

# **2014 Advanced FBC Fifth Edition FRC Chapter 9**

**Florida Roofing and Sheet Metal Contractors Association**

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# Where to Start

- **ICC 2012 Base Code**

- Florida Statute

- 553.73 Florida Building Code.—

- (3) The commission shall use the International Codes published by the International Code Council, the National Electric Code (NFPA 70), or other nationally adopted model codes and standards needed to develop the base code in Florida to form the foundation for the Florida Building Code.

# Font Color Legend

- BLACK 2010 FBC and Base Code Language
- RED Includes Florida Specific Language
- BLUE New Language in 2012 ICC Code
- PURPLE Combination of ICC and Florida Specific

# Section R901 GENERAL

- **R901.1 Scope.** The provisions of this chapter shall govern the design, materials, construction and quality of roof assemblies.

Exception: Buildings and structures located within the High-Velocity Hurricane Zone shall comply with the provisions of Chapter 44.

# SECTION R902

## ROOF CLASSIFICATION

- **R902.1 Roofing covering materials.**
- **R902.2 Fire-retardant-treated shingles and shakes.**

# SECTION R903

## WEATHER PROTECTION

- **R903.1 General.**
- **R903.2 Flashing.**
- **R903.2.1 Locations.**
- **TABLE R903.2.1 METAL FLASHING MATERIAL**
- **R903.2.2 Crickets and saddles.**
- **R903.2.3 Membrane flashings.**
- **R903.3 Coping.**
- **R903.4 Roof drainage.**
- **R903.4.1 Overflow drains and scuppers.**
- **R903.4.2 One-and two-family dwellings, and private**
- **garages.**

# SECTION R904

## MATERIALS

- R904.1 Scope.
- R904.2 Compatibility of materials.
- R904.3 Material specifications and physical characteristics.
- **R904.4 Fasteners.**
  - **R904.4.1 Nails.**
  - **R904.4.2 Screws.**
  - **R904.4.3 Clips.**
- R904.5 Product identification.

# **SECTION R905**

## **REQUIREMENTS FOR ROOF COVERINGS**

- **R905.1 Roof covering application. Roof coverings shall be applied in accordance with the applicable provisions of this section and the manufacturer's installation instructions. Unless otherwise specified in this section, roof coverings shall be installed to resist the component and cladding loads specified in Table R301.2(2), adjusted for height and exposure in accordance with Table R301.2(3).**
- **The importance of Product Approval or NOA Information**

# R905.2 Asphalt shingles.

- R905.2.1 Sheathing requirements.
- R905.2.2 Slope.
- R905.2.3 Underlayment.
- R905.2.4 Asphalt shingles.
  - R905.2.4.1 Wind resistance of asphalt shingles.
  - Table R905.2.4.1(2) Classification of Asphalt Shingles per ASTM D 3161. Reserved.
- R905.2.5 Fasteners
- R905.2.6 Attachment.
  - R905.2.6.1 Wind resistance of asphalt shingles.
  - Table R905.2.6.1 WIND RESISTANCE OF ASPHALT SHINGLES
- R905.2.7 Underlayment application.

# R905.2 Asphalt shingles.

- R905.2.7.1 Ice barrier. **Reserved.**
- R905.2.7.2 Underlayment and high winds. **Reserved.**
- R905.2.8 Flashing.
- **R905.2.8.1 Base and counter flashing.**
- **R905.2.8.2 Valleys.**
- **Table R905.2.8.2 Valley Lining Material. Reserved**
- **R905.2.8.3 Sidewall flashing.**
- R905.2.8.4 Other flashing.
- **R905.2.8.5 Drip edge.**

# R905.3 Clay and concrete tile

- R905.3 Clay and concrete tile
- R905.3.1 Deck requirements.
- R905.3.2 Deck slope.
- R905.3.3 Underlayment.
- R905.3.3.1 Slope and underlayment requirements.
- R905.3.3.2 High slope roofs. **Reserved**
- R905.3.3.3 Underlayment and high winds. **Reserved**

# **R905.3 Clay and concrete tile.**

- **R905.3.4 Clay tile.**
- **R905.3.5 Concrete tile.**
- **R905.3.6 Fasteners.**
- **R905.3.7 Application.**
- **Table R905.3.7 Clay and Concrete Tile Attachment.**
- ***Reserved.***
- **R905.3.7.1 Hip and ridge tiles.**
- **R905.3.8 Flashing.**

# R905.4 Metal roof shingles

- R905.4.1 Deck requirements.
- R905.4.2 Deck slope.
- **R905.4.3 Underlayment**
- R905.4.3.1 Ice barrier. **Reserved**
- R905.4.3.2 Underlayment and high winds. **Reserved**
- **R905.4.3.3 Underlayment application.**
- **R905.4.4 Material standards.**
- **R905.4.5 Application.**
- R905.4.6 Flashing.

# R905.5 Mineral-surfaced roll roofing.

- R905.5.1 Deck requirements
- R905.5.2 Deck slope.
- **R905.5.3 Underlayment.**
- R905.5.3.1 Ice barrier. *Reserved.*
- R905.5.3.2 Underlayment and high winds. *Reserved*
- **R905.5.3.3 Underlayment application.**
- **R905.5.4 Material standards.**
- R905.5.5 Application.

# R905.6 Slate and slate-type shingles.

- R905.6.1 Deck requirements.
- R905.6.2 Deck slope.
- R905.6.3 Underlayment.
- R905.6.3.1 Ice barrier. **Reserved**
- R905.6.3.2 Underlayment and high winds. **Reserved**
- **R905.6.3.3 Underlayment application.**
- R905.6.4 Material standards.
- R905.6.5 Application
- Table R905.6.5
- **R905.6.6 Flashing.**
- **R905.6.7**

# R905.7 Wood shingles.

- R905.7.1 Deck requirements.
- R905.7.1.1 Solid sheathing required. **Reserved**
- R905.7.2 Deck slope.
- R905.7.3 Underlayment.
- R905.7.3.1 Ice barrier. **Reserved**
- R905.7.3.2 Underlayment and high winds. **Reserved**
- **R905.7.3.3 Underlayment application.**
- R905.7.4 Material standards.
- **TABLE R905.7.4 WOOD SHINGLE MATERIAL REQUIREMENTS**

# R905.7 Wood shingles.

- R905.7.5 Attachment.
- R905.7.6 Attachment for  $V_{asd}$ , as determined in accordance with Section R301.2.1.3, greater than 100 mph.
- R905.7.6.1 Fasteners.
- R905.7.6.1.1 Nails
- R905.7.6.1.2 Screws.
- R905.7.6.1.3 Wood battens

# **R905.7 Wood shingles.**

- **R905.7.6.1.4 Shingles.**
- **R905.7.7 Application.**
- **TABLE R905.7.7 WOOD SHINGLE WEATHER EXPOSURE AND ROOF SLOPE**
- **R905.7.8 Flashing.**
- **R905.7.8.1 Valley flashing.**
- **R905.7.9 Label required.**

# R905.8 Wood shakes.

- R905.8.1 Deck requirements.
- R905.8.1.1 Solid sheathing required. **Reserved.**
- **R905.8.2 Deck slope.**
- **R905.8.3 Underlayment**
- R905.8.3.1 Ice barrier. **Reserved.**
- R905.8.3.2 Underlayment and high winds. **Reserved.**

# R905.8 Wood shakes.

- R905.8.3.3 Underlayment application.
- R905.8.3.4 Interlayment.
- R905.8.4 Attachment.
- R905.8.5 Material standards.
- TABLE R905.8.5
- WOOD SHAKE MATERIAL REQUIREMENTS
- R905.8.6 Application. Reserved.
- R905.8.7 Attachment for  $V_{asd}$  as determined in accordance
- with Section R301.2.1.3, greater than 100 mph.
- R905.8.7.1 Fasteners.

# **R905.8 Wood shakes.**

- **R905.8.7.1.1 Nails.**
- **R905.8.7.1.2 Screws.**
- **R905.8.7.1.3 Wood battens.**
- **R905.8.7.1.4 Shakes.**
- **R905.8.8 Application.**
- **TABLE R905.8.8**
- **WOOD SHAKE WEATHER EXPOSURE AND ROOF SLOPE**
- **R905.8.9 Label required.**
- **R905.8.10 Flashing.**
- **R905.8.10.1 Valley flashing.**

# R905.9 Built-up roofs.

- R905.9.1 Slope.
- R905.9.2 Material standards
- TABLE R905.9.2 BUILT-UP ROOFING MATERIAL STANDARDS
- **R905.9.2.1**
- R905.9.3 Application.

# R905.10 Metal roof panels

- R905.10.1 Deck requirements.
- R905.10.2 Slope
- **R905.10.3 Material standards.**
- Table R905.10.3(1) Metal Roof Covering Standards **Reserved**
- Table R905.10.3(2) Minimum Corrosion Resistance **Reserved**
- **R905.10.4 Attachment.**
- R905.10.5 Underlayment.
- **R905.10.5.1 Underlayment and high winds. Reserved**
- **R905.10.5.2 Underlayment application**

# R905.11 Modified bitumen roofing.

- R905.11.1 Slope.
- R905.11.2 Material standards.
- TABLE R905.11.2 MODIFIED BITUMEN ROOFING MATERIAL STANDARDS
- R905.11.3 Application.

# **R905.12 Thermoset single-ply roofing.**

- **R905.12.1 Slope.**
- **R905.12.2 Material standards.**
- **R905.12.3 Application**

# **R905.13 Thermoplastic single-ply roofing.**

- **R905.13.1 Slope.**
- **R905.13.2 Material standards.**
- **R905.13.3 Application.**

# **R905.14 Sprayed polyurethane foam roofing.**

- **R905.14.1 Slope.**
- **R905.14.2 Material standards.**
- **R905.14.3 Application.**
- **Table R905.14.3 Protective Coating Material Standards.**

**Reserved**

- **R905.14.4 Foam plastics.**

# **R905.15 Liquid-applied roofing.**

- **R905.15.1 Slope.**
- **R905.15.2 Material standards.**
- **R905.15.3 Application.**

# **R905.16 Building-integrated photovoltaic roofing modules/shingles.**

- **R905.16.1 Material standards.**
- **R905.16.2 Attachment.**
- **R905.16.3 Wind resistance.**

# **R905.17 Photovoltaic systems.**

- **R905.17.1 Wind resistance.**
- **R905.17.2 Fire classification.**
- **R905.17.3 Installation.**
- **R905.17.4 Photovoltaic panels and modules.**

# SECTION R906

## ROOF INSULATION

- **R906.1 General.**
- **R906.2 Material standards.**
- **Table R906.2 Material Standards for Roof Insulation**

# SECTION R907

## REROOFING

- **R907.1 General.**
- **R907.2 Structural and construction loads.**
- **R907.3 Recovering versus replacement.**
- **R907.4 Roof recovering. (Reserved)**
- **R907.5 Reinstallation of materials.**
- **R907.6 Flashings.**

# **SECTION R907**

## **REROOFING**

- **R907.7**
- **R907.7.1 Roof decking attachment for site-built single family residential structures.**
- **R907.7.1.1**
- **R907.7.1.2**
- **R907.7.2 Roof secondary water barrier for site-built**
- **single-family residential structures.**

# **SECTION R907**

## **REROOFING**

- **R907.8**
- **R907.8.1 Roof-to-wall connections for site-built single family residential structures.**
- **TABLE R907.8.1 REQUIRED UPLIFT CAPACITIES FOR ROOF-TO-WALL CONNECTIONS<sub>a, b</sub> (POUNDS PER LINEAR FOOT)**
- **R907.8.1.1 Access for retrofitting roof to wall connections.**
- **R907.8.1.2 Partially inaccessible straps.**
- **R907.8.1.3 Prescriptive method for gable roofs on a wood frame wall.**

# **SECTION R907**

## **REROOFING**

- **R907.8.1.4 Prescriptive method for gable roofs on a masonry wall.**
- **R907.8.1.5 Prescriptive method for hip roofs on a wood frame wall.**
- **R907.8.1.6 Prescriptive method for hip roofs on a masonry wall.**
- **R907.8.1.7 Priorities for mandated roof-to-wall retrofit expenditures.**

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- **The End**