

# BAL HARBOUR

- VILLAGE -

**Florida Building Code 5<sup>th</sup> Edition 2014**  
**HIGH VELOCITY HURRICANE ZONE UNIFORM ROOFING PERMIT APPLICATION**

## INSTRUCTION PAGE

**COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND ATTACH THE REQUIRED DOCUMENTS AS NOTED BELOW.**

<b>Roof System</b>	<b>Required sections of the Permit Application Form</b>	<b>Attachments Required See List Below</b>
Low Slope Application	A,B,C	1,2,3,4,5,6,7
Prescriptive BUR RAS 150	A,B,C	4,5,6,7
Asphatic 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

## REQUIRED ATTACHMENTS

1. Fire Directory Listing Page
2. From **Notice of Acceptance**:
  - ❖ 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 Notice of Acceptances
5. Municipal Permit Application
6. Owners Notification for Roofing Considerations (Re-roofing Only)
7. Any Required Roof Testing/Calculation Documentation

Any other additional data reasonably required by the Building Official to determine the integrity of the roofing system.

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**Section A (General Information)**

Master Permit No. \_\_\_\_\_ Process No. \_\_\_\_\_

Contractor's Name \_\_\_\_\_

Job Address \_\_\_\_\_

**Roof Category**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Low slope          | <input type="checkbox"/> Mechanically Fastened Tile | <input type="checkbox"/> Mortar/Adhesive Set Tile |
| <input type="checkbox"/> Asphaltic Shingles | <input type="checkbox"/> Metal Panel/Shingles       | <input type="checkbox"/> Wood Shingles/Shakes     |
|   | <input type="checkbox"/> Prescriptive BUR-RAS 150   |   |

**Are there**

**Gas Vent Stacks?**

Yes  No

Type: Natural  LPGX

**Roof Type**

- New Roof     Re-roofing     Recovering     Repair     Maintenance

**Roof System Information**

Low Slope Roof Area (SF)

Step Sloped Roof Area (SF)

Total (SF)

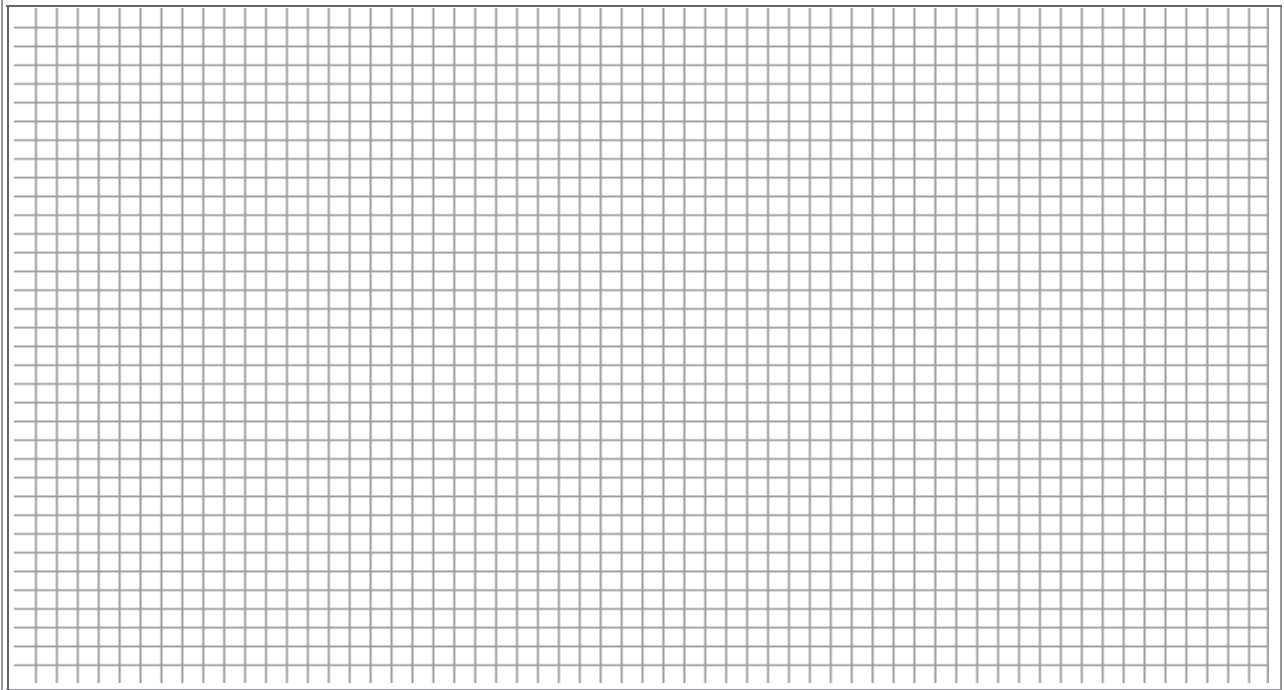
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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 Sloped Roof System)**

**Fill in the specific Roof Assembly Components and Identify Manufacturer (If a component is not used, identify as "NA")**

System Manufacturer: \_\_\_\_\_

NOA No: \_\_\_\_\_

Design Wind Pressures, From RAS 128 or Calculations:

Pmax 1: \_\_\_\_\_ Pmax 2: \_\_\_\_\_ Pmax 3: \_\_\_\_\_

Maximum Design Pressure, From the Specific NOA 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: \_\_\_\_\_ "o/c @ laps & \_\_\_\_\_ rows @ \_\_\_\_\_ "o/c

Perimeter: \_\_\_\_\_ "o/c @ laps & \_\_\_\_\_ rows @ \_\_\_\_\_ "o/c

Corner: \_\_\_\_\_ "o/c @ laps & \_\_\_\_\_ rows @ \_\_\_\_\_ "o/c

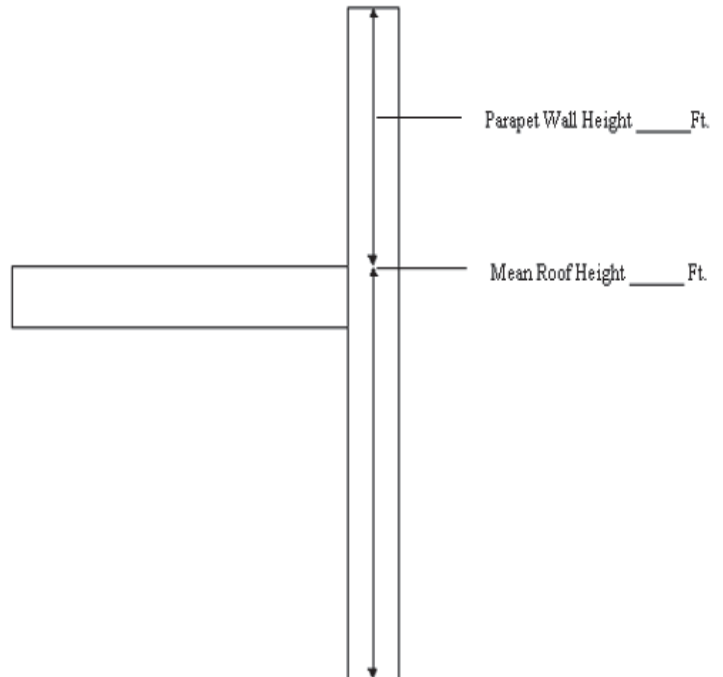
Number of Fasteners Per Insulation Board

Field \_\_\_\_\_ Perimeter \_\_\_\_\_ Corner \_\_\_\_\_

**Illustrate Components Noted and Details As Applicable:**

Wood-blocking, Gutter, Edge Terminations, 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 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):**

**P 1:** \_\_\_\_\_ **P 2:** \_\_\_\_\_ **P 3:** \_\_\_\_\_

**Maximum Design Wind Pressure  
(From the NOA Specific System):** \_\_\_\_\_

**Method of tile attachment:** \_\_\_\_\_

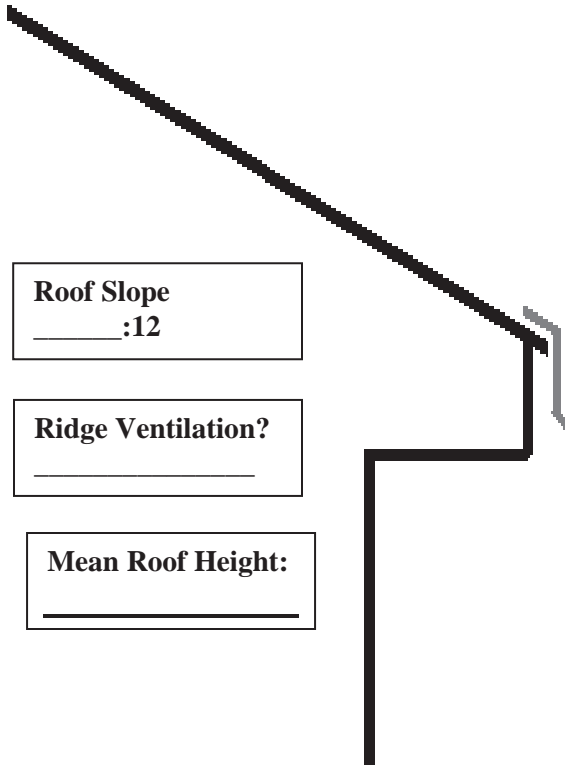
**Steep Sloped Roof System Description**

Deck Type: \_\_\_\_\_

Underlayment Type: \_\_\_\_\_

Insulation: \_\_\_\_\_

Fire Barrier: \_\_\_\_\_



<b>Fastener Type &amp; Spacing:</b> _____
<b>Adhesive Type:</b> _____
<b>Type Cap Sheet:</b> _____
<b>Roof Covering:</b> _____
<b>Type &amp; Size Drip Edge:</b> _____

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**SECTION E (Tile Calculations)**

For moment based tile systems, chose either Method 1 or 2. Compare the values for  $M_r$  with the values from  $M_f$ . If the  $M_r$  values are greater than or equal to the  $M_f$  values, for each area of the roof, then the tile attachment method is acceptable.

**Method 1 “Moment Based Tile Calculations Per RAS 127”**

$P_1: \underline{\hspace{2cm}} \times \lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ) } -M_g: \underline{\hspace{2cm}} = M_{r1}: \underline{\hspace{2cm}} \quad \text{NOA } M_f: \underline{\hspace{2cm}}$   
 $P_2: \underline{\hspace{2cm}} \times \lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ) } -M_g: \underline{\hspace{2cm}} = M_{r1}: \underline{\hspace{2cm}} \quad \text{NOA } M_f: \underline{\hspace{2cm}}$   
 $P_3: \underline{\hspace{2cm}} \times \lambda \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ) } -M_g: \underline{\hspace{2cm}} = M_{r1}: \underline{\hspace{2cm}} \quad \text{NOA } M_f: \underline{\hspace{2cm}}$

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

Required Moment of Resistance ( $M_r$ ) From Table Below:  $\underline{\hspace{2cm}}$                       NOA  $M_f: \underline{\hspace{2cm}}$

<b><math>M_r</math> Required Moment Resistance*</b>					
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

\*This 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. Compare 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 “Uplift Based Tile Calculations Per RAS 127”**

$(P_1: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: \underline{\hspace{2cm}}) - w: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = F_{r1}: \underline{\hspace{2cm}} \quad \text{NOA } F': \underline{\hspace{2cm}}$   
 $(P_2: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: \underline{\hspace{2cm}}) - w: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = F_{r2} \quad \text{NOA } F': \underline{\hspace{2cm}}$   
 $(P_3: \underline{\hspace{2cm}} \times l: \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times w: \underline{\hspace{2cm}}) - w: \underline{\hspace{2cm}} \times \cos \theta: \underline{\hspace{2cm}} = F_{r3} \quad \text{NOA } F': \underline{\hspace{2cm}}$

**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 a P.E. based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	$\theta$	Job Site
Aerodynamic Multiplier	$\lambda$	NOA
Restoring Moment due to Gravity	$M_g$	NOA
Attachment Resistance	$M_f$	NOA
Required Moment Resistance	$M_r$	Calculated
Minimum Attachment Resistance	$F'$	NOA
Required Uplift Resistance	$F_r$	Calculated
Average Tile Weight	W	NOA
Tile Dimensions	l = length w = width	NOA

All calculations must be submitted to the Building Official at the time of permit application.

# BAL HARBOUR

- V I L L A G E -

## 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.

**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. Reroofing wood decks:** When replacing roofing, the existing wood roof deck may have to be reroofed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the Florida Building Code. (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 owner 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 flows 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.

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

Contractor's Signature: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Property Address: \_\_\_\_\_

# BAL HARBOUR

- VILLAGE -

All roofing applications require this Rooftop Equipment Affidavit along with the High Velocity Hurricane Zone Uniform Permit Application Form.

## ROOFTOP EQUIPMENT AFFIDAVIT

Process# \_\_\_\_\_ Permit # \_\_\_\_\_

Address: \_\_\_\_\_ Lot: \_\_\_\_\_ Block: \_\_\_\_\_

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Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name of Qualifier: \_\_\_\_\_ License #: \_\_\_\_\_

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Is there any equipment on the rooftop?

No  Yes

If yes: Is there an existing code-approved curb or stand? Yes  No

If curb or stand is proposed, two (2) copies of plans sealed by an engineer showing the attachment of stand/curb to roof and to the equipment are required. These plans must be according to Florida Building Code Section 1525 in its entirety. Upon submittal of an alteration or addition of a curb or stand, the Planning Division may determine the alteration of an existing screening device or addition of a screening device may be required.

Is there any electrical work to be completed?

No  Yes If Yes: An electrical permit application is needed.

\_\_\_\_\_  
Qualifier/Contractor Signature Date

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Print name of person signing document \_\_\_\_\_

Sworn to(or affirmed) and subscribed before me this \_\_\_\_/\_\_\_\_/\_\_\_\_

Who is personally known \_\_\_\_\_ OR Produced ID \_\_\_\_\_

\_\_\_\_\_  
Notary Public Signature Notary Seal

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