



100 W. Atlantic Blvd Pompano Beach, FL 33060
Phone: 954.786.4669 Fax: 954.786.4677

City of Pompano Beach
Department of Development Services
Building Inspections Division

High Velocity Hurricane Zones Uniform Permit Application
Florida Building Code 7th Edition 2020

**SECTION 1525
HIGH-VELOCITY HURRICANE ZONES – UNIFORM PERMIT APPLICATION**

Florida Building Code 7th Edition (2020)
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: 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 Product Approval
5.	Municipal Permit Application
6.	Owner's 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

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

ROOF TYPE

- | | | | | |
|-----------------------------------|---------------------------------|--------------------------------------|------------------------------------|-------------------------------------|
| <input type="checkbox"/> New Roof | <input type="checkbox"/> Repair | <input type="checkbox"/> Maintenance | <input type="checkbox"/> Reroofing | <input type="checkbox"/> 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 Sloped Roof Systems)

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:

Zone 1': _____ Zone 1: _____ Zone 2: _____ Zone 3: _____

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:

Zone 1': _____" oc @ Lap, # Rows _____ @ _____" oc

Zone 1: _____" oc @ Lap, # Rows _____ @ _____" oc

Zone 2: _____" oc @ Lap, # Rows _____ @ _____" oc

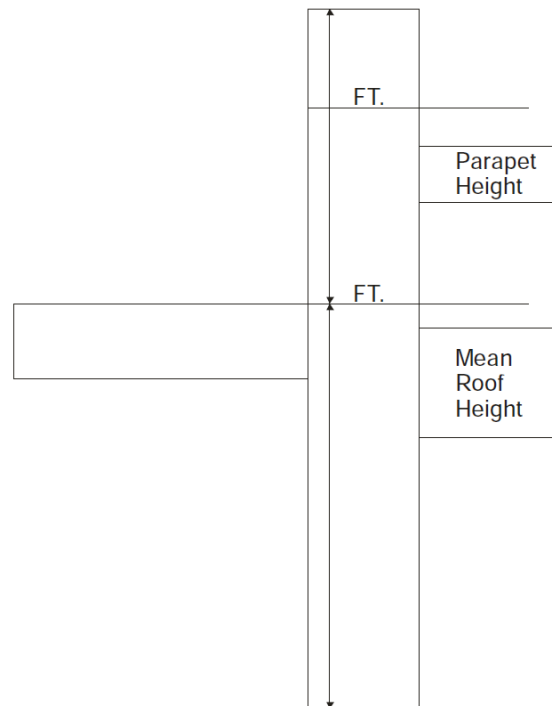
Zone 3: _____" oc @ Lap, # Rows _____ @ _____" oc

Number of Fasteners Per Insulation Board:

Zone 1': _____ Zone 1: _____ Zone 2: _____ Zone 3: _____

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):

Zone 1: _____ Zone 2e: _____ Zone 2n: _____ Zone 2r: _____ Zone 3e: _____ Zone 3r: _____

Deck Type:

Type Underlayment:

Insulation:

Fire Barrier:

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Type & Size
Drip Edge:

Roof Slope:

_____: 12

Ridge Ventilation?

Mean Roof Height:



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Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values of 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"

(Zone 1: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r1} _____	Product Approval M_f _____
(Zone 2e: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2e} _____	Product Approval M_f _____
(Zone 2n: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2n} _____	Product Approval M_f _____
(Zone 2r: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2r} _____	Product Approval M_f _____
(Zone 3e: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r3e} _____	Product Approval M_f _____
(Zone 3r: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r3r} _____	Product Approval M_f _____

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below: _____ M_f Product Approval _____

Mr Required Moment Resistance *					
Mean Roof Height →	15'	20'	25'	30'	40'
Roof Slope ↓					
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. 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 Title Calculations Per RAS 127"

(Zone 1: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r1} _____	Product Approval F' _____
(Zone 2e: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r2e} _____	Product Approval F' _____
(Zone 2n: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r2n} _____	Product Approval F' _____
(Zone 2r: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r2r} _____	Product Approval F' _____
(Zone 3e: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r3e} _____	Product Approval F' _____
(Zone 3r: _____ $\times L$ _____ = _____ $\times w$ = _____) – W : _____ $\times \cos r$ _____ = F_{r3r} _____	Product Approval F' _____

Where to obtain Information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2e, 2n, 2r, 3e, 3r	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.		



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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 initials in the designated space indicates that the item has been explained.

Owner
Initial

1. **Aesthetics-workmanship.** Reserved.

Owner
Initial

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.)

Owner
Initial

3. **Common roofs.** Reserved.

Owner
Initial

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.

Owner
Initial

5. **Ponding water.** Reserved.

Owner
Initial

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: Chapters 15 and 16 herein and the *Florida Building Code, Plumbing*.

Owner's / Agent's Signature

Date

Contractor's Signature

Date