

**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                       Mechanically Fastened Tile                       Mortar/Adhesive Set Tile

Asphaltic Shingles                       Metal Panel/Shingles                       Wood Shingles/Shakes

Prescriptive BUR-RAS 150

ROOF TYPE

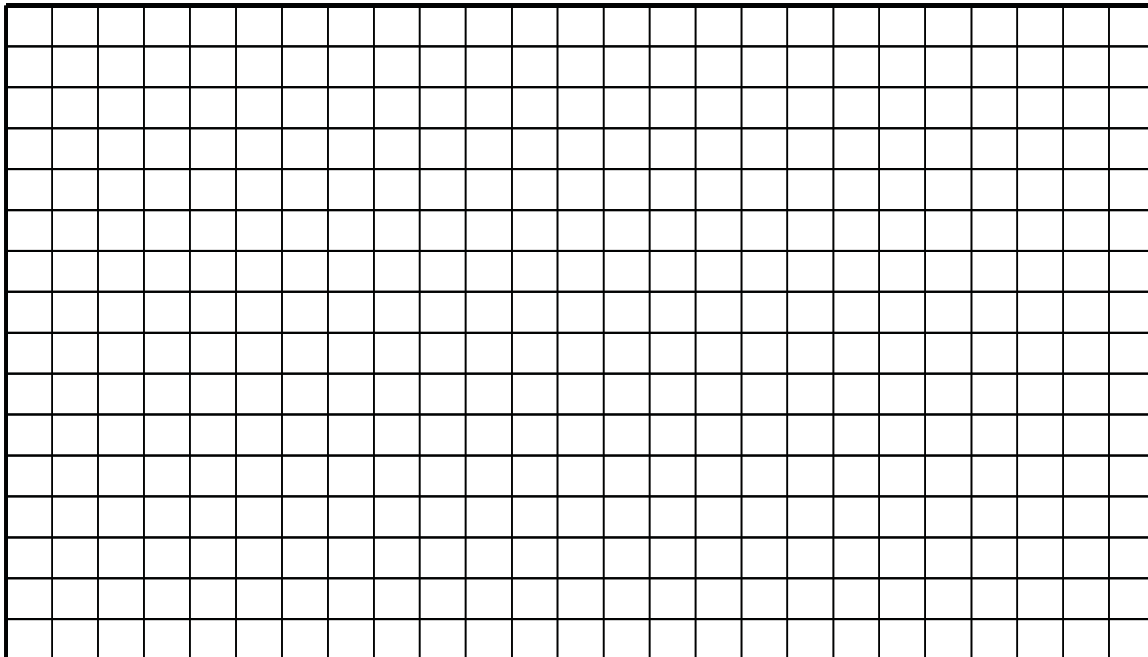
New Roof                       Repair                       Maintenance                       Reroofing                       Recovering

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 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

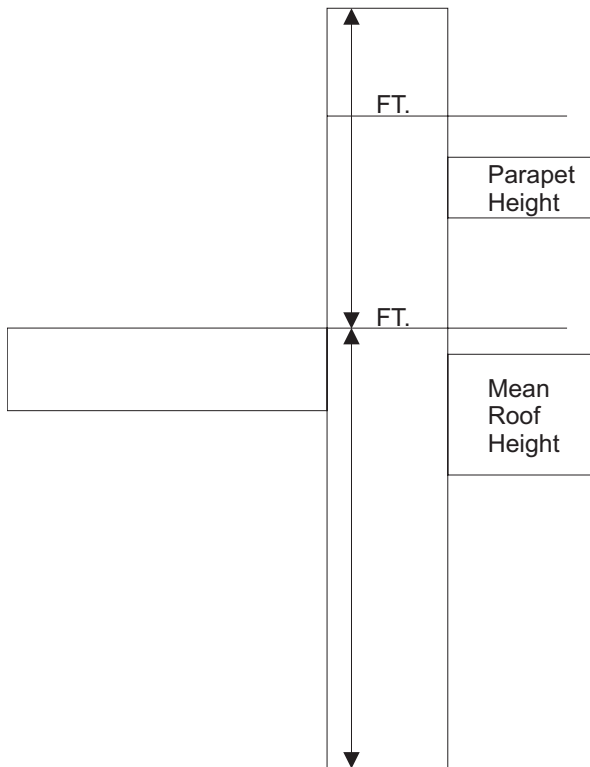
Number of Fasteners Per Insulation Board:

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)**

|  |
|--|
| <b>Roof System Manufacturer:</b><br>_____  |
| <b>Notice of Acceptance Number:</b><br>_____   |
| <b>Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):</b><br>P1: _____ P2: _____ P3: _____ |
| _____  |

**Steep Sloped Roof System Description**

The diagram shows a cross-section of a steep sloped roof system. A diagonal line represents the roof slope. To the left of the slope, there are input boxes for 'Roof Slope: \_\_\_\_\_ : 12', 'Ridge Ventilation?' (with a checkmark box), and 'Mean Roof Height: \_\_\_\_\_'. To the right of the slope, there are input boxes for 'Deck Type:', 'Type Underlayment:', 'Insulation:', 'Fire Barrier:', 'Fastener Type & Spacing:', 'Adhesive Type:', 'Type Cap Sheet:', 'Roof Covering:', and 'Type & Size Drip Edge:'. A small detail drawing shows a vertical wall and a horizontal surface meeting at a corner, with a drip edge profile extending from the roof surface over the edge of the wall.

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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"

$(P_1: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r1} \text{_____}$       Product Approval  $M_f$  \_\_\_\_\_

$(P_2: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r2} \text{_____}$       Product Approval  $M_f$  \_\_\_\_\_

$(P_3: \text{_____} \times \lambda \text{_____} = \text{_____}) - Mg: \text{_____} = M_{r3} \text{_____}$       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 →<br/>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"

$(P_1: \text{_____} \times L \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r1} \text{_____}$       Product Approval  $F'$  \_\_\_\_\_

$(P_2: \text{_____} \times L \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r2} \text{_____}$       Product Approval  $F'$  \_\_\_\_\_

$(P_3: \text{_____} \times L \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \theta \text{_____} = F_{r3} \text{_____}$       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<br>W = width | Product Approval   |

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

## SECTION 1524 - HIGH VELOCITY HURRICANE ZONES REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

**1524.1 Scope.** As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the *Florida Building Code, Building* govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

**1523.6.5.2.17.6** Tested for water absorption in compliance with ASTM D2842 with a maximum requirement of 10 percent.  
**1523.6.5.2.17.7** Tested in compliance with ASTM E96 for moisture vapor transmission for maximum of 3.1 perms.

\_\_\_\_\_ **1. Aesthetics-Workmanship:** The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

\_\_\_\_\_ **2. Renailing Wood Decks:** When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the *Florida Building Code, Building*. (The roof deck is usually concealed prior to removing the existing roof system).

\_\_\_\_\_ **3. Common Roofs:** Common roofs are those which have no visible delineation between neighboring units (i.e., townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

\_\_\_\_\_ **4. Exposed ceilings:** Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The provides the option of maintaining this appearance.

\_\_\_\_\_ **5. Ponding Water:** The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

\_\_\_\_\_ **6. Overflow Scuppers (wall outlets):** It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of Chapter 15 and 16 herein and the *Florida Building Code, Plumbing*.

\_\_\_\_\_ **7. Ventilation:** Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced.

**Exception:** Attic spaces, designed by a Florida licensed engineer or registered architect to eliminate the attic venting, venting shall not be required.

|                  |
|------------------|
| <b>COMMENTS:</b> |
|                  |
|                  |
|                  |

\_\_\_\_\_  
Owner's/Agent's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor's Signature



**SINGLE FAMILY RE-ROOFING AFFIDAVIT**

**Job Address:** \_\_\_\_\_ **Permit#:** \_\_\_\_\_

Florida Statue 553.844, FBC 2017 6<sup>th</sup> Edition Section 706.8(Existing Building code) Hurricane Mitigation retrofits requires this Affidavit along with the High Velocity Hurricane Zone Uniform Permit application form.

**1) Was the dwelling permitted before 1994? (Year \_\_\_\_\_)**

**No**  If "No" **Stop** here and submit application

**Yes**  If "Yes" **Continue** to the next step

**2) Is the value of the dwelling more than \$300,000? Yes  No**

**If "No" provide a copy of the: Ad Valorem taxation or a copy of the Insured value**

**If "Yes" then the following documents are required:**

**a) Roof to Wall connection Certificate in accordance with sections **706.8.1 FBC 2017** 6<sup>th</sup> Existing Building Code**

**b) Copy of the Proposal showing cost of retrofit hips or gables up to 15% of cost of roof**

**706.8.1.1 Thru 7 Priorities for mandated roof-to-wall retrofit expenditures.**

Priority shall be given to connecting the exterior corners of roofs to walls where the spans of the roofing members are greatest. For houses with both hip and gable roof ends, the priority shall be to retrofit the gable end roof-to-wall connections unless the width of the hip end is more than 1.5 times greater than the width of the gable end. When considering priorities for houses with both hip and gable roof ends, and the 15% of the cost of roof replacement is sufficient to complete all of the prioritized elements pursuant to this section, but is not sufficient to complete all of the no prioritized elements, then no portion of complete retrofit of the non-prioritized element is required.

- |   |   |
|---|---|
| <input type="checkbox"/> Florida Registered Professional Engineer                   | <input type="checkbox"/> Florida Registered Architect |
| <input type="checkbox"/> Licensed General Contractor                                | <input type="checkbox"/> Residential Contractor       |
| <input type="checkbox"/> Person certified in the structural discipline under FS 468 | <input type="checkbox"/> table 706.8.1                |
| <input type="checkbox"/> Engineered Design Prescriptive 706.8.1 thru 706.8.1.7      |   |

I hereby certify that the roof-to-wall connections comply or exceeds the requirements mentioned above.

**Certifier (Print):** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**License #:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_.

Who is personally known by me \_\_\_\_\_ or Produced ID \_\_\_\_\_

\_\_\_\_\_  
Notary Public, State of Florida

**Notary Seal:**