



HIGH-VELOCITY HURRICANE ZONES UNIFORM PERMIT APPLICATION

Florida Building Code Edition 2007
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 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	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 - Not Required For Tile Which Have Valid NOA
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 Notices of Acceptance (Skylights, Turbines, Ridge Vents, Etc.)
5.	Municipal Permit Application
6.	Owner's Notification for Roofing Considerations (Reroofing Only)
7.	Any Required Roof Testing/Calculation Documentation



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Section A (General Information)

Permit No. _____

Contractor's Name: _____

Job Address: _____

ROOF CATEGORY

- | | | |
|---|---|---|
| <input type="checkbox"/> Low Slope | <input type="checkbox"/> Mechanically Fastened Tile | <input type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphaltic Shingles | <input type="checkbox"/> Metal Panel/Shingles | <input type="checkbox"/> Wood Shingles/Shakes |
| <input type="checkbox"/> Prescriptive BUR-RAS 150 | | |

ROOF TYPE

- | | | | | |
|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|--------------------------------------|
| <input type="checkbox"/> New Roof | <input type="checkbox"/> Re-Roofing | <input type="checkbox"/> Recovering | <input type="checkbox"/> Repair | <input type="checkbox"/> 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.



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Section C (Low Sloped Roof Systems)

**Fill in Specific Roof Assembly Components and Identify Manufacturer
(If a component is not used, identify as "NA")**

System Manufacturer: _____

*NOA # _____

Design Wind Pressures, From RAS 128 or Calculations

*Pmax1: _____ Pmax2: _____ Pmax3: _____

*Max: Design Pressure, From the Specific NOA

***Not required for prescriptive RAS 150 systems.**

Approval System: _____

Deck: _____

Type: _____

Guage/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:

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

Ply Sheet Fastener/Bonding Material:

Top Ply: _____

Top Ply Fastener/Bonding Material:

Surfacing: _____

**Fastener Spacing for Anchor/Base Sheet
(From N.O.A. or R.A.S. 150 Table 1)**

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

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

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

**Number of Fasteners Per Insulation Board
(From N.O.A. or R.A.S. 150 Table 2)**

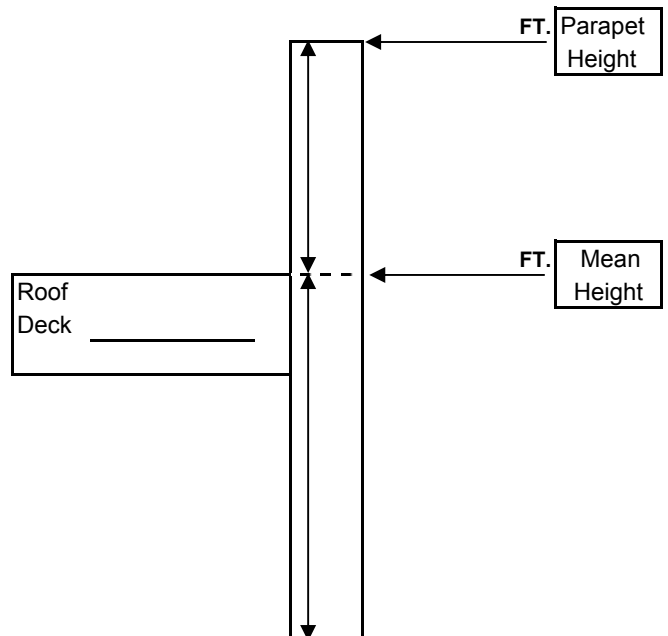
Field: _____ Perimeter: _____ Corner: _____

Illustrated 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 Manufactures Details that Comply with RAS 111 and Chapter 16





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Section D (Steep Sloped Roof System)

NOTE: Items 3 & 4 are not required for shingles with NOA

1. Roof System Manufacturer: _____

2. Notice of Acceptance Number: _____

3. Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations-Method 1):
Pmax1: _____ Pmax2: _____ Pmax3: _____ or **M_r From Sec. E, Method 2** : _____

4. Maximum Design Pressure
(From the NOA Specific System): _____

5. Method of Tile Attachment: _____

Steep Sloped Roof System Description

The diagram shows a cross-section of a roof system. A diagonal line represents the roof slope. To the left of the slope are three input boxes: 'Roof Slope: _____ " : 12"', 'Ridge Ventilation? _____', and 'Mean Roof Height: _____ \' _____ \"'. To the right of the slope are seven input boxes: 'Deck Type: _____', 'Type Underlayment: _____', 'Insulation: _____', 'Fire Barrier: _____', 'Fastener Type & Spacing: _____', 'Adhesive Type: _____', and 'Type Cap Sheet: _____'. Below the roof slope, there are two more input boxes: 'Roof Covering: _____' and 'Type & Size Drip Edge: _____'. A vertical line extends from the bottom of the roof slope down to the 'Roof Covering' box, and another vertical line extends from the bottom of the 'Type & Size Drip Edge' box down to the 'Roof Covering' box, indicating their connection to the roof surface.



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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_f 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"

$(P_1: \underline{\hspace{2cm}} \quad X\lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}}) - Mg: \underline{\hspace{2cm}} = M_{r1}$ $\underline{\hspace{2cm}}$ Product Approval M_f M_f $\underline{\hspace{2cm}}$
 $(P_2: \underline{\hspace{2cm}} \quad X\lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}}) - Mg: \underline{\hspace{2cm}} = M_{r2}$ $\underline{\hspace{2cm}}$ Product Approval M_f M_f $\underline{\hspace{2cm}}$
 $(P_3: \underline{\hspace{2cm}} \quad X\lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}}) - Mg: \underline{\hspace{2cm}} = M_{r3}$ $\underline{\hspace{2cm}}$ Product Approval M_f M_f $\underline{\hspace{2cm}}$

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below : $\underline{\hspace{2cm}}$ Product Approval M_f $\underline{\hspace{2cm}}$

M_r Required Moment Resistance*					
Mean Roof Height \rightarrow	15'	20'	25'	30'	40'
Roof Slope \downarrow					
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. Compare 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"

$(P_1: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: = \underline{\hspace{2cm}}) - W: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = Fr_1:$ Product Approval F' $\underline{\hspace{2cm}}$
 $(P_2: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: = \underline{\hspace{2cm}}) - W: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = Fr_2:$ Product Approval F' $\underline{\hspace{2cm}}$
 $(P_3: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: = \underline{\hspace{2cm}}) - W: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = Fr_3:$ Product Approval F' $\underline{\hspace{2cm}}$

Where to Obtain Information		
Description	Symbol	Where To Find
Design Pressure	P_1 or P_2 or P_3	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.

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. **Renailing wood decks:** When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High-Velocity Hurricane Zones) of the. (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 buildup 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. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

Owner's/Agent's Signature

Date

Contractor's Signature

Date