SECTION 1525
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 PERMIT APPLICATION FORM AND ATTACH THE REQUIRED DOCUMENTS AS NOTED BELOW:

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

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 ☐ Mechanically Fastened Tile ☐ Mortar/Adhesive Set Tile
☐ Asphalitic 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.
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-Flash, Coping, Etc.
Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit

Parapet Height
Mean Roof Height

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

<table>
<thead>
<tr>
<th>Roof System Manufacturer:</th>
<th>___________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notice of Acceptance Number:</td>
<td>___________________________</td>
</tr>
<tr>
<td>Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):</td>
<td>P1: ___________ P2: ___________ P3: ___________</td>
</tr>
<tr>
<td>Maximum Design Pressure (From the Product Approval Specific System):</td>
<td>___________________________</td>
</tr>
</tbody>
</table>

**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: ___________________________

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: \text{______} \times \lambda \text{______} = \text{______}) \times \text{M} \text{g:} \text{______} = M_{r1} \text{______} \quad \text{Product Approval \(M_f\ ____\)}
\]

\[
(P_2: \text{______} \times \lambda \text{______} = \text{______}) \times \text{M} \text{g:} \text{______} = M_{r2} \text{______} \quad \text{Product Approval \(M_f\ ____\)}
\]

\[
(P_3: \text{______} \times \lambda \text{______} = \text{______}) \times \text{M} \text{g:} \text{______} = M_{r3} \text{______} \quad \text{Product Approval \(M_f\ ____\)}
\]

**Method 2 “Simplified Tile Calculations Per Table Below”**

Required Moment of Resistance \((Mr)\) From Table Below _______  Product Approval \(M_f\ ____\)

<table>
<thead>
<tr>
<th>Mean Roof Height</th>
<th>15'</th>
<th>20'</th>
<th>25'</th>
<th>30'</th>
<th>40'</th>
</tr>
</thead>
<tbody>
<tr>
<td>roofing slope 2:12</td>
<td>34.4</td>
<td>36.5</td>
<td>38.2</td>
<td>39.7</td>
<td>42.2</td>
</tr>
<tr>
<td>roofing slope 3:12</td>
<td>32.2</td>
<td>34.4</td>
<td>36.0</td>
<td>37.4</td>
<td>39.8</td>
</tr>
<tr>
<td>roofing slope 4:12</td>
<td>30.4</td>
<td>32.2</td>
<td>33.8</td>
<td>35.1</td>
<td>37.3</td>
</tr>
<tr>
<td>roofing slope 5:12</td>
<td>28.4</td>
<td>30.1</td>
<td>31.6</td>
<td>32.8</td>
<td>34.9</td>
</tr>
<tr>
<td>roofing slope 6:12</td>
<td>26.4</td>
<td>28.0</td>
<td>29.4</td>
<td>30.5</td>
<td>32.4</td>
</tr>
<tr>
<td>roofing slope 7:12</td>
<td>24.4</td>
<td>25.9</td>
<td>27.1</td>
<td>28.2</td>
<td>30.0</td>
</tr>
</tbody>
</table>

*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: \text{______} \times \lambda \text{______} = \text{______}) \times \text{W:} \text{______} \times \cos \theta \text{______} = F_{r1} \text{______} \quad \text{Product Approval \(F'\ ____\)}
\]

\[
(P_2: \text{______} \times \lambda \text{______} = \text{______}) \times \text{W:} \text{______} \times \cos \theta \text{______} = F_{r2} \text{______} \quad \text{Product Approval \(F'\ ____\)}
\]

\[
(P_3: \text{______} \times \lambda \text{______} = \text{______}) \times \text{W:} \text{______} \times \cos \theta \text{______} = F_{r3} \text{______} \quad \text{Product Approval \(F'\ ____\)}
\]

Where to Obtain Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Symbol</th>
<th>Where to find</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Pressure</td>
<td>(P_1) or (P_2) or (P_3)</td>
<td>RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7</td>
</tr>
<tr>
<td>Mean Roof Height</td>
<td>(H)</td>
<td>Job Site</td>
</tr>
<tr>
<td>Roof Slope</td>
<td>(\theta)</td>
<td>Job Site</td>
</tr>
<tr>
<td>Aerodynamic Multiplier</td>
<td>(\lambda)</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Restoring Moment due to Gravity</td>
<td>(M_g)</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Attachment Resistance</td>
<td>(M_f)</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Required Moment Resistance</td>
<td>(M_g)</td>
<td>Calculated</td>
</tr>
<tr>
<td>Minimum Attachment Resistance</td>
<td>(F')</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Required Uplift Resistance</td>
<td>(F_r)</td>
<td>Calculated</td>
</tr>
<tr>
<td>Average Tile Weight</td>
<td>(W)</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Tile Dimensions</td>
<td>(L = \text{length}) (W = \text{width})</td>
<td>Product Approval</td>
</tr>
</tbody>
</table>

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