

SECTION 1524

HIGH VELOCITY HURRICANE ZONES— REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the *Florida Building Code, Building* govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

1. Aesthetics-workmanship: The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

2. Rerailing wood decks: When replacing roofing, the existing wood roof deck may have to be rerailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code. (The roof deck is usually concealed prior to removing the existing roof system).

3. Common roofs: Common roofs are those which have no visible delineation between neighboring units (i.e. townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.

5. Ponding water: The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a build up of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: Chapter 15 and 16 herein and the *Florida Building Code, Plumbing*.

7. Ventilation: Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. **Exception:** Attic spaces, designed by a Florida-licensed engineer or registered architect to eliminate the attic venting, venting shall not be required.

Owner's/Agent's Signature:

Date: / /

Contractor's Signature:

Permit Number:

Property Address:

**SECTION 1525
HIGH-VELOCITY HURRICANE ZONES UNIFORM PERMIT APPLICATION**

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High-Velocity Hurricane Zone Uniform Permit Application Form.

INSTRUCTION PAGE

**COMPLETE THE NECESSARY SECTIONS OF
THE UNIFORM ROOFING PERMIT
APPLICATION FORM AND ATTACH THE
REQUIRED DOCUMENTS AS NOTED BELOW:**

Roof System	Required Sections of the Permit Application Form	Attachments Required See List Below
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Prescriptive BUR-RAS 150	A,B,C	4,5,6,7
Asphaltic Shingles	A,B,D	1,2,4,5,6,7
Concrete or Clay Tile	A,B,D,E	1,2,3,4,5,6,7
Metal Roofs	A,B,D	1,2,3,4,5,6,7
Wood Shingles and Shakes	A,B,D	1,2,4,5,6,7
Other	As Applicable	1,2,3,4,5,6,7

ATTACHMENTS REQUIRED:

1.	Fire Directory Listing Page
2.	From Product Approval: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings
3.	Design Calculations per Chapter 16, or If Applicable, RAS 127 or RAS 128
4.	Other Component of Product Approval
5.	Municipal Permit Application
6.	Owners Notification for Roofing Considerations (Reroofing Only)
7.	Any Required Roof Testing/Calculation Documentation

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Section C (Low Slope Application)

Fill in specific roof assembly components and identify manufacturer (If a component is not used, identify as "NA")

System Manufacturer: _____

Product Approval No.: _____

Design Wind Pressures, From RAS 128 or Calculations:

P1: _____ P2: _____ P3: _____

Max. Design Pressure, from the specific Product Approval system: _____

Deck:

Type: _____

Gauge/Thickness: _____

Slope: _____

Anchor/Base Sheet & No. of Ply(s): _____

Anchor/Base Sheet Fastener/Bonding Material: _____

Insulation Base Layer: _____

Base Insulation Size and Thickness: _____

Base Insulation Fastener/Bonding Material: _____

Top Insulation Layer: _____

Top Insulation Size and Thickness: _____

Top Insulation Fastener/Bonding Material: _____

Base Sheet(s) & No. of Ply(s): _____

Base Sheet Fastener/Bonding Material: _____

Ply Sheet(s) & No. of Ply(s): _____

Ply Sheet Fastener/Bonding Material: _____

Top Ply: _____

Top Ply Fastener/Bonding Material: _____

Surfacing: _____

Fastener Spacing for Anchor/Base Sheet Attachment:

Field: _____ " oc @ Lap, # Rows _____ @ _____ " oc

Perimeter: _____ " oc @ Lap, # Rows _____ @ _____ " oc

Corner: _____ " oc @ Lap, # Rows _____ @ _____ " oc

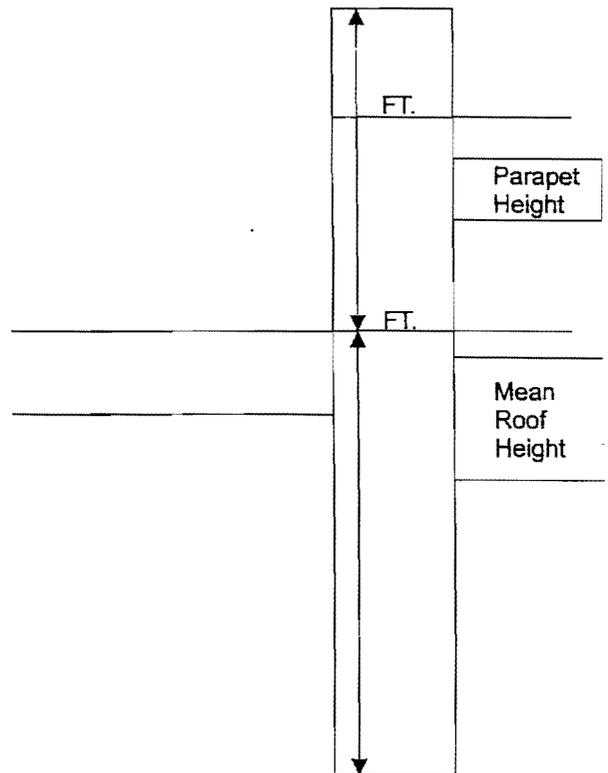
Number of Fasteners Per Insulation Board:

Field _____ Perimeter _____ Corner _____

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counter- Flashing, Coping, Etc.

Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16



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Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M_r with the values from M_f . If the M_r values are greater than or equal to the M_f values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$(P_1: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r1} \text{_____}$ Product Approval M_f _____
 $(P_2: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r2} \text{_____}$ Product Approval M_f _____
 $(P_3: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r3} \text{_____}$ Product Approval M_f _____

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ Product Approval M_f _____

M_r required Moment Resistance*					
Mean Roof Height → Roof Slope ↓	15'	20'	25'	30'	40'
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

*Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile systems use Method 3. Compared the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

$(P_1: \text{_____} \times L \text{_____} = \text{_____} \times w: = \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r1} \text{_____}$ Product Approval F' _____
 $(P_2: \text{_____} \times L \text{_____} = \text{_____} \times w: = \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r2} \text{_____}$ Product Approval F' _____
 $(P_3: \text{_____} \times L \text{_____} = \text{_____} \times w: = \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r3} \text{_____}$ Product Approval F' _____

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	P1 or P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M_g	Product Approval
Attachment Resistance	M_f	Product Approval
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	Product Approval
Tile Dimensions	L = length W = width	Product Approval

All calculations must be submitted to the building official at the time of permit application.

**AFFIDAVIT OF COMPLIANCE WITH ROOF TO WALL CONNECTION HURRICANE
MITIGATION RETROFIT FOR EXISTING SITE-BUILT SINGLE FAMILY RESIDENTIAL
STRUCTURES PURSUANT TO SECTION 553.844 F.S.**

To: Village of Palmetto Bay
Department of Building & Capital Projects
9705 East Hibiscus Street
Palmetto Bay, FL 33157

Re: Owner's Name _____
Property Address _____
Roofing Permit Number _____

Dear Building Official:

I _____, certify that I have improved the roof to wall connections of the referenced property as required by the Manual of Hurricane Mitigation Retrofits for Existing Site-Built Single Family Residential Structures as adopted by the Florida Building Commission by Rule 9B-3.047 F.A.C.

Signature of Qualifying Agent

Print Name

License Number

STATE OF FLORIDA COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this _____

day of _____, 20____,

(SEAL)

____ Personally known
____ or Produced Identification



Sheathing Affidavit/ Secondary Water Barrier (FBC 2004)

Job Address: _____ Permit No.: _____

Name of Roofing Company: _____

Name of Qualifier: _____ License No.: _____

Address: _____

I, _____, do hereby affirm:
(Print Name of Qualifier)

That I have personally inspected the re-nailing of the existing roof sheathing as required by Florida Building Code (FBC) Section 201.1 for the area covered by the roofing permit referenced above and further state that the re-nailing of the sheathing meets the requirements of the current edition of the Florida Building Code sections FBC Section 201.1. Nail spacing shall be 6 (six) inches on center at panel edges, 6(six) inches on center at intermediate supports, and where applicable 4 (four) inches on center over gable ends and sub-fascia. Existing fasteners may be utilized to achieve such minimum spacing. I also certify that a secondary water barrier that meets the requirements of F.B.C. Section 201.2 been achieved and hereby provide the accompany photos for verification.

Qualifier/Contractor Signature * Date

_____, having first been duly sworn, does affirm
(Print Name of Qualifier/ Contractor) the statement above to be true and correct by his/her own personal knowledge.

Notary (Seal/Stamp) Date

- Personally Known to me
- Produced photo ID- Type of ID _____

* An Owner/Builder acting as contractor is considered the qualifier for this code.

OWNER'S AFFIDAVIT OF EXEMPTION

ROOF TO WALL CONNECTION HURRICANE MITIGATION RETROFIT FOR EXISTING SITE-BUILT SINGLE FAMILY RESIDENTIAL STRUCTURES PURSUANT TO SECTION 553.844 F.S.

To: Village of Palmetto Bay
Department of Building & Capital Projects
9705 East Hibiscus Street
Palmetto Bay, FL 33157

Re: Owner's Name _____

Property Address _____

Roofing Permit Number _____

Dear Building Official:

I _____ certify that I am not required to retrofit the roof to wall connections of my building because:

[] The just valuation for the structure for purposes of ad valorem taxation is less than \$300,000.00.

[] The building was constructed in compliance with the provisions of the Florida Building Code (FBC) or with the provisions of the 1994 edition of the South Florida Building Code (1994 SFBC).

Signature of Property Owner _____

Print Name _____

STATE OF FLORIDA COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this _____

day of _____, 20 _____

(SEAL)

Personally known
or Produced Identification

When the just valuation of the structure for purposes of ad valorem taxation is equal to or more than \$300,000.00, and the building was not constructed in compliance with the FBC nor with 1994 SFBC, and affidavit of Roof to Wall Connection Hurricane Mitigation Retrofit must be provided.

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Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____
Notice of Acceptance Number: _____
Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations): P1: _____ P2: _____ P3: _____

Steep Sloped Roof System Description

The diagram shows a cross-section of a steep sloped roof system. A diagonal line represents the roof slope. To the left of the slope, there are three input boxes: 'Roof Slope: _____ : 12', 'Ridge Ventilation? _____', and 'Mean Roof Height: _____'. To the right of the slope, there are seven input boxes corresponding to different layers of the roof assembly: 'Deck Type: _____', 'Type Underlayment: _____', 'Insulation: _____', 'Fire Barrier: _____', 'Fastener Type & Spacing: _____', 'Adhesive Type: _____', and 'Type Cap Sheet: _____'. At the bottom right, there are two input boxes: 'Roof Covering: _____' and 'Type & Size Drip Edge: _____'. A vertical line at the bottom indicates the ground level.

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Section A (General Information)

Master Permit No. _____ Process No. _____

Contractor's Name _____

Job Address _____

ROOF CATEGORY

- Low Slope
- Mechanically Fastened Tile
- Mortar/Adhesive Set Tile
- Asphaltic Shingles
- Metal Panel/Shingles
- Wood Shingles/Shakes
- Prescriptive BUR-RAS 150

ROOF TYPE

- New Roof
- Reroofing
- Recovering
- Repair
- Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF)

Steep Sloped Roof Area (SF)

Total (SF)

Section B (Roof Plan)

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

A large grid for sketching the roof plan, consisting of 20 columns and 20 rows of squares.

