SECTION 1525
HIGH-VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION

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>Asphalitic 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
High-Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit Number ___________________  Process Number ___________________
Contractor’s Name ________________________
Job Address ____________________________________________

ROOF CATEGORY
☐ Low Slope  ☐ Mechanically Fastened Tile  ☐ Mortar/Adhesive Set Tile
☐ Asphalt Shingles  ☐ Metal Panels/Shingles  ☐ Wood Shingles/Shakes

Is there an existing Roof Top Solar System? ☐ Yes  ☐ No  Will it be reinstalled? ☐ Yes  ☐ No
Are there gas vents on the roof? ☐ Yes  ☐ No  Type?  ☐ Natural  ☐ LPGX

ROOF TYPE
☐ New Roof  ☐ Repair  ☐ Maintenance  ☐ Reroofing  ☐ Recovering

ROOF SYSTEM ROOF INFORMATION
Low Slope Roof Area (ft²) ___________  Steep Slope Roof Area (ft²) ___________  Total (ft²) ___________

Sketch the Roof Plan: Illustrate all levels and sections, roof drain, scuppers, overflow scuppers and overflow drains.
Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and locations 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:
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.
Section E (Tile Calculations)
For Moment based tile systems, choose either Method 1 or 2. Compare the values for M, with the values from M. If the M, values are greater than or equal to the M, values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 “Moment Based Tile Calculations Per RAS 127”
(P1: ___ x λ = ____) – Mg: ___ = M,1 ___ Product Approval M,1
(P2: ___ x λ = ____) – Mg: ___ = M,2 ___ Product Approval M,2
(P3: ___ x λ = ____) – Mg: ___ = M,3 ___ Product Approval M,3

Method 2 “Simplified Tile Calculations Per Table Below”
Required Moment of Resistance (M,) From Table Below Product Approval M,____

<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>Roof Slope</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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>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>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>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>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>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 Fr. If the F' values are greater than or equal to the Fr values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 “Uplift Based Tile Calculations Per RAS 127”
(P1: ___ x L = ___ x w: = ___) – W: ___ x cos Θ = F,1 ___ Product Approval F,1
(P2: ___ x L = ___ x w: = ___) – W: ___ x cos Θ = F,2 ___ Product Approval F,2
(P3: ___ x L = ___ x w: = ___) – W: ___ x cos Θ = F,3 ___ Product Approval F,3

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>P1 or P2 or P3</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>Ω</td>
<td>Job Site</td>
</tr>
<tr>
<td>Aerodynamic Multiplier</td>
<td>λ</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Restoring Moment due to Gravity</td>
<td>M,9</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Attachment Resistance</td>
<td>M,1</td>
<td>Product Approval</td>
</tr>
<tr>
<td>Required Moment Resistance</td>
<td>M,5</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,7</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 = length W = width</td>
<td>Product Approval</td>
</tr>
</tbody>
</table>

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