

**SUPPLEMENT TO FLORIDA BUILDING CODE**

THE INSTRUCTION “Add Section 12.1.1 as follows:” with green arrow, should be “Add Section 1612.1.1 as follows:”

**Chapter 1612 Flood Loads**

**Add Section 12.1.1 as follow:**



1612.1.1 Cross references. See Table 1612.1.

A FEW EDITS AND ADDITIONS TO THE NEW TABLE 1612.1 – because this is guidance only and not “code” I assume these changes can be made editorially

**Pink** indicates needs correcting, **blue** is the correction.

**Yellow** indicates additions that should have been picked up, they point to section of the base code that weren’t modified. In the part of the table for the Existing Building Code, the addition of Chapter 2/202 and correctly listing Additions (Sec 302), Alterations (Sec 303) and Repairs (304) will prompt reformatting of the table – I’ve simply expanded the cell, but given the organization, there should be some shifting. See below where I’ve clipped out JUST the Existing Building, and reformatted it

1612.1.1 Cross references. See Table 1612.1.

Table 1612.1			
CROSS REFERENCES DEFINING FLOOD RESISTANT PROVISIONS OF THE <i>FLORIDA BUILDING CODE</i>			
Florida Building Code – Building			
Section		Section	
Chapter 1	Administration	Chapter 14	Exterior Walls
102	Applicability	1403	Performance Requirements
107	Construction Documents		
110	Inspections	Chapter 16	Structural Design
111	Certificates of Occupancy and Completion	1601	General
		1603	Construction Documents
Chapter 2	Definitions	1605	Load Combinations
202	Definitions	1612	Flood Loads

Chapter 4	Special Detailed Requirements Based on Use and Occupancy	Chapter 18	Soils and Foundations
419	Hospitals	1801	General
420	Nursing Homes	1803 1804	Excavation, Grading and Fill
424	Swimming Pools and Bathing Places (Public And Private)	1807	Dampproofing and Waterproofing
Chapter 8	Interior Finishes	Chapter 30	Elevators and Conveying Systems
801	General	3001	General
Chapter 12	Interior Environment	Chapter 31	Special Construction
1203	Ventilation	3102	Membrane Structures
Florida Building Code – Residential			
Section		Section	
Chapter 2	Definitions	Chapter 22	Special Piping and Storage Systems
202	Definitions	M2201	Oil Tanks
Chapter 3	Building Planning	Chapter 24	Fuel Gas
R301	Design Criteria	G2404 (301)	General
R309	Garages and Carports		
R322	Flood Resistant Construction	Chapter 26	General Plumbing Requirements
		P2601	General
Chapter 4	Foundations		
R401	General	Chapter 27	Plumbing Fixtures
R408	Under-Floor Space	P2705	Installation
Chapter 13	General Mechanical System Requirements	Chapter 30	Sanitary Drainage
M1301	General	P3001	General
Chapter 14	Heating and Cooling Equipment	Chapter 31	Vents
M1401	General	P3101	Vent Systems
Chapter 16	Duct Systems	Chapter 41	Swimming Pools
M1601	Duct Construction	R4101	Private Swimming Pools
Chapter 17	Combustion Air	Chapter 44	High-Velocity Hurricane Zones
M1701	General	R4403	High-Velocity Hurricane Zones – General
Chapter 20	Boilers and Water Heaters		
M2001	Boilers		

Comment [MSOffice1]: Wrong section number shown

Comment [MSOffice2]: Omitted this chapter/section

Florida Building Code – Existing			
Section		Section	
Chapter 1	Administration	Chapter 10	Additions
101	General	1003	Structural
<b>Chapter 2</b>	<b>Definitions</b>		
<b>202</b>	<b>Definitions</b>		
Chapter 3	Prescriptive Compliance Method	Chapter 11	Historic Buildings
302	<b>Additions</b>	1101	General
<b>303</b>	<b>Alterations</b>		
<b>304</b>	<b>Repairs</b>		
Chapter 5	Repairs	Chapter 12	Relocated or Moved Buildings
501	General	1202	Requirements
506	Structural		
		Chapter 13	Performance Compliance Methods
Chapter 6	Alterations – Level I	1301	General
601	General		
Florida Building Code – Mechanical			
Section		Section	
Chapter 3	General Regulations	Chapter 6	Duct Systems
M301	General	M602	Plenums
		M603	Duct Construction and Installation
Chapter 4	Ventilation		
M401	General	Chapter 12	Hydronic Piping
		M1206	Piping Installation
Chapter 5	Exhaust Systems		
M501	General	Chapter 13	Fuel Oil Piping and Storage
		M1305	Fuel Oil System Installation
Florida Building Code – Plumbing			
Section			
Chapter 3	General Regulations		
P309	Flood Hazard Resistance		
Florida Building Code – Fuel Gas			
Section			
Chapter 3	General Regulations		
FG301	General		

**Comment [MSOffice3]:** This should not have been shown all under Sec. 302 – the base code has separate sections as indicated

**Comment [MSOffice4]:** Inadvertently omitted word from chapter title

THIS SHOWS ONLY THE EXISTING BUILDING PART OF THE TABLE, WITH THE ADDITIONS HIGHLIGHTED IN YELLOW ACCEPTED AND THE FLOW CORRECTED

Florida Building Code – Existing			
Section		Section	
Chapter 1	Administration	Chapter 10	Additions
101	General	1003	Structural
Chapter 2	Definitions	Chapter 11	Historic Buildings
202	Definitions	1101	General
Chapter 3	Prescriptive Compliance Method	Chapter 12	Relocated or Moved Buildings
302	Additions	1202	Requirements
303	Alterations		
304	Repairs		
Chapter 5	Repairs	Chapter 13	Performance Compliance Methods
501	General	1301	General
506	Structural		
Chapter 6	Alterations – Level I		
601	General		

IN TWO PLACES IN 1612.5, EDITORIALY CHANGE REFERENCE to Section 109.3 to Section 110.3, which is where inspections are called out in the FBC

**Revise 1612.5 to read as follows:**

**1612.5 Flood hazard documentation.** The following documentation shall be prepared and sealed by a registered design professional and shall be submitted to the building official:

1. For construction in flood hazard areas not subject to high-velocity wave action:

1.1. The elevation of the lowest floor, including basement, as required by the foundation inspection and the final inspection in Section 109.3.~~lowest floor elevation inspection in Section 109.3.3.~~ 

1.2. For fully enclosed areas below the design flood elevation where provisions to allow for the automatic entry and exit of floodwaters do not meet the minimum requirements in Section 2.6.2.1, ASCE 24, construction documents shall include a statement that the design will provide for equalization of hydrostatic flood forces in accordance with Section 2.6.2.2 of ASCE 24.

**1.3. For dry floodproofed nonresidential buildings, construction documents shall include a statement that the dry floodproofing is designed in accordance with ASCE 24.**

1.3. For dry floodproofed nonresidential buildings, construction documents shall include a statement that the dry floodproofing is designed in accordance with ASCE 24.

2. For construction in flood hazard areas subject to high-velocity wave action:

2.1. The elevation of the bottom of the lowest horizontal structural member as required by the foundation inspection and the final inspection in Section 109.3.~~lowest floor elevation inspection in Section 109.3.3.~~ 

WHY WAS FLOOD DELETED IN THIS SECTION? It is in the base code, so should be retained. Did I miss a proposal that deleted it?

**3102.7 Engineering design. Change to read as shown.**

**3102.7 Engineering design.** The structure shall be designed and constructed to sustain dead loads; loads due to tension or inflation; live loads including wind, snow or flood and seismic loads and in accordance with Chapter 16.

**SUPPLEMENT TO FLORIDA RESIDENTIAL CODE**

RESIDENTIAL PAGE 9 – PROPOSAL #3896 DELETED THE WORD “ONLY” IN THE EXCEPTION – but it is shown as retained in the draft supplement – should read “. . . shall ~~only~~ comply with Sections R302 . . .”

*R301.1 Change to read as shown:*

**R301.1 Application.** Buildings and structures, and all parts thereof, shall be constructed to safely support all loads, including dead loads, live loads, roof loads, flood loads, ~~snow loads,~~ and wind loads ~~and seismic loads~~ as prescribed by this code. The construction of buildings and structures in accordance with the provisions of this code shall result in a system that provides a complete load path that meets all requirements for the transfer of all loads from their point of origin through the load-resisting elements to the foundation. Buildings and structures constructed as prescribed by this code are deemed to comply with the requirements of this section.

**EXCEPTION:** Buildings and structures located within the High Velocity Hurricane Zone shall comply only with Sections R302 to R326, inclusive and the provisions of Chapter

CHAPTER 43 REFERENCED STANDARDS, unnumbered page (257)

THE SUPPLEMENT SHOWS BOTH THE 2007 CITE FOR FIA-TB-11-01 AND THE PROPOSED CHANGES – the text pointed to by green arrow is what is shown as being changed to FEMA-TB-2-08 AND SHOULD BE DELETED BECAUSE IT IS PROPERLY SHOWN RIGHT BELOW

**DHS/FEMA**      **Department of Homeland Security**  
 Federal Emergency Management Agency  
 Federal Center Plaza  
 500 C Street, SW  
 Washington, DC 20472

Standard reference number	Title	Referenced in code section number
<del>CFR 44</del>	<del>Emergency Management and Assistance</del>	
<del>Part 59</del>	<del>Criteria for Land Management Use, General Provisions</del>	
<del>Part 60</del>	<del>Criteria for Land Management Use, Flood Plain Management Regulation</del>	<del>R301.2.4, M1401.5, P2601.3</del>
FIA-TB-11-01		
TB-2-93	Flood-resistant Materials Requirements	<b>R323.1.7</b> 

~~FEMA-TB-2-08 TB-2-93~~      ~~Flood Damage~~-Resistant Materials Requirements  
 R322.1.8

~~FEMA FIA-TB-11-01~~      Crawlspce Construction for Buildings Located in  
 Special Flood Hazard Areas      R408.7

[3900]

CHAPTER 44 HIGH-VELOCITY HURRICANE ZONE

Minor editorial – second line, “flood hazard areas” should be singular (the error is mine, is it plural in the submitted code change proposal).

**SECTION R4403.13**

**RESERVED R4403.13.1 FLOOD RESISTANCE**

**R4403.13.1.1 Flood resistance.** Where the building or structure is located in a flood hazard areas established in Table 301.2(1), the building or structure, including enclosures below elevated buildings, shall be designed and constructed in accordance with Section R322 and this section.

**(3903)**

**SUPPLEMENT TO FLORIDA EXISTING BUILDING CODE**

TOP OF PAGE 4 – THE CODE CHANGE SHOULD BE [3901] – IT IS SHOWN AS [3091]

**2007 Florida Building Code Merged with 2009 Supplement  
Existing Building Volume**

LOCAL FLOODPLAIN MANAGEMENT ORDINANCE. An ordinance or regulation adopted pursuant to the authority granted to local governments by Title 44 Code of Federal Regulations, Sections 59 and 60 for participation in the National Flood Insurance Program. [3091]

BOTTOM OF PAGE 4 – THE CHANGES SHOWN SIMPLY RESTORE THE DEFINITION TO EXACTLY WHAT IS IN THE IEBC – WHY ARE YOU SHOWING THE MODIFICATIONS THAT ACCOMPLISHED THAT?

**SUBSTANTIAL DAMAGE** ~~(for flood hazard areas)~~. Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before-damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred. ~~or as defined in a local floodplain management ordinance.~~ [3901]

**SUBSTANTIAL IMPROVEMENT.** See Section ~~1612-~~3109.2 of the Florida Building Code, Building. [4234]

**SUBSTANTIAL IMPROVEMENT** ~~(for flood hazard areas)~~. Any repair, reconstruction, rehabilitation, addition or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started. ~~or as defined in a local floodplain management ordinance.~~ If the structure has sustained substantial damage, any repairs are considered

PAGE 6 – AS SHOWN BELOW, DOES NOT PRESERVE THE PARAGRAPH FORMAT SHOWN IN THE IEBC, WHICH SHOWS THE LAST SENTENCE AS A SEPARATE PARAGRAPH. COMBINING INTO A SINGLE PARAGRAPH DOESN'T CHANGE MEANING, AND I HAVE NO PROBLEMS WITH SHOWING IT THIS WAY.

PAGE 8, 303.2 – SAME COMMENT

PAGE 10, 304.5 – SAME COMMENT

**302.2 Flood hazard areas. Revise to read as follows:**

**302.2 Flood hazard areas.** For buildings and structures in flood hazard areas established in Section 1612.3 of the *Florida Building Code, Building*, any addition that constitutes *substantial improvement* of the existing structure, as defined in Section 1612.2 of the *Florida Building Code, Building*, shall comply with the flood design requirements for new construction, and all aspects of the existing structure shall be brought into compliance with the requirements for new construction for flood design. For buildings and structures in flood hazard areas established in Section 1612.3 of the *Florida Building Code, Building*, any additions that do not constitute *substantial improvement* or *substantial damage* of the existing structure, as defined in Section 1612.2 of the *Florida Building Code, Building*, are not required to comply with the flood design requirements for new construction.

## SUPPLEMENT TO FLORIDA PLUMBING CODE

BOTTOM OF PAGE 3, TOP OF PAGE 4. At the end of the exception, change to “flooding up to such elevation” which will then be consistent with all similar language, see IMC 301.13, 602.4, 603.13 and 1305.2.1

[B] 309.2 Flood hazard. For structures located in flood hazard areas, the following systems and equipment shall be located ~~at or above~~ and installed as required by Section 1612.4 of the Florida Building Code ~~the design flood elevation.~~

### Florida Supplement to the 2009 IPC

**Exception:** The following systems are permitted to be located below ~~the design flood elevation~~ the elevation required by Section 1612.4 of the Florida Building Code for utilities and attendant equipment provided that the systems are designed and installed to prevent water from entering or accumulating within their components and the systems are constructed to resist hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding up to ~~such~~ the design flood elevation.