

Proposed Code Modifications Detail

Code Change Cycle: 2010 Triennial Original Modification 3/1/2010 - 4/2/2010

TAC: Plumbing

Sub Code: Residential

P3899

1

Date Proposal Submitted	3/26/2010	Section	R4101.4.2
Chapter	41	TAC Recommendation	Pending Review
Affects HVHZ	No	Commission Action	Pending Review
Proponent	Rebecca Quinn	General Comments	No
Attachments	No	Alternate Language	No

Related Modifications

Summary of Modification

Move provisions for pools in flood hazard areas that are found in Appendix G of the IRC into the body of the code. This modification refers back to R322 to determine whether specific requirements apply.

Text of Modification

R4101.4.2 Items not covered. For any items not specifically covered in these requirements, the administrative authority is hereby authorized to require that all equipment, materials, methods of construction and design features shall be proven to function adequately, effectively and without excessive maintenance and operational difficulties.

R4101.4.2.1. Flood hazard areas. Pools installed in flood hazard areas established in Section R322 shall comply with Section R322.2.4 (A Zones) or R322.3.3.1 in coastal high-hazard areas (V Zones).

Rationale

Modifications recommended by FBC Flood Resistant Standards Workgroup, with concurrence by Structural TAC, to retain IRC flood provisions IBC and make Florida-specific amendments. IRC flood provisions are consistent with the NFIP. The FBC adopted the recommendation at its October 2009 meeting. Workgroup's final report is attached to the modification for R322 and <http://consensus.fsu.edu/FBC/Flood-Resistant-Standards.html>

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact; 454 Florida communities participate in the NFIP and administer ordinance that include NFIP requirements (44 CFR 60.3).

Impact to building and property owners relative to cost of compliance with code

No impact; building and property owners already are required to comply with local floodplain management ordinances.

Impact to industry relative to the cost of compliance with code

No impact; building and property owners already are required to comply with local floodplain management ordinances.

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Compliance with flood-resistant provisions reduces flood damage and protects life, property and general welfare.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by having all load requirements addressed; provides equivalency with requirements of local floodplain management ordinances. The requested statutory authority will allow locally-adopted higher standards to preserve better protection and insurance discounts.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Includes provisions for flood damage-resistant materials and methods, consistent with the NFIP and current floodplain management ordinances.

Does not degrade the effectiveness of the code

Improves effectiveness by requiring buildings to be designed and constructed with consideration of all applicable codes.

Proposed Code Modifications Detail

TAC: Special Occupancy

Sub Code: Building

SP388o

1

Date Proposal Submitted	3/25/2010	Section	419, 420, 423, 424
Chapter	4	TAC Recommendation	Pending Review
Affects HVHZ	No	Commission Action	Pending Review
Proponent	Rebecca Quinn	General Comments	No
Attachments	No	Alternate Language	No

Related Modifications

Summary of Modification

Florida-specific mods to Chpt 2, related to consistency with flood provisions of the NFIP. Mods coordinated with applicable State agencies: 419 & 420 (Agency for Health Care Admin); 423 (Office of Educational Facilities). Specified elevations are consistent with ASCE 24, referenced in 1612.

Text of Modification

Coordinated with Skip Gregory, Office of Plans and Construction, Agency for Health Care Administration

419.4.2 Disaster preparedness construction standards.

419.4.2.2 Site standards.

419.4.2.2.1 All new facilities and additions to existing facilities shall be located above the base flood elevation plus 2 ft 400-year flood plain or hurricane Category 3 (Saffir-Simpson scale) hurricane surge inundation elevation, whichever requires the highest elevation; or

419.4.2.2.2 The floor elevation of all new occupied patient area(s) and all patient support area(s) and patient support utilities, including mechanical, electrical (except fuel storage as noted in Section 419.4.2.9.3 of this code) and food services shall be located above the base flood elevation plus 2 ft 400-year flood plain or hurricane Category 3 (Saffir-Simpson scale) hurricane surge inundation elevations, whichever requires the highest elevation.

419.4.2.2.3 New additions or floors added to existing facilities, as determined by their site locations, shall meet either the requirements of Section 419.4.2.2.1 or 419.4.2.2.2 of this Code, or be so designed and constructed as to be in compliance with Section 1627 the current standards of the National Flood Insurance Program of the Federal Emergency management Agency, incorporated by reference and available from Federal Emergency management Agency, Federal Insurance Administration, Attn- Publications, P.O. Box 70274, Washington, D.C. 20024.

419.4.2.2.4 Where an off-site public access route is available to the new facility at or above the base flood elevation 400-year flood plain, a minimum of one on-site emergency access route shall be provided that is located at the same elevation as the public access route.

Coordinated with Skip Gregory, Office of Plans and Construction, Agency for Health Care Administration

420.4.2 Disaster preparedness construction standards.

420.4.2.2 Site standards.

420.4.2.2.1 All new facilities and additions to existing facilities shall be located above the base flood elevation plus 2 ft 400-year flood plain or hurricane Category 3 (Saffir-Simpson scale) hurricane surge inundation elevation, whichever requires the highest elevation, or

420.4.2.2.2 The floor elevation of all new occupied resident area(s) and all resident support area(s) and resident support utilities, including mechanical, electrical (except fuel storage as noted in Section 420.4.2.9.3 of this code) and food services shall be located above the base flood elevation plus 2 ft 400-year flood plain or hurricane Category 3 (Saffir-Simpson scale) hurricane surge inundation elevations, whichever requires the highest elevation.

420.4.2.2.3 New additions or floors added to existing facilities, as determined by their site locations, shall meet either the requirements of Section 420.4.2.2.1 or 420.4.2.2.2 of this code, or be so designed and constructed as to be in compliance with Section 1627 the current standards of the National Flood Insurance Program of the Federal Emergency management Agency, incorporated by reference and available from Federal Emergency management Agency, Federal Insurance Administration, Attn- Publications, P.O. Box 70274, Washington, D.C. 20024.

420.4.2.2.4 Where an off-site public access route is available to the new facility at or above the base flood elevation 400-year flood plain, a minimum of one on-site emergency access route shall be provided that is located at the same elevation as the public access route.

423.4.2 Flood Resistant Construction. [Referenced Documents] FEMA. Federal Emergency Management Agency. Rules and Regulations 44 CFR, Parts 59 and 60, Revised as of October 1, 1995. In Flood Zones A1 through A30, AE, AH, and AO (100-year flood plain) the finished floor at the lowest entry level shall be a minimum 1 foot (305 mm) above the base flood elevation. Educational facilities in flood hazard areas shall comply with ASCE 24.

Proposed Code Modifications Detail

424.1 Public swimming pools and bathing places. Public swimming pools and bathing places shall comply with the design and construction standards of this section.

424.1.1 Flood hazard areas. Public swimming pools installed in flood hazard areas established in Section 1612.3 shall comply with Section 1612.

424.2.4.2 Items not covered. For any items not specifically covered in these requirements, the administrative authority is hereby authorized to require that all equipment, materials, methods of construction and design features shall be proven to function adequately, effectively and without excessive maintenance and operational difficulties.

R424.2.4.2.1 Flood hazard areas. Private swimming pools installed in flood hazard areas established in Section 1612.3 shall comply with Section 1612.

Rationale

Modifications recommended by FBC Flood Resistant Standards Workgroup, with concurrence by Structural TAC, to retain IBC flood provisions IBC and make Florida-specific amendments. IBC flood provisions are consistent with the NFIP. The FBC adopted the recommendation at its October 2009 meeting. Workgroup's final report is attached to the modification for 1612 and <http://consensus.fsu.edu/FBC/Flood-Resistant-Standards.html>

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact; 454 Florida communities participate in the NFIP and administer ordinance that include NFIP requirements (44 CFR 60.3).

Impact to building and property owners relative to cost of compliance with code

No impact; building and property owners already are required to comply with local floodplain management ordinances.

Impact to industry relative to the cost of compliance with code

No impact; building and property owners already are required to comply with local floodplain management ordinances.

Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Compliance with flood-resistant provisions reduces flood damage and protects life, property and general welfare.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by having all load requirements addressed; provides equivalency with requirements of local floodplain management ordinances. The requested statutory authority will allow locally-adopted higher standards to preserve better protection and insurance discounts.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Includes provisions for flood damage-resistant materials and methods, consistent with the NFIP and current floodplain management ordinances.

Does not degrade the effectiveness of the code

Improves effectiveness by requiring buildings to be designed and constructed with consideration of all applicable codes.

Proposed Code Modifications Detail

TAC: Structural

Sub Code: Building

S3891

1

Date Proposal Submitted	3/25/2010	Section	1612
Chapter	16	TAC Recommendation	Pending Review
Affects HVHZ	No	Commission Action	Pending Review
Proponent	Rebecca Quinn	General Comments	No
Attachments	No	Alternate Language	No

Related Modifications

Summary of Modification

Florida-specific modifications to Chapter 16, related to retaining flood provisions of the I-Codes. The Flood Resistant Standards Workgroup recommended a table to show where all flood provisions are located.

Text of Modification

1612.1.1 Cross references. See Table 1612.1.

Table 1612.1
 CROSS REFERENCES DEFINING FLOOD RESISTANT PROVISIONS OF THE *FLORIDA BUILDING CODE*
 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

Proposed Code Modifications Detail

Special Detailed Requirements Based on Use and Occupancy

Chapter 18

Soils and Foundations

419

Hospitals

1801

General

420

Nursing Homes

1803

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

1203

Ventilation

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

Proposed Code Modifications Detail

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

Proposed Code Modifications Detail

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

Florida Building Code – Existing
Section

Section

Chapter 1
Administration
Chapter 10
Additions
101
General
1003
Structural

Chapter 3
Prescriptive Compliance Method
Chapter 11
Historic Buildings
302
Additions, Alterations or Repairs
1101
General

Chapter 5
Repairs
Chapter 12
Relocated or Moved Buildings
501
General
1202
Requirements
506
Structural

Proposed Code Modifications Detail

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 Piping and Storage

M1305
Fuel Oil System Installation

Florida Building Code – Plumbing
Section

Proposed Code Modifications Detail

Chapter 3
General Regulations

P309
Flood Hazard Resistance

Florida Building Code – Fuel Gas
Section

Chapter 3
General Regulations

FG301
General

Rationale

Modifications recommended by FBC Flood Resistant Standards Workgroup, with concurrence by Structural TAC, to retain IBC flood provisions IBC and make Florida-specific amendments. IBC flood provisions are consistent with the NFIP. The FBC adopted the recommendation at its October 2009 meeting. Workgroup's final report is attached to the modification for 1612 and <http://consensus.fsu.edu/FBC/Flood-Resistant-Standards.html>

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Impact to building and property owners relative to cost of compliance with code

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Impact to industry relative to the cost of compliance with code

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Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Compliance with flood-resistant provisions reduces flood damage and protects life, property and general welfare.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

Improves the code by having all load requirements addressed; provides equivalency with requirements of local floodplain management ordinances. The requested statutory authority will allow locally-adopted higher standards to preserve better protection and insurance discounts.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

Includes provisions for flood damage-resistant materials and methods, consistent with the NFIP and current floodplain management ordinances.

Does not degrade the effectiveness of the code

Improves effectiveness by requiring buildings to be designed and constructed with consideration of all applicable codes.

Proposed Code Modifications Detail

Sub Code: Residential

S3897

2

Date Proposal Submitted	3/26/2010	Section	R322.2.4 and R322.3.3.1 (new)
Chapter	3	TAC Recommendation	Pending Review
Affects HVHZ	No	Commission Action	Pending Review
Proponent	Rebecca Quinn	General Comments	No
Attachments	No	Alternate Language	No

Related Modifications

Summary of Modification

Florida-specific modifications to the flood provisions retained in the residential code, to add provisions for pools that are found in Appendix G of the IRC. The Workgroup recommended moving the provisions into the body of the code.

Text of Modification

R322.2.4 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools, and in-ground pools that involve placement of fill, shall comply with Sections R322.2.4.1 or RB322.2.4.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

R322.2.4.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the building official, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the jurisdiction.

R322.2.4.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.

R322.3.3.1 Pools. Pools in coastal high-hazard areas shall be designed and constructed in conformance with ASCE 24.

Rationale

Modifications recommended by FBC Flood Resistant Standards Workgroup, with concurrence by Structural TAC, to retain IRC flood provisions IBC and make Florida-specific amendments. IRC flood provisions are consistent with the NFIP. The FBC adopted the recommendation at its October 2009 meeting. Workgroup's final report is attached to the modification for R322 and <http://consensus.fsu.edu/FBC/Flood-Resistant-Standards.html>

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Proposed Code Modifications Detail

Search Criteria

Modification #:	ALL	Code Version:	2010
Code Change Cycle:	2010 Triennial Original Modification 03/01/2010 - 04/02/2010	Sub Code:	ALL
Chapter & Topic:	ALL	Section:	ALL
Date Submitted From:	ALL	Date Submitted To:	ALL
TAC:	ALL	TAC Recommendation:	ALL
Commission Action:	ALL	Proponent Last Name:	Quinn
Proponent First Name:	ALL	Text of Modification:	pool
Related Modifications:	ALL	Affects HVHZ:	ALL