SECTION 1525
HIGH-VELOCITY HURRICANE ZONES UNIFORM PERMIT APPLICATION
Florida Building Code Edition 2004

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 of Product Approval
5.	Municipal Permit Application
6.	Owners Notification for Roofing Considerations (Reroofing Only)
7.	Any Required Roof Testing/Calculation Documentation

Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

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

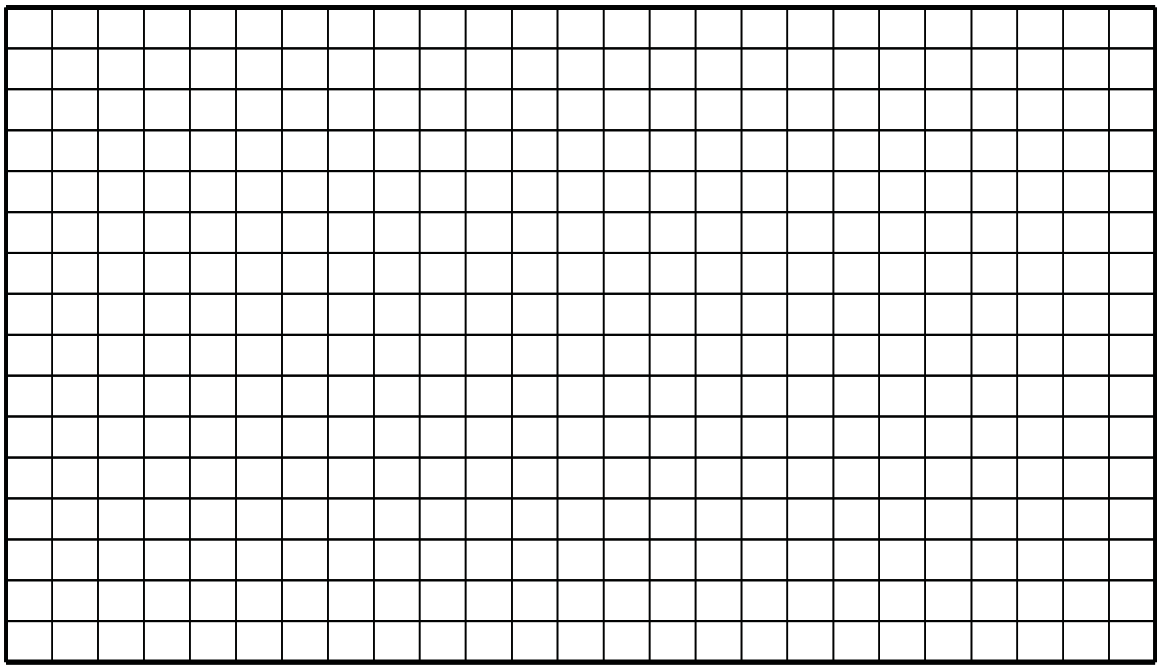
☐ **New Roof** ☐ **Reroofing** ☐ **Recovering** ☐ **Repair** ☐ **Maintenance**

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.



Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

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

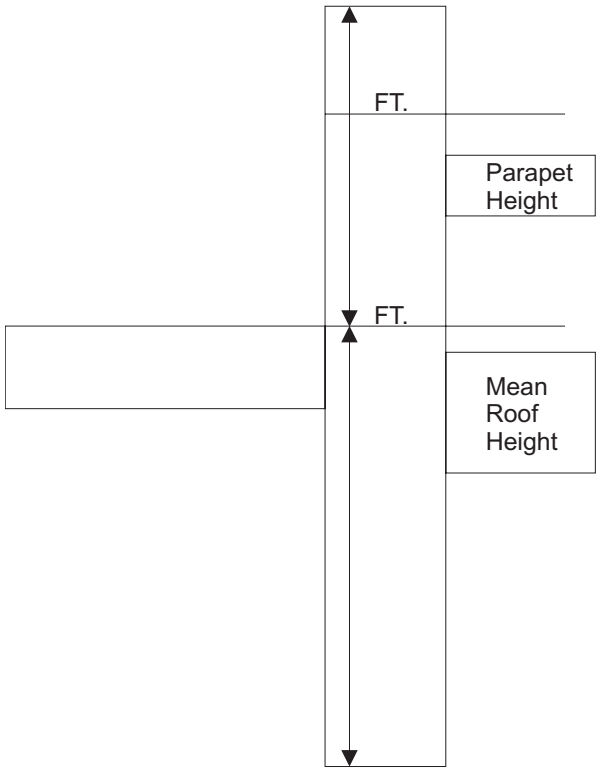
Number of Fasteners Per Insulation Board:

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



Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

Section D (Steep Sloped Roof System)

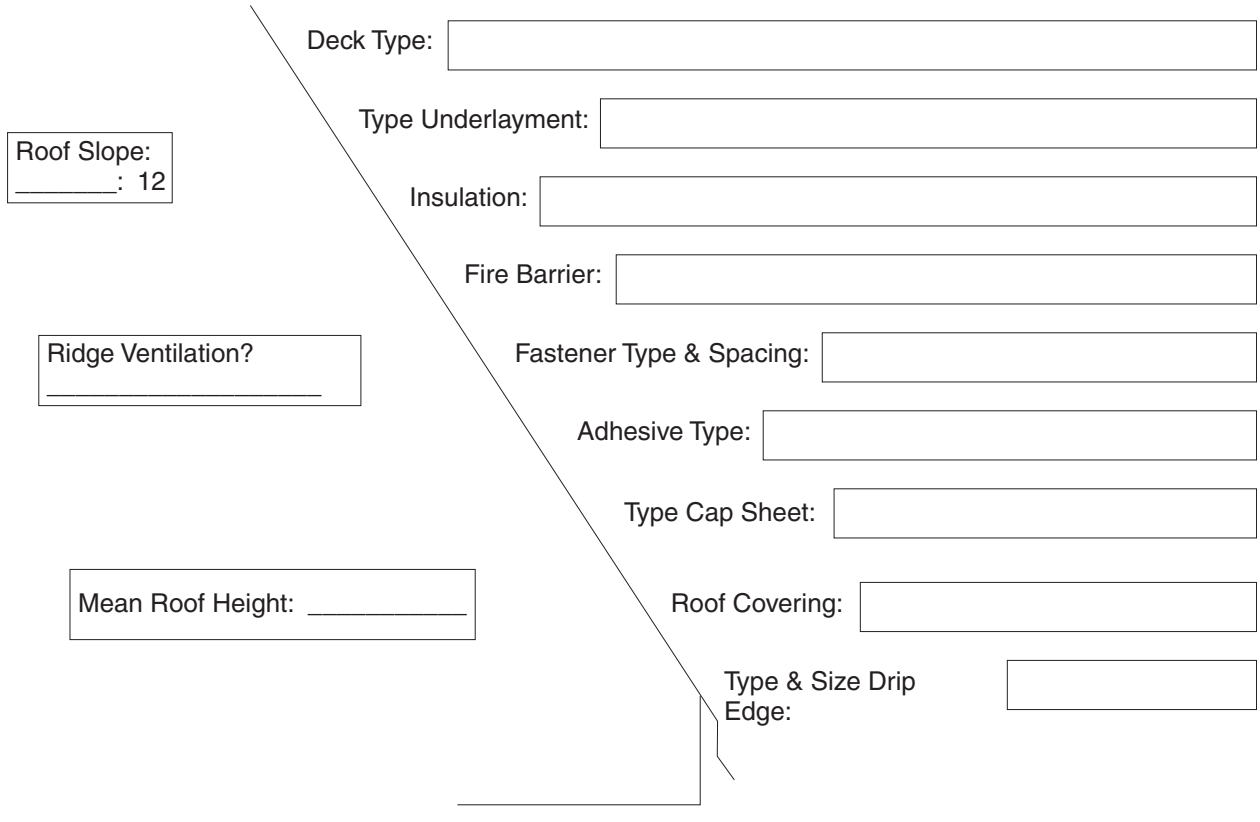
Roof System Manufacturer:
_____

Notice of Acceptance Number:
_____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
P1: _____ P2: _____ P3: _____

Maximum Design Pressure (From the Product Approval Specific System):
_____

Steep Sloped Roof System Description



Florida Building Code Edition 2004

High-Velocity Hurricane Zone Uniform Permit Application Form.

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: _____ × λ _____ =_____) - Mg: _____ = M_{r1} _____ Product Approval M_f _____

(P_2: _____ × λ _____ =_____) - Mg: _____ = M_{r2} _____ Product Approval M_f _____

(P_3: _____ × λ _____ =_____) - Mg: _____ = M_{r3} _____ Product Approval M_f _____

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (Mr) 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 "Moment Based Tile Calculations Per RAS 127"

(P_1: _____ × L _____ =_____ × w: = _____) - W: _____ × cos θ _____ = F_{r1} _____ Product Approval F′ _____

(P_2: _____ × L _____ =_____ × w: = _____) - W: _____ × cos θ _____ = F_{r2} _____ Product Approval F′ _____

(P_3: _____ × L _____ =_____ × w: = _____) - W: _____ × 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	Fr	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.		