

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

Florida Building Code 5th Edition (2014)
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 A (General Information)

Master Permit No. _____ Process No. _____

Contractor's Name _____

Job Address _____

ROOF CATEGORY

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

ROOF TYPE

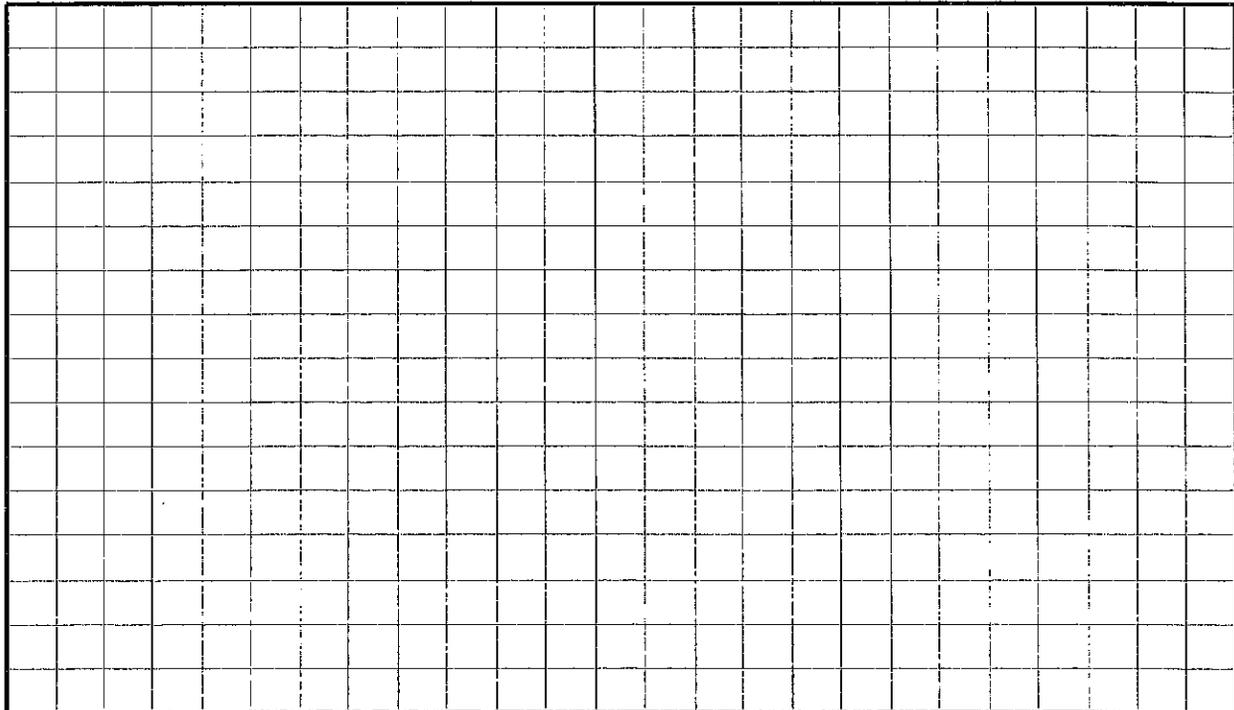
- New roof
- Repair
- Maintenance
- Reroofing
- Recovering

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) _____ Steep Sloped Roof AREA (SSF) _____ 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.



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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

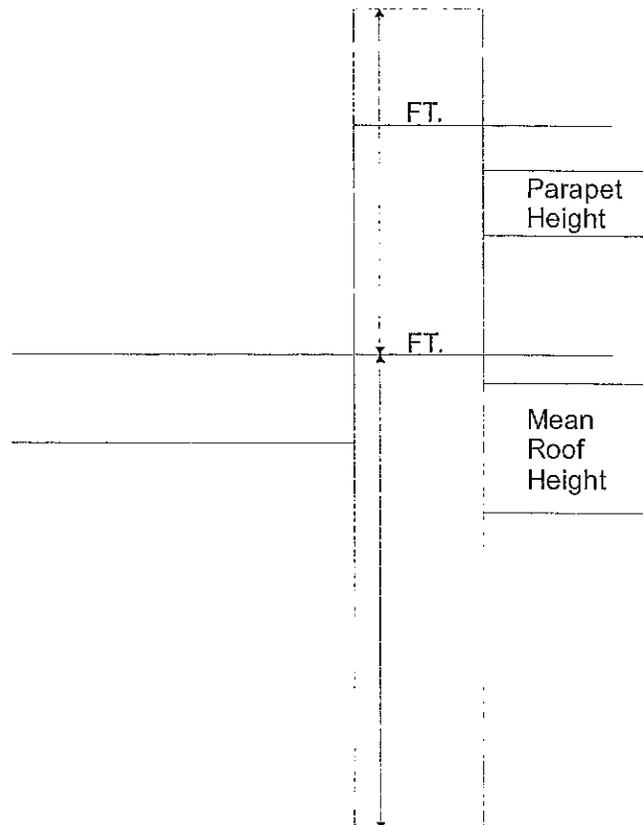
Number of Fasteners Per Insulation Board:

Field _____ Perimeter _____ Corner _____

Illustrate Components Noted and Details as Applicable:

Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counterflashing, 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 D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: _____ P1: _____ P1: _____

Deck Type: _____

Type Underlayment: _____

Insulation: _____

Fire Barrier: _____

Fastener Type & Spacing: _____

Adhesive Type: _____

Type Cap Sheet: _____

Roof Covering: _____

Type & Size Drip Edge: _____

Roof Slope:
_____: 12

Ridge Ventilation?

Mean Roof Height: _____

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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_i . If the M_i values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

(P1: $\text{___} \times \lambda \text{ ___} = \text{___}$) - Mg: $\text{___} = M_{r1}$ ___ Product Approval M_i ___
 (P2: $\text{___} \times \lambda \text{ ___} = \text{___}$) - Mg: $\text{___} = M_{r2}$ ___ Product Approval M_i ___
 (P3: $\text{___} \times \lambda \text{ ___} = \text{___}$) - Mg: $\text{___} = M_{r3}$ ___ Product Approval M_i ___

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (M_r) From Table Below ___ Product Approval M_i ___

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"

(P1: $\text{___} \times L \text{ ___} = \text{___} \times w: = \text{___}$) - W: $\text{___} \times \cos \theta \text{ ___} = F_{r1}$ ___ Product Approval F' ___
 (P2: $\text{___} \times L \text{ ___} = \text{___} \times w: = \text{___}$) - W: $\text{___} \times \cos \theta \text{ ___} = F_{r2}$ ___ Product Approval F' ___
 (P3: $\text{___} \times L \text{ ___} = \text{___} \times w: = \text{___}$) - W: $\text{___} \times \cos \theta \text{ ___} = F_{r3}$ ___ 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_i	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.		



City of North Miami Beach, Florida

BUILDING DEPARTMENT

All roofing applications require this Rooftop Equipment Affidavit along with the High Velocity Hurricane Zone Uniform Permit Application Form.

ROOFTOP EQUIPMENT AFFIDAVIT

Process# _____

Permit # _____

Address: _____

Lot: _____ Block: _____

Company Name: _____

Address: _____

Name of Qualifier: _____

License #: _____

Is there any equipment on the rooftop?

No Yes

If yes: Is there an existing code-approved curb or stand?

Yes No

If curb or stand is proposed, two (2) copies of plans sealed by an engineer showing the attachment of stand/curb to roof and to the equipment are required. These plans must be according to Florida Building Code Section 1525 in its entirety. Upon submittal of an alteration or addition of a curb or stand, the Planning Division may determine the alteration of an existing screening device or addition of a screening device may be required.

Is there any electrical work to be completed?

No Yes If Yes: An electrical permit application is needed.

Qualifier/Contractor Signature

Date

Print name of person signing document _____

Sworn to(or affirmed) and subscribed before me this ____/____/____

Who is personally known _____ OR Produced ID _____

Notary Public Signature

Notary Seal



City of North Miami Beach, Florida

BUILDING DEPARTMENT

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

Property Address:

Permit Number