Roofing

Proposed Code Modifications

Glitch Modifications

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TAC: Roofing

Total Mods for **Roofing** in **Pending Review: 10**

Total Mods for report: 10

Sub Code: Building

Date Submitted	4/27/2013	**Section**	202	**Proponent**	T Stafford
Chapter	2	**Affects HVHZ**	No	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Corrects a conflict within the updated code. Revises definitions for consistency with changes approved to Chapter 15.

Rationale

Corrects a conflict within the updated code. The definitions of Mechanical Equipment Screen and Penthouse are proposed to be revised to match the definitions of these terms approved for Chapter 15.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities.

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

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a conflict within the updated code.

Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code?

NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

- [X] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

MECHANICAL EQUIPMENT SCREEN. A partially enclosed rooftop structure~~, not covered by a roof,~~ used to aesthetically conceal heating, ventilation and air conditioning (HVAC),~~plumbing,~~ electrical or mechanical equipment from view.

PENTHOUSE. An enclosed, unoccupied rooftop structure above the roof of a building other than a tank, tower, spire, dome cupola or bulkhead~~used for sheltering mechanical and electrical equipment, tanks, elevators and related machinery, and vertical *shaft* openings~~.

R6207

Date Submitted	4/27/2013	**Section**	1502	**Proponent**	T Stafford
Chapter	15	**Affects HVHZ**	No	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Corrects a conflict within the updated code.

Rationale

Conflict with updated code. These definitions are already defined in Chapter 2. These definitions are identical to those in Chapter 2.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities.

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

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a conflict within the updated code.

Is the proposed code modification part of a prior code version? No

- [X] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

AGGREGATE. In roofing, crushed stone, crushed slag or water-worn gravel used for surfacing for roof coverings.

BALLAST. In roofing, ballast comes in the form of large stones or paver systems or light-weight interlocking paver systems and is used to provide uplift resistance for roofing systems that are not adhered or mechanically attached to the roof deck.

BUILT-UP ROOF COVERING. Two or more layers of felt cemented together and surfaced with a cap sheet, mineral aggregate, smooth coating or similar surfacing material.

INTERLAYMENT. A layer of felt or nonbituminous saturated felt not less than 18 inches (457 mm) wide, shingled between each course of a wood-shake roof covering.

MECHANICAL EQUIPMENT SCREEN. A partially enclosed *rooftop structure* used to aesthetically conceal heating, ventilating and air conditioning (HVAC) electrical or mechanical equipment from view.

METAL ROOF PANEL. An interlocking metal sheet having a minimum installed weather exposure of 3 square feet (0.279 m^2) per sheet.

METAL ROOF SHINGLE. An interlocking metal sheet having an installed weather exposure less than 3 square feet (0.279 m^2) per sheet.

MODIFIED BITUMEN ROOF COVERING. One or more layers of polymer-modified asphalt sheets. The sheet materials shall be fully adhered or mechanically attached to the substrate or held in place with an *approved* ballast layer.

PENTHOUSE. An enclosed, unoccupied structure above the roof of a building, other than a tank, tower, spire, dome cupola or bulkhead.

POSITIVE ROOF DRAINAGE. The drainage condition in which consideration has been made for all loading deflections of the roof deck, and additional slope has been provided to ensure drainage of the roof within 48 hours of precipitation.

REROOFING. The process of recovering or replacing an existing roof covering. See "Roof recover" and "Roof replacement."

ROOF ASSEMBLY. A system designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. A roof assembly includes the roof deck, *vapor retarder*, substrate or thermal barrier, insulation, *vapor retarder* and roof covering.

The definition of "Roof assembly" is limited in application to the provisions of Chapter 15.

ROOF COVERING. The covering applied to the roof deck for weather resistance, fire classification or appearance.

ROOF COVERING SYSTEM. See "Roof assembly."

ROOF DECK. The flat or sloped surface not including its supporting members or vertical supports.

ROOF RECOVER. The process of installing an additional roof covering over a prepared existing roof covering without removing the existing roof covering.

ROOF REPAIR. Reconstruction or renewal of any part of an existing roof for the purposes of its maintenance.

ROOF REPLACEMENT. The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering.

ROOF VENTILATION. The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, attics, cathedral ceilings or other enclosed spaces over which a roof assembly is installed.

ROOFTOP STRUCTURE. An enclosed structure on or above the roof of any part of a building.

SCUPPER. An opening in a wall or parapet that allows water to drain from a roof.

SINGLE-PLY MEMBRANE. A roofing membrane that is field applied using one layer of membrane material (either homogeneous or composite) rather than multiple layers.

UNDERLAYMENT. One or more layers of felt, sheathing paper, nonbituminous saturated felt or other *approved* material over which a steep-slope roof covering is applied.

R6114

Date Submitted	4/23/2013	**Section**	1522.3.5	**Proponent**	Allen Gezelman
Chapter	15	**Affects HVHZ**	Yes	**Attachments**	Yes

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Include solar thermal lines with condensate drain lines,eg. CONDENSATE DRAIN LINES AND SOLAR THERMAL LINES NEED NOT COMPLY WITH MINIMUM CLEARANCE REQUIREMENTS.

Rationale

Being able to drain solar thermal collectors is absolutley essential in the event of a power outage in conjucntion with low ambient temperatures or in the event of taking the respective system out of service.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

$ zero costs to authority having jurisdiction.

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

$$$ millions in damages to freeze damaged solar units plus possible collateral damage to building contents many times the repair costs of solar.

Impact to industry relative to the cost of compliance with code

Compliance with existing requirement to super-elevate lines on roof could be a death-blow to the solar thermal portion of the solar industry.

Requirements

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

Proposed modification will improve conditions conducive to health, safety, and welfare of the general public.

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

Proposed modification improves the code and makes it possible to deliver better-performing solar thermal systems at lower costs.

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

Proposed modification does not discriminate in any way.

Does not degrade the effectiveness of the code

Proposed modification does not degrade effectiveness of the code.
To the contrary, proposed modification improves the effectiveness of the code by making the code more relevant and common-sense based in the area of solar thermal installations.

Is the proposed code modification part of a prior code version? No

- [ ] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [X] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

Condensate lines and solar thermal lines need not comply with minimum clearance requirements.

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Proposed Code Modifications

USER: Allen Gezelman, Allen Gezelman PE, Architect or Engineer

Proposed Code Modifications Menu > Modification Search > **Code Criteria**

The field Section should only contain numbers and decimal points with not spaces between.

* Required fields

Rule # 61G20-2.002
Form # 61G20-1.001
Effective Date

Code Change Cycle	2013 Glitch Original Modification 04/01/2013 - 05/01/2013
Code Change Cycle Scope	2013 Glitch Cycle
Code Version	2013
Sub Code*	Residential
Chapter & Topic*	Chapter 44 - HVHZ
Section*	R4402.11.3.5
Related Modifications Need Help ?	
Affects High Velocity Hurricane Zone (HVHZ) (Miami-Dade and Broward Counties only) Need Help ?	Yes
Summary of Modification* (300 characters maximum)	Include solar thermal lines with condensate drain lines,eg. CONDENSATE DRAIN LINES AND SOLAR THERMAL LINES NEED NOT COMPLY WITH MINIMUM CLEARANCE REQUIREMENTS OF R4402.11.3.4

Cancel | Save In Progress | Next

Solar Thermal lines must be drainable!

Allen Gezelman
23 April 2013

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No. 59180
STATE OF FLORIDA

Date Submitted	4/16/2013	**Section**	35	**Proponent**	Mark Zehnal
Chapter	35	**Affects HVHZ**	No	**Attachments**	Yes

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Formatting and grammatical corrections to approved reference standard

Rationale

Make formatting and grammatical corrections to approved reference standard

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

None, formatting and grammatical corrections to approved reference standard

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

None, formatting and grammatical corrections to approved reference standard

Impact to industry relative to the cost of compliance with code

None, formatting and grammatical corrections to approved reference standard

Requirements

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

Formatting and grammatical corrections to approved reference standard

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

Formatting and grammatical corrections to approved reference standard

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

Does not discriminate. Formatting and grammatical corrections to approved reference standard

Does not degrade the effectiveness of the code

Does not degrade. Formatting and grammatical corrections to approved reference standard

Is the proposed code modification part of a prior code version? No

[X] (a.) Conflicts within the updated code;

[ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;

[ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;

[ ] (d.) Equivalency of standards;

[ ] (e.) Changes to or inconsistencies with federal or state law;

[ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

FRSA

Florida Roofing, Sheet Metal and Air Conditioning Contractors Association

4111 Metric Drive

Winter Park, Florida 32792

Standard reference number	Title	Referenced in code section number
FRSA/TRI Tile Installation Manual, Fifth Edition	Florida High Wind Concrete and Clay Roof April 2012 (04-12)	1507.3.2, 1507.3.3, 1507.3.3.1, 1507.3.6, 1507.3.7, 1507.3.8, 1507.3.9

The following are revisions to the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fifth Edition April 2012 (04-12)

1) Page 3 - correct spelling of "underlayment" in the note at the bottom of the page.
2) Page 13 - on the notes at the bottom of the page, number 4, please correct the word "inclusive" and the "or" immediately following it should be "of".
3) Page 15 - new table for 2-A, Exposure D.
4) Page 24 - use the entire diagram from the Fourth Edition, page 12. Include the note "Note: Where special conditions exist, it may be necessary to increase the width of the pan flashing."
5) Page 27 - At bottom of page, text should read "Install in compliance with regular flashing installation procedures. For self-curbing or prefabricated skylights, refer to skylight manufacturer's installation instructions." (This will need to be added as a result of a change that was made at the Roofing TAC meeting in October 2012.)
6) Page 36 - in the detailed text in the diagram, change "HBC" to "FBC".
7) Page 37 - remove two dotted lines in diagram with no reference.
8) Page 43 - remove the two references (on side and bottom of chart) referencing MC-08. It should read "FHW- 18".

Date Submitted	4/8/2013	**Section**	708.1	**Proponent**	Michael Goolsby
Chapter	7	**Affects HVHZ**	Yes	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Replace deleted building volume reference with applicable relocated building volume reference.

Rationale

Section 1515.2.2.2 was eliminated. However, the content of that section was relocated to section 1516.2.4.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Improves the ability to located the applicable code section.

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

None. The code sections has not been change, only relocated.

Impact to industry relative to the cost of compliance with code

Improves the ability to located the applicable code section.

Requirements

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

Yes. Proper guidance to the applicable section relating to roof slope and fire classification is provided.

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

Yes. Proper guidance to the applicable section relating to roof slope and fire classification is provided.

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

Does not discriminate, all roof assemblies meeting the fire classification for a particular roof slope may be used.

Does not degrade the effectiveness of the code

Improves the effectiveness of the code by providing proper guidance to the applicable section relating to roof slope and fire classification.

Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code?

NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

[X] (a.) Conflicts within the updated code;

[ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;

[X] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;

[ ] (d.) Equivalency of standards;

[ ] (e.) Changes to or inconsistencies with federal or state law;

[ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

708.1 General. Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15 of the Florida Building Code, Building or Chapter 9 of the *Florida Building Code, Residential.* Roof repairs to existing roofs and roof coverings shall comply with the provisions of this code.

Exception: Reroofing shall not be required to meet the minimum design slope requirement of ¼:12 in Section 1507 of the *Florida Building Code, Building* for roofs that provide positive roof drainage (high-velocity hurricane zones shall comply with Sections 1515.2.2.1 and ~~1515.2.2.2~~ 1516.2.4 of the *Florida Building Code, Building*).

Date Submitted	4/24/2013	**Section**	905.7.3.3	**Proponent**	T Stafford
Chapter	9	**Affects HVHZ**	No	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Adds underlayment requirements for Wood Shingles to be consistent with other roof coverings in the FBCR and for consistency with FBCB.

Rationale

Adds underlayment requirements for wood shingles that were inadvertently not included in the Supplement. The proponent submitted the same requirements for Wood Shingles in the FBCB. The language is consistent with what was submitted by the proponent and is consistent with the underlayment requirements for wood shakes.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities.

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

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a conflict within the updated code.

Is the proposed code modification part of a prior code version? No

[X] (a.) Conflicts within the updated code;

[ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;

[ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;

[ ] (d.) Equivalency of standards;

[ ] (e.) Changes to or inconsistencies with federal or state law;

[ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R905.7.3.3 Underlayment Application. Underlayment shall be installed using one of the following methods:

1. Two layer underlayment shall comply with ASTM D 226, Type I or Type II or ASTM D 4869, Type II or Type IV: Apply a 19-inch (483 mm) strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment, overlapping successive sheets 19 inches (483 mm), and fastened with 1 inch (25 mm) round plastic cap, metal cap nails or nails and tin-tabs attached to a nailable deck with one row in the field of the sheet with a maximum fastener spacing of 12 in. o.c. (305 mm), and one row at the overlaps fastened 6 in. o.c. (152 mm).

2. One layer underlayment shall comply with ASTM D 226, Type II or ASTM D 4869, Type IV: Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches (51 mm), fastened with 1 inch (25 mm) round plastic cap, metal cap nails or nails and tin-tabs attached to a nailable deck with two staggered rows in the field of the sheet with a maximum fastener spacing of 12 in. o.c. (305 mm), and one row at the overlaps fastened 6 in. o.c. (152 mm). End laps shall be offset by 6 feet (1829 mm).

Date Submitted	4/24/2013	**Section**	907.7.1.2	**Proponent**	T Stafford
Chapter	9	**Affects HVHZ**	No	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Revises the dimensional requirements of the supplemental fastener to be consistent with the FBCR.

Rationale

This modification will ensure consistent dimensional requirements for ring shank nails that are prescribed by the FBCR. The mitigation requirements that have existed in the FBCEB are now also covered in the FBCR. Several proposals were submitted to achieve consistency with the dimensional requirements for the ring shank nails referenced in this section and Section R803.2.3.1 in the FBCR. However, in attempt to relocated these provisions from the FBCEB to the FBCR, the correlations were somehow omitted. This proposal will provide the consistency desired by the original submittal.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities.

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

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a conflict within the updated code.

Is the proposed code modification part of a prior code version? No

- [X] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R907.7.1.2 For roof decking consisting of wood structural panels, fasteners and spacing required in columns 3 and 4 of Table R907.7.1.2 are deemed to comply with the indicated design wind speed range. Wood structural panel connections retrofitted with a two part urethane based closed cell adhesive sprayed onto the joint between the sheathing and framing members are deemed to comply provided testing using the manufacturer's recommended application on panels connected with 6d smooth shank nails at no more than a 6-inch edge and 12-inch field spacing demonstrate an uplift resistance of a minimum of 200 psf.

Supplemental fasteners as required by Table R907.7.1.2 shall be 8d ring shank nails with round heads and the following minimum dimensions:

1. 0.113-inch nominal shank diameter.

2.Ring diameter of 0.010 over shank diameter~~Difference between root and ring diameter a minimum of 5% of root nail diameter~~.

3. 16 to 20 rings per inch.

4. A minimum 0.280-inch full round head diameter.

5. Ring shank to extend a minimum of $1^1/_2$ inches from the tip of the nail.

6. Minimum 2 3/8-inch nail length.

R6170

Date Submitted	4/24/2013	**Section**	907.8.1	**Proponent**	T Stafford
Chapter	9	**Affects HVHZ**	No	**Attachments**	Yes

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Replace the table for required uplift capacities of roof-to-wall connections with the proper format.

Rationale

This proposal adds a properly formatted version of this table. During the Supplement compilation, the wind speed columns shifted and caused misalignment throughout the table. Corrections to the notes were also necessary since this table located in the FBCR as well as the FBCEB.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

No impact to local entities.

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

No impact to building and property owners.

Impact to industry relative to the cost of compliance with code

No impact to industry.

Requirements

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

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

Corrects a conflict within the updated code.

Does not degrade the effectiveness of the code

Corrects a conflict within the updated code.

Is the proposed code modification part of a prior code version? No

[X] (a.) Conflicts within the updated code;

[ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;

[ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;

[ ] (d.) Equivalency of standards;

[ ] (e.) Changes to or inconsistencies with federal or state law;

[ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

R6170 Text Modification

Delete Table R907.8.1 and replace it with the table in the attached file.

TABLE R907.8.1 REQUIRED UPLIFT CAPACITIES FOR ROOF-TO-WALL CONNECTIONS[a, b] (POUNDS PER LINEAR FOOT)

	ULTIMATE DESIGN WIND SPEED, V_{ult}	ROOF SPAN (feet)							
		12	20	24	28	32	36	40	OVERHANGS
Within 6 feet of building corner	85	-69.85	-116.42	-139.70	-162.99	-186.27	-209.55	-232.84	-27
	90	-82.67	-137.78	-165.34	-192.90	-220.45	-248.01	-275.57	-30.3
	100	-110.51	-184.18	-221.01	-257.85	-294.68	-331.52	-368.36	-37.4
	110	-141.27	-235.45	-282.55	-329.64	-376.73	-423.82	-470.91	-45.3
	120	-174.97	-291.62	-349.94	-408.26	-466.59	-524.91	-583.23	-53.9
	130	-211.60	-352.66	-423.19	-493.72	-564.26	-634.79	-705.32	-63.2
	140	-251.15	-418.59	-502.31	-586.02	-669.74	-753.46	-837.18	-73.3
	150	-293.64	-489.40	-587.28	-685.16	-783.04	-880.92	-978.80	-84.2
	170	-387.40	-645.67	-774.81	-903.94	-1033.08	-1162.21	-1291.35	-108
Greater than 6 feet from building corner	85	-39.10	-65.17	-78.20	-91.24	-104.27	-117.30	-130.34	-27
	90	-48.20	-80.33	-96.39	-112.46	-128.52	-144.59	-160.66	-30.3
	100	-67.95	-113.24	-135.89	-158.54	-181.19	-203.84	-226.49	-37.4
	110	-89.78	-149.63	-179.55	-209.48	-239.40	-269.33	-299.25	-45.3
	120	-113.68	-189.47	-227.37	-265.26	-303.16	-341.05	-378.94	-53.9
	130	-139.67	-232.78	-279.34	-325.90	-372.45	-419.01	-465.57	-63.2
	140	-167.74	-279.56	-335.47	-391.38	-447.29	-503.21	-559.12	-73.3
	150	-197.88	-329.80	-395.76	-461.72	-527.68	-593.64	-659.60	-84.2
	170	-264.41	-440.68	-528.81	-616.95	-705.08	-793.22	-881.35	-108

For SI: 1 foot = 304.8 mm; 1 pound per linear foot = 1.488 kg/m; 1 mile per hour = 0.305 m/s.

a. The uplift loads are pounds per lineal foot of building length. For roof uplift connections multiply by 1.33 for framing spaced 16 inches on center and multiply by 2 for framing spaced 24 inches on center.

b. The uplift loads do not account for the effects of overhangs. The magnitude of the above loads shall be

increased by adding the overhang loads found in the table. The overhang loads are also based on framing spaced 12 inches on center. The overhang loads given shall be multiplied by the overhang projection and added to the roof uplift value in the table.

c. For Ultimate design wind speeds, V_{ult}, greater than 170 mph, wind uplift forces shall be determined in accordance with Section R802.3 or ASCE 7.

d. Ultimate Design Wind Speeds determined from Figure R301.2(4) .

Date Submitted	4/16/2013	**Section**	45	**Proponent**	Mark Zehnal
Chapter	45	**Affects HVHZ**	No	**Attachments**	Yes

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

Summary of Modification

Formatting and grammatical corrections to approved reference standard

Rationale

Make formatting and grammatical corrections to approved reference standard

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

None, formatting and grammatical corrections to approved reference standard

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

None, formatting and grammatical corrections to approved reference standard

Impact to industry relative to the cost of compliance with code

None, formatting and grammatical corrections to approved reference standard

Requirements

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

Formatting and grammatical corrections to approved reference standard

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

Formatting and grammatical corrections to approved reference standard

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

Does not discriminate. Formatting and grammatical corrections to approved reference standard

Does not degrade the effectiveness of the code

Does not degrade. Formatting and grammatical corrections to approved reference standard

Is the proposed code modification part of a prior code version? No

[X] (a.) Conflicts within the updated code;

[ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;

[ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;

[ ] (d.) Equivalency of standards;

[ ] (e.) Changes to or inconsistencies with federal or state law;

[ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

FRSA **Florida Roofing, Sheet Metal and**

Air Conditioning Contractors Association

4111 Metric Drive

Winter Park, Florida 32792

Standard reference number	Title	Referenced in code section number
FRSA/TRI	Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fifth Edition April 2012 (04-12)	R905.3, R905.3.2, R905.3.3, R905.3.3.1, R905.3.6, R905.3.7, R905.3.7.1, R905.3.8

The following are revisions to the FRSA/TRI Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fifth Edition April 2012 (04-12)

1) Page 3 - correct spelling of "underlayment" in the note at the bottom of the page.
2) Page 13 - on the notes at the bottom of the page, number 4, please correct the word "inclusive" and the "or" immediately following it should be "of".
3) Page 15 - new table for 2-A, Exposure D.
4) Page 24 - use the entire diagram from the Fourth Edition, page 12. Include the note "Note: Where special conditions exist, it may be necessary to increase the width of the pan flashing."
5) Page 27 - At bottom of page, text should read "Install in compliance with regular flashing installation procedures. For self-curbing or prefabricated skylights, refer to skylight manufacturer's installation instructions." (This will need to be added as a result of a change that was made at the Roofing TAC meeting in October 2012.)
6) Page 36 - in the detailed text in the diagram, change "HBC" to "FBC".
7) Page 37 - remove two dotted lines in diagram with no reference.
8) Page 43 - remove the two references (on side and bottom of chart) referencing MC-08. It should read "FHW- 18".

R6146

Date Submitted	4/24/2013	**Section**	11.2.5	**Proponent**	Jaime Gascon
Chapter	1	**Affects HVHZ**	Yes	**Attachments**	No

TAC Recommendation Pending Review
Commission Action Pending Review

Related Modifications

None

Summary of Modification

Correlate conflict between requirements in section 11.2.5 and the two report templates in the protocol.

Rationale

Section 11.2.5 of the protocol requires this information and the template does not provide for this information to be recorded.

Fiscal Impact Statement

Impact to local entity relative to enforcement of code

Corrects a conflict and will reduce the need to reject filed test reports for missing information.

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

None.

Impact to industry relative to the cost of compliance with code

Corrects a conflict and will reduce the need to reject filed test reports for missing information.

Requirements

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

None.

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

Corrects a conflict and will reduce the need to reject filed test reports for missing information.

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

Corrects a conflict and requires all labs to report the information consistently.

Does not degrade the effectiveness of the code

Improves the code by correcting a conflict.

Is the proposed code modification part of a prior code version? No

- [X] (a.) Conflicts within the updated code;
- [ ] (b.) Conflicts between the updated code and the Florida Fire Prevention Code adopted pursuant to chapter 633;
- [ ] (c.) Unintended results from the integration of previously adopted Florida-specific amendments with the model code;
- [ ] (d.) Equivalency of standards;
- [ ] (e.) Changes to or inconsistencies with federal or state law;
- [ ] (f.) Adoption of an updated edition of the National Electrical Code if the commission finds that delay of implementing the updated edition causes undue hardship to stakeholders or otherwise threatens the public health, safety, and welfare.

11. Report:

11.1 Refer to ASTM E 575 for general use in reporting structural performance tests of building assemblies.

11.2 For either bell chamber tests or bonded pull tests, the final report shall include the following:

...

11.2.5 Dates of tests, air and roof surface temperatures, wind velocity.

...

TESTING APPLICATION STANDARD (TAS) 124-11
BELL CHAMBER TEST RESULTS

...

TEST INFORMATION:

Number of Tests: n = _____
(see Section 7.1 of TAS 124)
(note the locations of all tests on
"Building Information" Detail #2, attached)

Maximum Uplift Pressure: Pmax = _____psf
(as noted on the roof system manufacturer's Product Approval)

Date of test: _____

Air temperature: _____

Roof surface temperature: _____

Wind velocity during test: _____