

BAL HARBOUR

- VILLAGE -

Florida Building Code 6th Edition 2017
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.

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
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

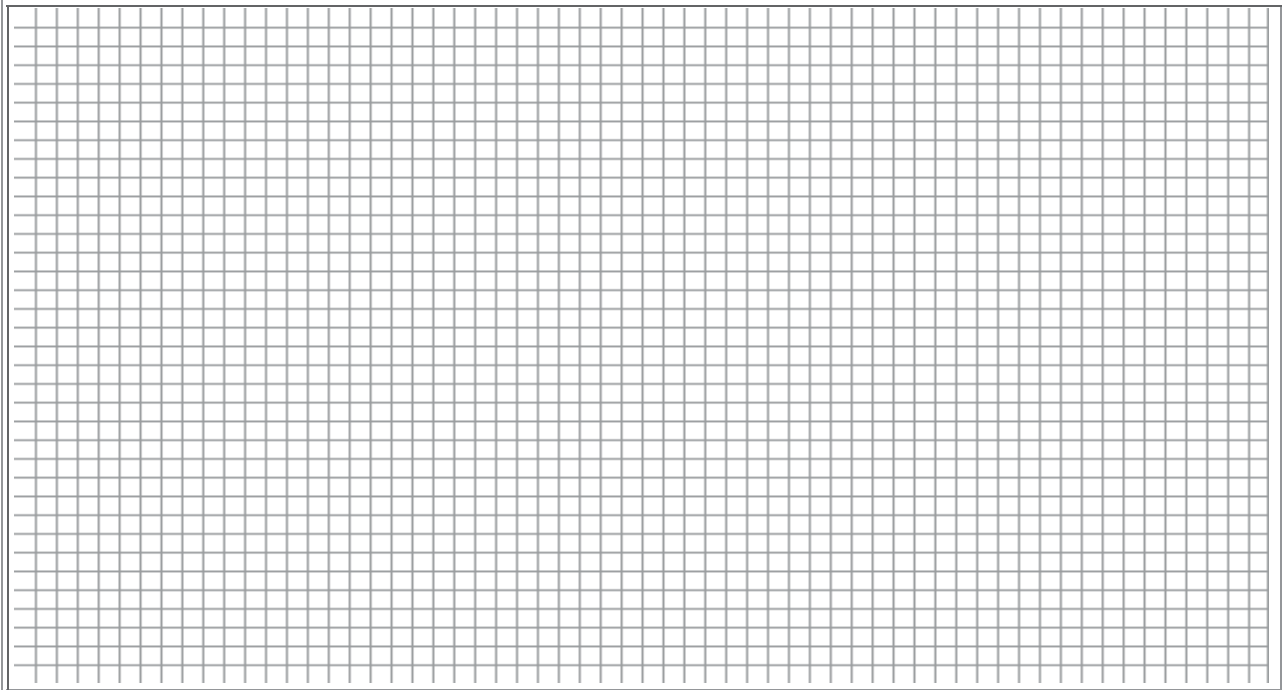
Low Slope Roof Area (SF)

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

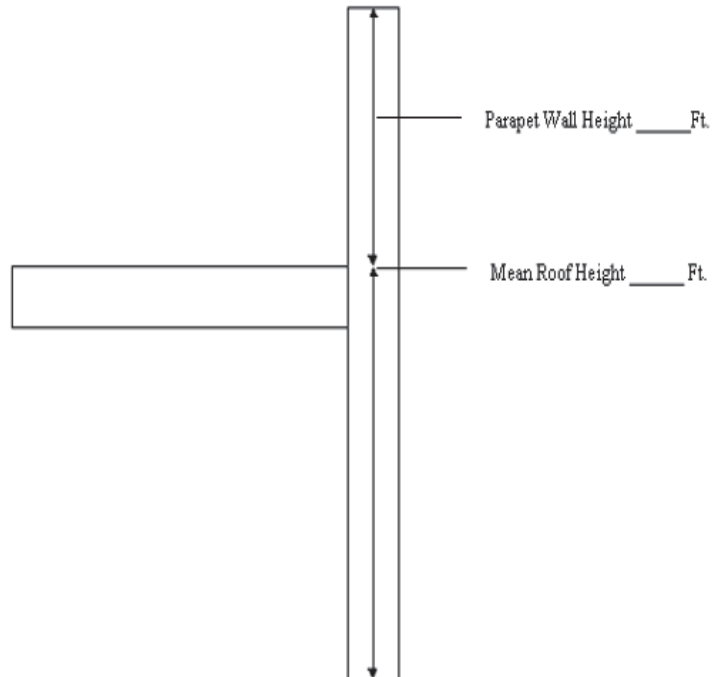
Number of Fasteners Per Insulation Board

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: _____

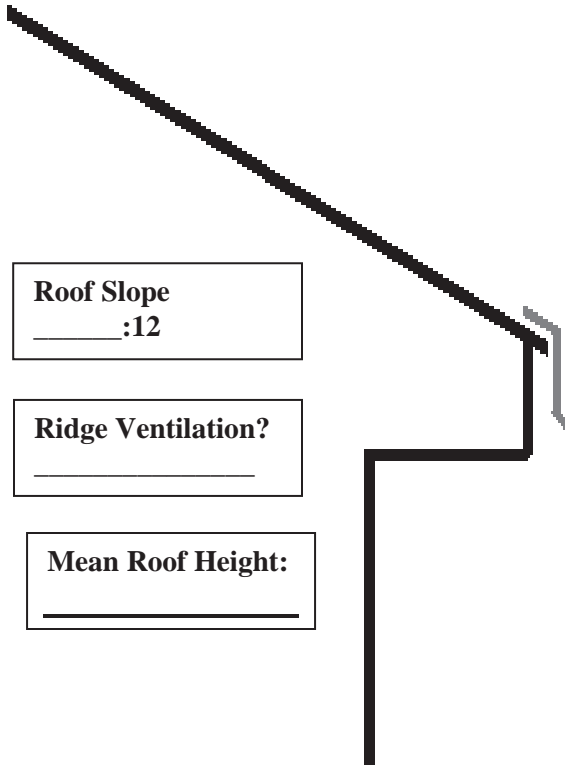
Steep Sloped Roof System Description

Deck Type: _____

Underlayment Type: _____

Insulation: _____

Fire Barrier: _____



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, 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”

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

Method 2 “Simplified Tile Calculation Per Table Below”

Required Moment of Resistance (M_r) From Table Below: _____ NOA 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

*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”

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

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	θ	Job Site
Aerodynamic Multiplier	λ	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.

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- V I L L A G E -

SECTION 1524

HIGH VELOCITY HURRICANE ZONES REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 Scope. 1524.1 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 adjacent box 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) issues 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. Rerailing Wood Decks:** When replacing roofing, the existing wood roof deck may have to be rerailed 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 Florida Building Code 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 build up 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 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. It may be beneficial to consider additional venting which can result in extending the service life of the roof.

Owner's/Agent's Signature: _____ Date: ____/____/____

Contractor's Signature: _____ Permit Number: _____

Property Address: _____

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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: _____

Company Name: _____

Address: _____

Name of Qualifier: _____ License #: _____

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

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
