

**Section R4402.14  
HIGH VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION**

**Florida Building Code Edition 2004  
HIGH Velocity Hurricane Zone Uniform Permit Application Form**

**INSTRUCTION PAGE**

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

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

**ATTACHMENTS REQUIRED:**

<b>1.</b>	<b>Fire Directory listing Page</b>
<b>2.</b>	<b>Form Product Approval: Front Page Specific System Description Specific System Limitations General Limitations Applicable Detail Drawings</b>
<b>3.</b>	<b>Design Calculations per Section R4403, of If Applicable RAS 127 or RAS 128</b>
<b>4.</b>	<b>Other Component Product Approvals</b>
<b>5.</b>	<b>Municipal Permit Application</b>
<b>6.</b>	<b>Owners Notification for Roofing Considerations (Reroofing Only)</b>
<b>7.</b>	<b>Any Required Roof Testing/Calculation Documentation</b>

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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    Re-Roofing    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.

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**Section C (Low Slope Application)**

**Fill in Specific Roof Assembly Components and identify Manufacture**

(if a component is not used, identify as ( "NA" )

System Manufacture \_\_\_\_\_

NOA No. \_\_\_\_\_

Design Wind Pressures, From RAS 128 or Calculations:

Pmax1: \_\_\_\_\_ Pmax2: \_\_\_\_\_ Pmax3: \_\_\_\_\_

Max. Design Pressure, From the Specific NOA 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

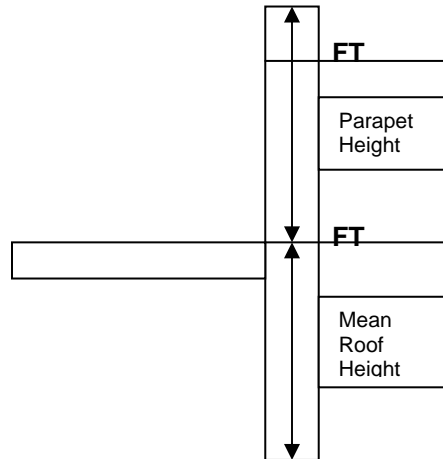
**Number of Fasteners Per Insulation Board**

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 Manufacture Details that Comply With RAS 111 and Chapter 16.



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**Section D (Steep Sloped Roof System)**

Roof System Manufacture _____
Product Approval number _____
<b>Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):</b>  P1: _____ P2: _____ P3: _____
<b>Maximum Design Pressure</b> Product Approval Specific System _____
<b>Method of Tile Attachment:</b> _____

**Step Sloped Roof System Description**

	Deck Type: <input style="width: 95%;" type="text"/>
	Type Underlayment: <input style="width: 95%;" type="text"/>
	Insulation: <input style="width: 95%;" type="text"/>
	Fire Barrier: <input style="width: 95%;" type="text"/>
Roof Slope _____:12	Fastener Type & Spacing: <input style="width: 95%;" type="text"/>
	Adhesive Type: <input style="width: 95%;" type="text"/>
Ridge Ventilation? _____	Type Cap Sheet: <input style="width: 95%;" type="text"/>
	Roof Covering: <input style="width: 95%;" type="text"/>
Mean Roof Height: _____	Type & Size Drip Cap: <input style="width: 95%;" type="text"/>

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**Section E (Tile Calculations)**

For moment based tile systems, chose either Method 1 Or 2. Compared the values for  $M_r$  with the values from  $M_r$ . If the  $M_r$  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”**

( $P_1$ : \_\_\_\_\_ x  $\lambda$  \_\_\_\_\_ = \_\_\_\_\_) -  $M_g$  \_\_\_\_\_ =  $M_{r,1}$  \_\_\_\_\_ Product Approval  $M_r$  \_\_\_\_\_  
 ( $P_2$ : \_\_\_\_\_ x  $\lambda$  \_\_\_\_\_ = \_\_\_\_\_) -  $M_g$  \_\_\_\_\_ =  $M_{r,2}$  \_\_\_\_\_ Product Approval  $M_r$  \_\_\_\_\_  
 ( $P_3$ : \_\_\_\_\_ x  $\lambda$  \_\_\_\_\_ = \_\_\_\_\_) -  $M_g$  \_\_\_\_\_ =  $M_{r,3}$  \_\_\_\_\_ Product Approval  $M_r$  \_\_\_\_\_

**Method 2 “ Simplified Tile Calculation per Table Below”**

Required Moment of Resistance ( $M_r$ ) From Table Below \_\_\_\_\_ Product Approval  $M_r$

<b><math>M_r</math> Required Moment of Resistance*</b>					
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. 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 is acceptable.

**Method 3 “Uplift Based Tile Calculations Per RAS 127”**

( $P_1$ : \_\_\_\_\_ x 1: \_\_\_\_\_ = \_\_\_\_\_ x  $w$ : \_\_\_\_\_) -  $w$ : \_\_\_\_\_ x  $\cos \theta$ : \_\_\_\_\_ =  $F_{r,1}$  \_\_\_\_\_ Product Approval  $F'$  \_\_\_\_\_  
 ( $P_2$ : \_\_\_\_\_ x 1: \_\_\_\_\_ = \_\_\_\_\_ x  $w$ : \_\_\_\_\_) -  $w$ : \_\_\_\_\_ x  $\cos \theta$ : \_\_\_\_\_ =  $F_{r,2}$  \_\_\_\_\_ Product Approval  $F'$  \_\_\_\_\_  
 ( $P_3$ : \_\_\_\_\_ x 1: \_\_\_\_\_ = \_\_\_\_\_ x  $w$ : \_\_\_\_\_) -  $w$ : \_\_\_\_\_ x  $\cos \theta$ : \_\_\_\_\_ =  $F_{r,3}$  \_\_\_\_\_ Product Approval  $F'$  \_\_\_\_\_

<b>Where to Obtain Information</b>		
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	$\theta$	Job Site
Aerodynamic Multiplier	$\lambda$	Product Approval
Restoring Moment due to Gravity	$M_g$	Product Approval
Attachment Resistance	$M_r$	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