of Class 2 "Water-Reactive Material"
Table 307.7(1)	Max quantities per control area of hazardous materials posing a physical hazard	Table 307.7(1)	Max quantities per control area of hazardous materials posing a physical hazard	Added "Day Box" for increasing quantities by 100%. Added new note "o" pertaining to densely packed baled cotton. Added new note "p" pertaining to liquid and gaseous fuels.
310.1	Residential Group R	310.1	Residential Group R	Group R-2 revised to permit congregate living facilities with 16 or fewer occupants to comply with R-3. R-2 provisions reformatted. R-3 revised to include congregate living facilities with less than 16 occupants.
310.2	Residential Group R definitions	310.2	Residential Group R definitions	Definitions added for "Congregate Living Facilities" and "Transient."
311.2	Moderate-hazard storage Group S-1	311.2	Moderate-hazard storage Group S-1	Group S-1 list revised to include "Dry boat storage (indoor)."

Chapter 4: Special Detailed Requirements Based on Use and Occupancy				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
402.1	Covered Mall Buildings	402.1	Covered Mall Buildings	Revised term "grade" in the scope to "grade plane" for consistency.
402.4.2	Number of means of egress	402.4.2	Number of means of egress	Revised wording to state, "load of 50 or more" as opposed to "exceeds an occupant load of 50."
402.7.3	Anchor building separation	402.7.3	Anchor building separation	Revised term "grade" in the exception to "grade plane" for consistency.
-	-	402.11	Children's playground structures	New section added to include children's indoor playground structures to clarify fire safety requirements.
402.11	Security grilles and doors	402.12	Security grilles and doors	Revised wording to state, "50 or more persons" as opposed to "50 persons."
402.14	Plastic Signs	402.15	Plastic Signs	Editorial clarification - no change in definition or requirements.
403.3.1	High rise buildings: Type of construction	403.3.1	High rise buildings: Type of construction	Added "for buildings not greater than 420 feet in height" to 1 to comply with new height limitations for fire resistance ratings.
403.3.2	High rise buildings: Shaft enclosures	403.3.2	High rise buildings: Shaft enclosures	Added "for buildings not greater than 420 feet in height" to comply with new height limitations for fire resistance ratings.
403.10.1	Special requirements for standby power systems	403.10.1	Special requirements for standby power systems	Clarification provides specific compliance for fire rated barrier for enclosed room.
403.10.2	Standby power loads	403.10.2	Standby power loads	Revised referenced sections to add 1007.4.
404.3	Atrium: Automatic sprinkler protection	404.3	Atrium: Automatic sprinkler protection	Removed "horizontal assembly or both" from exception 1 description as requirements are already described in section 706.
404.4	Atrium: Smoke control	404.4	Atrium: Smoke control	Added exception for clarification of original intent of atrium definition as well as to provide consistency with BOCA and UBC requirements.
404.5	Enclosure of atriums	404.5	Enclosure of atriums	Removed language referring to computation of atrium volume.
405.4.2	Underground buildings: smoke barrier penetration	405.4.2	Underground buildings: smoke barrier penetration	Section revised to comply with requirements of fire doors to be automatically closing by smoke detection.
405.4.3	Underground buildings: Elevators	405.4.3	Underground buildings: Elevators	Section revised to comply with requirements of fire doors to be automatically closing by smoke detection.

406.1.2	Motor-vehicle-related occupancies: Area increase	406.1.2	Motor-vehicle-related occupancies: area increase	For Group U occupancies, exterior wall requirements no longer refer to Group R-1 or R-2. Update states wall shall not be required to have a fire-resistance rating and the area of opening shall not be limited when the fire separation distance is 5 feet, thus providing an exemption from the separation requirement.
406.1.4	Motor-vehicle-related occupancies: Separation	406.1.4	Motor-vehicle-related occupancies: Separation	Section revised to add, "doors shall be self-closing, self-latching."
-	-	406.2.4	Parking garages: vehicle barriers	Added exception.
406.2.5	Parking garages: ramps	406.2.5	Parking garages: ramps	Revised language to provide information specific to parking structures and to eliminate confusion with Ch. 10 egress requirements.
406.3.6	Open parking garages area and height increases	406.3.6	Open parking garages area and height increases	Revised language removes Type IB type of construction and provides a section option for ventilation requirements.
406.4.1	Enclosed parking garage heights and areas	406.4.1	Enclosed parking garage heights and areas	Added referenced sections to clarify that the enclosed parking garages also comply with applicable increases provided for other structures.
-	-	406.5.2.1	Canopies used to support gaseous hydrogen systems	Added new section to assist with growing need for hydrogen motor fuel-dispensing facilities.
407.3	Group I-2 corridor walls	407.3	Group I-2 corridor walls	Added reference section 710 to clarify existing requirement.
407.6	Group I-2 automatic fire detection	407.6	Group I-2 automatic fire detection	Added specific reference for hospital requirements to correlate with IFC.
408.3.6	Group I-3 exit enclosures	408.3.6	Group I-3 exit enclosures	Removed the term "vertical" for consistency in terminology throughout the code.
408.7.1	Group I-3 Subdivision of resident housing areas, occupancy conditions 3 and 4	408.7.1	Group I-3 Subdivision of resident housing areas, occupancy conditions 3 and 4	Removed the term "exit access" for consistency in terminology throughout the code.
408.7.2	Group I-3 Subdivision of resident housing areas, occupancy condition 5	408.7.2	Group I-3 Subdivision of resident housing areas, occupancy condition 5	Removed the term "exit access" for consistency in terminology throughout the code.
410.2	Definition: Stages and Platforms	410.2	Definition: Stages and Platforms	Measuring requirements for stage removed from definition and are shown in stage construction section.
410.3.5	Stages and Platforms: Proscenium curtain	410.3.5	Stages and Platforms: Proscenium curtain	Revised language to be consistent with code relating to fire-rated wall and openings.

410.3.6	Stages and Platforms: Scenery	410.3.6	Stages and Platforms: Scenery	Reference to "flame resistance" of materials has been revised to "fire propagation performance criteria of NFPA 701" consistent with terminology in NFPA 701.
410.5.1	Separation from stage in dressing and appurtenant rooms	410.5.1	Separation from stage in dressing and appurtenant rooms	Removed "wall and horizontal assemblies" since fire barrier in general is described in Section 702.
410.5.3	Opening Protectives	-	-	Removed unnecessary Section.
410.5.4	Stage Exits	410.5.3	Stage Exits	Section relocated.
410.6	Stages and Platforms: Automatic sprinkler system	410.6	Stages and Platforms: Automatic sprinkler system	Revised language to current terminology and added Exception 3: Sprinklers are not required in portable orchestra enclosures on stage.
Table 412.1.2	Height and Area Limitations for Airport Traffic Control Towers	Table 412.1.2	Height and Area Limitations for Airport Traffic Control Towers	Added footnote a for measurement clarification.
412.2.3	Aircraft related occupancies floor surface	412.2.3	Aircraft related occupancies floor surface	Added exception to this section to provide an exemption from the separation requirement, similar to exemption for motor vehicle repair occupancies.
412.2.4	Aircraft related occupancies: Heating equipment	412.2.4	Aircraft related occupancies: Heating equipment	Added "vented infrared radiant heating equipment" to exception 1.
412.3.2	Aircraft related occupancies: Fire separation	412.3.2	Aircraft related occupancies: Fire separation	Revised language from "walls" to "fire barrier" for code term consistency.
412.5.2	Heliport and helistops sizes	412.5.2	Heliport and helistops sizes	Removed the term touchdown.
412.5.4	Heliport and helistops means of egress	412.5.4	Heliport and helistops means of egress	Removed the terms platform or roof.
414.2.1	Hazardous materials: Construction requirements	414.2.1	Hazardous materials: Construction requirements	Added "or horizontal assemblies constructed in accordance with Section 711, or both" since previous reference to 706 for fire barriers simply refers the reader to 711.
414.2.3	Hazardous materials: Separation	414.2.4	Hazardous materials: Fire-resistance rating requirements	Section relocated and title revised to better reflect subsection requirements and added exception.
414.2.4	Hazardous material in Group M display and storage areas and in Group S storage areas	414.2.5	Hazardous material in Group M display and storage areas and in Group S storage areas	Revisions in language and added paragraphs 2 and 3 to better correlate with information in the IFC, which provides tables and cross-reference requirements for better determination of maximum allowable quantities.
Table 414.2.5	Maximum Allowable Quantity Per Indoor and Outdoor Control Area in Group M and S Occupancies	Table 414.2.5(1)	Maximum Allowable Quantity Per Indoor and Outdoor Control Area in Group M and S Occupancies	Revised Table number to denote Table 1 due to the addition of a Table 2.

-	-	Table 414.2.5(2)	Maximum Allowable Quantity of Flammable and Combustible Liquids in Wholesale and Retail Sales Occupancies per Control Area	Added Table 2 to better correlate with information in the IFC. New table provides more detail in requirements for better determination of maximum allowable quantities.
414.5.4	Hazardous materials: Standby emergency power	414.5.4	Hazardous materials: Standby emergency power	Added "or the ICC Electrical Code" to existing language.
414.6.1	Hazardous materials: Outdoor storage, dispensing and use	414.6.1	Hazardous materials: Weather protection for outdoor storage, dispensing and use	Revised language clarifies the original intent of allowable obstruction.
-	-	414.6.1.1	Hazardous materials: Outdoor storage, dispensing and use walls	Added section to clarify the original intent of allowable obstruction.
-	-	414.6.1.2	Hazardous materials: Outdoor storage, dispensing and use separation distance	Added section to clarify the original intent of allowable obstruction.
-	-	414.6.1.3	Hazardous materials: Outdoor storage, dispensing and use of noncombustible construction	Added section and exception to clarify the original intent of allowable obstruction.
-	-	415.2	Groups H-1, H-2, H-4, and H-5 Definition: Physiological Warning Threshold Level	Added definition to correlate with the Permissible Exposure Limit (PEL) in 20 CFR.
415.3	Location on Property	415.3	Fire Separation Distance	Revised title as well as language to change H2 "or" H-3 to H2 "and" H3.
415.3.1	Group H minimum distance to lot lines	415.3.1	Group H occupancy minimum fire separation distance	Revised title as well as language for consistency with current code.
415.3.2	Group H minimum distance to lot lines	415.3.2	Group H-1 and H-2 or H-3 detached buildings	Revised title as well as language for consistency with current code.
415.6	Smoke and Heat Venting	-	-	Removed section.
415.6.1.2	Group H-2 grinding rooms	415.6.1.2	Group H-2 grinding rooms	Removed "wall and horizontal assemblies" since fire barrier in general is described in Section 702.
-	-	415.6.3.5.2	Common construction in areas of liquefied petroleum gas-distribution facilities	Provides clarity for scoping and technical provisions for fire barriers.

415.8.3	Separation - highly toxic solids and liquids	415.7.3	Separation - highly toxic solids and liquids	Revised language from "walls" to "fire barrier" for code term consistency.
415.9.2.6	Group H-5 ventilation	415.8.2.6	Group H-5 ventilation	Revised language to clarify that the ventilation requirements are for areas within H-5 where materials are used and stored.
415.9.2.7	Group H-5 Transporting hazardous production materials to fabrication areas	415.8.2.7	Group H-5 Transporting hazardous production materials to fabrication areas	Removed the term "exit access" for consistency in terminology throughout the code.
Table 415.9.2.1.1	Quantity Limits for Hazardous Materials in a Single Fabrication Area in Group H-5	Table 415.8.2.1.1	Quantity Limits for Hazardous Materials in a Single Fabrication Area in Group H-5	Added footnote C and revised "combustible fiber" in table to add footnote C.
415.9.3	Group H-5 Corridors	415.8.3	Group H-5 Corridors	Removed the term "exit access" from section and exception for consistency in terminology throughout the code.
415.9.4.2	Group H-5 Service corridors use conditions	415.8.4.2	Group H-5 Service corridors use conditions	Removed the term "exit access" for consistency in terminology throughout the code.
415.9.5.1	Storage of hazardous production materials	415.8.5.1	Storage of hazardous production materials	Removed reference to Table 307 and added new reference to Section 1804.2 of the IFC.
415.9.6.3	Piping installations in exit access corridors and above other occupancies	415.8.6.3	Piping installations in corridors and above other occupancies	Removed the term "exit access" from title for consistency in terminology throughout the code. Revised the language in condition 4 and 5 to utilize "fire barrier" and remove the term "exit access."
415.9.7	Continuous gas detection systems	415.8.7	Continuous gas detection systems	Revised language to utilize the term "physiological warning threshold level" to correlate with the Permissible Exposure Limit (PEL) in 20 CFR.
415.9.7.1.4	Exit access corridors	415.8.7.1.4	Corridors	Removed the term "exit access" from title and section for consistency in terminology throughout the code.
415.9.9	Emergency control station	415.8.9	Emergency control station	Revised section to include specific subsections and added correlated information to the Florida Fire Prevention Code.
415.9.9.3	Group H-5 signals	415.8.9.3	Group H-5 signals	Revised section to include items 7 and 8 for system types and added correlated information to the Florida Fire Prevention Code.
415.9.10.1	Required electrical systems	415.8.10.1	Required electrical systems	Revised to require emergency power for additional systems outlined in items 9-11.
415.9.11.1	Exhaust ducts for HPM	415.8.11.1	Exhaust ducts for HPM	Revised terminology used to include "gases" to clarify intent.

415.9.11.2	Metallic and noncombustible nonmetallic exhaust ducts	415.8.11.2	Metallic and noncombustible nonmetallic exhaust ducts	Revised terminology used to include "gases" to clarify intent.
416.2	Application of flammable finishes in spray rooms	416.2	Application of flammable finishes in spray rooms	Removed "wall and horizontal assemblies" since fire barrier in general is described in Section 702.
419	Group I-1, R-1, R-2, R-3	438	Group I-1, R-1, R-2, R-3	Section moved to newly created section number 438.
419.1	Hospitals - scope	419.1	Hospitals - scope	Added to comply with "all applicable requirements of the code"
419.2.1	Hospitals - codes and standards	419.2.1	Hospitals - codes and standards	Revised scope to state "as described in Section 105 of the code" as well as language revisions for clarity.
419.2.1.2	Guidelines for design and construction	419.2.1.2	Guidelines for design and construction	Revised from chapter references to "Part I - Part 3" per new reference in AIA
419.3.2	Patient rooms	-	-	Section removed.
419.3.3	Critical care units	419.3.2	Critical care units	Reference to Section 7.3 was removed to reference the overall Guidelines.
419.3.3.1	Critical care units toileting facilities	419.3.2.1	Critical care units toileting facilities	Revised language from "built in" to "under cabinet modular" toilets. Removed the information pertaining to toilet provisions within the critical care room and added "shall not be permitted" statement.
419.3.3.2	Critical care units sliding doors	419.3.2.2	Critical care units sliding doors	Removed reference to break away and recessed track features. Revised term "resistant" to "resistive."
419.3.4	Newborn intensive care units	419.3.3	Newborn intensive care units	Reference to Section 7.3E was removed to reference the overall Guidelines.
419.3.4.1	Newborn intensive care unit categories	419.3.3.1	Newborn intensive care unit categories	Added "in the State of Florida" to first sentence. Reference to Section 7.3E was removed to reference the overall newborn intensive care unit guidelines.
419.3.4.2	Labor and delivery rooms	419.3.3.2	Labor and delivery rooms	Reference to Section 7.4.B1 was removed to reference the overall Guidelines.
419.3.8.1	Mobile testing and treatment facilities	419.3.4.1	Mobile testing and treatment facilities	Revised first sentence to add, "In addition to any other state of Florida required permits."
419.3.8.3	Mobile testing and treatment facilities - electrical connections	419.3.4.3	Mobile testing and treatment facilities - electrical connections	Removed reference to Chapter 27.
-	-	419.3.4.8	Mobile testing and treatment facilities	Added new section to include the requirement of a code blue station connected to the hospital response team.
419.3.8.8	Mobile testing and treatment facilities - electrical systems	419.3.4.9	Mobile testing and treatment facilities - electrical systems	Reference to Section 7.32 was removed to reference the overall Guidelines as well as Section 419.3.15. (revised reference)

419.3.8.9	Mobile testing and treatment facilities - mechanical systems	419.3.4.10	Mobile testing and treatment facilities - mechanical systems	Reference to Section 7.31 was removed to reference the overall Guidelines as well as Section 419.3.11. (revised reference)
419.3.5	Outpatient surgery	419.3.5	Outpatient surgery	Deleted information and Section is now "Reserved"
419.3.6	Obstetrical facilities	419.3.6	Obstetrical facilities	Deleted information and Section is now "Reserved"
419.3.7	Administration and public areas	419.3.7	Administration and public areas	Deleted information and Section is now "Reserved"
419.3.8	Mobile testing and treatment facilities	419.3.8	Mobile testing and treatment facilities	Moved information to new section 419.4.3.1 and Section is now "Reserved"
419.3.9	Hospital details and finishes	419.3.9	Hospital details and finishes	Reference to Section 7.28 was removed to reference the overall Guidelines.
-	-	419.3.9.9	Hospital details and finishes	Added new section stating that sliding or folding doors to patient toilets shall not be permitted.
419.3.10	Hospital details and finishes - elevators	419.3.10	Hospital details and finishes - elevators	Reference to Section 7.30.B was removed to reference the overall Guidelines. The "code" was revised to read "The Florida Building Code, Building."
419.3.11.6	Hospital details and finishes - HVAC	419.3.11.6	Hospital details and finishes - HVAC	Section was increased to clarify that metal liner must be used unless it meets the additional four criteria: 1) The duct conforms to UL Class 1 Air Duct, Standard 181 with minimum rated air velocity of 4,000 feet per minute, and is pressure rated for a minimum of 4-inches water gage positive pressure and 1-inch water gage negative pressure. 2) The inner core of the duct is constructed of Chlorinated Polyethylene (CPE) material encircling a steel helix bonded to the CPE. 3) The duct has a fire-retardant metalized vapor barrier that is reinforced with crosshatched fiberglass scrim having a permanence of not greater than 0.05 perms when tested in accordance with ASTM E 96 Procedure A. 4) The duct has passed an impact test equal to the UL 181 standard, conducted by a nationally recognized testing laboratory (NRTL) except it shall use a 25-pound weight dropped from a height of 10 feet. As a result of the test, the inner and outer surfaces of the sample shall not have ruptured, broken, torn, ripped, collapsed or separated in order for the duct to pass the test. In addition, the helix shall rebound to a cross-sectional elliptical area not less than 80 percent of the original test sample diameter.

419.3.15	Electrical requirements	419.3.15	Electrical requirements	Reference to Section 7.32 was removed to reference the overall Guidelines. Added "as complying with applicable standards of Underwriter's Laboratories, Inc. or other similarly established standards" for clarity.
420	Hydrogen cutoff rooms	439	Hydrogen cutoff rooms	Section moved to newly created section number 439.
420.1	Nursing homes scope	420.1	Nursing homes scope	Added to comply with "all applicable requirements of the code"
420.3.2.2	Resident room square footages	420.3.2.2	Nursing homes room square footages	Revised the items that are exclusive of the space included in the minimum for square footages from "vestibules" to "door swings into the room or entrance vestibules, whichever is greater." Planning length for bed is revised from 7'-6" to 8'.
420.3.2.6	Resident rooms toilet rooms	420.3.2.6	Resident rooms toilet rooms	Revised section to add statement that toilet room door cannot impede the swing of any other door into the resident room.
420.3.2.7	Resident wardrobe areas	420.3.2.7	Resident wardrobe areas	Revised language to include that wardrobe locker or closet will be available "at all times" and then statement, "When the wardrobe, locker or closet is designed to meet the requirements for accessibility per Chapter 11 of this code, it shall include additional accessible storage area(s) for full-length garments."
420.3.3.7	Service area sanitizer	420.3.3.7	Service area sanitizer	Revised section to state that a sanitizer is required "if by the functional program as defined by the Guidelines."
420.3.3.8	Medicine preparation room	420.3.3.8	Medicine preparation room	Revised section to add, "If there is no linen storage in the clean utility room," medicine preparation may be part of the clean utility room in which case an additional 20 square feet dedicated for this purpose shall be required.
420.3.3.9	Equipment storage	420.3.3.9	Equipment storage	Minimum square footage of storage area for nursing unit equipment revised from 1 sq.ft. per bed to 2 sq.ft per bed.
420.3.3.11	Linen storage	420.3.3.11	Linen storage	Section revised to state that storage space be large enough to accommodate the storage of linen carts. Also added that if in compliance with the Florida Fire Prevention Code, a closed-cart system may be used and stored in an alcove open to the corridor.

420.3.17.2	Plumbing fixtures and minimum trim	420.3.17.2	Plumbing fixtures and minimum trim	Added Eye wash station(s) to room function and fixture legend. Revised title "Trim Legend" to "Fixture Legend." Revised "drinking fountain" in fixture legend to "electric drinking fountain." Revised K, sanitizer, to state, "if required by the functional program in The Guidelines." Added footnote 2, which includes the ANSI standard for eyewash and shower equipment.
420.3.22.1	Receptacles	420.3.22.1	Receptacles	Revised "receptacle" to "duplex receptacle"
421.1.1	Ambulatory surgical centers scope	421.1.1	Ambulatory surgical centers scope	Added to comply with "all applicable requirements of the code"
421.2.1.2	Ambulatory surgical centers codes and standards	421.2.1.2	Ambulatory surgical centers codes and standards	Revised from chapter references to "Part I - Part 3" Ambulatory Care Facilities per new reference in AIA
421.3.2	Operating rooms	421.3.2	Operating rooms	Reference to Section 9.5.F was removed to reference the overall Guidelines.
421.3.3	Recovery area	421.3.3	Recovery area	Deleted information and Section is now "Reserved"
421.3.4	Ambulatory surgical centers details and finishes	421.3.4	Ambulatory surgical centers details and finishes	Reference to Section 9.5.H was removed to reference the overall Guidelines.
421.3.4.1	Drinking fountains, phone booths and vending machines	-	-	Section removed.
421.3.4.3	Threshold and expansion joint covers	-	-	Section removed.
421.3.4.5	Paper towel and soap dispensers	421.3.4.3	Paper towel and soap dispensers	Moved requirements in section 421.3.5 to 421.3.4.3. Revised language to state "permanently installed" single service paper towel dispensers.
421.3.4.6	Ceiling height	-	-	Section removed.
421.3.4.7	X-ray film illuminator	-	-	Section removed.
421.3.5	Elevator	421.3.5	Elevator	Reference to Section 9.30.B was removed to reference the overall Guidelines.
421.3.5.1	Elevator	421.3.5.1	Elevator	Removed reference to Chapter 69A 47, Florida Administrative Code, "uniform Fire Safety Standards for Elevators."

421.3.6.4	Ambulatory surgical centers - HVAC	421.3.6.4	Ambulatory surgical centers - HVAC	<p>Section was increased to clarify that metal liner must be used unless it meets the additional four criteria:</p> <ol style="list-style-type: none"> 1) The duct conforms to UL Class 1 Air Duct, Standard 181 with minimum rated air velocity of 4,000 feet per minute, and is pressure rated for a minimum of 4-inches water gage positive pressure and 1-inch water gage negative pressure. 2) The inner core of the duct is constructed of Chlorinated Polyethylene (CPE) material encircling a steel helix bonded to the CPE. 3) The duct has a fire-retardant metalized vapor barrier that is reinforced with crosshatched fiberglass scrim having a permanence of not greater than 0.05 perms when tested in accordance with ASTM E 96 Procedure A. 4) The duct has passed an impact test equal to the UL 181 standard, conducted by a nationally recognized testing laboratory (NRTL) except it shall use a 25-pound weight dropped from a height of 10 feet. As a result of the test, the inner and outer surfaces of the sample shall not have ruptured, broken, torn, ripped, collapsed or separated in order for the duct to pass the test. In addition, the helix shall rebound to a cross-sectional elliptical area not less than 80 percent of the original test sample diameter.
421.3.6.5	Ambulatory surgical centers - HVAC filter frame	-	-	Section removed.
421.3.10	Electrical requirements	421.3.10	Electrical requirements	Reference to Section 9.32 was removed to reference the overall Guidelines.
421.3.10.1	Electrical equipment	421.3.10.1	Electrical equipment	Revised to add that materials "and equipment shall be factor listed" and removed the statement regarding field labeling of equipment and materials.
423.5.16	Educational facility definitions	423.5.16	Educational facility definitions	Revised definition of separate building to include the purpose: "of separate fire alarm systems or sprinkler systems" and removed as required "by a 4-hour fire wall."
423.11.1	Fire-retardant treated wood	-	-	Removed section.
423.11.2	Fire-retardant treated wood	-	-	Removed section.
423.11.3	Fire-retardant treated wood - inspection panels	423.11.2	Fire-retardant treated wood - inspection panels	Moved requirements in section 423.11.3 to 423.11.2.
423.11.4	Evidence of compliance	423.11.3	Evidence of compliance	Moved requirements in section 423.11.4 to 423.11.3.
423.11.5	Interior applications	-	-	Removed section.

423.11.6	Exterior applications	-	-	Removed section.
423.11.7	Educational facility construction type - noncombustible	423.8.1.3	Educational facility construction type - noncombustible	Moved requirements in section 423.11.7 to 423.8.1.3 and revised to remove "wood studs"
423.13.6	Hardware in educational facilities	423.13.6	Hardware in educational facilities	Removed second sentence, "Projecting hardware on doors swinging into a means of egress is not considered an obstruction if the door opens flat against the wall." Revised section to include, "Smoke doors in walls used to divide corridors into separate atmospheres shall be provided with push-pull plates and are not required to have positive latching. As an exception to Section 1008.1.8.6, delayed egress locks may be used in media centers, alternative education centers, and exceptional student education centers. Delayed egress locks are prohibited at time-out rooms at all locations."
423.13.7	Safety glazing: panels and storefronts	423.13.7	Safety glazing: panels and storefronts	Added "In addition to the requirements of Section 2406.3, the following is considered a hazardous location and requires safety glazing" and removed specific requirements listed "shall be tempered glass, safety glass, or in fire-rated assembled impact resistant fire rated glass" as requirements are outlined in Section 2406.
423.13.7.1	Glazing requirements reference	423.13.7.1	Glazing requirements reference	Added glazing requirements reference to Section 2406 and removed language stating, "Storefronts shall use tempered or safety glass for all glazing below door head height."
423.13.7.3	Glazing requirements	-	-	Removed section.
423.14.3	Other potential hazards in facilities	423.14.3	Other potential hazards in facilities	Remove "uninsulated hot water" and added "ductwork, fans, light fixtures."
423.15.1	Conceal piping	423.15.1	Gas and fluid piping	Revised section title.
-	-	423.15.1.1	Flammable liquids/gases	Revised section 423.15.1 into three separate sub-sections for clarity. 423.15.1.1 added the exception "piping may be located within corridors provided that they are enclosed in a minimum one (1) hour fire rated enclosure."
-	-	423.15.1.2	Piping systems	Revised section 423.15.1 into three separate sub-sections for clarity.
-	-	423.15.1.3	Main supply valve	Revised section 423.15.1 into three separate sub-sections for clarity.

423.15.2	Return air	423.15.2	Air Plenums	Revised title and added fire rating construction requirements for plenum spaces between corridor ceiling and floor or roof above as well as exception.
423.15.3	Residential range hood for facilities	423.15.3	Residential range hood for facilities	Revised section to add that residential ranges may be used, "for staff use or student education." In addition, Hood fire suppression systems are not required to be installed.
-	-	423.15.5	Chemistry and Science classrooms	Added new section for ventilation requirements in labs. Systems in labs must be designed so that chemicals originating from the space are not recirculated. Also added exception to provide requirements for emergency exhaust.
-	-	423.15.6	Air make-up	Added new section for air make-up requirements for HVAC systems for educational facilities.
423.16.1	Plumbing standards for educational facilities	423.16.1	Plumbing standards for educational facilities	Revised exception to state single unisex toilet room included in ESE classrooms and "Unisex toilets shall not be provided in addition to group toilets in assembly occupancies."
-	-	423.16.1.1	Toilet facilities for educational assembly occupancies	Added new sub-section outlining requirements for assembly occupancies.
-	-	423.16.1.2	Toilet locations for educational facilities	Added new sub-section outlining requirements for locations and path of travel.
-	-	423.16.12	Floor drains in equipment rooms of educational facilities	Added new section stating equipment rooms which are also used as plenum shall not have a floor drain.
423.18.1.1	Assembly occupancy calculations for auditorium	423.18.1.1	Assembly occupancy calculations for auditorium	Revised number of fixed seats requirement from 13 net square feet to 15 net square feet per person.
423.18.1.2	Assembly occupancy calculations for gymnasium/gymnatorium with stage	423.18.1.2	Assembly occupancy calculations for gymnasium/gymnatorium with stage	Revised number of fixed seats and telescoping bench type seats requirement from 13 net square feet to 15 net square feet per person.
423.18.1.3	Assembly occupancy calculations for dining rooms/cafetorium with state/multipurpose room	423.18.1.3	Assembly occupancy calculations for dining rooms/cafetorium with state/multipurpose room	Revised the main floor area requirement from 13 net square feet to 15 net square feet per person.
423.20.3	State educational facility custodial closets and storage	423.20.3	State educational facility custodial closets and storage	Revised language from "conveniently located" to "located" and added that the travel distance to the nearest custodial closet shall not exceed one hundred fifty (150) feet.

423.28	Existing relocatable buildings and factor built schools	-	-	Removed section.
424.2	Definition: Swimming pool main outlet	424.2	Definition: Swimming pool main suction outlet	Revised title from Main outlet to Main "suction" outlet.
424.2.3	Swimming pool mechanical requirements	424.2.3	Swimming pool mechanical requirements	Revised language from "plumbing" system to "process piping" system.
424.2.6.1	Private swimming pool conformance standard	424.2.6.1	Private swimming pool conformance standard	Added ANSI/APSP 7 to list of standards.
424.2.6.3	Private swimming pool water velocity	424.2.6.3	Private swimming pool water velocity	Added information to section, "Main suction outlet velocity must comply with ANSI/APSP 7."
424.2.6.6	Private swimming pool entrapment protection	424.2.6.6	Private swimming pool entrapment protection	Added information to section, "Outlets must be installed in accordance with requirements of ANSI/APSP 7." Removed all subsections of 424.2.6.6.
424.2.8.4	Combination valves	424.2.8.4	Combination valves	Revised section to remove requirement for approval from administrative authority to state, "be installed per manufacturer's installation instructions."
424.2.19	Final inspection	424.2.19	Final inspection	Revised language to clarify that "electrical and barrier code" inspections will be completed after pool is completely filled with water. Added exception that vinyl liner and fiberglass pools are required to be filled with water upon installation.
424.2.20	Filters	424.2.20	Filters	Removed "the entire design of matched" language for clarity.
428.4	Residential manufactured buildings design plan and systems approval	428.4	Residential manufactured buildings design plan and systems approval	Revised language within the requirements of third party plan review: to remove the term "permanent foundation" to state "foundation" and removed "and is not designed to be moved once so erected or installed." Added "in accordance with this code"
430.6.2	Mausoleum and columbarium mechanical system crypt requirements	430.6.2	Mausoleum and columbarium mechanical system crypt requirements	Added information to exception 2: "except that for Family Mausoleum Units where all crypts are bordering an exterior wall, pressure relief ventilation shall be provided from the crypt to the outside of the mausoleum through the exterior wall or roof."
430.7.2	Crypt relief vent	430.7.2	Crypt relief vent	Revised section to remove requirement for two pressure relief vents and clarified to include requirements for when crypt borders and exterior wall and crypts not bordering an exterior wall.

434.3	Physical Plant standards	434.3	Assisted living facilities codes and standards	Revised title of section to "Codes and standards for the design and construction of Assisted Living Facilities." Relocated information in subsections to 434.4 and revised section scope to include referenced code, statutes, and guidelines.
434.3	Physical plant	434.4	Additional physical plant requirements for assisted living facilities	Removed sections 434.3.1.1 and 434.3.1.2. Section revision added "In addition to the codes and standards referenced in section 434.3 of the code, the following minimum essential facilities shall apply to all new assisted living facilities."
434.3.1.3	Indoor radon testing	434.4.1	Indoor radon testing	Relocated section.
434.4	Extended congregate care	434.5	Extended congregate care	Added new section number for relocated requirements.
Chapter 5: General Building Heights and Areas				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
502.1	Definitions	502.1	Definitions	Basement - revised definition by replacing "grade" with "grade plane." Deleted Item 3 criteria for a basement to be considered a story when the finished floor surface of the floor above the basement is more than 12 feet above the finished ground level at any point. Revised "Industrial Equipment Platform" to read "Equipment Platform." Mezzanine - revised definition by deleting requirement for the mezzanine to not have an aggregate floor area of not more than one-third of the area of the room or space in which located.
-	-	503.1.1	Special industrial occupancies	Unlimited area permitted for certain special industrial occupancies.
503.1.1	Basements	503.1.4	Basements	Section relocated.
503.1.2	Group A and E basements	503.1.5	Group A and E basements	Section relocated.
503.1.3	Buildings on same lot	503.1.2	Buildings on same lot	Section relocated.
503.1.4	Type I construction	503.1.3	Type I construction	Section relocated.

Table 503	Allowable Height and Building Areas	Table 503	Allowable Height and Building Areas	<p>Group H-5 permitted one additional story for Type I construction (4 stories max for Type IA and 3 stories max for Type IB).</p> <p>New footnote identifies general exceptions to Table 503 throughout this chapter.</p> <p>New note d refers to Section 415.5 for limitations on Groups H-2 and H-3.</p>
504.2	Automatic sprinkler system increase	504.2	Automatic sprinkler system increase	Exceptions 1 and 2 revised to clarify that the reference is to "fire areas" with an occupancy in the groups specified
505.1	Mezzanines, general	505.1	Mezzanines, general	First sentence revised to specifically state mezzanines in compliance with Section 505 instead of "this section".
505.2	Area limitation	505.2	Area limitation	Reference to area revised to read "floor area". Mezzanine area permitted to not exceed one half of the area of the room for Type I or II construction where building is equipped with sprinklers system and an emergency voice/alarm communication system.
505.3	Egress	505.3	Egress	Reference to accessible means of egress relocated as an exception to Section 505.3
505.4	Openness	505.4	Openness	Deleted existing Exception 5 applicable only to Group F and added new Exception 5 applicable to all groups except H and I permitting the mezzanine to not be open to the room it is located provided requirements specified are met.
505.5	Industrial equipment platforms	505.5	Equipment platforms	"Industrial equipment platforms" revised to read "Equipment platforms."
505.5.1	Area limitation	505.5.1	Area limitation	"Industrial equipment platforms" revised to read "Equipment platforms."
505.5.2	Fire suppression	505.5.2	Fire suppression	"Industrial equipment platforms" revised to read "Equipment platforms."
506.1	Area modifications, general	506.1	Area modifications, general	Area increase calculations for frontage and sprinklers have been simplified by eliminating the need to multiply and divide by 100.
506.1.1	Basements	506.1.1	Basements	Language revised to clarify that to qualify for this section, the basement must not be counted as a story above grade plane and that the area of such basement does not exceed the area permitted for a building with no more than one story above grade plane.

506.2	Frontage increase	506.2	Frontage increase	Area increase calculations for frontage have been simplified by eliminating the need to multiply by 100.
506.2.1	Width limits	506.2.1	Width limits	Language regarding the calculation of W has been modified to clarify that the W/30 limitation is applied for each segment of frontage, rather than after the weighted average is calculated. Provisions relating to the value of W/30 up to 2.0 has also been revised for clarity.
506.3	Automatic sprinkler system increase	506.3	Automatic sprinkler system increase	Area increase calculations for sprinklers have been simplified by eliminating the need to multiply by 100. Exceptions have been modified to clarify that the sprinkler system increase does not apply to Group H-1, H-2, or H-3. Also, with Groups H-2 and H-3, increases are permitted in mixed use buildings providing the allowable area is to be calculated in accordance with Section 508.3.3.2 (sum of areas ratio for separated uses) with the sprinkler increase only applicable to the portions of the building not classified as Groups H-2 or H-3.
506.4	Area determination	506.4	Area determination	"Story" revised to read "story above grade plane." "Floor" revised to read "story."
-	-	506.4.1	Mixed occupancies	New provision addresses the application of Section 506.4 (maximum total building area) when mixed occupancies are separated in accordance with 508.3.3. Limits the maximum total building area such that the sum of the ratios for each such area on all floors as calculated according to Section 508.3.3.2 does not exceed 2 for two-story buildings and 3 for buildings three stories and higher.
-	-	507.1	Unlimited area buildings, general	New general scoping statement added regarding application of the unlimited area provisions of Section 507.
507.2	Sprinklered, one story	507.3	Sprinklered, one story	Exceptions 1 modified by requiring compliance with Section 903.3.1.1 and NFPA 230 for Type I and II rack storage facilities that do not have access by the public. New Exception 3 permits unlimited area Groups A-1 and A-2 occupancies of any construction other than Type V meeting the specified criteria.

507.4	Reduced open space	507.5	Reduced open space	Permits the reduced open space to now apply to buildings in accordance with Section 507.6 (Group A-3) and Section 507.10 (One-story Group A).
507.6	High-hazard use groups	507.7	Group H occupancies	Requirements for limited floor areas of Groups H-2, H-3, and H-4 occupancies in unlimited area buildings containing Groups F and S has been clarified to better establish the requirements for compliance.
-	-	507.11	Covered mall buildings and anchor stores	New provisions providing a scoping and cross-reference to unlimited area covered mall buildings not exceeding 3 stories in height complying with Section 402.6.
508.2	Group S-2 enclosed parking garage with Group A, B, M or R above	509.2	Group S-2 enclosed or open parking garage with Group A, B, M, R or S above	<p>Section has been modified to now include open parking garages as well as enclosed and permits Group S above as well as other occupancies stated.</p> <p>Condition 3 has been modified to allow multiple Group A uses above the horizontal assembly providing separation from the parking garage and permits Group S above.</p> <p>Condition 4 has been modified to recognize the applicability of open parking garages to this section. Exception 1 is modified to allow multiple Group A uses below the horizontal assembly providing separation from the parking garage.</p> <p>Condition 5 has been modified to clarify that the building height is limited to the building occupancy resulting in the smaller allowable height as measured from grade.</p>
508.7.1	Fire suppression (open parking garage beneath Groups A, I, B, M and R)	509.7.1	Fire suppression (open parking garage beneath Groups A, I, B, M and R)	Section revised for clarity regarding specific references for the separation assemblies (Fire barriers in accordance with Section 706, Horizontal assemblies in accordance with Section 711, Self-closing doors in accordance with Section 715.
-	-	509.8	Group B or M with Group S-2 opening parking garage above	New section providing prescriptive alternatives to the general provisions for offices and/or retail stores on the first floor of open parking structures.

Chapter 6: Types of Construction				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
602.2	Types I and II	602.2	Types I and II	Revised section to add, "except as permitted in Section 603 and elsewhere in this code" to add cross reference information needed to eliminate misinterpretation of this section.
602.4	Type IV - glue laminated timber and sawn wood	602.4	Type IV - glue laminated timber and sawn wood	Added statement and reference to Table 602.4 to clarify required dimensions for both glue laminated and sawn wood.
603.1	Allowable materials for Type I and II construction - Item 1	603.1	Allowable materials for Type I and II construction - Item 1	Revised section to remove reference to Table 601 and relocated text from Item 3 of Note C in Table 601 as an exception to Item 1.3 in this section. Exception now states: 'In buildings of Type I construction exceeding two stories in height, fire-retardant-treated wood is not permitted in roof construction when the vertical distance from the upper floor to the roof is less than 20 feet.'
603.1	Allowable materials for Type I and II construction - Item 9	603.1	Allowable materials for Type I and II construction - Item 9	Requirement was revised to add the term "stages" to the requirement for platforms to be constructed in accordance with Section 410. Section also provides new specific referencing by revising "410" to "410.3 and 410.4."
603.1	Allowable materials for Type I and II construction - Item 10	603.1	Allowable materials for Type I and II construction - Item 10	Revised language for clarity to remove "similar appendages" and add "similar projections" to the requirement and for consistency with similar terminology changes throughout the code.
603.1	Allowable materials for Type I and II construction - Item 18	603.1	Allowable materials for Type I and II construction - Item 18	Added language to requirement, "determined on the basis of fire-resistance tests in accordance with Section 703.2" regarding sprayed fire-resistant materials.
Table 601	Structural frame fire resistance rating requirements	Table 601	Structural frame fire resistance rating requirements	Revised language in table for structural frame to remove the elements, "including columns, girders, trusses", which is a redundant and incomplete list of what is listed in footnote a.
Table 602	Fire resistance rating requirements for exterior walls	Table 602	Fire resistance rating requirements for exterior walls	Revised table to incorporate footnote changes as noted below.
Table 602	Note b	Table 602	-	Deleted existing footnote b that permitted no fire-resistance rating for exterior walls of Group R-3 and Group U accessory to Group R-3, when fire separation distance is 3 feet or more.

Table 602	-	Table 602	Note b	Added new footnote referencing Section 406.1.2 for special requirements for Group U.
Table 602	-	Table 602	Note d	Added new footnote to coordinate exterior wall rating requirements for open parking garages with existing specific requirements in Section 406.
-	-	Table 602	Fire resistance rating requirements for exterior walls	Added footnote e to clarify that the fire resistance rating of each wall in each story of a building must be determined separately.
-	-	Table 602.4	Wood member size	Added Table to clarify and provide an easier determination of required dimensions for both glue laminated and sawn wood.
Chapter 7: Fire-Resistance-Rated Construction				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
702.1	Definition: fire/smoke damper and smoke damper	702.1	Definition: fire/smoke damper and smoke damper	Revised section definition(s) for combination fire/smoke damper and smoke damper to replace "remote command station" to "fire command center" - to correspond with terminology utilized throughout the code.
702.1	Definition: fire barrier	702.1	Definition: fire barrier	Revised section definition for fire barrier to replace "vertical or horizontal" with "wall" for description of assembly. Also revised "openings are protected" to "continuity is maintained."
702.1	Definitions: fire damper	702.1	Definitions: fire damper	Definition revised to clarify the distinction between smoke dampers, fire dampers, ceiling/radiation dampers, and combination fire/smoke damper. Revisions are primarily editorial in nature. The last sentence was modified to clarify that a dynamic fire damper is tested and rated under elevated temperature airflow for consistency with UL 555.
702.1	Definitions	702.1	Definition: fire separation distance	Revised organization of section to outline how distance is measured by providing specific item numbers 1-3.
702.1	Definitions	702.1	Definition: Floor Fire Door Assembly	Revised referenced section from "712.4.6" to "711.8."
-	-	702.1	Definition: Horizontal Assembly	Added definition to provide a distinction with fire barrier as those terms are used throughout the code.
-	-	702.1	Definition: Mineral fiber and mineral wool	Added definition(s) to provide a distinction between the two types of insulation and to assist to clarify requirements for each.
704.1	Exterior walls scope	704.1	Exterior walls scope	Scope of section revised for clarity.

704.2	Projections	704.2	Projections	Revised language to remove "architectural appendages" and replace with "projections."
704.2.3	Combustible projections	704.2.3	Combustible projections	Revised section to add "fire-retardant treaded wood" as a permitted material to provide consistency between what is allowed for a balcony versus an eave of the building.
Table 704.8	Maximum area of exterior wall openings	Table 704.8	Maximum area of exterior wall openings	A number of the footnotes were revised for clarity and consistency.
				Added footnote b to reference 704.7 unexposed surface temperature. (and re-labeled subsequent footnotes)
				Note g was revised to clarify that this note only applies if a fire-resistance rating is not required by Tables 601 or 602.
				Added footnote h for Group U occupancies and reference to 406.1.2.
704.8.2	First story	704.8.2	First story	Revised section to clarify first story "above grade" for consistency of intent and use of term "first story."
704.9	Vertical separation of openings	704.9	Vertical separation of openings	Revised this section(s) to specify required opening protection. Revision is one of several made in Ch.7 to eliminate conflicts and redundancy by providing information directly in section as opposed to relying on other references to sections. This change removes reference to 715.4.8 and adds "with a fire protection rating of at least 3/4 hour."
704.10	Vertical exposure	704.10	Vertical exposure	
704.11	Parapets	704.11	Parapets	Revised the following exceptions as follows:
				Exception number 3 to add deck "or slab."
				Exception number 4 clarifies the required measurement by adding "measured from the interior side of the wall" to items 4.1 and 4.2.
704.12	Opening protection	704.12	Opening protection	Exception number 5 - removed reference to section 101.2.
				Revised section to clarify that the requirements are for windows in "exterior walls" and to also revise section references.
				Revised exception to add "and shall have an automatic water supply and fire department connection" to correct the conflict with NFPA

705.1	Fire walls scope	705.1	Fire walls scope	Revised language for "groups" to "occupancies" and removed reference to section 503.2 for party walls due to a circular reference. Specific requirements for party walls are now contained in the new 705.1.1 thus removing the need for the reference.
705.1.1	Party walls	705.1.1	Party walls	
705.5.2	Horizontal projecting elements	705.5.2	Horizontal projecting elements	Revised language from "architectural projections" to "similar projections."
705.6.1	Stepped buildings	705.6.1	Stepped buildings	Language in section revised from "having a 3/4-hour fire projection rating" to "having a fire protection rating of not less than 3/4 hour" for clarity.
705.9	Penetrations	705.9	Penetrations	Editorial change from "penetration through fire walls" to "penetration of fire walls."
706.1	Scope for fire barriers	706.1	Scope for fire barriers	Revised general section to remove the list of applications for a fire barrier because it is incomplete and could be misleading..
706.2	Materials	706.2	Materials	Revised section to remove "walls and floor assemblies" to "fire barriers" to provide consistency with other sections regarding the distinction of fire barriers and horizontal assemblies.
-	-	706.2.1	Fire-resistance rated glazing	New section recognizing the use of fire-resistance rated glazing and requires specific labeling requirements for its usage.
706.3	Fire -resistance rating	706.3	Fire -resistance rating	Revised section to remove "walls and floor assemblies" to "fire barriers."
-	-	706.3.5	Atriums	New section for cross-referencing.
-	-	706.3.6	Incidental use areas	New section for cross-referencing.
-	-	706.3.7	Control areas	Added this section since several references to fire barriers are defined and have applicability through the term control areas.
706.3.7	Single-occupancy fire areas	706.3.9	Single-occupancy fire areas	Revised section to apply to fire barriers, "horizontal assemblies, or both" and revised table reference to "706.3.9."
706.4	Continuity of fire barrier walls	706.5	Continuity	Revised section to remove the term "walls" throughout section to eliminate redundancy.
706.5	Horizontal fire barriers	-	-	Section deleted.

706.6	Exterior walls	706.6	Exterior walls	Revised section to add fire resistance rated enclosure or "enclosure" to inclusion of scope. The exception was revised to coordinate the applicability of other related section of the code.
706.7	Openings	706.6	Openings	Cross-reference for "exit passageways" added. Maximum size of openings permitted in fire barriers has been increased from 120 square feet to 156 square feet. New language clarifies that the 25% length limitation for fire windows permitted in atrium separation walls is not limited to the 25% length limitation
706.8	Penetrations	706.8	Penetrations	Editorial change from "penetration through fire walls" to "penetration of fire walls."
706.8.1	Prohibited penetrations	706.8.1	Prohibited penetrations	Revised referenced section from "Section 1019.1.2" to "Section 1020.1.2 or 1021.5 respectively."
706.10	Ducts and air transfer openings	706.10	Ducts and air transfer openings	Revised section reference from "712" to "716."
707.1	Shaft enclosures - general	707.1	Shaft enclosures - general	Revised section to add relocated information from 707.4 to specify shaft enclosure shall be constructed as fire barriers in this section. Location is more appropriate since fire barriers relates to more than just fire resistance.
707.2	Shaft enclosure required	707.2	Shaft enclosure required	Item 5 revised to apply to all occupancies other than Group H complying with the provisions for atriums. New Item 11 clarifies that a shaft enclosure isn't required for floor openings created by unenclosed stairs or ramps in accordance with Exceptions 8 or 9 in Section 1020.1. New Item 12 provides an exception to shaft enclosure requirements for floor openings protected by floor fire doors in
707.4	Fire resistance	707.4	Fire resistance	Per change of 707.1, removed shaft enclosure information to new location.
707.5	Continuity	707.5	Continuity	Revised section to eliminate specific requirements and add references for barriers (Section 706), horizontal assemblies (Section 711), continuity (Section 70.5), and fire barriers (Section 711.4).
707.6	Exterior walls	707.6	Exterior walls	Revised section to add to exception requirements for exterior egress balconies, exit enclosures, and exterior exit ramps and stairways.

707.7	Openings	707.7	Openings	Revised language from "such openings" to "doors" for clarity. Also added reference of Section 715.3.7.3 for door requirements.
707.8.1	Prohibited penetrations for shaft enclosures	707.8.1	Prohibited penetrations for shaft enclosures	Prohibitions of and exception for duct penetrations has been removed as these requirements are covered elsewhere.
707.10	Ducts and air transfer openings	707.10	Ducts and air transfer openings	Revised section reference from "712" to "716."
707.11	Enclosure at the bottom	707.11	Enclosure at the bottom	Revised item number 2 to remove term "construction" and adding "fire barrier."
707.12	Enclosure at the top	707.12	Enclosure at the top	Revised section to add the term "sheathing" to clarify where in regards to the roof the intent specifies.
707.13.1	Refuse and laundry chute enclosures	707.13.1	Refuse and laundry chute enclosures	Removed the term "exit access" for consistency. The term corridor is being utilized throughout the code as opposed to exit access corridor. Also, revised item number 2 to remove term "construction" and adding "fire barrier."
707.13.4	Termination room	707.13.4	Termination room	
707.14	Elevator and dumbwaiter shafts	707.14	Elevator, dumbwaiter and other hoistways	Revised title and section to add, "and other hoistways" and to revise reference from "Section 704.4" to "707."
707.14.1	Elevator lobby	707.14.1	Elevator lobby	<p>Section revised to require elevator lobbies where the elevator shaft enclosure connects at least 4 stories as opposed to when the elevator opens onto fire-resistance rated corridors.</p> <p>Exception 1 has been modified to apply to all occupancies, not just office buildings.</p> <p>Exception 4 revised to apply to buildings having occupied floors located more than 75 feet above the lowest level of fire department vehicle access.</p> <p>New Exception 5 permits pressurization in accordance with Section 707.14.2 in lieu of an elevator lobby.</p>

-	-	707.14.2	Enclosed elevator lobby pressurization alternative	Revised section to add information regarding pressurization requirements. Previously, reference to section 909.20.5 was utilized; however, gaps in the requirements existed. New sections add requirements for activating the pressurization and standby power etc., previously missing from referenced requirements.
708.1	Fire partitions scope	708.1	Fire partitions scope	Added elevator lobby separation and residential aircraft hangars to scope of exception. New exception provided for mini-warehouse/self-storage buildings that are provided with a sprinkler system employing quick response heads.
708.3	Fire resistance rating	708.3	Fire resistance rating	Revised language to add "fire partitions" and remove the term "walls" to provide an inclusive requirement for fire partitions.
708.4	Continuity	708.4	Continuity	Revised section to add the terms "foundation, ceiling and sheathing" to clarify where in regards to the floor and roof the extension is required.
708.5	Exterior walls	708.5	Exterior walls	Revised the term "enclosure" to "separation" to describe fire-resistance-rated walls. Also added new exception to address exterior egress balconies, exit enclosures and exit ramps and stairways.
708.7	Penetrations	708.7	Penetrations	Editorial change from "penetration of fire walls" to "penetration <i>through</i> fire walls."
708.9	Ducts and air transfer openings	708.9	Ducts and air transfer openings	Revised section to add "in a fire partition" and revised reference from "712" to "716."
709.4	Continuity	709.4	Continuity	Revised section to add "top of the foundation or floor/ceiling assembly below" to clarify where in regards to the floor and roof the extension is required.
709.5	Openings	709.5	Openings	Revised section to add "by smoke detection in accordance with Section 715.3.7.3" to coordinate list of automatic-closing fire door assemblies to close upon actuation of a smoke detector per referenced section.
709.6	Penetrations	709.6	Penetrations	Editorial change from "penetration through fire walls" to "penetration of fire walls."
709.8	Ducts and air transfer openings	709.8	Ducts and air transfer openings	Revised section to add "a smoke barrier" and revised reference from "712" to "716."

710.4	Continuity	710.4	Continuity	Revised section to add "top of the foundation or floor below."
710.5.2	Smoke and draft control doors	710.5.2	Smoke and draft control doors	Editorial change to add "during the test" to clarify that the bottom seal on the door is required for the testing only.
710.5.3	Self-closing or automatic-closing doors	710.5.3	Self-closing or automatic-closing doors	Revised section to add "by smoke detection" to coordinate list of automatic-closing fire door assemblies to close upon actuation of a smoke detector.
710.7	Ducts and air transfer openings	710.7	Ducts and air transfer openings	Revised section requirement for the space around the duct penetrating a smoke partition to be filled with an approved material to limit the free passage of smoke. This assists to eliminate the misconception that both requirements for a firestop material and a damper are needed.
711.4	Continuity in horizontal assemblies	711.4	Continuity in horizontal assemblies	Revised for additional reference to Section 1020.1 for exit enclosures.
711.5	Penetrations	711.5	Penetrations	Editorial change from "penetration through fire walls" to "penetration of fire walls."
711.7	Ducts and air transfer openings	711.7	Ducts and air transfer openings	Revised section to add "in horizontal assemblies" and revised reference from "712" to "716."
712.4.6	Floor fire doors	711.8	Floor fire door assemblies	Revised title to add term "assemblies." Also added requirement to affix label for test standard and fire-resistance rating.
712.1	Scope for penetrations	712.1	Scope for penetrations	Revised scope to include "floor assemblies and fire-resistance rated wall assemblies for inclusive list.
712.3	Fire-resistance rated walls	712.3	Fire-resistance rated walls	Revised section reference from "712.3.1" to "712.3.4"
712.3.1	Through penetrations	712.3.1	Through penetrations	Revised exception to add "tubes" to list of penetrating items. Editorial change to revise "shall be" to "is." Also revised item number 1 of exception to clarify the 144 sq. inches as an "area" and "through the wall."
712.3.2	Membrane penetrations	712.3.2	Membrane penetrations	Section exception revised to include editorial changes: Item number 1 clarifies "membrane penetrations" and revises term "total" with "aggregate" and "wall" with "wall or partition." Item number 2 removes "are permitted" to remove wordiness and revises language from "wall" with "wall or partition."
712.3.3	Ducts and air transfer openings	712.3.3	Ducts and air transfer openings	Revised section to add compliance section references 712.2 through 712.3.2 and 716 for clarification of requirements both with and without dampers.

712.4	Horizontal assemblies	712.4	Floor assemblies	Revised title to "floor assemblies" and removed information and references regarding penetrations for shaft enclosures.
-	-	712.4.1	Fire-resistance rated assemblies	Added new section to address penetrations in fire-resistance floor assemblies removed from another section for clarity.
712.4.1	Through penetrations	712.4.1.1	Through penetrations	relocated information from subsequent sections to support new section 712.4.1 added for floor assemblies.
712.4.1.1	Fire-resistance rated assemblies	712.4.1.1.1	Fire-resistance rated assemblies	
712.4.1.2	Through-penetration firestop system	712.4.1.1.2	Through-penetration firestop system	
712.4.2	Membrane penetrations	712.4.1.2	Membrane penetrations	
712.4.4	Ducts and air transfer openings	712.4.1.3	Ducts and air transfer openings	Revised section to removed previous list of references and to add new reference to comply with "716."
712.4.5	Dissimilar materials	712.4.1.4	Dissimilar materials	Relocated section.
712.4.6	Floor fire doors	712.4.1.5	Floor fire doors	
712.4.3	Nonfire-resistance-rated assemblies	712.4.2	Nonfire-resistance-rated assemblies	Relocated section and revised reference from "712.4.3.1 through 712.4.3.2" to "712.4.2.1 through 712.4.2.3."
712.4.3.1	Noncombustible penetrating items	712.4.2.1	Noncombustible penetrating items	Relocated section.
712.4.3.2	Penetrating items	712.4.2.2	Penetrating items	
-	-	712.5	Penetrations in smoke barriers	Added new section to eliminate unenforceable language such as "limit" and revise with quantitative requirements for penetrations in smoke barriers.
713.4	Exterior curtain wall/floor intersection	713.4	Exterior curtain wall/floor intersection	Revised section to add new ASTM E 2307 requirement that provides a test method for perimeter of fire barrier systems.
-	-	713.5	Spandrel wall	Added new section with requirements and references for spandrel walls as well as reference to 713.4 addressing spandrel wall and floor intersection.
-	-	713.6	Fire-resistant joints systems in smoke barriers	Added new section to eliminate unenforceable language such as "limit" and revise with quantitative requirements for joint systems in smoke barriers.
714.1	Requirements for fire-resistance rating of structural members	714.1	Requirements for fire-resistance rating of structural members	Revised exception to add "and smoke barriers" and also revised reference to add Section 709.4 concerning continuity.
-	-	714.2.1.1	Membrane protection	Added section to clarify that king studs and boundary elements must also comply with fire-resistance ratings.

714.2.2	Column protection above ceilings	714.2.2	Column protection above ceilings	Revised section to add "foundation or floor/ceiling assembly below" to clarify where in regards to the floor and roof the intent requires.
715.2	Fire-resistance-rated glazing	715.2	Fire-resistance-rated glazing	References to NFPA 252 and 257 have been deleted.
-	-	715.3	Alternative methods for determining fire protection ratings	New section added for alternative methods for determining fire protection ratings. Methods recognized include designs documented in approved sources, calculations, engineering analysis, and the provisions of Section 104.11.
715.3	Fire door and shutter assemblies	715.4	Fire door and shutter assemblies	Relocated/renumbered subsequent sections for added information shown above (715.3).
Table 715.3	Fire door and fire shutter fire protection ratings	Table 715.4	Fire door and fire shutter fire protection ratings	Relocated Table from 715.3 to 715.4. Establishes a 1/3 hour opening assembly rating for other fire partitions with a rating of 0.5 hours. Smoke barriers added to the scope of the table requiring a 1/3 hour opening assembly rating.
715.3.3		715.4.3	Door assemblies in corridors and smoke barriers	Revised section to divide section 715.4.3 into user-friendly sections. New sub-sections for smoke and draft control and glazing in door assemblies. Fire door assemblies required to also meet the requirements for a smoke- and draft-control door assembly tested in accordance with UI 1784.
-	-	715.4.3.1	Smoke and draft control	
-	-	715.4.3.2	Glazing in door assemblies	
715.3.4	Doors in exit enclosures and exit passageways	715.4.4	Doors in exit enclosures and exit passageways	Relocated section and revised exception for editorial changes in language from "end point" to "rise" regarding max. temperature. Also revised "not required" to "not limited."
715.3.4.1	Glazing in doors	715.4.4.1	Glazing in doors	Relocated section and revised section for editorial changes in language from "end point" to "rise" regarding max. temperature.
715.3.5.1	Fire door labeling requirements	715.4.5.1	Fire door labeling requirements	Revised section to provide inclusion of exit passageways and updates section reference from "715.3.4" to "715.4.4."
715.3.6.2	Exit and elevator Protectives	715.4.6.2	Exit and elevator protectives	Revised section to replace "fire doors" with "fire door assemblies" for code consistency. Revised language from "stairway shaft" with "exit" for consistency with inclusive exit enclosure as fire barrier. Added term "ramp" for inclusion of those required to provide clear vision of passageway.

715.3.6.3	Labeling	715.4.6.3	Labeling	Revised to add "at a minimum" for this requirement and to add reference 715.4.9.1 for information required on label.
-	-	715.4.6.3.1	Identification	Added section to require specific four-part identifier on the glazing such that a code official can readily identify that the glazing material is appropriate for the application.
715.3.7	Door closing	715.4.7	Door closing	Revised section to add exception number 2 providing to clarify elevator exemption from requirements of this section.
715.3.7.3	Smoke activated doors	715.4.7.3	Smoke activated doors	"Exit access corridors" changed to "corridors." The list of automatic-closing fire door assemblies as been coordinated with the corresponding sections in the code that require such activation.
715.4	Fire protection rated glazing	715.5	Fire protection rated glazing	Editorial changes for clarity.
Table 715.4	Fire window assembly fire protection ratings	Table 715.5	Fire window assembly fire protection ratings	Relocated table and moved "and fire partitions" to portion of table covering "smoke barriers."
715.4.8	Exterior fire window assemblies	-	-	Deleted section. Revisions to other sections makes the information in this section redundant and not necessary.
715.4.2	Nonsymmetrical glazing systems	715.5.2	Nonsymmetrical glazing systems	Relocated section.
715.4.9	Labeling requirements	715.5.8	Labeling requirements	Section revised to simply reference 715.5.8 for information required on the label.
-	-	715.5.8.1	Identification	Added section to require specific four-part identifier on the glazing such that a code official can readily identify that the glazing material is appropriate for the application.
716.1	General scope for ducts and air transfer openings	716.1	General scope for ducts and air transfer openings	Revised section to remove "fire-resistance-rated" as section covers information beyond fire-resistance-rated assemblies.
716.1.1	Ducts and air transfer openings without dampers	716.1.1	Ducts without dampers	Revision to remove "and air transfer openings." Revisions in several sections are made to correct incongruity in the provisions for ducts and air transfer openings when combined.
716.2	Membrane penetrations	716.2	Membrane penetrations	Section is re-written to provide a division of requirements into three items. This change accomplishes and editorial need for clarification as well as corrects several confusing and incorrect statements regarding radiation dampers.
716.3.2.1	Smoke damper actuation methods	716.3.2.1	Smoke damper actuation methods	Revised to include "or ceiling" in addition to wall installed dampers. Omission of term could lead to confusion.

716.4	Access and identification	716.4	Access and identification	Revised label requirement to add "fire/smoke damper" in clarifying for correct terms and service access.
716.5	Damper requirements	716.5	Damper requirements	Revised to add specific reference to sections 716.5.1 through 716.5.5.
716.5.1	Fire walls	716.5.1	Fire walls	Revised term "approved" to "listed."
716.5.2	Fire barriers	716.5.2	Fire barriers	Added statement to section: "Ducts and air transfer openings shall not penetrate exit enclosures and exit passageways except as permitted by Sections 1019.1.2 and 1020.5, respectively." Revised exception number 2 to add ducts for smoke control, "where the use of a fire damper would interfere with the operation of a smoke control system." Revised exception number 3 to remove reference to 716.5.4 and add exempted building equipped throughout with an automatic sprinkler system in accordance with 903.3.1 or 903.3.1.2.
716.5.3.1	Penetrations of shaft enclosures	-	-	Information relocated - now part of 715.5.3.
716.5.4	Fire partitions	716.5.4	Fire partitions	Revised language for exceptions to state, "where any of the following apply" for clarification. Also revised exception number 1 from "and" to "or" to correct intention that a wall be a tenant separation AND corridor wall, but rather either of the two. Revised language from "approved" to "listed" and "meets" with "comply with."
716.5.5	Smoke barriers	716.5.5	Smoke barriers	Revised to remove "smoke dampers" since section reference is specific to smoke damper actuation specifically.
716.6	Horizontal assemblies	716.6	Horizontal assemblies	Revised reference to "this" section to section 716.6.1 through 716.6.3.
716.6.1	Through penetrations	716.6.1	Through penetrations	Editorial change to add "listed" and "installed" for requirements.
716.6.2	Membrane penetrations	716.6.2	Membrane penetrations	Sections primarily reorganized for clarity and technical consistency.
716.6.2.1	Ceiling radiation dampers	716.6.2.1	Ceiling radiation dampers	
716.6.3	Nonfire-resistance-rated floor assemblies	716.6.3	Nonfire-resistance-rated floor assemblies	Section reorganized for clarity and consistency.
717.1	General scope for concealed spaces	717.1	General scope for concealed spaces	Revised section to replace "noncombustible" with "of Type I or II construction."

717.2.6	Architectural trim	717.2.6	Architectural trim	Revised section to add requirement that there be no open space exceeding 100 sq. ft. and that wood furring strips be wood of natural decay-resistance or preservative-treated wood.
717.3.1	Draftstopping materials	717.3.1	Draftstopping materials	Revised section to add additional materials as to provide a comprehensive list. Additions include 1-inch nominal lumber, cement fiberboard, batts or blankets of mineral wood or glass fiber.
717.5	Combustible materials in concealed spaces in Type I or II	717.5	Combustible materials in concealed spaces in Type I or II	Editorial change to add "materials" in the title and the section.
				Revised exception number 2 to add "exposed with plenums."
				Revised exception number 3 to add classification in accordance with section 803.
				Revised exception 5 for editorial change to remove "shall be permitted" for wordiness.
	Added exception number 6 to allow combustible material in concealed spaces to provide for insulation and covering on pipe and tubing complying with 719.7.			
719.4	Loose-fill insulation	719.4	Loose-fill insulation	Editorial change to add reference to test method CAN/ULC S102.2 to the exception.
719.7	Insulation and covering on pipe and tubing	719.7	Insulation and covering on pipe and tubing	Added exception to provide compliance for piping and tubing in plenum areas.
720.1.2	Unit masonry protection	720.1.2	Unit masonry protection	Revised section title to remove "unit." The term "traverse" was also removed since not an application for masonry.
				Added to scope the application for masonry that doesn't contain horizontal wall reinforcing.
Table 720.1(1)	Min. protection of structural parts based on time periods for various noncombustible insulating materials	Table 720.1(1)	Min. protection of structural parts based on time periods for various noncombustible insulating materials	Revised table to add item number 1-9.1 since recent ASTM E199 fire tests have confirmed that a one-hour fire resistance rating can be achieved for a W8X35. (also added corresponding footnote n).

Table 720.1(2)	Rated fire-resistance periods for various walls and partitions	Table 720.1(2)	Rated fire-resistance periods for various walls and partitions	Revised table, item number as shown below:
-	-		Item 15-1.13	Added new item in table for 12" o.c. option and renumbered subsequent sections.
	Item 15-1.14		Item 15-1.14	Revised section to remove mineral wood insulation.
	Item 15-1.15		Item 15-1.15	Revised section to remove "oriented strand board" from exterior covering description.
	Item 15-1.16		Item 15-1.16	
	Item 16-1.1		Item 16-1.1	
-	-	Item 16-1.3	Added new item in table for 2X6 studs and fiberglass insulation option.	
Table 720.1(3)	Minimum Protection for Floor and Roof Systems	Table 720.1(3)	Minimum Protection for Floor and Roof Systems	Revised table, item number as shown below:
-	-		Item 22-1.1	Revised item 22 floor or roof construction from steel joists to wood joists.
			Item 24.1.1 through item 30-1.1	Added new items in table for I-joist floor/ceiling assemblies which are more prevalent in use but were not provided in this table.
721.5.1.3	Spray-applied fire-resistant materials	721.5.1.3	Spray-applied fire-resistant materials	Revised section to address requirements of intumescent or mastic coatings. Added statement after equation providing requirement based on fire-resistance tests in accordance with Section 703.2.
721.5.2.2	Spray-applied fire-resistant materials	721.5.2.2	Spray-applied fire-resistant materials	Revised section to removed "unrestrained" term from description of structural beams and girders. Added statement after equation providing requirement of intumescent or mastic coatings based on fire-resistance tests in accordance with Section 703.2.
721.5.2.2.1	Minimum thickness of material	721.5.2.2.1	Minimum thickness of material	Revised section to now contain reference to equation 7-17 and add that it's use is subject to conditions 1 through 4. The equation is applicable to both unrestrained beams and compact restrained beams. The conditions provided also correlates with information provided in the UL Fire Resistance Directory.
721.5.2.3	Structural steel trusses	721.5.2.3	Structural steel trusses	Revised for editorial change by replacing "which" with "that" and added statement providing requirement of intumescent or mastic coatings based on fire-resistance tests in accordance with Section 703.2.

Table 721.6.2(3)	Membrane on exterior face of wood stud walls	Table 721.6.2(3)	Membrane on exterior face of wood stud walls	Editorial change in sheathing column to replace term "plywood" with "wood structural panel" for consistency with industry practice terminology.
721.7	Other reference documents	-	-	Deleted section. Two references no longer exist and the remaining reference provides no additional information not already provided in elsewhere in the code.
Chapter 8: Interior Finishes				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
801.1.2	Decorative materials and trim scoping requirements	801.1.2	Decorative materials and trim scoping requirements	Reference to "flame resistance" of materials has been revised to "flame propagation performance criteria of NFPA 701" consistent with terminology in NFPA 701.
801.2.1	Window framing construction	801.2.1	Window framing construction	The term "first story" has been revised to "first story above grade plane" for clarity and consistency throughout the code. Clarifies that this section applies to windows in exterior walls.
801.2.2	Foam plastic use limitations	801.2.2	Foam plastic use limitations	New language stating that exposed foam plastics and foam plastics used in conjunction with a textile or vinyl facing or cover are regulated by this section.
802.1	Definition: Flame resistance	802.1	-	The definition of flame resistance has been deleted for consistency in terminology with NFPA 701.
802.1	Definition: Flame spread index	802.1	Definition: Flame spread index	Revised reference to testing method from single numerical value, to a comparative measure of the spread of flames versus the time for a material for consistency with terminology in ASTM E 176.
802.1	Definition: Interior wall and ceiling finish	802.1	Definition: Interior wall and ceiling finish	Provided the inclusion of "water closet privacy" as in interior finish item.
802.1	Definition: Smoke-developed index	802.1	Definition: Smoke-developed index	Revised reference to testing method from single numerical value, to a comparative measure of smoke obscuration versus the time for a material for consistency with terminology in ASTM E 176.
803.2.1	Acceptance criteria for interior wall or ceiling finishes other than textiles	803.2.1	Acceptance criteria for interior wall or ceiling finishes other than textiles	Added additional item for acceptance criteria to be met for the entire test. New Item 3: The peak rate of heat release throughout the NFPA 286 test shall not exceed 800 kW.
Table 803.5	Occupancy interior wall and ceiling finish requirements	Table 803.5	Occupancy interior wall and ceiling finish requirements	Revise table headings and footnotes- "Vertical exits" to "exit enclosures" and "exit access corridors and other exitways" to "corridors" for consistency in terminology throughout the code.

803.6	Textiles	803.6	Textiles	Added specific reference to carpet as textile. Reformat of section permits compliance with 803.6.1, 803.6.2, or 803.6.3 for clarity in determining whether a material is a textile or not.
803.6.1	Textile wall coverings	803.6.1	Surface burning characteristics for textile wall and ceiling coverings	Added ceiling coverings to the scope of this section as a result of deleting Section 803.6.2 for ceiling coverings.
803.6.1.1	Textiles: Method A test protocol	-	-	Method A test protocol has been deleted.
-	-	803.6.2	Textiles: room corner test ceiling and wall finish	Provides specific reference to NFPA 265 and the Method B protocol.
803.6.1.2	Method B Test Protocol	803.6.2.1	Method B Test Protocol	New pass/fail criteria limits smoke released to not exceed 1000 m ² .
-	-	803.6.3	Textiles: room corner test ceiling and wall finish	Permits the use of NFPA 286 for testing textile wall and ceiling coverings.
804.1	Interior floor finish	804.1	Interior floor finish	Revised wording to state specific sections: 804.2 through 804.4.1. Exception revised to include floor finish in scope.
804.3	Interior floor finish testing and identification	804.3	Interior floor finish testing and identification	Revised to include floor finish in scope of section.
804.4	Interior floor finish: application	805.1	Application of combustible materials in type I and II construction	Clarification of terms and moved requirements in Section 804.4 to new Section 805.5 Combustible Materials in Type I and II Construction.
804.4.1	Subfloor construction	805.1	Subfloor construction	Section relocated.
804.4.2	Wood finish flooring	805.1.2	Wood finish flooring	Section relocated.
804.4.3	Insulating boards	805.1.3	Insulating boards	Section relocated.
804.5	Interior floor finish requirements	804.4	Interior floor finish requirements	Terminology regarding exits and corridors revised for consistent terminology throughout the code.
804.5.1	Minimum critical radiant flux	804.4.1	Minimum critical radiant flux	Revised to include floor coverings in scope of section. Exception now permits of the use sprinklers in accordance with Section 903.3.1.2 in addition to Section 903.3.1.1.

805.1	Decorative materials and trim scoping requirements	806.1	Decorative materials and trim scoping requirements	Changed "flame resistant" to " flame propagation performance criteria of NFPA 701. New criteria specific to fixed or movable walls and partitions, paneling, wall pads and crash pads requires to be considered interior finish if they cover more than 10% of the wall or ceiling area. In Group B and M occupancies, fabric partitions suspended from ceiling and not support by the floor required to meet NFPA 701 or be noncombustible.
805.1.2	Flame-resistant materials	806.1.2	Combustible decorative materials	Changed "flame resistant" to " flame propagation performance criteria of NFPA 701. New exception 2 permits unlimited amounts of fabric partitions suspended from ceiling in Groups B and M.
805.2	Acceptance criteria and reports	806.2	Acceptance criteria and reports	Changed "flame resistant" to " flame propagation performance criteria and other terminology for consistency with NFPA 701.
805.5	Trim	806.5	Interior Trim	Specifically excludes foam plastic from scope of this section.
Chapter 9: Fire Protection Systems				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
903.1.1	Automatic Sprinkler Systems alternative protection	903.1.1	Automatic Sprinkler Systems alternative protection	Revised approval entity from "building" to "fire code" official for consistency.
903.2	Automatic Sprinkler Systems exception	903.2	Automatic Sprinkler Systems exception	Language revised for consistency of terms utilized in the technical section for fire separation requirements.
903.2.1.2	Group A-2 sprinkler systems	903.2.1.2	Group A-2 sprinkler systems	Lowered fire area occupant load threshold for when sprinklers are required in all Group A-2 from 300 to 100.
903.2.3	Group F-1 sprinkler systems	903.2.3	Group F-1 sprinkler systems	Revised language in requirement item number 2 from "grade" to "grade plane" for consistency in throughout the code.
903.2.6	Group M sprinkler system	903.2.6	Group M sprinkler system	Revised language in requirement item number 2 from "grade" to "grade plane" for consistency in throughout the code.
903.2.8	Group S-1 sprinkler system	903.2.8	Group S-1 sprinkler system	Revised language in requirement item number 2 from "grade" to "grade plane" for consistency in throughout the code.
Table 903.2.13	Additional Required suppression Systems	Table 903.2.13	Additional Required suppression Systems	Added to table; 508.2 Incidental use areas and 1025.6.2.3 Smoke-protected assembly seating.

903.3.1.1.1	NFPA 13 sprinkler system exempt locations	903.3.1.1.1	NFPA 13 sprinkler system exempt locations	Revised approval entity from "building" to "fire code" official for consistency with the IFC.
903.3.1.2.1	NFPA 13R sprinkler system exempt locations	903.3.1.2.1	NFPA 13R sprinkler system exempt locations	Revised section to add "and decks" to the title and requirements.
903.3.6	Automatic Sprinkler Systems - water supply hose threads	903.3.6	Automatic Sprinkler Systems - water supply hose threads	Revised section to add "and fittings" in addition to hose threads. Also revised to state "as prescribed by fire code official" as opposed to stating that threads must be compatible with fire department hose threads.
903.4.1	Sprinkler system monitoring and alarm signals	903.4.1	Sprinkler system monitoring and alarm signals	Revised approval entity from "building" to "fire code" official for consistency with the IFC.
904.2	Automatic fire-extinguishing systems	904.2	Automatic fire-extinguishing systems	Revised approval entity from "building" to "fire code" official for consistency with the IFC.
904.11	Commercial cooking systems	904.11	Commercial cooking systems	Revised UL reference in exception from "197" to "710B."
904.11.1	Commercial cooking systems - manual operation	904.11.1	Commercial cooking systems - manual operation	Revised required height location of manual actuation devices to maximum of 48 inches and minimum of 42 inches to provide consistency with NFPA requirements. Also revised language requires the device to clearly identify the hazard being protected.
905.3.1	Standpipe and building height	905.3.1	Standpipe and building height	Added new Exception 5 clarifying the measurement of the lowest fire department vehicle access in relation to recessed loading docks and topography.
905.3.3	Standpipe in covered mall buildings	905.3.3	Standpipe in covered mall buildings	Revised reference section from "905.3" to a more specific "905.3.1."
905.3.4	Requirement for standpipe system for stages	905.3.4	Requirement for standpipe system for stages	Revised exception to add new reference to NFPA 13 and NFPA 14 and removed language which does not currently coordinate with NFPA 14.
-	-	905.3.7	Standpipes in marinas and boatyards	Added new section to protect marine facilities not previously listed.
905.4	Location of Class I standpipe hose connections	905.4	Location of Class I standpipe hose connections	Added exception to item number 2, providing a reasonable placement for typical design conditions where horizontal exits are near exit stairways and utilization of a the exempted stair enclosure is a better fire fighting practice. Also revised #6 to revise approval entity from "building" to "fire code" official.
905.5.3	Class II system 1-inch hose	905.5.3	Class II system 1-inch hose	Revised approval entity from "building" to "fire code" official.

907.2	Fire alarm and detection systems	907.2	Fire alarm and detection systems	Revised language for, "installed in accordance with the provisions of this code and NFPA 72" and the requirement to "provide occupant notification in accordance with Section 907.9, unless other requirements are provided by another section of this code" as separate sentences to eliminate the confusion that it may not apply to manual systems as well as to provide a clearer intent of the purpose.
907.2.1	Group A fire alarm system	907.2.1	Group A fire alarm system	Removed "in accordance with NFPA 72" for consistency with other sections that do not reference this standard.
-	-	907.2.3	Group E manual fire alarm system	Relocated exception from Section 907.3.1 to 907.2.3 as new exception item number 3 for continuity of sections requiring manual fire alarm boxes.
907.2.6	Group I fire alarm system	907.2.6	Group I fire alarm system	Revised language from "as prescribed in this section" to "in accordance with Sections 907.2.6.1 and 907.2.6.2."
-	-	907.2.6.1	Group I-1 fire alarm system	Added requirements specifically for Group I-1 to clarify for this group as well as Group I-2, the requirements for smoke detection and locations.
907.2.6.2	Group I-2 fire alarm system	907.2.6.1	Group I-2 fire alarm system	Relocated section and added reference to Section 407.2 to comply with change outlined for Group I-1 above.
907.2.7	Group M fire alarm system	907.2.7	Group M fire alarm system	Added "The initiation of a signal from a manual fire alarm box shall initiate alarm notification appliances as required by Section 907.9." for clarification of original intent.
907.2.7.1	Occupant notification	907.2.7.1	Occupant notification	Revised general language to assist in consistent enforcement.
907.2.9	Group R-2 exceptions	-	-	Deleted Item 2.3 from Exception 2 requiring at least one manual fire alarm box installed at an approved location.
907.2.10	Single and multi-station smoke alarms	907.2.10	Single and multi-station smoke alarms	Requires listed single- and multiple-station smoke detectors to comply with UL 217.
907.2.10.1.3	Single and multi-station smoke alarms - Group I-1	907.2.10.1.3	Single and multi-station smoke alarms - Group I-1	Section revised by making last sentence an Exception to the section for clarity.

907.2.12.2	Emergency voice/alarm communication system	907.2.12.2	Emergency voice/alarm communication system	Revised language to clarify speaker requirements and overall intent. Changes include new language, "general or staged evacuation" and added statement, "Speakers shall be provided throughout the building by paging zones. As a minimum, paging zones shall be provided as follows:" Items numbers were also revised to list: 1. Elevator groups; 2. Exit stairways; 3. Each floor. Item number 4 was added as: "4. Areas of refuge as defined in Section 1002.1."
907.2.12.2.1	Emergency voice/alarm manual override	907.2.12.2.1	Emergency voice/alarm manual override	Revised section to include, "on a selective and all-call basis" for paging zone override requirements.
907.2.12.2.2	Emergency voice/alarm live voice messages	907.2.12.2.2	Emergency voice/alarm live voice messages	Revised section to include, "on a selective and all-call basis" replacing language providing specific speaker locations.
907.2.17	Lumber mills	907.2.17	Lumber mills	Editorial change to remove the term "plywood" from title and add, "wood structural panel" to this section.
907.3.1	Manual fire alarm boxes exemption	907.3.1	Manual fire alarm boxes exemption	Removed exemption from this section and relocated exemption to Section 907.2.3, Group E.
907.3.5	Protective covers for fire alarm boxes	907.3.5	Protective covers for fire alarm boxes	Revised authorization entity from "building" to "fire code" official.
907.7	Presignal system	907.7	Presignal system	Revised approval entity from "building" to "fire code" official.
907.8.2	High-rise buildings	907.8.2	High-rise buildings	Revised language regarding "human occupancy" to ensure clarity of high-rise classification.
907.9.1.2	Alarm notification for employee work areas	907.9.1.2	Alarm notification for employee work areas	Revised to require the initial design to have a minimum of 20 percent spare capacity to account for the potential of adding visible notification appliances in the future to accommodate hearing impaired employees, which provides for a more reasonable and cost effective means to meet the original intent.
907.14	Monitoring	907.14	Monitoring	Section revised for clarity
908.3	Emergency alarm systems in areas of toxic materials	908.3	Emergency alarm systems in areas of toxic materials	Revised the exception to replace the term "properties" with the term "threshold level" for consistency in terminology.
909.4.6	Smoke control systems	909.4.6	Smoke control systems	Section revised by placing additional limit of 1.5 times the calculated egress time for continued operation of smoke control systems after detection of the fire event, in addition to the 20 minute limit..

909.5.1	Leakage area for smoke barrier	909.5.1	Leakage area for smoke barrier	Revised approval entity from "building" to "fire code" official.
909.5.2	Opening protection	909.5.2	Opening protection	Revised language in exception 3 from "fire-rated" to fire-protection-rated" glazing as each have a very specific meaning and for this exception, fire-protection-rated should be used.
909.7	Airflow design method	909.7	Airflow design method	Revised approval entity from "building" to "fire code" official.
909.8	Exhaust method	909.8	Exhaust method	Revised to require smoke control systems using the exhaust method to be in accordance with NFPA 92B.
909.8.1	Smoke layer	909.8.1	Exhaust rate	Revised title from "Exhaust rate" to "Smoke layer" to more accurately describe section. Revised section to remove method specifics now contained and reference in NFPA 92B.
909.8.2	Axisymmetric plumes	-	-	Deleted section. Information is contained in newly reference NFPA 92B.
909.8.3	Balcony spill plumes	-	-	Deleted section. Information is contained in newly reference NFPA 92B.
909.8.4	Window plumes	-	-	Deleted section. Information is contained in newly reference NFPA 92B.
909.8.5	Plume contact will walls	-	-	Deleted section. Information is contained in newly reference NFPA 92B.
909.9	Design fire	909.9	Design fire	Revised approval entity from "building" to "fire code" official. Minimum Q for design fire has been deleted and left specifically to the discretion of the registered design professional.
909.9.2	Design fire separation distance	909.9.2	Design fire separation distance	Revised section to retain first sentence but remove specific design requirements listed to allow for more appropriate design methods taking into account additional considerations outlined in section 909.
909.10	Equipment	909.10	Equipment	Revised approval entity from "building" to "fire code" official.
909.15	Control diagrams	909.15	Control diagrams	Revised approval entity from "building" to "fire code" official.

909.16	Fire-fighters smoke control panel	909.16	Fire-fighters smoke control panel	Revised this section to provide delineation for low-rise requirements and for high-rise requirements to eliminate unnecessary space use for low-rise designs. This was accomplished by adding information for low-rise as follows, "In all other buildings, the fire-fighter's smoke control panel shall be installed in an approved location adjacent to the fire alarm control panel. The fire-fighter's smoke control panel shall comply with Sections 909.16.1 through 909.16.3."
909.18.8.3.1	Report filing	909.18.8.3.1	Report filing	Revised approval entity from "building" to "fire code" official.
909.19	System acceptance	909.19	System acceptance	Revised approval entity from "building" to "fire code" official.
909.20.2.1	Door closers	909.20.2.1	Door closers	Revised language moving section 715 reference to proper location in the section to clarify that its not the smoke proof enclosure but the smoke detector that is regulated by the reference.
909.20.4.1	Vestibule doors	909.20.4.1	Vestibule doors	Revised section to correct a reference from 715.3 to 715.4.3 and to add reference for NFPA 105. Revision also removes specific gasket information and adds, "and meet the requirements for a smoke door assembly."
909.20.5	Stair pressurization alternative	909.20.5	Stair pressurization alternative	Revised exterior stairway pressure from "0.15 inch per water 37 Pa" to "0.05 inch per water 12.3 Pa."
909.21	Underground building smoke exhaust system	-	-	Deleted section to avoid confusion over requirements outlined in section 405.5.
909.21.1	Exhaust capability	-	-	Section deleted.
909.21.2	Operation	-	-	Section deleted.
909.21.3	Alarm required	-	-	Section deleted.
909.22	Atrium	-	-	Section deleted.
910.1	Smoke and heat vents	910.1	Smoke and heat vents	Added exception number 2 exempting smoke and heat vents from areas of buildings equipped with ESFR sprinklers.
910.2.2	Smoke and heat vents for Group H	-	-	Section deleted.
-	-	910.3.1	Design and installation of smoke and heat vents	Added the requirement for smoke and heat vents to be listed and labeled in accordance with UL 793.
910.3.1	Design and installation vent operation	910.3.2	Design and installation vent operation	Relocated section and revised to add referenced sections "910.3.2.1 through 910.3.2.3."

910.3.4	Draft curtains	910.3.5	Draft curtains	Relocated section and revised to add reference, "where required by Table 910.3."
Table 910.3	Requirements for draft curtains and smoke and heat vents	Table 910.3	Requirements for draft curtains and smoke and heat vents	Revised table information under the column heading "Occupancy Group and Commodity Classification" to combine S-1 with F-1. Remainder of classifications include reference to 910.2.3 options. Also added footnotes c and d for modification to provide method for calculation of vent openings.
910.4	Mechanical smoke exhaust	910.4	Mechanical smoke exhaust	Revised approval entity from "building" to "fire code" official.
-	-	912	Fire department installation of connections	Added new section for fire department connections.
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1002.1	Definitions: Accessible means of egress	1002.1	Definitions: Accessible means of egress	Definition modified to clarify that the accessible means of egress begins at areas required to be accessible and ends at a public way
1002.1	-	1002.1	Aisle	New definition of aisle added to distinguish from aisle accessway
1002.1	-	1002.1	Definition for Means of Escape	Added new definition of means of escape for compliance with emergency egress opening requirements when hurricane shutters are installed.
1002.1	-	1002.1	Definition for Merchandise Pad	Added new definition of merchandise pad to deal with aisle accessways in Group M.
1003.3.2	Free standing objects	1003.3.2	Free standing objects	Revised requirement for any object on a post or pylon to not extend more than "4" inches - previously the requirement stated no more than "12" inches.
1004.1	Occupant load scope	1004.1	Occupant load scope	Revisions to these sections are primarily editorial. The fundamental requirements were reorganized in a logical fashion.
1004.1.1	Occupant load - actual number	1004.1.1	Areas without fixed seating	
1004.1.2	Number by Table 1004.1.2	-	-	
1004.1.3	Occupant load - number by combination	-	-	
Table 1004.1.2	Maximum Floor Area Allowances per Occupant	Table 1004.1.1	Maximum Floor Area Allowances per Occupant	Revised Table number. Column heading was revised from "Occupancy" to "Function of Space."
1004.2	Increased occupant load	1004.2	Increased occupant load	Revised referenced Table from "1004.1.2" to "1004.1.1" and revised the occupant load must not exceed requirement from "5" to "7."

1004.7	Fixed seating	1004.7	Fixed seating	Revised section to add, "The occupant load for areas in which fixed seating is not installed, such as waiting spaces and wheelchair spaces, shall be determined in accordance with Section 1004.1.1 and added to the number of fixed seats" to clarify the space calculation for areas that do not have fixed seating.
1008.1.1	Size of doors	1008.1.1	Size of doors	Revised exception number 7 to the exception does not apply to Group R1 occupancies.
1008.1.2	Door swing	1008.1.2	Door swing	Exceptions revised to clarify that egress doors in patient rooms in suites of health care facilities and doors serving a bathroom in an sleeping unit in Group R1 do not have to be side-hinged swinging.
1008.1.4	Floor Elevation	1008.1.4	Floor Elevation	Revised exception number 3 to clarify this exception applies to Group R-3 units not required to be accessible. Also revised requirement for slope to not exceed "1 units vertical in 50 units horizontal" from previous "0.25 units vertical in 12 units horizontal."
1008.1.8.3	Locks and latches	1008.1.8.3	Locks and latches	"Churches" changed to "places of religious worship."
1008.1.8.5	Doors and unlatching	1008.1.8.5	Doors and unlatching	Revised language to add "door" to previous term "leaf" so that both terms may be utilized for the requirement of a single operation for unlatching.
1008.1.8.7	Stairway doors	1008.1.8.7	Stairway doors	Exception 3 has been revised to require that the doors are capable of being unlocked simultaneously without unlatching upon a signal from the fire command center.
1008.1.9	Panic and fire exit hardware	1008.1.9	Panic and fire exit hardware	The occupant load limit for Groups A and E when panic or fire exit hardware is required has been lowered from 100 to 50. Panic or fire exit hardware is now required on exit access doors from electrical rooms with equipment rated 120 amperes or more and over 6 feet wide that contain overcurrent devices, switching devices, or control devices.
1008.2.1	Stadium gates	1008.2.1	Stadium gates	Revised reference section from "1017" to "1024.6."
1009	Stairways and handrails	1009	Stairways	Revised title. Handrail information now in Section 1012.
1009.1	Stairway width	1009.1	Stairway width	Revised exception number 1 to state the occupant load from "50 or less" to "less than 50."
1009.3	Stair treads and risers	1009.3	Stair treads and risers	Revised scope for this section to relocate dimensional information to Section 1009.3.2.

-	-	1009.3.1	Winder treads	Added new section. Information was previously included in another section but is provided in separate section for clarity.
1009.3.1	Stairway dimensional uniformity	1009.3.2	Stairway dimensional uniformity	Relocated information regarding min and max stair tread and riser to 1009.3 and added tolerance and uniformity information from the exception in this section to the scope of section. In addition, exception 1 was revised to move information to scope of section and was revised to add information regarding nonuniform risers. Exception 2 added information regarding winders. Information from previous exemption 1 was revised to correct the referenced scope from "8 percent slope" to "8.333 percent slope."
1009.5.1	Stairway walking surface and slope	1009.5.1	Stairway walking surface and slope	Revised slope from "48 vertical units" to "50 vertical units" (still a 2% slope).
1009.5.2	Outdoor stairway conditions	1009.5.2	Outdoor stairway conditions	Removed requirement for overhang protection to prevent accumulation of excessive water or snow for exterior stairways .
1009.7	Circular stairways	1009.7	Curved stairways	Revised title of section. Language revisions recognizes new terminology used in curved stairways and provides greater parameters of application for this section. Minimum radius is now based on the required width rather than the actual width.
1009.8	Winders	-	-	Deleted section.
1009.9	Spiral stairways	1009.8	Spiral stairways	Relocated section.
1009.10	Alternating tread devices	1009.9	Alternating tread devices	Relocated section.
1009.11	Stairway handrails	1009.10	Stairway handrails	Provisions for handrails have been relocated to Section 1012 and apply to handrails for stairs and ramps.
1009.13	Interlocking or scissor stairs	1009.12	Interlocking or scissor stairs	Relocated section.
1010.6.3	Landing length	1010.6.3	Landing length	Added Exception 2 which permits the landing length to be 48 inches where the ramp is not part of an accessible route. New Exception 3 refers to Section 11.4.8.4 for accessible landings.
1010.6.4	Landing and change in direction	1010.6.4	Landing and change in direction	Revised section to remove reference "as applicable in 101.2."
1010.7	Ramp construction	1010.7	Ramp construction	Revised referenced section from "1019" to "1020."

1010.7.2	Outdoor conditions	1010.7.2	Outdoor conditions	Removed requirement to prevent accumulation of excessive water or snow.
1010.9.1	Railings	-	-	Section combined with Section 1019.2 and renumbered to Section 1019.1
1010.9.2	Curb or barrier	1010.9.1	Curb, rail, wall or barrier	Relocated section, revised title and added terms "rail and wall" to the scope of this section.
-	-	1012	Handrails	New section for handrails was added to eliminate confusion between requirements for ramps and stairways. Correlation was also provided where applicable with accessibility requirements.
1012.1	Guards scope	1013.1	Guards scope	Revised section to add, "Where glass is used to provide a guard or as a portion of the guard system, the guard shall also comply with Section 2407."
1012.2	Guards height	1013.2	Guards height	Relocated section and removed reference to "applicable in Section 101.2."
1012.3	Opening limitations	1013.3	Opening limitations	Relocated section and added exception number 5: "Within individual dwelling units and sleeping units in Group R-2 and R-3 occupancies, openings for required guards on the sides of stair treads shall not allow a sphere of 4.375 inches (111 mm) to pass through."
1012.5	Mechanical equipment guards	1013.5	Mechanical equipment guards	Revised section to add roof hatch openings to the list of items includes in scope to require guards. Also added, "The guard shall extend not less than 30 inches (762mm) beyond each end of such appliance, equipment, fan or component."
-	-	1013.6	Roof access	New section added to include guard requirements for roof hatch openings.
1013.2	Egress through intervening spaces	1014.2	Egress through intervening spaces	Revised organization of this section for clarity and so that each requirement can stand on it's own. Scope information has been moved to item number 1. The exception for item number 1 was revised to add Groups S and F. New exception 2 permits egress through a stockroom serving a Group M occupancy under certain conditions.

1013.2.1	Exit access for multiple tenants	1014.2.1	Exit access for multiple tenants	<p>A new exception has been added that permits egress through adjoining tenant spaces where such tenant spaces occupy less than 10 percent of the area of the tenant space through which they pass. Additional stipulations include:</p> <ol style="list-style-type: none"> 1. Same or similar occupancy 2. Discernable path of egress travel is provided 3. Not subject to locking from the egress side 4. Required means of egress serving the larger tenant space is not permitted to pass through the smaller space
1013.2.2	Group I-2 suite egress	1014.2.2	Group I-2 suite egress	<p>Revised exemption 4 and added exemption 5 for the purpose of clarification and greater flexibility for suite layout, without compromise of original intent.</p>
1013.3	Common path of egress travel	1014.3	Common path of egress travel	<p>Numerous revisions were made to the provisions for common path of egress travel primarily for consistency with the Florida Fire Prevention Code. Notable changes include:</p> <ol style="list-style-type: none"> 1. Groups F, M, and S occupancy are permitted a common path of travel of 100 feet provided the building is equipped with an automatic sprinkler system. Otherwise the common path of egress travel is 75 feet. 2. Group R-2 is permitted a common path of egress travel of 125 feet within the dwelling unit provided the building is provided with an automatic sprinkler system. 3. Where the occupant load in a tenant space of Group A occupancy exceeds 50, the common path of egress travel is limited to 20 feet. 4. Common path of egress travel in Group F and S is limited to 50 feet in unsprinklered buildings. 5. Common path of egress travel in Group S2 parking garages is limited to 50 feet. 6. Common path of egress travel in Group H occupancies is prohibited.

-	-	1014.4.2	Aisle access ways in Group M	Added new section and exception to provide requirements specific to aisle accessways in Group M, including the introduction of the term merchandise pad. This new section assists with clarity regarding the distinction between aisles and aisle access way.
1013.4.2.1	Aisle access way for tables and seating	1014.4.3.1	Aisle access way for tables and seating	Revised reference in this section from "1013.4.1" to "101.4.3.1."
Table 1014.1	Spaces with One Means of Egress	Table 1015.1	Spaces with One Means of Egress	Occupant load thresholds were lowered from 50 to 49 for Groups A, B, E, F, M, U, R-2, and R-3. Occupant load threshold for Group S was lowered from 30 to 29. Group D occupant load threshold for a single means of egress has been lowered from 50 to 10.
1014.2.2	Three or more exits or exit access doorways	1015.2.2	Three or more exits or exit access doorways	Majority of the provisions removed and referenced to Section 1015.2.1 for clarity.
1014.3	Boiler, incinerator and furnace rooms - diagonal dimension requirement	1015.3	Boiler, incinerator and furnace rooms - diagonal dimension requirement	Editorial revisions for clarity.
Table 1015.1	Exit Access Travel Distance	Table 1016.1	Exit Access Travel Distance	Travel distances have been revised for various occupancies for correlation with the FFPC.
1016.2	Corridor width	1017.2	Corridor width	Revised exception number 2 from "50 or less" to "less than 50."
1016.4	Air movement in corridors	1017.4	Air movement in corridors	Revised section to state "corridors" versus "exit access corridors" for code language consistency.
1018.1	Minimum number of exits	1019.1	Minimum number of exits	Revised section reference from "Table 1018.1" to 1019.1."
Table 1018.1	Min Number of Exits for Occupant Load	Table 1019.1	Min Number of Exits for Occupant Load	Revised column headings to add subheadings. Occupant load has addition "persons per story" and Min number of exits has addition "per story."
Table 1018.2	Buildings with One Exit	Table 1019.2	Buildings with One Exit	Occupant number threshold for Groups A, B, D, E, F, M, U was revised from "50" to "49." Occupancy S was revised from "30" to "29." Also added footnote e to clarify requirement of maximum occupant load of 10 for day care.

1019.1	Scope for vertical exit enclosures	1020.1	Scope for vertical exit enclosures	Added statement, "in accordance with Section 706 or horizontal assemblies constructed in accordance with Section 711, or both." Revised language from "shaft enclosure" to "exit enclosure." Also added An exit enclosure shall not be used for any purpose other than means of egress." Revised exception 1 and 3 for language clarity - intent remains the same. Exception(s) 8 and 9 adds, "Unenclosed exit stairways shall be remotely located as required in Section 1015.2."
1019.1.1	Openings and penetrations	1020.1.1	Openings and penetrations	Revised language for clarity to change the term "unexposed" to "unprotected" and added statement, "Elevators shall not open into an exit enclosure."
1019.1.3	Ventilation and exit enclosures	1020.1.3	Ventilation and exit enclosures	Revised section to add reference 1020.1.2 to scope of this section and revised reference to Chapter 7 to 'section 715" for shaft enclosures.
1019.1.4	Vertical enclosure exterior walls	1020.1.4	Exit enclosure exterior walls	Revised title of section and first sentence per new language utilized throughout code to revise "vertical enclosure" to "exit enclosure" terms. Administrative language revision to clarify that it is the exterior wall that shall be protected by opening protectives."
1019.1.5	Enclosures under stairways	1009.5.3	Enclosures under stairways	Relocated information in this section to 1009.5.3. Permits spaces under stairways within a dwelling unit in Group R-2 or R-3 to be protected on the enclosed side with 0.5 inch gypsum board.
1019.7	Stairway floor number signs	1020.7	Stairway floor number signs	Revised section per new language to revise "vertical enclosure" to "exit enclosure" terms.
1019.1.8.1	Enclosure exit	1020.1.7.1	Enclosure exit	Revised section to add exception number 3, "A smokeproof enclosure or pressurized stairway shall be permitted to egress through areas on the level of discharge or vestibules as permitted by Section 1024" to add an additional option for exit discharge.
1021.2	Horizontal exits and separation	1022.2	Horizontal exits and separation	Revised language in section to specify a fire-resistance rating of not less than 2 hours versus a 2-hour fire resistance.
1021.3	Opening protectives	1022.3	Opening protectives	Revised section reference from "907.10" to "715.4.7.3."
1021.4	Capacity of refuge area	1022.4	Capacity of refuge area	Revised refuge area computation by removing the statement, "not including areas of stairways, elevators, and other shafts or courts" from area capacity.

1022.2	Exit ramps and stairway use as means of egress	1023.2	Exit ramps and stairway use as means of egress	Revised section language. Basic requirement remains that ramp or stairway may be used if building doesn't exceed 4 stories or is more than 75 feet; however, language was revised to remove "above grade plane" and "above the lowest level of fire department vehicle access."
1022.6	Exterior ramps and stairway protection	1023.6	Exterior ramps and stairway protection	Revised exception 1 language to state "above grade plane" from "above grade."
1023.5.2	Construction and openings	1024.5.2	Construction and openings	Administrative language revision to clarify that it is the exterior wall that shall be protected by opening protectives. Deleted reference to 101.2 to exception number 2.
1023.6	Access to public way	1024.6	Access to public way	Revised term utilized in exemption number 2 from "property" to "lot."
1024.5	Interior balcony and gallery means of egress	1025.5	Interior balcony and gallery means of egress	Revised occupant load from "over 50" to "50 or more."
1024.5.1	Enclosure of balcony openings	1025.5.1	Enclosure of balcony openings	Revised term "churches" to "places of religious worship."
1024.6.1	Assembly without smoke protection	1025.6.1	Assembly without smoke protection	Revised exception 4 - "8-percent slope" to "8.333 percent slope."
1024.6.2	Assembly smoke-protected seating	1025.6.2	Assembly smoke-protected seating	Revised reference in this section from "1024.6.2" to "1025.6.2." Removed "single assembly" term regarding total number of seats in the space.
1024.7	Assembly travel distance	1025.7	Assembly travel distance	Revised travel distances for nonsprinklered buildings from "150 feet" to "200 feet" and for sprinklered buildings from "200 feet" to 250 feet."
1024.9.1	Minimum aisle width	1025.9.1	Minimum aisle width	Revised section exemption for aisles having seating on both sides from "does not serve more than 50 seats" to "serves less than 50 seats." Exception number 6 relocated to Exception number 5, item 2.
1025.1	Scope of emergency escape	1026.1	Scope of emergency escape	Revised last sentence to state that opening will open directly into public way or to a yard or court that opens to a public way. Revision provided for clarity.
Chapter 12: Interior Environment				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1203.2	Attic spaces, ventilation	1203.2	Attic spaces, ventilation	Exception added that permits attics to be unvented provided the space is designed by a Florida-licensed engineer or registered architect.

1203.3.2	Exceptions, under-floor ventilation	1203.3.2	Exceptions, under-floor ventilation	Exception added that permits crawl spaces to be unvented provided the space is designed by a Florida-licensed engineer or registered architect.
Chapter 13: Energy Efficiency				
Chapter 14: Exterior Walls				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1402.1	Definitions	1402.1	Definitions	New definitions added for "Vinyl Siding" and "Water-resistive Barrier."
1403.2	Weather protection	1403.2	Weather protection	Section revised to delete language that eliminated the need for draining water to the exterior if determined that the penetration of water behind the veneer is not detrimental to the building performance.
1403.3	Vapor retarder	-	-	Deleted for consistency with the Energy Code.
-	-	1404.5.2	Cold-rolled copper	New section requiring copper to conform to ASTM B 370.
-	-	1404.5.3	Lead-coated copper	New section requiring lead-coated copper to conform ASTM B 101.
1405.4	Wood veneers	1405.4	Wood veneers	Section revised for clarity and "grade" changed to "grade plane."
1405.6	Stone veneer	1405.6	Stone veneer	In item 2, "waterproofed paper backing" changed to "water-resistive barrier."
-	-	1405.12.2	Window sills	New section requiring lowest part of the clear opening of a window to be 24 inches above the finished floor surface where the opening of the sill portion of an operable window is located more than 72 inches above finished grade or other surface below. An exception permits the use of window guards complying with ASTM F 2006 or F 2090 in lieu of the 24 inch minimum height.
1405.13.1	Application, vinyl siding	1405.13.1	Application, vinyl siding	"Weather-resistant" barrier changed to "water-resistive" barrier.
1505.15	Fiber cement siding	1505.15	Fiber cement siding	"Weather-resistant" barrier changed to "water-resistive" barrier.
1406.1	General, combustible materials on the exterior side of exterior walls	1406.1	General, combustible materials on the exterior side of exterior walls	Scope revised to read balconies and similar "projections" instead of "appendages."

1406.2.4	Fireblocking	1406.2.4	Fireblocking	Section revised by deleting opening limitations for fireblocking and exceptions for fireblocking, to reduce conflicts and provide consistency with Section 717.2.6. Opening limitations and previous exceptions to this sections are covered in Section 717.2.6.
1406.3	Balconies and similar projections	1406.3	Balconies and similar projections	Editorial revisions for clarity.
-	-	1407.1.1	Plastic core, MCM	New section prohibiting the use of foam plastic insulation in the plastic core of MCM.
1407.2	Exterior wall finish, MCM	1407.2	Exterior wall finish, MCM	Editorial revising changing "appendages" to "projections."
1407.10.3	Thermal barrier not required, MCM	1407.10.3	Thermal barrier not required, MCM	Editorial revising changing "appendages" to "projections."
Chapter 15: Roof Assemblies and Rooftop Structures				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1502.1	Definitions	1502.1	Definitions	New definitions added for "Roof Section."
1504.3.2	Metal panel roof systems	1504.3.2	Metal panel roof systems	Testing for metal panel roof systems through fastened or standing seam expanded to include TAS 125. New exception permits metal roofs constructed of cold-formed steel to be designed and tested in accordance with Section 2209.1 when conditions specified are met.
1504.5	Edge-securement fro low-slope roofs	1504.5	Edge-securement fro low-slope roofs	Section revised to require metal edge securement for low-slope membrane roofs to be designed and installed for wind loads in accordance with Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1
1504.7	Impact resistance	1504.7	Impact resistance	Revised to reference the "Resistance to Foot Traffic Test" when using FM 4470. Metal roofing systems having a thickness equal to or greater than 22 gage and all non-structural metal roof systems with a thickness equal to or greater than 26 gage are exempt from the impact test.
-	-	1504.8	Gravel and stone	New section prohibiting the use of gravel or stone on the roof of a building located in a hurricane-prone region.
-	-	1504.9	Margin of safety	New section requires the use of a 2:1 margin of safety for wind uplift tests unless specified in the applicable standard. Asphalt shingles that are given a mph rating are exempt from the margin of safety.

1505.1	General, fire classification	1505.1	General, fire classification	New exception exempts skylights and sloped glazing comply with Chapter 24 or Section 2610 from the fire classification requirements of Section 1505.
1505.2	Class A roof assemblies	1505.2	Class A roof assemblies	Exception revised to read ferrous or copper shingles or "sheets" instead of "panels."
1506.6	Screws	1506.6	Screws	Section revised for clarity and ASTM B 117 and TAS 114 Appendix E added for corrosion resistance tests.
1506.7	Clips	1506.7	Clips	Corrosion resistance for clips revised to 0.90 oz. per sq. ft. according to ASTM A 90/A or TAS 114 Appendix E.
1507.2.5	Asphalt shingles	1507.2.5	Asphalt shingles	New language providing cross-reference for wind resistance of asphalt shingles in accordance with Table 1507.2.10. Permits shingles to have a listing by an approved testing agency in accordance with the requirements of Section 1609.5.2.
1507.2.8	Underlayment application	1507.2.8	Underlayment application	New language added stating that distortions in the underlayment are not permitted to interfere with the ability of the shingles to seal. The wind resistance of shingles will be affected if their ability to seal is compromised.
1507.2.9.4	Crickets and saddles	1507.2.9.4	Crickets and saddles	New language clarifying that the measurement of the chimney or penetration, in regards to whether a chimney or saddle is required, is perpendicular to the slope. An exception has been added that eliminates the need for a cricket or saddle for penetrations that permit water to flow around.
1507.3.3.1	Low-slope roofs, clay and tile underlayment	1507.3.3.1	Slope and underlayment requirements, clay and tile	Refers to the FRSA/TRI manual for underlayment and slope requirements for specific tile systems.
1507.3.6	Fasteners, clay and tile	1507.3.6	Fasteners, clay and tile	Section revised to permit fasteners in accordance with the FRSA/TRI manual. Language requiring perimeter fastening areas of three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes has been deleted.
1507.4.2	Deck slope, metal roof panels	1507.4.2	Deck slope, metal roof panels	Section reformatted in numbered list for clarity. Requires lap sealants to be applied in accordance with the approved manufacturer's installation instructions.

1507.4.3	Material standards, metal roof panels	1507.4.3	Material standards, metal roof panels	New language added requiring corrosion resistance for materials used for metal-sheet roof coverings in accordance with the standards and thicknesses specified in Table 1507.4.3(2) or the material is required to be naturally corrosion resistant.
-	-	Table 1507.4.3(2)	Minimum corrosion resistance, metal roof panels	New table specifying corrosion resistance standards for metal roof panels.
1507.4.4	Attachment, metal roof panels	1507.4.4	Attachment, metal roof panels	New language clarifying that metal roof panels are required to be fastened to the supports instead of steel framing, as metal roof panels are often fastened to supports other than steel framing. Item 1 requires galvanized fasteners to be used for "steel" roofs instead of "galvanized" roofs.
1507.5.3	Underlayment, metal roof shingles	1507.5.3	Underlayment, metal roof shingles	ASTM D 4869 permitted as compliance option for underlayment.
1507.5.4	Material standards, metal roof shingles	1507.5.4	Material standards, metal roof shingles	New language added requiring corrosion resistance for materials used for metal shingle roof coverings in accordance with the standards and thicknesses specified in Table 1507.4.3(2) or the material is required to be naturally corrosion resistant.
1507.6.3	Underlayment, mineral-surfaced roll roofing	1507.6.3	Underlayment, mineral-surfaced roll roofing	ASTM D 4869 added as compliance option for underlayment used in mineral-surfaced roll roofing.
1507.7.3	Underlayment, slate shingles	1507.7.3	Underlayment, slate shingles	ASTM D 4869 added as compliance option for underlayment used for slate shingle roofing.
1507.8.3	Underlayment, wood shingles	1507.8.3	Underlayment, wood shingles	ASTM D 4869 added as compliance option for underlayment used for wood shingle roofing.
1507.9.3	Underlayment, wood shakes	1507.9.3	Underlayment, wood shakes	ASTM D 4869 added as compliance option for underlayment used for wood shake roofing.
Table 1507.9.5	Wood shake material requirements	Table 1507.9.5	Wood shake material requirements	AWPA standard for preservative-treated taper sawn shakes of southern pine has been updated to the AWPA U1 (Commodity Specification A, Use Category 3B and Section 5.6).
1507.12.2	Material standards, thermoset single-ply roofing	1507.12.2	Material standards, thermoset single-ply roofing	Reference standards RMA RP-1, RP-2, and RP-3 have been deleted because the standards are not being maintained and are not being published.
1507.13.2	Material standards, thermoplastic single-ply roofing	1507.13.2	Material standards, thermoplastic single-ply roofing	ASTM D 6754 and ASTM D 6878 added as material standard for thermoplastic single-ply roofing.

1507.15.2	Material standards, liquid-applied coatings	1507.15.2	Material standards, liquid-applied coatings	ASTM D 6694 added as material standard for liquid-applied coatings.
1508.1	General, roof insulation	1508.1	General, roof insulation	New exception exempts concrete roof decks with the above-deck thermal insulation covered with an approved covering from the FM 4450 or UL 1256 tests.
-	-	1508.2 Table 1508.2	Material standards for roof insulation	New scoping section and table referencing material standards for minimum physical properties of roof insulation.
1509.4	Cooling towers	1509.4	Cooling towers	Section revised to clarify that the requirements of this section apply to cooling towers installed on roofs more than 50 feet high, not buildings 50 feet high.
1509.5	Towers, spires, domes and cupolas	1509.5	Towers, spires, domes and cupolas	"Grade" changed to "grade plane."
1510.3	Recovering versus replacement	1510.3	Recovering versus replacement	New exception added that permits the application of a new protective coating over an existing spray polyurethane foam roofing system without tear-off of the existing roof covering.
Table 1515.2 HVHZ	Minimum slope	Table 1515.2 HVHZ	Minimum slope	Table revised to delete the minimum slope requirements for structural metal panels.
1517.15.2 HVHZ	Tin caps	1517.15.2 HVHZ	Tin caps	Editorial revision clarifying that corrosion resistance is to be in accordance with TAS 114.
1518.8.1.1 HVHZ	Roof tile mortar	1518.8.1.1 HVHZ	Roof tile mortar	Editorial revision clarifying that job-site mixed roof tile mortar is to be in accordance with RAS 113.
1521.12 HVHZ	Moisture content of existing roofing, reroofing	1521.12 HVHZ	Moisture content of existing roofing, reroofing	Section revised to change "insulation system" to "commercially manufactured rigid board roof insulation." Existing lightweight insulating concrete, gypsum, and cementitious wood fiber roof decks are exempt from moisture content testing. All existing lightweight insulating concrete, gypsum, and cementitious wood fiber roof decks are required to be tested in accordance with Section 1521.7 to confirm compliance with Chapter 16 (HVHZ).
1521.21 HVHZ	Existing ventilation	1521.21 HVHZ	Existing ventilation	New exception permits elimination of attic ventilation provided the attic space is designed by a Florida licensed engineer or registered architect.

1522.2 HVHZ	Rooftop mounted equipment	1522.2 HVHZ	Rooftop mounted equipment	Section revised to require a permanent means of access where equipment and appliances are installed on roofs or elevated structures at a height exceeding 16 feet. Minimum design criteria provided for the installation of permanent ladders.
1523.6.5.2.6.3 HVHZ	Fiber cement shingles or tile panels, testing	1523.6.5.2.6.3 HVHZ	Fiber cement shingles or tile panels, testing	Editorial revision to change "TAS 115" to "RAS 115."
1524.1 HVHZ	Required owners notification for roofing considerations	1524.1 HVHZ	Required owners notification for roofing considerations	Item 2 editorial revised to add "of the Florida Building Code, Building." Exception added to Item 7 permitting elimination of attic ventilation provided the attic space is designed by a Florida licensed engineer or registered architect.
Chapter 16: Structural Design				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1602	Definitions: Boundary members	1602	Definitions: Boundary members	Definition deleted.
1602	Definitions: Cantilevered column system	1602	Definitions: Cantilevered column system	Definition deleted.
1602	Definitions: Collector elements	1602	Definitions: Collector elements	Definition deleted.
1602	Definitions: Confined region	1602	Definitions: Confined region	Definition deleted.
1602	Definitions: Dead load	1602	Definitions: Dead load	Definition revised to more specifically identify certain fixed service equipment that is assumed to be a dead load, such as plumbing stacks, risers, electrical feeders, HVAC systems, and fire sprinklers.
1602	Definitions: Deformability	1602	Definitions: Deformability	Definition deleted.
1602	Definitions: Deformation	1602	Definitions: Deformation	Definition deleted.
1602	Definitions: Diaphragm, flexible	1602	Definitions: Diaphragm, flexible	Definition revised to refer to Section 12.3.1 of ASCE 7 for determination of when a diaphragm is considered flexible
1602	Definitions: Element	1602	Definitions: Element	Definition deleted.
1602	Definitions: Equipment support	1602	Definitions: Equipment support	Definition deleted.
-	-	1602	Definitions: Fabric partition	New definition for fabric partition added for compliance with new Section 1607.13.1.
1602	Definitions: Flexible equipment connections	1602	Definitions: Flexible equipment connections	Definition deleted.

1602	Definitions: Frame	1602	Definitions: Frame	Definition deleted.
1602	Definitions: Joint	1602	Definitions: Joint	Definition deleted.
-	-	1602	Definitions: Occupancy category	New definition for occupancy category for revised Table 1604.5
1602	Definitions: P-delta effect	1602	Definitions: P-delta effect	Definition deleted.
1602	Definitions: Shallow anchors	1602	Definitions: Shallow anchors	Definition deleted.
1602	Definitions: Shear panel	1602	Definitions: Shear panel	Definition deleted.
1602	Definitions: Shear wall	1602	Definitions: Shear wall	Definition deleted.
1602	Definitions: Space frame	1602	Definitions: Space frame	Definition deleted.
1602	Definitions: Special transverse reinforcement	1602	Definitions: Special transverse reinforcement	Definition deleted.
-	-	1602	Definitions: Vehicle barrier system	New definition of vehicle barrier system added.
1602	Definitions: Wall, load bearing	1602	Definitions: Wall, load bearing	Definition deleted.
1602	Definitions: Wall, nonload bearing	1602	Definitions: Wall, nonload bearing	Definition deleted.
1603.1.1	Floor live load	1603.1.1	Floor live load	Section revised to clarify that the use of live load reductions in accordance with Section 1607.9 are to be indicated for each type of live load used in the design.
1603.4	Occupancy permits for changed loads	1603.4	Occupancy permits for changed loads	Exemption for residential structures for having live loads shown on construction documents has been deleted. Language requiring live loads to be shown on each drawing has been deleted since this requirement is covered elsewhere in the code.
Table 1604.3	Deflection limits	Table 1604.3	Deflection limits	Note h revised to include skylights and sloped glazing supported by aluminum structural members.
1604.3.3	Steel, serviceability	1604.3.3	Steel, serviceability	Reference standards for determination of deflections of steel structural members have been updated to AISC 360, AISI-NAS, AISI-General, AISI-Truss, ASCE 3, ASCE 8, SJI JG-1.1, SJI K-1.1 or SJI LH/DLH-1.1, as applicable.
1604.4	Analysis	1604.4	Analysis	Section revised to clarify that where diaphragms are flexible the increased forces resulting from torsion due to eccentricity is not applicable.
1604.5	Importance factor	1604.5	Occupancy category	Importance factors are no longer included in Table 1604.5. Buildings are now simply given an occupant category. Importance factors are determined from ASCE 7. Section revised to require that buildings be assigned an occupant category.

-	-	1604.5.1	Multiple occupancies	<p>New section addressing how to deal with buildings that have multiple occupancies not included in the same group.</p> <p>Requires the building to be assigned the classification having the highest occupancy category unless the occupancies are structurally separated. If the separated occupancies share life safety components, both are required to be assigned the higher category.</p>
Table 1604.5	Classification of buildings and other structures for importance factors	Table 1604.5	Occupancy category of buildings and other structures	<p>Importance factors have been deleted from the table. Importance factors are now determined from ASCE 7.</p> <p>Criteria from Occupancy Category III has been revised to clarify the applicability of the "where more than 300 people congregate in one area." The language now states, "Covered structures whose primary occupancy is public assembly with an occupant load greater than 300." This clarifies that large commercial structures shouldn't be classified as Occupancy Category III, even if the occupant load exceeds 300, since this type of building is typically not used for public assembly.</p>
1605.2.1 1605.2.2	Basic load combinations, load and resistance factor design	1605.2.1 1605.2.2	Basic load combinations, load and resistance factor design	Load combinations revised by incorporating the effects of F, H, and T in the equations for consistency with ASCE 7.
1605.3.1 1605.3.1.1 1605.3.1.2	Basic load combinations, allowable stress design	1605.3.1 1605.3.1.1 1605.3.1.2	Basic load combinations, allowable stress design	<p>Load combinations revised by incorporating the effects of F, H, and T in the equations for consistency with ASCE 7.</p> <p>Provision permitting the combined effect of multiple transient loads to multiplied by 0.75 and added to the effect of dead load has been specifically included in the load combination equations. However, Item 1 of Section 1605.3.1.1 was inadvertently not deleted. This discrepancy will like be fixed during the 2008 Glitch cycle.</p>
1605.3.2	Alternate basic load combinations	1605.3.2	Alternate basic load combinations	<p>New language requiring that the reduction of foundation overturning from 12.13.4 in ASCE 7 is not permitted to be used when these alternate load combinations are used.</p> <p>See also Section 1609.1.3 below for additional revisions.</p>

1605.5	Heliports and helistops	1605.5	Heliports and helistops	<p>Language revised to remove "touchdown" areas and refer to "landing" area for simplicity and clarification.</p> <p>New exception permits landing areas design for helicopters with gross weights not exceeding 3000 lbs to be designed for a uniform live load of 40 psf, without any live load reductions. Weight limitations required to be posted in bottom right corner of the landing area.</p>
1606.1	General, dead loads	1606.1	General, dead loads	Section revised to simply refer to the definition of dead load in Section 1602.1. New language clarifying that dead loads are considered permanent loads.
Table 1607.1	Minimum uniformly distributed live loads and minimum concentrated live loads	Table 1607.1	Minimum uniformly distributed live loads and minimum concentrated live loads	<p>Item 4. Assembly - Follow spot, projections and control rooms deleted. Catwalks removed from assembly category and relocated as specific Item 7. Catwalks live loads revised to include a 300 lb concentrated live load.</p> <p>Item 21. Hospitals - Wards deleted from hospitals entry and private rooms changed to "patient rooms."</p> <p>Item 28. Residential - Live loads for attics has been revised to redefine "uninhabitable attics with storage" to "uninhabitable attics with limited storage". New notes "i,j, and k have been added to more specifically define attics "without storage" and attics "with limited storage." Attic spaces served by a fixed stair are required to be designed to support the minimum live load specified for habitable attics and sleeping rooms.</p> <p>30. Roofs - live loads for roofs have been mostly relocated from Section 1607.11 to Table 1607.1 for consistency with ASCE 7.</p>
1607.5	Partition loads	1607.5	Partition loads	Partition loads in office buildings where partitions are subject to change, has been revised to 15 psf from 20 psf for consistency with ASCE 7.
1607.7.1	Handrails and guards	1607.7.1	Handrails and guards	New sentence added that provides a reference to Section 2407 for glass handrail assemblies and guards. Exception 2 was revised to state "less than 50" from "not greater than 50" for clarity.

1607.9	Reduction in live loads	1607.9	Reduction in live loads	Section revised to preclude the use of live load reductions for roof uniform live loads.
1607.9.1.1	Heavy live loads	1607.9.1.1	Heavy live loads	Section reformatted for clarity. Exception added that permits additional live load reductions where shown by the registered design professional, and approved by the building official, that a rational approach has been used and such reductions are warranted.
1607.9.2	Alternate floor live load reduction	1607.9.2	Alternate floor live load reduction	Item 2 revised to change "columns" to "members supporting two or more floors." New Item 3 added prohibiting reductions for passenger vehicle parking garages, except that live loads for members supporting two or more floors are permitted to be reduced to a maximum of 20 percent. Item 4 has been reformatted for clarity.
1607.11	Roof loads	1607.11	Roof loads	Live loads for roofs have been mostly relocated from Section 1607.11 to Table 1607.1 for consistency with ASCE 7.
1607.13	Interior walls and partitions	1607.13	Interior walls and partitions	New exception added that exempts fabric partitions complying with Section 1607.13..1 from the minimum 5 psf horizontal load.
-	-	1607.13.1	Fabric partitions	New section requiring fabric partitions exceeding 6 feet in height to resist a horizontal load of 5 psf and a concentrated load of 40 pounds. Application of the horizontal uniform and concentrated load is also addressed.
1609.1	Application, wind loads	1609.1	Application, wind loads	New language added requiring wall coverings and soffits to be capable of resisting design pressures specified for walls using component and cladding loads.

1609.1.1	Determination of wind loads	1609.1.1	Determination of wind loads	<p>Section revised to permit opening protection required, basic wind speed, and exposure category to be determined from Section 1609 or ASCE 7.</p> <p>New note added clarifying the applicability of the Figure 6-10 in ASCE 7. The language incorporates the Florida Building Commissions action on DCA05-DEC-220.</p> <p>Exception 1 permitting wind loads to be determined in accordance with Section 1609.6 has been deleted due to Section 1609.6 being deleted.</p>
1609.1.2	Minimum wind loads	-	-	Section deleted because requirements are covered in ASCE 7.
1609.1.3	Anchorage against overturning, uplift, and sliding	1604.9	Counteracting structural actions	Section relocated to more appropriate General Design Requirements section. Language addressing the use of dead load as the "minimum dead load likely to be in place for the event being designed, has been deleted since it is already covered in ASCE 7.
		1605.3.2	Alternate basic load combinations	Provisions regarding the use of 2/3 of the minimum dead load likely to be in place for the event being designed when dead and wind are counteracting loads, has been relocated to Section 1605.3.2.
1609.1.4	Protection of openings	1609.1.2	Protection of openings	Language requiring impact-resistant coverings to be tested to 1.5 times the design pressure has been relocated to Section 1609.1.2.2.1.
		1609.1.2.2.1	Impact-resistant coverings	
-	-	1609.1.2.2.2	Impact-resistant coverings, labeling	New section requiring impact-resistant coverings to be labeled in accordance with Section 1714.8.
1609.2	Definitions: Buildings and other structures, flexible	1609.2	Definitions: Buildings and other structures, flexible	Definition deleted.
1609.2	Definitions: Building, enclosed	1609.2	Definitions: Building, enclosed	Definition deleted.
1609.2	Definitions: Building, low-rise	1609.2	Definitions: Building, low-rise	Definition deleted.
1609.2	Definitions: Building, open	1609.2	Definitions: Building, open	Definition deleted.
1609.2	Definitions: Building, partially enclosed	1609.2	Definitions: Building, partially enclosed	Definition deleted.
1609.2	Definitions: Building, simple diaphragm	1609.2	Definitions: Building, simple diaphragm	Definition deleted.

1609.2	Definitions: Components and cladding	1609.2	Definitions: Components and cladding	Definition deleted.
1609.2	Definitions: Effective wind area	1609.2	Definitions: Effective wind area	Definition deleted.
1609.2	Definitions: Importance factor, I_w	1609.2	Definitions: Importance factor, I_w	Definition deleted.
1609.2	Definitions: Main windforce-resisting system	1609.2	Definitions: Main windforce-resisting system	Definition deleted.
1609.2	Definitions: Mean roof height	1609.2	Definitions: Mean roof height	Definition deleted.
1609.3.1	Wind speed conversion	1609.3.1	Wind speed conversion	Equation added that permits wind speeds to be converted from 3-second gust wind speeds to fastest-mile in accordance with Table 1609.3.1 or new equation.
1609.4	Exposure category	1609.4	Exposure category	New exception permits an the determination of an intermediate exposure in a transition zone when determined by a rational analysis. Definitions of exposure categories is relocated to Section 1609.4.3.
		1609.4.3	Exposure categories	Exposure C has been revised to clarify the effect of open patches. Requires buildings in Exposure B-type terrain to be categorized as Exposure C where the building is within 100 feet horizontally in any direction of Exposure C-type terrain that extends more than 600 feet and width greater than 150 feet. Exposure C is required to extend downwind for a distance of 1500 feet. For buildings located within 600 feet of inland bodies of water with a fetch of 1 mile or more, roof sheathing uplift and roof-to-wall uplift loads are required to be increased by 20%. Exposure D has been revised to state "This exposure is not applicable in Florida."
-	-	1609.4.1	Wind directions and sectors	New section requiring exposure categories to be determined for the two upwind sectors extending 45 degrees from either side of the wind direction. The exposure resulting in the highest wind loads is required to be used for that direction.

-	-	1609.4.2	Surface roughness categories	<p>New section requiring the ground surface roughness to be determined within each 45 degree sector for the distance upwind as specified for each exposure category. Surface roughness is used to determine the exposure category for the site.</p> <p>Three surface "roughness" categories are identified:</p> <p>Surface Roughness B Surface Roughness C Surface Roughness D</p>
1609.5	Importance factor	-	-	Section deleted because requirements are covered in ASCE 7.
1609.6	Simplified provisions for low-rise buildings	-	-	Simplified wind load method for low-rise buildings has been deleted because the same method is covered in ASCE 7.
1609.7.1	Roof deck	1609.5.1	Roof deck	Requires the roof deck to be designed for wind pressures determined from ASCE 7.
1609.7.2	Roof coverings	1609.5.2	Roof coverings	Section revised to include new language requiring asphalt shingles to be tested to determine the resistance of the sealant to uplift forces using ASTM D 6381. Permits asphalt shingles to be designed using UL 2390 to determine the appropriate uplift and force coefficients.
1611.2	Ponding instability	1611.2	Ponding instability	Section revised to refer to Section 8.4 of ASCE 7 for verification of adequate stiffness to preclude progressive deflection as result of ponding instability.
-	-	1618.4.6.4	Railing	New section requiring that when posts supporting the top rail of exterior railings are substituted with the glass, the assembly is required to be tested to TAS 201, where the impacted glass continues to support the top rail and all applicable loads after impact.

Chapter 17: Structural Tests and Special Inspections				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1702.1	Definition: Fabricated Item	1702.1	Definition: Fabricated Item	Revised definition by changing "plywood" to "wood structural panel."
	-		Definition: Garage door manufacturer	New definition added for garage door manufacturer.
	-		Definition: Main Wind-Force Resisting System	New definition added for main wind-force resisting system. Definition is consistent with definition for MWFRS in Section 1609.2 in the 2004 FBCB.
	-		Definition: Permanent Label	New definition added for permanent label.
1703.4.1	Research and investigation	1703.4.1	Research and investigation	Replaced "cost offsets" with "costs" since offsets is not universally recognized and could be misunderstood.
1714.5.2.1	Testing and labeling, exterior window and door assemblies	1714.5.2.1	Testing and labeling, exterior window and door assemblies	<p>New language that limits the use of one design pressure rating per reference standard per permanent label.</p> <p>New language requiring exterior windows and glass doors to be labeled with a temporary supplemental label applied by the manufacturer. Specific criteria for information required on the label is provided. Permits the temporary supplemental label to be removed upon final approval by the building official.</p> <p>Requires the permanent label to be the default label in the event the temporary label is missing or no longer legible for final approval by the building official.</p>

1714.5.2.1.1	Testing and labeling of skylights	1714.5.2.1.1	Testing and labeling of skylights	<p>Requires skylights to be labeled with a permanent label. Adds the products model/series number as information to be included on the label.</p> <p>New language that limits the use of one design pressure rating per reference standard per permanent label.</p> <p>New language requiring exterior skylights to be labeled with a temporary supplemental label applied by the manufacturer. Specific criteria for information required on the label is provided. Permits the temporary supplemental label to be removed upon final approval by the building official.</p> <p>Requires the permanent label to be the default label in the event the temporary label is missing or no longer legible for final approval by the building official.</p>
1714.5.2.2	Supplemental label	1714.5.2.2	Supplemental label	<p>Adds 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S.2/A440 reference standard applicable to the use of a temporary supplemental label conforming to AAMA 203.</p> <p>Permits the use of comparative analysis for operable windows and glazed doors and fixed windows with specific criteria provided for performing the analysis.</p>
-	-	1714.5.3.4	Garage door labeling	<p>New section requiring garage doors to be labeled with an approved permanent label provided by the manufacturer.</p> <p>Specific criteria for information required on the label is provided.</p> <p>Requires installation instructions to be provided and available on the job site.</p>
1714.5.5.1	Mullions	1714.5.5.1	Mullions	Provisions in Section 1714.5.1.1, 1714.5.1.2, and 1714.5.1.3 have been relocated to Section 1714.5.5.1.
		1714.5.5.1.1	Engineered mullions	
		1714.5.5.1.2	Mullions tested as stand-alone units	Permits mullions to be tested in accordance with ASTM E 330 or TAS 202 (HVHZ is required to comply with TAS 202) in
		1714.5.5.1.3	Mullions tested as assembly	

1714.5.5.4	Structural safety factor, mullions	1714.5.5.4	Structural safety factor, mullions	Section revised to only apply to mullions that are tested by an approved testing laboratory. Requires mullions to be capable of resisting 1.5 times the design pressure sustained for 10 seconds with the permanent deformation not exceeding 0.2 percent of the mullion span for assemblies requiring deflection limitations, and 0.4 percent of the mullion span for all other assemblies. Additional performance criteria provided.
-	-	1714.8	Impact-resistant coverings, labeling	New section requiring impact-resistant coverings to be provided with a permanent label supplied by the manufacturer. Criteria for location of label and information required on the label is specified. Specific installation criteria is also provided.
1715.1.1	Test standard for joist hangers	1715.1.1	Test standard for joist hangers	Last sentence is revised to more appropriately refer to "headers" instead of "hangers" where specific gravities are discussed. New exception states that the joist length for the testing is not required to exceed 24 inches so that during the test, the joist doesn't fail before hanger.
1715.1.2	Vertical load capacity of joist hangers	1715.1.2	Vertical load capacity of joist hangers	Added "minimum" to the required number of tests because additional tests may be desirable. Items 1 and 2 were revised to clarify that the load for a single hanger is required to be used. In Item 2, the average ultimate load is revised to be divided by 3 instead of 6. Items 3, 4, and 5 were revised for clarity.
1715.1.3	Torsional moment capacity for joist hangers	1715.1.3	Torsional moment capacity for joist hangers	Section revised to remove "for normal duration of loading" for allowable torsional moment because the torsional moment capacity is not permitted to be increased for duration of load.
1715.1.4	Design value modifications for joist hangers	1715.1.4	Design value modifications for joist hangers	Deleted incorrect reference to Section 2305.1.

Chapter 18: Soils and Foundations				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1802.2.1	Questionable soil	1802.2.1	Questionable soil	Revised language to change "safe-sustaining power" to "strength characteristics" regarding the soil condition.
1803.3	Site grading	1803.3	Site grading	Revised section to add alternative for situations where there may be obstructions or when a full 10-feet of distance isn't obtainable, and in this case, a 5% slope shall be provided. Also added that swales used for diversion shall be sloped at min of 2% away from the building when located within 10 feet of foundation.
1804.2	Presumptive load-bearing values	1804.2	Presumptive load-bearing values	Revised language to remove "at or" regarding soil surface. Current language implies that the values in Table 1804.2 may be applied at ground surface.
1805.2.1	Frost protection	1805.2.1	Frost protection	Revised Exception 2 to apply to areas of 600 square feet or less for light-frame construction to and 400 square feet or less for other than light-frame construction.
1805.4.1.1	Design loads	1805.4.1.1	Design loads	Revised language from "shall include" to "is permitted" regarding dead load allowances.
1805.4.5	Timber footings	1805.4.5	Timber footings	Revised section's reference to AWPA C22 to "U1 (Commodity Specification A, Use Category 4B)" - the AWPA new use category system. Also added term "treated" to pile support requirement.
1805.4.6	Wood foundations	1805.4.6	Wood foundations	
1805.5	Foundation walls	1805.5	Foundation walls	Revised section to add reference to new table 1805.5(5).
Table 1805.5(1)	Plain masonry and plain concrete foundation walls	Table 1805.5(1)	Plain masonry and plain concrete foundation walls	Revised for editorial change - replaced column heading "Height of Unbalanced Backfill" with "Unbalanced Backfill Height" to align heading to the definition/meaning provided in this chapter.

Table 1805.5(2)	6-inch concrete and masonry foundation walls with reinforcing	Table 1805.5(2)	6-inch concrete and masonry foundation walls with reinforcement	<p>Revised for editorial change - replaced column heading "Height of Unbalanced Backfill" with "Unbalanced Backfill Height" to align heading to the definition/meaning provided in this chapter. Also revised title of Table to replace term "reinforcing" with "reinforcement."</p> <p>Wall heights have been modified so that they are on an even module of 8 inches.</p> <p>Reinforcement size and spacings have been updated to reflection changes in ACI 530/ASCE 5/TMS 402.</p> <p>A 10 foot wall height was added as this is becoming common in construction practice.</p>
Table 1805.5(3)	10-inch concrete and masonry foundation walls with reinforcing	Table 1805.5(3)	10-inch concrete and masonry foundation walls with reinforcement	Concrete foundations walls have been removed and provided in Table 1805.5(5).
Table 1805.5(4)	12-inch concrete and masonry foundation walls with reinforcing	Table 1805.5(4)	12-inch concrete and masonry foundation walls with reinforcement	
-	-	Table 1805.5(5)	Concrete foundation walls	Added Table for concrete foundation walls, which allows for a separate table application for both masonry and concrete. With concrete separated into separate table, the appropriate material design standards (ACI) can be used.
1805.5.1.1	Thickness at foundation walls	1805.5.1.1	Thickness at foundation walls	Revised title from "thickness based on wall" to "thickness at foundation walls" for clarity of section intent. Revised section to require a that the top corbel on an 8" wall not extend past the bottom of the floor framing. For structural integrity, the corbel shall be tied to the veneer and the void filled with grout.

1805.5.1.2	Thickness based on soil loads, unbalanced backfill height and wall height	1805.5.1.2	Thickness based on soil loads, unbalanced backfill height and wall height	Majority of revisions to these sections intended to separate the foundation requirements for concrete foundation walls from masonry foundation walls. New Table 1805.5(5) provides prescriptive designs for concrete foundation walls.
1805.5.2	Foundation wall material	1805.5.2	Foundation wall material	
-	-	1805.5.2.1	Concrete foundation walls	
-	-	1805.5.2.2	Masonry foundation walls	
1805.5.3	Alternative Foundation wall reinforcement	1805.5.3	Alternative Foundation wall reinforcement	
1805.7.1	Lateral bearing limitations	1805.7.1	Lateral bearing limitations	Revised section's reference from AWPA C22 to "AWPA U1 (Commodity Specification A, Use Category 4B)" - the AWPA new use category system.
1805.8.2	Slab on grade foundations	1805.8.2	Slab on grade foundations	Revised section to provide consistent requirements for shallow ground-supported foundations on expansive soils.
1807.1.1	Story above grade	1807.1.1	Story above grade plane	Revised section title and section language from "grade" to "grade plane."
1807.3.1	Waterproofing and dampproofing of floors	1807.3.1	Waterproofing and dampproofing of floors	Revised section to add fully adhered/fully bonded HPDE or polyolefin composite membrane as an option for waterproofing floors.
1808.1	Pier and pile foundations - definition for micropiles	1808.1	Pier and pile foundations - definition for micropiles	Added definition for micropiles to allow for requirements to be added to code that not previously provided. Added definition for timber piles.
1808.2.6	Piles and piers structural integrity	1808.2.6	Piles and piers structural integrity	Editorial change to eliminate duplication of words.
1808.2.8.3	Load tests	1808.2.8.3	Load tests	Editorial change to add "axial" to reference to load capacity. Also added "driven with the same hammer" to reference of equal supporting capacity.
1808.2.8.3.1	Load test evaluation	1808.2.8.3.1	Load test evaluation	Revised section to replace number 3 "Chin-Konder Extrapolation" with Butler-Hoy Criterion" to discourage extrapolation methods which can overestimate the safe ultimate bearing capacity; however, these methods may be still be allowed through number 4's "other methods" if needed.

1808.2.8.4	Allowable frictional resistance	1808.2.8.4	Allowable frictional resistance	Revised section to include reference to Section 1808.2.8.3, which allows the use of an exception when verified by actual load test.
1808.2.11	Piles in subsiding areas	1808.2.11	Piles in subsiding areas	Revised language from "driven" to "installed" since section applies to <i>all</i> piles.
1809.1.2	Preservative treatment	1809.1.2	Preservative treatment	Revised section's reference to AWWA C22 to "U1 (Commodity Specification A, Use Category 4B)" - the AWWA new use category system.
1809.1.3	Defective piles	1809.1.3	Defective piles	Revised title of section from "End supported" to "Defective piles" to clarify that the piles do not have to be end supported to be defective. Also revised section to include clarification in terms and replace "driving resistance" with "rate of penetration" so that language is more consistent with 1808.2.8.2.
-	-	1809.1.4	Allowable stresses	Added new section to stress to the designer where the design stresses for timber piles are located.
1809.2.3.3	Allowable stresses	1809.2.3.3	Allowable stresses	Removed the term "maximum" from section.
1809.3.1	Structural steel pile materials	1809.3.1	Structural steel pile materials	Revised section to add references ASTM A 690 and ASTM A 992.
1809.3.4	Dimensions of steel pipe piles	1809.3.4	Dimensions of steel pipe piles	Revised section to add to the rule of thumb of "referenced pile hammer energy" to also include the wave equation as an alternate determination for adequacy of steel pipe piles. Also changed pipe wall thickness from "0.188" to "0.179", which is a thickness of a common pipe size.
1810.3.1	Allowable stresses for drilled or augured uncased piles	1810.3.1	Allowable stresses for drilled or augured uncased piles	Revised language to require that both augured cast-in-place piles be the same as the design value for drilled uncased piles. Also, revised allowable compressive strength for both from "34" to "40" percent of the yield strength of steel.
1810.3.3	Installation	1810.3.3	Installation	Revised section to eliminate "in increments of about 12 inches each" to avoid confusion of possible starting and stopping during withdrawal as opposed to the intent of measurements taken every 12 inches during withdrawal.
1810.3.4	Reinforcement	1810.3.4	Reinforcement	Revised section to state "stem" rather than "ducts" to provide a clearer interpretation as well as to utilize the industry practice.
1810.6.5	Placing concrete	1810.6.5	Placing concrete	Revised section to add statement to allow concrete to be chuted directly into pipe (w/out a hopper), and thus recognizing an accepted industry practice.

-	-	1810.8	Micropiles	Added section and definition for micropiles.
-	-	1810.8.1	Construction	Added new requirements to address the installation and construction of micropiles. Micropiles are defined as bored- or grouted-in-place piles no more than 12 inches in diameter and incorporating steel pipe casing and/or steel reinforcement.
-	-	1810.8.2	Materials	
-	-	1810.8.3	Allowable stresses	
-	-	1810.8.4	Reinforcement	
-	-	1810.8.5	Micropile installations	
1816.1.8	Termiticide after changes in framing	1816.1.8	Termiticide after changes in framing	Section modified to require changes in framing or additions to framing in areas of the structure requiring treatment that occur after the initial wood treatment must be treated prior to final building approval.
1816.2.1	Penetration	1816.2.1	Penetration	Added section 1816.2.2 and moved scope from 1816.2 to new section.
1816.2.2	Protective sleeves, requirements	1816.2.2	Protective sleeves, requirements	Specific requirements for sleeves have been added which include: 1. The sleeve shall have a nominal thickness of 0.025 inch. 2. The sleeve shall be sized for the pipe. 3. The sleeve shall be sealed within the slab using a noncorrosive mechanical clamping device to eliminate the annular space between the pipe and pipe sleeve.

Chapter 19: Concrete

2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
1901 through 1908	Concrete	1901 through 1908	Concrete	The majority of the technical provisions contained in Chapter 19 regarding concrete have been deleted and replaced with the applicable references to ACI 318.
1909.1	Scope for structural plain concrete	1909.1	Scope for structural plain concrete	Revised section to add "as modified in Section 1908" to reference document changes to ACI 318.
1909.2	Limitations of structural plain concrete	1909.2	Limitations of structural plain concrete	Revised section to modify reference for additional information on use of structural plain concrete from "1910" to "1908.1.15."
1909.4	Design of structural plain concrete	1909.4	Design of structural plain concrete	Revised section exception to remove reference to Section 101.2, which previously implied that buildings subject to the IRC are not entitled to use the exception. Removal of reference provides clarification of the applicability to any Group R-3 occupancy.
1913.1	Anchorage to concrete strength design	1912.1	Anchorage to concrete strength design	Revised compliance of design to add "ACI 318 as modified by Section 1908.1.16, provided they are within the scope of Appendix D."

1917	Lightweight Insulation Concrete Fill	1917	Lightweight Insulating Concrete Roof Deck	Revised section title.
1917.1	Lightweight Insulation Concrete Fill	1917.1	Lightweight Insulation Concrete	Revised section title to remove the term "fill."
1917.1.1	Aggregate lightweight insulating concrete	1917.1.1	Aggregate lightweight insulating concrete	Editorial changes for clarification and removed the term "fill" and the reference "C 796."
1917.1.2	Cellular lightweight insulating concrete	1917.1.2	Cellular lightweight insulating concrete	Revised section to remove the term "fill" and add "preformed" to clarify the type of foam.
1917.1.3	Cellular/aggregate lightweight insulating concrete	1917.1.3	Cellular/aggregate lightweight insulating concrete	Revised section to remove the term "fill" and add "preformed" to clarify the type of foam. Editorial change to revise term "import" to "impart" and replace the term "fill" with "concrete."
1917.1.4	Walkability	1917.1.4	Walkability	Editorial changes to remove the term "fill" and add "foot" to "foot traffic."
1917.2.1	Inspection	1917.2.1	Inspection	Revised description of requirement for control approval from "lightweight insulation concrete fill systems" to "lightweight insulating concrete systems."
1917.2.4	Foot traffic	1917.2.4	Foot traffic	Revised language to remove "24 hours after placement" and replace with "once the roof deck system can support foot traffic" in regard to when building official shall inspect.
1917.3	Testing	1917.3	Testing	Editorial changes to remove the term "fill."
1917.3.1	Roof assemblies testing	1917.3.1	Roof assemblies testing	
1917.4	Materials and limitations	1917.4	Materials and limitations	
1917.4.1	Materials and limitations	1917.4.1	Materials and limitations	
1917.4.2	Material thickness	1917.4.2	Material thickness	Editorial changes to remove the term "fill" and to specify the thickness receive the "specified" (not specific) base ply fastener "length."
1917.4.3	Minimum compressive strength	-	-	Section information was removed and section is "reserved."
1917.4.10	Insulating concrete fastener withdrawal	1917.4.10	Insulating concrete fastener withdrawal	Editorial change to remove the term "fill."
1917.4.11	Expansion joints	1917.4.11	Expansion joints	Editorial change to remove the term "fill." Also removed the term "contraction" in regards to expansion joints.

1917.4.12	Material and limitations - insulation board	1917.4.12	Material and limitations - insulation board	Revised section, added item number 1 to add reference information for insulation board delivered to the job site to comply with labeling and identification.
				Renumbered item 1 to Item 2 and revised section to require installation to comply with manufacturer's Product Control Approval, as opposed to providing specific continuous pour information.
1917.4.13	Reinforcing mesh	1917.4.13	Reinforcing mesh	Editorial change to clarify that mesh will be provided "as required" not "when necessary" and removed item number 1 regarding fibers.
1926.5.5	Exterior Balcony slabs	1926.5.5	Exterior Balcony slabs	Revised section to remove specific requirements and items 1 through 5 and add "shall be designed and constructed in accordance with the provisions of ACI 318."

Chapter 20: Aluminum

2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2001.1	Scope	2001.1	Scope	"Light metal alloys" changed to "Aluminum."
2002.2.1	Definitions	2002.2.1	Definitions	Definition of Primary Members revised to include "eave rail, purlins, and roof brace." Definition of Secondary Members revised to include "wall brace."
Table 2002.4	Design wind pressures for aluminum screen enclosures	Table 2002.4	Design wind pressures for aluminum screen enclosures	Note 2 editorially revised to remove "or less" clarifying that the pressures in the table apply to enclosures with a mean enclosure height of 30 feet. Factors in Table 2002.4 are to be used for other heights.
2002.6	Sunrooms	2002.6	Sunrooms	Section revised to provide sunroom categories from AAMA/NPEA/NSA 2100.
2003.2 HVHZ	Standards	2003.2 HVHZ	Standards	Section revised to require the design, fabrication, and erection of structural aluminum to conform to the Aluminum Design Manual
2003.4 HVHZ	Definitions	2003.4 HVHZ	Definitions	Section revised by deleting previous definitions and refer to Section 2002.2.1 for definitions pertinent to structural aluminum.

Chapter 21: Masonry				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2101.2	Design methods	2101.2	Design methods	Changed "working" stress to "allowable" stress.
2101.2.1	Working stress design	2101.2.1	Allowable stress design	
2101.2.2	Strength design	2101.2.2	Strength design	New language added requiring AAC masonry to comply with Chapter 1 and Appendix A of ACI 530/ASCE 5/TMS 402.
2101.2.5	Glass unit masonry	2101.2.5	Glass unit masonry	Revised section to add "unit" to "glass unit" and also revised language to remove wordiness.
2101.2.6	Masonry veneer	2101.2.6	Masonry veneer	Added additional reference to Chapter 6 of ACI 530/ASCE 5/TMS 402.
-	-	2101.2.7	Prescriptive methods	New section added that permits compliance with the applicable prescriptive standards referenced in Section 1609.1.1.
2102.1	Masonry Definitions	2102.1	<i>New definitions</i>	Additional definitions have been added to this section to reflect the revisions to ACI 530/ASCE 5/TMS 402.
-	-		Foundation pier	
-	-		Glass masonry unit	
-	-		<i>New definitions - Masonry</i>	
-	-		Ashlar masonry	
-	-		Coursed ashlar	
-	-		Glass unit masonry	
-	-		Plain masonry	
-	-		Random ashlar	
-	-		Reinforced masonry	
-	-		Solid masonry	
-	-		Unreinforced (plain) masonry	
2103.2	Clay or shale masonry units	2103.2	Clay or shale masonry units	Revised section to add ASTM C 1405 reference for glazed brick.
-	-	2103.3	AAC masonry	New section requiring AAC masonry units to conform to ASTM C 1386.
2103.9.2	Electrically conductive dry-set mortars	-	-	Removed section and renumbered subsequent sections - product is no longer manufactured.

-	-	2103.11	Mortar for ACC masonry	Added section. Autoclaved aerated concrete (AAC) is being utilized more extensively in the industry and added section(s) provides compliance information and references.
-	-	2103.11.1	Thin-bed mortar for ACC masonry	
-	-	2103.11.2	Mortar for leveling courses of ACC masonry	
2103.11.4	Wire fabric	2103.11.4	Wire fabric	Reference standard for welded deformed steel wire fabric has been updated to ASTM A 497.
2103.11.5	Anchors ties and accessories	2103.13.5	Anchors ties and accessories	Removed reference to ASTM A 167, Type 304 and added more detailed and specific references for chromium, chromium-nickel stainless steel, anchor bolts and flat rolled stainless for clarify of requirements for each.
2103.11.6	Prestressed tendons	2103.13.6	Prestressed tendons	Revised section exception number 2 to remove reference to ASTM A 616.
2103.11.7	Corrosion protection	2103.13.7	Corrosion protection	Revised section to separate prestressing tendons and the anchors, couplers, and end blocks and provide separate reference requirements for each.
2103.11.7.1	Hot dipped galvanized	2103.13.7.2	Hot dipped galvanized	Mostly editorial revisions for consistency with ACI 530/ASCE 5/TMS 402..
2103.11.7.2	Epoxy coatings	2103.13.7.3	Epoxy coatings	Mostly editorial revisions for consistency with ACI 530/ASCE 5/TMS 402..
2103.11.7.3	Mill galvanized	2103.13.7.1	Mill galvanized	Mostly editorial revisions for consistency with ACI 530/ASCE 5/TMS 402..
2104.1.2	Placing mortar and units	2104.1.2	Placing mortar and units	Section revised to include specific references for placing clay and concrete masonry units.
-	-	2104.1.2.6	Thin-bed mortar and AAC masonry units	Added section to provide intent and clear application of the test standards for thin-bed mortar used in ACC masonry applications.
-	-	2104.1.2.7	Grouted masonry	Added section to provide application requirements for grout to prevent cold joints.
2104.2	Corbelled masonry	2104.2	Corbelled masonry	More specific requirements for corbelled masonry have been provided for consistency with ACI 530/ASCE 5/TMS 402.
2104.3.2.2	Temperature and construction requirements	2104.3.2.2	Temperature and construction requirements	Added item number 3 to this section to include minimum temperature requirements for installation of thin-bed mortar.
-	-	2104.3.3.2	AAC masonry	Added section to provide temperature requirements for ACC masonry applications. Also renumbered subsequent sections.

2104.4.2.1	Temperature and mortar	2104.4.2.1	Temperature and mortar	Revised section to add requirements for AAC masonry by the addition of items 5 (mortar spread no more than 4' ahead) and item number 6 (units placed w/in 1 minute of thin-bed mortar placement).
2105.2.1	Compressive strength compliance	2105.2.1	Compressive strength compliance	Added compliance requirements for compressive strength of AAC masonry.
2105.2.2.1.1	Clay masonry	2105.2.2.1.1	Clay masonry	Editorial change to add "or exceeds" to minimum compressive strength requirement.
2105.2.2.1.2	Concrete masonry	2105.2.2.1.2	Concrete masonry	
-	-	2105.2.2.1.3	AAC masonry	Added new section and reference for requirements of AAC masonry.
2105.2.2.2.1	Prism test method	2105.2.2.2.1	Prism test method	Revised section to add "clay and concrete" to the description of masonry.
2107.1	General, working stress design	2107.1	General, allowable stress design	Permits lap splices to be in accordance with ACI 530/ASCE 5/TMS 402 or Section 2107.3 or 2107.5 as specified by the architect or engineer. Permits development of bars in tension to be in accordance with ACI 530/ASCE 5/TMS 402 or Section 2107.4 as specified by the architect or engineer.
2107.2.2	Masonry columns	2107.2	Masonry columns	Relocated section and provided statement to add ACI 2.1.6.6 light frame construction. Requirements remain the same, change is editorial regarding the reference to ACI addition.
2107.2.3	Lap splices	2107.3	Lap splices	Relocated section. Requirements remain the same, change is editorial regarding the reference to ACI addition.
2107.2.4	Maximum bar size	-	-	Deleted section.
2107.2.5	Splices for large bars	-	-	Deleted section.
2107.2.6	Maximum reinforcement percentage	-	-	Deleted section.
-	-	2107.4	Development of bars in tension	Added new requirements for development of bars in tension.
-	-	2107.5	Splices of reinforcement	Added section providing additional requirements for splicing.
2108.1	Scope for strength design of masonry	2108.1	Scope for strength design of masonry	Revised section referenced to remove reference to 2106 and to add reference to modifications in section 2108.2 through 2108.3. Revised exceptions to move exception 1 information to number 2 and add new number 1 for AAC masonry exception.

2108.2	Masonry stress	2108.2	Development	Deleted section from the 2004 Code and replaced with modification of ACI 530/ASCE 5/TMS 402 for development.
2108.3	Splices	-	-	Section deleted.
2108.4	Tensile reinforcement	2108.3	Tensile reinforcement	Revisions for consistency with ACI 530/ASCE 5/TMS 402.
2110.2.1	Standard units	2110.2.1	Standard units	Editorial change to add that thickness of units shall be "at least" 3 7/8 inches.
2110.4.1	Isolation	2110.4.1	General requirements for glass unit masonry panels	Revised section title to better reflect intent.
-	-	2110.4.2.1	Support on wood construction	New section permitting glass unit masonry with an installed weight of 40 psf or less and maximum height of 12 feet to be supported on wood construction. Revisions for consistency with ACI 530/ASCE 5/TMS 402.
-	-	2110.4.2.2	Expansion joint	New section requiring an expansion joint for glass masonry supported on wood construction. Revisions for consistency with ACI 530/ASCE 5/TMS 402.
2111.1	Scope for masonry fireplaces	2111.1	Scope for masonry fireplaces	Revised section to remove reference to Table and Figure in this section. Figure and Table were outdated and not necessary and therefore removed.
Figure 2111.1	Fireplace and Chimney Details	-	-	
Table 2111.1	Summary of Requirements for Masonry Fireplaces and Chimneys	-	-	
2111.11	Fireplace clearance	2111.11	Fireplace clearance	Revised exception number 4 to allow for flexibility for combustible materials along sides of fireplaces in recognition that radiant heat is a greater problem for materials above the opening.
2111.12	Mantel and trim	-	-	Deleted section due to redundancy within the code.
2112	Masonry heaters	2112	Masonry heaters	Section entirely rewritten for consistency with the requirements in the FBCR and standards referenced in new language.
-	-	2113.10.1	Masonry veneer chimneys	Added section to provide requirements for masonry veneer over wood or metal frame chimneys, also subject to same requirements as other veneer applications.
2113.12	Flue lining installation	2113.12	Clay flue lining installation	Revised title and language in section from "flue" lining to "clay flue" lining.
Table 2113.16(2)	Net cross-sectional area of square and rectangular flue sizes	Table 2113.16(2)	Net cross-sectional area of square and rectangular flue sizes	Revised table to express flue liners by their nominal exterior dimensions as commonly used In addition, the 8 x 16 size was eliminated since it's no longer manufactured.

2115.1	Gable end walls	2115.1	Gable end walls	Added scope information: Gable endwalls shall be structurally continuous between points of lateral support.
2120.3	Unreinforced masonry	2120.3	Unreinforced masonry	Revised section to add term "axial" regarding the type of tension. New language added permitting flexural tension in un-reinforced masonry per ACI 530.
Chapter 22: Steel				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2202	Definitions	2202	Definitions	Definition for "Adjusted Shear Resistance, Type I Shear Wall, Type II Shear Wall, Type II Shear Wall Segment, and Unadjusted Shear Resistance" deleted with deference to the AISI-Lateral standard. Figure 2202.1 and all Nomenclature deleted as well.
2203.2	Protection	2203.2	Protection	Reference standard for painting of structural steel has been updated to AISC 360.
2205.1	General, structural steel	2205.1	General, structural steel	Reference standard for design, fabrication and erection of structural steel has been updated to AISC 360.
2206.1	General, steel joists	2206.1	General, steel joists	Reference standards for design, manufacture and use of open web steel joists and joist girders has been updated to SJI K-1.1, SJI LH/DLH-1.1, and SJI JG-1.1.
-	-	2206.2	Design, steel joists	New provisions providing criteria for design, calculations, drawings, and certification of steel joists and joist girders.
-	-	2206.3	Calculations, steel joists	
-	-	2206.4	Steel joist drawings	
-	-	2206.5	Certification, steel joists	
2209.1	General, cold-formed steel	2209.1	General, cold-formed steel	Reference standard for design of cold-formed carbon and low-alloy steel structural members has been updated to AISI-NAS.
2210.1	General, cold-formed steel light-framed construction	2210.1	General, cold-formed steel light-framed construction	Reference standard for design, installation and construction of cold-formed carbon or low-alloy steel, structural and nonstructural steel framing has been updated to AISI-NAS.
2210.2	Headers, cold-formed steel light-framed construction	2210.2	Headers, cold-formed steel light-framed construction	Section revised to include single L-headers. Reference standard for design and installation of headers has been updated to AISI-Header.
2210.3	Trusses, cold-formed steel light-framed construction	2210.3	Trusses, cold-formed steel light-framed construction	Reference standard for design, quality assurance, installation and testing of cold-formed steel trusses has been updated to AISI-Truss.

-	-	2210.4	Wall stud design, cold-formed steel light-framed construction	New section requiring the design and installation of cold-formed steel studs for structural and non-structural walls to be in accordance with AISI-WSD.
-	-	2210.5	Lateral design, cold-formed steel light-framed construction	New section requiring the design of light-framed cold-formed steel walls and diaphragms to resist wind loads to be in accordance with AISI-Lateral.
-	-	2210.6	Prescriptive framing, cold-formed steel light-framed construction	New section permitting the use of AISI-PM for detached one- and two-family dwellings and townhouses up to two stories in height.
2211	Cold-formed steel light-framed shear walls	-	-	Section deleted in deference to AISI-Lateral.
2222.4.7 HVHZ	Allowable stress increase	-	-	Section prohibiting metal building siding and roof decking from being designed with a 1/3 allowable stress increase for wind has been deleted because this limitation is covered elsewhere in the code.

Chapter 23: Wood

2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2301.2	General design requirements	2301.2	General design requirements	Revised language from "shall be based on" to "shall be in accordance." Editorial change to remove sections 2302.1, 2302.2 and 2302.3 but relocate information to items numbers in this section to provide clarification of specific methods.
2302.1	Definitions - Adjusted shear resistance	-	-	Definition deleted and specifics related to the its use have been relocated within the code sections pertaining to the perforated shear wall method.
-	-	2302.1	Definitions - Prefabricated wood I-joist	Added definition to align with corresponding AF&PA terms.
2302.1	Definitions - Shear wall	2302.1	Definitions - Shear wall	Revised shear wall definition perforated shearwall and perforated shear wall segment as sub-definitions for correlation with changes to the perforated shear wall method.
-	-	2302.1	Definitions - Structural composite lumber	Added definition to align with corresponding AF&PA terms.
2302.1	Definitions - Structural glued-laminated timber	2302.1	Definitions - Structural glued-laminated timber	Revised definition to align with corresponding AF&PA terms.
2302.1	Definitions - Oriented stand board (OSB)	2302.1	Definitions - Oriented stand board (OSB)	
2302.1	Definitions - Plywood	2302.1	Definitions - Plywood	

2302.1	Definitions - Unadjusted shear resistance	-	-	Definition deleted and specifics related to the its use have been relocated within the code sections pertaining to the perforated shear wall method.
2303.1	Minimum standards and quality	2303.1	Minimum standards and quality	Added structural log members, structural composite lumber, round timber poles and piles, nails and staple to list of applicable products covered by this section.
2303.1.5	Fiberboard	2303.1.5	Fiberboard	Replaced reference to ANSI/AHA A194.1 with ASTM C208, the recognized specification for cellulosic fiberboards.
2303.1.5.4	Insulating roof deck	-	-	Section deleted. Insulating fiberboard roof deck product is no longer manufactured.
2303.1.8	Preservative treated wood	2303.1.8	Preservative treated wood	All referenced standards for preservative-treated wood would have been deleted and replaced with a reference to AWPA U1 and M4 for the species, product, preservative, and end use of preservative-treated wood.
-	-	2303.1.10	Structural log members	New section added providing reference standard and grading of structural log and timber members.
-	-	2303.1.11	Round timber poles and piles	
2303.2.2.2	Fire-retardant-treated wood	2303.2.2.2	Fire-retardant-treated wood	Revised section to replace, "in accordance with approved method of investigation" with new ASTM D 6841 standard developed to evaluate the ASTM D 5664 test data.
2303.4	Trusses	2303.4	Trusses	Revised section to remove information regarding manufacturing and inspecting and replaced with overall truss scope for design.
-	-	2303.4.1.1	Truss designer	Added section to define truss designer.
2303.4.1	Truss design drawings	2303.4.1.2	Truss design drawings	<p>The requirement that a registered design professional prepare the truss drawings has been deleted.</p> <p>Unnecessary language was removed from Item 17.</p> <p>Item 18 has been revised to provide an exception to providing the required permanent individual truss member bracing on the truss design drawings, where a bracing plan has been provided by a registered design professional.</p> <p>New requirements for signing and sealing the truss design drawings have been added.</p>

-	-	2303.4.1.3	Truss placement diagram	New section added to essentially define the truss placement diagram in order to distinguish it from other documents such as installation documents, construction documents, etc.
-	-	2303.4.1.4	Truss submittal package	New criteria for and definition of truss submittal package added.
-	-	2303.4.1.5	Truss member permanent bracing	New section added providing specific criteria for bracing trusses.
-	-	2303.4.1.6	Anchorage	New section added to clarify that transfer of design loads throughout the building is the responsibility of the registered design professional.
-	-	2303.4.1.7	Alterations to trusses	Section relocated from Section 2308.10.7.3 since these requirements apply to all trusses not just ones installed where the conventional construction provisions of Section 2308 are used.
-	-	2303.4.2	Metal-plate-connected trusses	Most of information in this section was relocated from Section 2303.4.
2303.6	Nails and staples	2303.6	Nails and staples	Section revised regarding the bending strength of nails to indicate that a 100 ksi yield strength is required for shank diameters of at least 0.099 inches but not larger than 0.142 inches.
2304.8	Mechanically laminated floors and decks	2304.8	Lumber decking	Revised title to indicate that the provisions cover all decking including mechanically laminated and solid sawn decking.

-	-	2304.8.2	Layup patterns	Sections added as a result of eliminating reference to AITC 112 in Section 2306.1. New sections now address the provisions and requirements of lumber decking that were previously covered in AITC 112.
-	-	2304.8.2.1	Simple span pattern	
-	-	2304.8.2.2	Two-span continuous pattern	
-	-	2304.8.2.3	Combination simple and two-span	
-	-	2304.8.2.4	Cantilevered pieces intermixed pattern	
-	-	2304.8.2.5	Controlled random pattern	
-	-	2304.8.3	Mechanically laminated decking	
-	-	2304.8.3.1	General	
-	-	2304.8.3.2	Nailing	
-	-	2304.8.3.3	Controlled random pattern	
-	-	2304.8.4	Two-inch sawn tongue-and-groove decking	
-	-	2304.8.4.1	General	
-	-	2304.8.4.2	Nailing	
-	-	2304.8.4.3	Controlled random pattern	
-	-	2304.8.5	Three-and4-inch sawn tongue-and-groove decking	
-	-	2304.8.5.1	General	
-	-	2304.8.5.2	Nailing	
-	-	2304.8.5.3	Controlled random pattern	
2304.9.5	Fasteners in preservative-treated and fire-retardant-treated wood.	2304.9.5	Fasteners in preservative-treated and fire-retardant-treated wood.	Revised section by subdividing fastener requirements for preservative-treated wood, wood foundations, and fire-retardant-treated wood into separate sections.
-	-	2304.9.5.1	Fasteners for preservative treated wood	Requires fasteners for preservative-treated wood to have coating weights for zinc-coated fasteners to be in accordance with ASTM A 153. Exception permits fasteners, other than nails and timber rivets, of mechanically deposited zinc-coated steel to have coating weights in accordance with ASTM B 695, Class 55 minimum.
-	-	2304.9.5.2	Fastenings for wood foundations	New section containing the reference to AF&PA TR No. 7 for wood foundations previously contained in Section 2304.9.5.

-	-	2304.9.5.3	Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations	New section specific to fasteners used for fire-retardant-treated wood in exterior applications. Permits fasteners other than nails, timber rivets, lag screws and wood screws to be mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum.
-	-	2304.9.5.4	Fasteners for fire-retardant-treated wood used in interior applications	New section specific to fasteners used for fire-retardant-treated wood in interior applications. Requires fasteners to be in accordance with manufacturer's specifications.
Table 2304.9.1	Fastening Schedule	Table 2304.9.1	Fastening Schedule	Revised entire table and footnotes to add nail size (shank length and diameter). The addition will assist to ensure proper nail type and size by adding the information to the pennyweight system currently utilized.
2304.11.2	Protection of decay and termites for wood used above ground	2304.11.2	Protection of decay and termites for wood used above ground	Replaced all standard references with AWPA U1.
2304.11.2.2	Framing	2304.11.2.2	Wood supported by exterior foundation	Revised title for both sections to establish distinct sections for requirements of both above grade and below grade.
2304.11.2.3	Sleepers and sills	2304.11.2.3	Exterior walls below grade	
2304.11.3	Laminated timbers	2304.11.3	Laminated timbers	Revised to add "from moisture" for clarification.
2304.11.4.1	Posts or columns	2304.11.4.1	Posts or columns	Editorial revision to add "that is" to itemize each intent within the section.
2304.11.6	Termite protection	2304.11.6	Termite protection	Added AWPA U1, or user specification standard, for clarification.
2304.11.7	Wood used in retaining walls and cribs	2304.11.7	Wood used in retaining walls and cribs	
2304.12	Wood supporting masonry or concrete	2304.12	Long-term loading	Section completely revised and now permits wood members to support concrete or masonry provided checks for long-term loading using the AF&PA NDS.
2305.1	Lateral-force-resisting systems	2305.1	Lateral-force-resisting systems	Revised section to permit compliance with AF&PA SDPWS as an alternative to Section 2305.
2305.2.2	Deflection	2305.2.2	Deflection	New table added to provide for use in determining diaphragm deflections.
-	-	Table 2305.2.2(1)	Values for use in calculating diaphragm deflection due to fastener slip	
2305.2.4	Construction - wood diaphragms	2305.2.4	Construction - wood diaphragms	Revised section to move information about shear walls to the appropriate location in Section 2305.3.3.
-	-	Table 2305.2.2(2)	Values of Gt	New table added to provide for use in determining diaphragm deflections.

2305.2.5	Rigid diaphragms	2305.2.5	Rigid diaphragms	Revised references from "9.5.2.3" to 12.3.2" and for horizontal shear distribution revised from "9.5.5.5" to "12.8.4."
Equation 23-2 2305.3.2	Deflection	Equation 23-2 2305.3.2	Deflection	Method for calculation shear wall deflection have been revised for consistency with the AF&PA SDPWS.
-	-	2305.3.3	Construction - shear walls	Pertinent information about shear wall construction relocated from Section 2305.2.4.
2305.3.3	Shear wall aspect ratios	2305.3.4	Shear wall aspect ratios	Revised section to clarify the inclusion of piers in shear wall dimensions and also added references for the height and width determinations.
Table 2305.3.3	Shear wall aspect ratios	Table 2305.3.4	Shear wall dimension ratios	Renamed table to Maximum shear wall dimension ratios. Footnote b revised language from "aspect ratio" to height-to-width" ratio.
2305.3.4	Shear wall height definition	2305.3.5	Shear wall height definition	Added "h" to denote wall height for table.
-	-	2305.3.5.1	Perforated shear wall segment height definition	The determination of the shear wall height has been revised to clarify the differences between the different methods for designing shear walls (perforated, force transfer, etc.)
-	-	2305.3.5.2	Force transfer shear wall pier height definition	
2305.3.5	Shear wall width definition	2305.3.6	Shear wall height definition	The determination of the shear wall width has been revised to clarify the differences between the different methods for designing shear walls (perforated, force transfer, etc.)
-	-	2305.3.6.1	Perforated shear wall segment width definition	
-	-	2305.3.6.2	Force transfer shear wall pier width definition	
2305.3.7.2	Perforated shear walls	2305.3.8.2	Perforated shear walls	Revised section to add references for the height and width determinations.
2305.7.2.2	Perforated shear wall resistance	2305.8.2.2	Perforated shear wall resistance	Added Item 3 to clarify the determination of the unadjusted shear resistance for the upper limits on height-to-width ratios.
2305.3.7.2.5	Anchorage for in-plane shear	2305.3.8.2.5	Anchorage for in-plane shear	Revised section to remove "drag struts" parenthetical notation.
2306.1	List of applicable standards	2306.1	List of applicable standards	Removed AITC 500 since methods to determine design values for structural glued laminated timber are now included and reference in ASTM D3737.
2306.1	List of applicable standards	2306.1	List of applicable standards	Revised "Plywood" design specification to "Panel" design specification under APA.

-	-	2306.1.4	Lumber decking	Added section and table for lumber decking. Section references new table for allowable loads. This addition incorporates pertinent provisions from AITC no longer referenced in code.
-	-	Table 2306.1.4	Allowable loads for lumber decking	
2306.2.1	Wind provisions for wall stud bending stress increase	2306.2.1	Wind provisions for wall stud bending stress increase	Revised language to clarify that sheathing is not only attached to studs, but that they must "occur" over studs or blocking.
Table 2306.2	Wall stud bending stress increase factors	Table 2306.2	Wall stud bending stress increase factors	Revised factors for 2 x 6 and 2 x 8 studs that were incorrect due to rounding errors.
-	-	2306.3.1	Wood structural panel diaphragms	New section providing scope, references and standards for wood structural panel diaphragms.
2306.3.2	Shear capacities modifications	2306.3.2	Shear capacities modifications	Added reference to Table 2306.3.2 permitting the 40% increase for wind design for High Load Diaphragms.
Table 2306.3.1	Recommended shear for wood structural panel diaphragms	Table 2306.3.1	Allowable shear for wood structural panel diaphragms	Revised title to replace "recommended" with "allowable" for consistency with other table titles. Added actual nail dimensions in parenthesis next to the penny weight.
2306.4.1	Wood structural panel shear walls	2306.4.1	Wood structural panel shear walls	Revised reference for wood structural panel design from "APA/PDS" to "APA Panel Design Specification."
2306.4.4	Fiberboard shear walls	2306.4.4	Fiberboard shear walls	Revised reference in section from "Table 2308.9.3(4)" to "Table 2306.4.4."
2306.4.5.1.3	Nailing	2306.4.5.1.3	Fastening	Revised language from "nails" to "fastener(s)(ing)."
2306.4.5.1.4	Fasteners	2306.4.5.1.4	Fasteners	
2307.1	Load and resistance factor design	2307.1	Load and resistance factor design	Revised scope to remove parenthetical (LRFD) and to replaced reference to ASCE 16 with AF&PA NDS.
2328.2 HVHZ	Fencing	2328.2 HVHZ	Fencing	Revised administrative error to correct "8-inch" to "8-feet" and corresponding "203mm" to "2438 mm."
Chapter 24: Glass and Glazing				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2403.1	Identification for glass	2403.1	Identification for glass	Revised manufacturer's "label" to manufacturer's "mark." Laser etched added as a method for applying the identification mark for tempered glass.
2405.5	Unit skylights	2405.5	Unit skylights	Updated the reference standard throughout this section to AAMA/WDMA/CSA 101/I.S.2/A440.

2406.1.2	Wired glass	-	-	Section deleted. Wired glass is not permitted to be used as a glazing material in hazardous locations.
2406.2	Identification of safety glass	2406.2	Identification of safety glass	Revised section and exceptions for consistency of utilizing the terms label, mark and manufacturer's designation. Identification for safety glazing was revised from "label" to "manufacturer's designation." Also added clarification that a label as described in Section 1702 will also meet the requirements.
2406.2.1	Multilight assemblies	2406.2.1	Multilight assemblies	Section previously allowed for the assembly to be marked with CPSC 16 CFR 1201 or ANSI Z97. Section was revised to remove the ANSI allowance since it doesn't meet full intent of this section.
2407.1	Glass in handrails and guards	2407.1	Glass in handrails and guards	Revised language (no change to technical portion of code) to revise "structural balustrade panels in railings" to "a handrail assembly or a guard section."
2407.1.3	Parking garages	2407.1.3	Parking garages	Revised language from "railings" to "handrails or guards."
2409.1	Glass in floors and sidewalks	-	-	Removed entire section. Code and references currently do not fully address the design requirements for this section and therefore section is removed and glass in floors applications will be engineered by a registered design professional as opposed to attempting to address specific requirements in this section.
-	-	2409	Glass in elevator enclosures	New section added requiring glass in elevator enclosures to comply with ANSI Z97.1 or 16 CFR Part 1201..
2411.3.2.1 HVHZ	Operative window and door assemblies in HVHZ	2411.3.2.1 HVHZ	Operative window and door assemblies in HVHZ	Added exception number 3 to include pass-through windows for serving from single-family kitchen.
2411.3.2.5 HVHZ	Window and door assembly tests	2411.3.2.5 HVHZ	Window and door assembly tests	Revised section item number 7 to move information from this item to exception number 3 of 2411.3.2.1. a more appropriate location for the exception. New item number 7 limits the compared unit to the maximum cyclic pressure when tested to TAS 203.
2411.3.2.6 HVHZ	Fixed glass windows	2411.3.2.6 HVHZ	Fixed glass windows	New item number 8 limits the compared unit to the maximum cyclic pressure when tested to TAS 203.
-	-	2411.3.3.7 HVHZ	Exterior lite of glass	Requires the exterior lite of glass in an insulated glazing unit to be safety glazing. Exceptions provided for large missile impact resistant glazed assemblies and other assemblies protected by shutters.
-	-	2411.3.4 HVHZ	Gaskets in glazing systems	Added new section to provide list of ASTM standards applicable for gasket use in glazing.

Chapter 25: Gypsum Board and Plaster				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2509.2	Base for tile	2509.2	Base for tile	Section revised requiring the use of cement, fiber-cement, or glass mat gypsum backer as a base for wall tile in tub and shower areas and wall and ceiling panels in shower areas. Water-resistant gypsum backing board permitted to be used as a base for tile water closet compartment walls.
2510.5.2.1	Gypsum backing board for stucco	2510.5.2.1	Gypsum backing board for stucco	Revised language from "weather-resistant" to "water-resistant."
2510.5.2.2	Gypsum sheathing for stucco	2510.5.2.2	Gypsum sheathing for stucco	
2510.6	Water-resistive barriers	2510.6	Water-resistive barriers	Revised language in title and in section from "weather-resistant" to "water-resistive." Exception added for commonly used alternative to 2 layers of Grade D paper.
2510.8	Sealing at plaster and fenestration	2510.8	Sealing at plaster and fenestration	New section requiring the juncture of exterior plaster and fenestrations products to be sealed, in accordance with the standards referenced.
2512.1.2	Plaster and weep screeds	2512.1.2	Plaster and weep screeds	Revised language from "weather-resistant" to "water-resistant."
Chapter 26: Plastic				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
2603.4.1.12	Interior Signs	2603.4.1.12	Interior Signs	Added additional sentence regarding foam plastic signs not affixed to interior surfaces. This addition provides a cross reference to the FFPC.
2603.8	Special Approval	2603.9	Special Approval	Referenced large-scale tests revised require the use of the acceptance criteria of Section 803.2 when using NFPA 286.
2603.9	Protection against termite damage	2603.8	Protection against termite damage	Relocated section.
2603.9.1				
2603.9.2				
2606.7.5	Electrical lighting fixtures	2606.7.5	Electrical luminaires	Revised language for title and in section from "lighting fixtures" to "luminaires."
2606.10	Light transmitting plastics for awnings, patio covers and similar structures	2606.10	Light transmitting plastics for awnings, patio covers and similar structures	Editorial revision to remove "and appendages" from regarding projections.

Chapter 30: Elevators and Conveying Systems				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
3001.2	Hoistway enclosure protection	3001.2	Hoistway enclosure protection	Revised references in section from a broad reference to chapter 6 to a more specific reference of Section 707 (shaft enclosures) and 715 (Opening Protectives).
3002.1.1	Hoistway enclosure opening protectives	3002.1.1	Hoistway enclosure opening protectives	Added exception to section to clarify coordination with ASME A17.1.
3002.4	Elevator accommodation for ambulance stretcher	3002.4	Elevator accommodation for ambulance stretcher	Revised language from "four stories in height" to "four or more stories above grade plane or four or more stories below grade plane" for clarification.
-	-	3002.8	Glass in elevator enclosure	Added section for coordination of ASME requirements.
3002.8	Hoistway enclosure automatic fire alarm locations	3002.9	Hoistway enclosure automatic fire alarm locations	Relocated section and revised to remove specific language regarding locations but to add referenced compliance standards.
-	-	3002.9	Hoistway enclosure automatic fire alarm locations	Added section to include, "Automatic fire alarm initiating devices shall be located and installed in accordance with ASME A 17.1 and NFPA 72."
3004.2	Location of vents	3004.2	Location of vents	Revised section to remove "below the floor or floors" from allowable vent locations, which coordinates with requirements of ASME A17. and to eliminate confusion of the term floor since it doesn't specify "floor of penthouse."
3004.3	Area of vents	3004.3	Area of vents	Revised section to include requirement regarding closed portions of the required vent area. Also added exception to allow vents to be closed except when needed to vent hot gasses.
3004.4	Closed vents	-	-	Removed section. Relocated information to 3004.3 to editorially clarify intent stated above.
3005.2.1	Escalator enclosure	3005.2.1	Escalator enclosure	Revision is editorial to clarify that shaft enclosures are what enclose escalator openings.
3005.3.1	Conveyor enclosure	3005.3.1	Conveyor enclosure	Revised references in section from a broad reference to chapter 6 to a more specific reference of Section 707 (shaft enclosures) and 715 (Opening Protectives).
3006.4	Machine rooms and machinery spaces	3006.4	Machine rooms and machinery spaces	Section revised language from specifying that rooms must be enclosed with construction that has a fire-resistance rating, to a more specific requirement of "fire barrier complying with Section 706 or 711."

Chapter 31: Special Construction				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
3102.3.1	Membrane structures and interior liner material	3102.3.1	Membrane structures and interior liner material	Revised language in exception from "flame resistant" to, "in accordance with NFPA 701" to clarify that the term flame-resistant is not an equivalent requirement to NFPA fire propagation performance.
3102.6.1.1	Membrane	3102.6.1.1	Membrane	Revised title from "Flame-resistant membrane" to "Membrane." Also removed the term flame-resistant from the section and added the standard for the criteria of NFPA 701.
3102.8.3	Support provisions for inflation systems	3102.8.3	Support provisions for inflation systems	Revised language from "more than 50" to "50 or more" for consistency throughout the code.
3104.3	Pedestrian walkways and tunnels	3104.3	Pedestrian walkways and tunnels	Revised section to add exception 2 to clarify the allowance of fire-retardant-treated wood for walkways.
3104.5	Fire barriers between pedestrian walkways and buildings	3104.5	Fire barriers between pedestrian walkways and buildings	Revised exception 1 to add "except for open parking garages" due to their limited fire hazard.
3104.11	Ventilation for pedestrian walkways and tunnels	-	-	Removed section. Requirement isn't necessary and was based on older code requirements.
3105.4	Awning and canopy designs	3105.4	Awning and canopy designs	Revised language in exception from "flame resistant" to, "in accordance with NFPA 701" to clarify that the term flame-resistant is not an equivalent requirement to NFPA fire propagation performance.
Chapter 32: Encroachments into the Public Right-of-Way				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
3201.2	Encroachment measurement	3201.2	Encroachment measurement	Revised section to remove the term "appendage" and add "or portion thereof" in reference to projections of the structure.

Chapter 33: Safeguards During Construction				
2004 FBCB		2007 FBCB		Analysis
Section	Requirement	Section	Requirement	
3310.1	Stairways required	3310.1	Stairways required	Revised section to require temporary lighted stairway for height greater than "one story," and remove height allowance of "four stories." Added requirement, "During construction, the stairway shall be enclosed where the building exterior walls are in place."
3310.3	Stairway floor number signs	3310.3	Stairway floor number signs	Added section to require floor number signs in accordance with Section 1020.1.6 for temporary stairways.