

**SECTION 4402.14**  
**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 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.	<b>Fire Directory Listing Page</b>
2.	<b>From Product Approval:                      Front Page                      Specific System Description                      Specific System Limitations                      General Limitations                      Applicable Detail Drawings</b>
3.	<b>Design Calculations per Chapter 16, or If Applicable, RAS 127 or RAS 128</b>
4.	<b>Other Component of Product Approval</b>
5.	<b>Municipal Permit Application</b>
6.	<b>Owners Notification for Roofing Considerations (Reroofing Only)</b>
7.	<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
- 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.

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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:

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

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

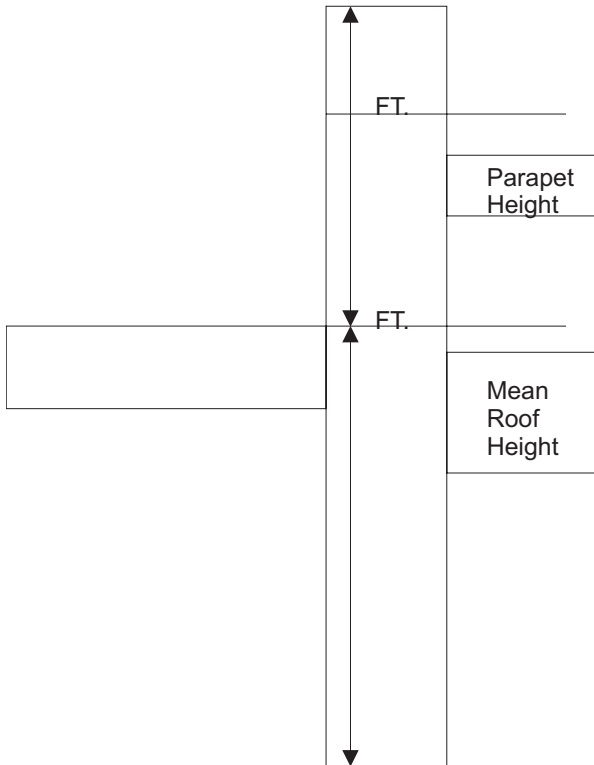
Number of Fasteners Per Insulation Board:

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



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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:** \_\_\_\_\_

**Maximum Design Pressure (From the Product Approval Specific System):**

**Steep Sloped Roof System Description**

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  $M_f$ . 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"

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

Method 2 "Simplified Tile Calculations Per Table Below"

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

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

\*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 "Moment Based Tile Calculations Per RAS 127"

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

<b>Where to Obtain Information</b>		
<b>Description</b>	<b>Symbol</b>	<b>Where to find</b>
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	$M_f$	Product Approval
Required Moment Resistance	$M_g$	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.