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	А, В, С	1, 2, 3, 4, 5, 6, 7
Prescriptive BUR-RAS 150	А, В, С	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

	Se	ection A (General Information	on)			
Master Permit No			Process	No		
Contractor's Name						
Job Address						
		ROOF CATEGORY				
Low Slope	Γ	Mechanically Fastened Tile	🗆 Mo	rtan/Adhesiv	hesive Set Tiles	
Asphaltic Shingles	Γ	Metal Panel/Shingles	🗆 Wo	od Shingles/	Shakes	
	Γ	Prescriptive BUR-RAS 150				
		ROOF TYPE				
New Roof	🗆 Repair	Maintenance	🗆 Reroofi	ng 🗆	Recovering	
		ROOF SYSTEM INFORMATION				
Low Slope Roof Area (SF <u>)</u>	5	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.



Section C (Low Sloped Roof Systems)

Section C (Low Sloped Root Systems)	Surfacing:
Fill in specific roof assembly components and identify manufacturer	Fastener Spacing for Anchor/Base Sheet Attachment:
(If a component is not used, identify as "NA")	Zone 1':" oc @ Lap, # Rows @" oc
System Manufacturer:	Zone 1:" oc @ Lap, # Rows @" oc
Product Approval No.:	Zone 2:" oc @ Lap, # Rows @" oc
Design Wind Pressures, From RAS 128 or Calculations:	Zone 3:" oc @ Lap, # Rows @" oc
Zone 1': Zone 1: Zone 2: Zone 3:	Number of Fasteners Per Insulation Board:
Max. Design Pressure, from the specific product	Zone 1': Zone 1: Zone 2: Zone 3:
approval system:	Illustrate Components Noted and Details as Applicable:
Deck: Type:	Woodblocking, Gutter, Edge Termination, Stripping, Flashing, Continuous Cleat, Cant Strip, Base Flashing, Counterflashing, Coping, Etc.
Gauge/Thickness:	
Slope:	Indicate: Mean Roof Height, Parapet Height, Height of Base Flashing, Component Material, Material Thickness, Fastener
Anchor/Base Sheet & No. of Ply(s):	Type, Fastener Spacing or Submit Manufacturers Details that Comply with RAS 111 and Chapter 16.
Anchor/Base Sheet Fastener/Bonding Material:	
Insulation Base Layer:	
Base Insulation Size and Thickness:	FT.
Base Insulation Fastener/Bonding Material:	Parapet
Top Insulation Layer:	
Top Insulation Size and Thickness:	FT.
Top Insulation Fastener/Bonding Material:	Mean
Base Sheet(s) & No. of Ply(s):	Height
Base Sheet Fastener/Bonding Material:	
Ply Sheet(s) & No. of Ply(s):	
Ply Sheet Fastener/Bonding Material:	
Top Ply:	
Top Ply Fastener/Bonding Material:	

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 Un	derlayment: [
Roof Slope: : 12	In	sulation:	er:				
Ridge Ventilation?		Faste	ener Type & Spa Adhesive Type:	cing:]	
			Type Cap	Sheet:			
Mean Roof Height:			Roo	of Covering:			
				Type & Size Drip Edge:			

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:	×λ	=) – Mg: = M _{r1}	Product Approval M _f		
(Zone 2e:	×λ	=) – Mg: = M _{r2}	e Product Approval Mf		
(Zone 2n:	×λ	=) – Mg: = M _{r2}	n Product Approval M _f		
(Zone 2r:	_×λ	=) – Mg: = M _{r2r}	Product Approval M _f		
(Zone 3e:	×λ	=) – Mg: = Mr3	e Product Approval Mf		
(Zone 3r:	_×λ_	=) – Mg: = M _{r3r}	Product Approval M _f		

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (Mr) From Table Below: _____ Mf Product Approval _____

Mr Required Moment Resistance *						
Mean Roof Height $ ightarrow$	15'	15' 20'	25'	30′	40'	
Roof Slope 🗸	15	20	25		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. 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:	_ × L	=	× w: =) – W:	× cos r	= F _{r1}	Product Approval F'
(Zone 2e:	_×L	=	× w: =) – W:	× cos r	= F _{r2e}	Product Approval F'
(Zone 2n:	_×L	=	× w: =) – W:	× cos r	= F _{r2n}	Product Approval F'
(Zone 2r:	_×L	_ =	× w: =) – W:	× cos r	= F _{r2r}	Product Approval F'
(Zone 3e:	_ × L	=	× w: =) – W:	× cos r	= F _{r3e}	_ Product Approval F'
(Zone 3r:	_×L	=	× w: =) – W:	× 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	Н	Job Site				
Roof Slope	θ	Job Site				
Aerodynamic Multiplier	λ	Product Approval				
Restoring Moment due to Gravity	Mg	Product Approval				
Attachment Resistance	Mf	Product Approval				
Required Moment Resistance	Mg	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 Buildi	ng Official at the time of permit application					

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



1. Aesthetics-workmanship. Reserved.

Owner Initial **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. Reserved.

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. 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*.