## SECTION 1525
## HIGH-VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION

### *Florida Building Code* 6th Edition (2017)
### 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. | Fire Directory Listing Page |
| 2. | From Product Approval:<br>Front Page<br>Specific System Description<br>Specific System Limitations<br>General Limitations<br>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
- ☐ Asphaltic Shingles
- ☐ Mechanically Fastened Tile
- ☐ Metal Panel/Shingles
- ☐ Prescriptive BUR-RAS 150
- ☐ Mortar/Adhesive Set Tiles
- ☐ Wood Shingles/Shakes

**ROOF TYPE**

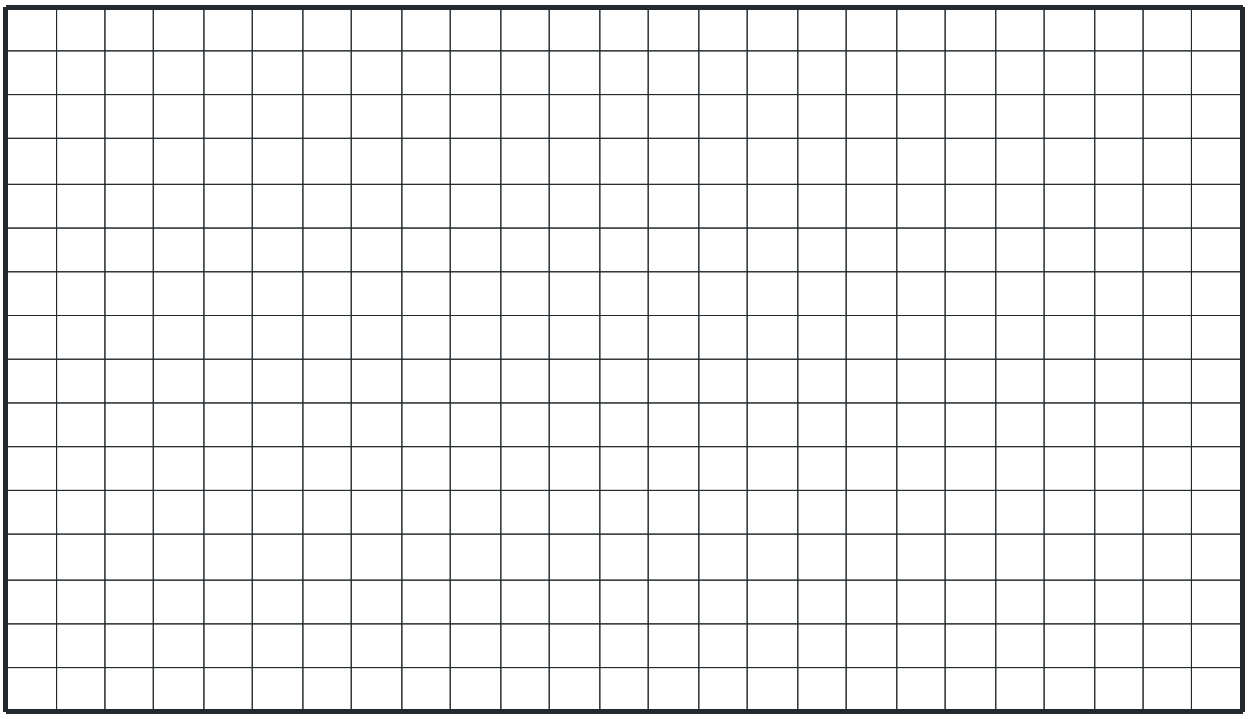
☐ New roof ☐ Repair ☐ Maintenance ☐ Reroofing ☐ Recovering

**ROOF SYSTEM INFORMATION**

Low Slope Roof Area (SF)_____ Steep Sloped Roof AREA (SSF)_____ 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 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

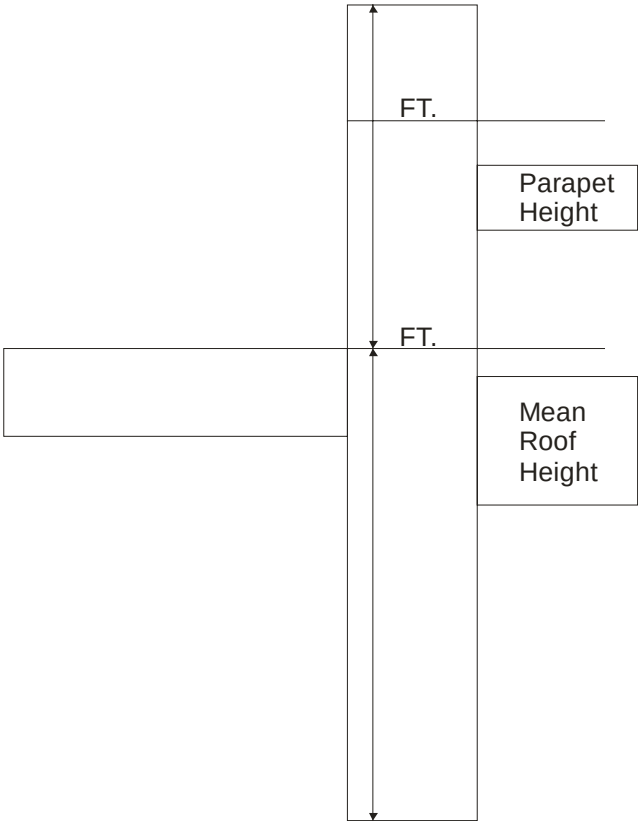
Corner: ____" oc @ Lap, # Rows ____ @ ____" oc

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.



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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: _____ P1: _____ P1: _____

Roof Slope:
_____: 12

Ridge Ventilation?
_____

Mean Roof Height: _____

Deck Type:

Type Underlayment:

Insulation:

Fire Barrier:

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Type & Size Drip Edge:

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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"

(P1:____ x λ ____ = ____) – Mg: ____ = $M_{r1}$ ____ Product Approval $M_f$ _____

(P2:____ xλ ____ = ____) – Mg: ____ = $M_{r2}$ ____ Product Approval $M_f$ _____

(P3:____ xλ ____ = ____) – 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 $M_f$ _____

| $M_r$ required Moment Resistance* | | | | | |
|---|---|---|---|---|---|
| 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. 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 ____ = $F_{r1}$ ____ Product Approval F' _____

(P2:____ x L ____ = ____ x w: = ____) – W: ____ x cos Θ ____ = $F_{r2}$ ____ Product Approval F' _____

(P3:____ x L ____ = ____ x w: = ____) – W: ____ x cos Θ ____ = $F_{r3}$ ____ Product Approval F' _____

| **Where to Obtain Information** | | |
|---|---|---|
| **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 | 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 | $M_g$ | 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. | | |