

#### **BUILDING CODE DIVISION | BUILDING PERMITTING**

2307 West Broward Boulevard, Suite #300 • Fort Lauderdale, Florida 33312 • 954-765-4400 • Broward.org/Building

#### Section RR4402.13 HIGH VELOCITY HURRICANE ZONES - REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

§RR4402.13 **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 Section RR4402 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 indicates that the item has been explained.	en the owner and the contractor	. The owner's initial in the designated space
Aesthetics-Workmanship: The workmanship roofing system meets the wind resistance and consideration with respect to workmanship provipart of a zoning code should be addressed as part of a zoning code should be addressed as part of a zoning code should be addressed as part of a zoning code should be addressed as part of a zoning code should be addressed as part of the zoning code should be addressed	water intrusion performance st isions. Aesthetic issues such as	color or architectural appearance that are not
Renailing Wood Decks: When replacing root the current provisions of Section RR4402. (The		k may have to be renailed in accordance with ior to removing the existing roof system.)
<b>Common Roofs:</b> Common roofs are those we condominiums, etc.). In buildings with common adjacent units of roofing work to be performed.		between neighboring units (i.e., townhouses, and/or owner should notify the occupants of
<b>Exposed Ceilings:</b> Exposed, open beam ceil The owner may wish to maintain the architectudecking may not be acceptable. This provides the	ural appearance; therefore, roof	ing nail penetrations of the underside of the
<b>Ponding Water:</b> The current roof system at (accumulate in low-lying areas of the roof). Ponding professional structural engineer. Ponding may Ponding conditions may not be evident until the	ding can be an indication of struction shorten the life expectancy are	stural distress and may require the review of a not performance of the new roofing system.
Overflow Scuppers (wall outlets): It is recommended of water. Perimeter/edge walls or other roof exprovided. It may be necessary to install scuppers	tensions may block this dischar	
<b>Ventilation:</b> Most roof structures should has assembly (the building itself). The existing amount additional venting which can result in extending the structures of the structures of the structures of the structures of the structure of the structures of the structure of the structures of the structure of the	ount of attic ventilation shall not	air flow through the interior of the structural be reduced. It may be beneficial to consider
Owner's/Agent's Signature	Date	Contractor's Signature



# SECTION 1525 HIGH-VELOCITY HURRICANE ZONES - UNIFORM PERMIT APPLICATION Florida Building Code 6th Edition (2017)

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 6th Edition (2017)

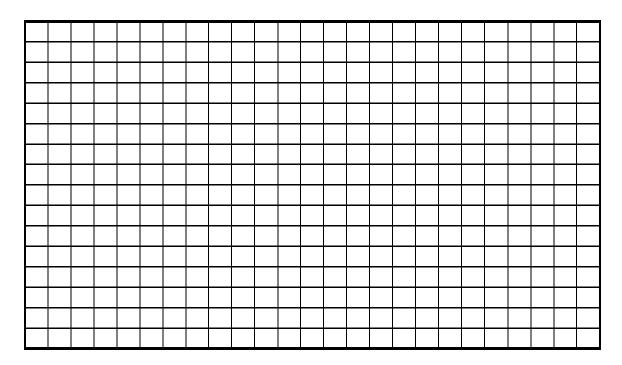
High-Velocity Hurricane Zone Uniform Permit Application Form.

# **Section A (General Information)**

Master Permit NoProcess No						
Contractor's Name						
Job Address						-
		ROOF	CATEGORY			
☐ Low Slope		■ Mechanica	Ily Fastened Tile	☐ Mortar/	Adhesive Set Tile	
☐ Asphaltic S	Shingles	☐ Metal Pane	l/Shingles	☐ Wood S	Shingles/Shakes	
		☐ Prescript	ive BUR-RAS 150			
		RO	OF TYPE			
☐ New Roof	□ Repai	r 🗖 Ma	intenance	☐ Reroofing	☐ Recovering	
			F SYSTEM DRMATION			
ow Slope Roof Area (SF)		Steep Sloped	Roof Area (SF)_		Total (SF)	C

# 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 6th Edition (2017)

High-Velocity Hurricane Zone Uniform Permit Application Form.

Section C (Low Slope Application) Fill in specific roof assembly components	Surfacing:			Fastener
and identify manufacturer (If a component is not used, identify as "NA")	Spacing for Anchor/Base Sheet Attachment: Field:			
O		oc @ Lap, # Rows	@	" oc
System Manufacturer:	Perimeter:	" oc @ Lap, # Rov	ws@	" ос
Product Approval No.:		 " oc @ Lap, # Rows_		
Design Wind Pressures, From RAS 128 or Calculations:		esteners Per Insulati		_ 00
Pmax1: Pmax2: Pmax3:				
Max. Design Pressure, from the specific Product Approval system:		Perimeter		orner
	Applicable:	omponents Noted a	nd Details a	ıs
Deck: Type:	Woodblocking Continuous Cl	, Gutter, Edge Termir eat, Cant Strip, Base		
Gauge/Thickness:		n Roof Height, Parape		
Slope:		nponent Material, Mater Pr Spacing or Submit	eriai i nickne	ess, Fastener
Anchor/Base Sheet & No. of Ply(s):				
Anchor/Base Sheet Fastener/Bonding Material:				
Insulation Base Layer:				
Base Insulation Size and Thickness:			FT.	
Base Insulation Fastener/Bonding Material:				Parapet
Top Insulation Layer:				Height
Top Insulation Size and Thickness:			▼ FT.	
Top Insulation Fastener/Bonding Material:				Maran
Page Chartle) 9 No. of Phylo).				Mean Roof Height
Base Sheet(s) & No. of Ply(s):				rieigrit
Base Sheet Fastener/Bonding Material:				
Ply Sheet(s) & No. of Ply(s):				
Ply Sheet Fastener/Bonding Material:				
Top Ply Fastener/Bonding Material:				
-				

# Florida Building Code Edition 6th Edition (2017)

High-Velocity Hurricane Zone Uniform Permit Application Form.

# Section D (Steep Sloped Roof System)

Roof System Manufac	cturer:	
Notice of Acceptance	Number:	
Minimum Design Win	d Pressures, If App	licable (From RAS 127 or
P1·	P2·	P3:

Steep Sloped Roof System Description	
Deck Type:  Type Underlayment:  Insulation:  Fire Barrier:  Ridge Ventilation?  Fastener Type & Spacing:	
Adhesive Type:  Type Cap Sheet:	
Mean RoofHeight: Roof Covering:	
Type & Size Drip Edge:	

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#### Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M<sub>r</sub> with the values from M<sub>f</sub>. If the M<sub>f</sub> 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"  $(P_1:\_\_\_\times\lambda\_\_=\_\_) - Mg:\_\_= M_{r1} \_\_\_ Product Approval M_f \_\_\_$  $(P_2: \underline{\hspace{1cm}} \times \lambda \ \underline{\hspace{1cm}} = \underline{\hspace{1cm}}) - Mg: \underline{\hspace{1cm}} = M_{r2} \underline{\hspace{1cm}} Product \ Approval \ M_f \underline{\hspace{1cm}}$  $(P_3: \underline{\hspace{1cm}} \times \lambda \underline{\hspace{1cm}} = \underline{\hspace{1cm}})$  -  $Mg: \underline{\hspace{1cm}} = M_{r3} \underline{\hspace{1cm}}$  Product Approval  $M_f$

	Method	2 "Simplified Tile Calcula	ations Per Table Belov	w''	
Required Moment of Resistance			ict Approval M <sub>f</sub>	<u>—</u>	
	Mr	required Moment	t Resistance*	<u>,                                      </u>	
Mean Roof Height → Roof Slope <b>t</b>	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 v For Uplift based tile systems us for each area of the roof, then	e Method 3. Compare the tile attachment n	ed the values for F' with the	values for Fr. If the F'	values are greater than or	
(P <sub>1</sub> :× L=	× w: =)	- W:× cos 0	= F <sub>r1</sub>	Product Approval F'	
(P <sub>2</sub> :× L=	× w: =)	- W:× cos 0	$=$ $F_{r2}$	Product Approval F'	
(P <sub>3</sub> :× L=	× w: =)	- W:× cos 0	= F <sub>r3</sub>	Product Approval F'	
	,	Where to Obtain I	nformation		
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	Н	Job Site			
Roof Slope	0	Job Site			
Aerodynamic Multiplier		Product Approval			
Restoring Moment due to Gravity	$M_{g}$	Product Approval			
Attachment Resistance	$M_{\mathrm{f}}$	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.

# SECTION 1524 - HIGH VELOCITY HURRICANE ZONES REQUIRED OWNER'S 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

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. 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: 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 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 buildup of water. P
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).
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the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced.
<b>Exception:</b> 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



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**Prescriptive Method:** To comply with Section 706.8 Florida Existing Building Code Seventh Edition (2020), Roof- to-wall connections on an existing structure with a sawn lumber, wood plank or wood structural panel roof deck:

<u>Must be completed by</u>: Florida Professional Engineer, Registered Architect, Licensed General Contractor, Building Contractor, Residential Contractor, or persons certified in the structural discipline under FS468 excluding Standard Roofing Inspector and/or Roofing Contractor <u>prior to final building inspection.</u>

Where mandated retrofits are required pursuant to F.B.C. 2020 Seventh Edition Existing Building Section 706.8 and Broward County Amendments, the intersection of roof framing with wall below shall be improved as specified in Table 706.8.1. As an alternative to an engineered design, the prescriptive retrofit solutions provided in Sections 706.8.1.3 through 706.8.1.6 shall be accepted as meeting the mandated roof-to-wallretrofit requirements pending final inspection and after completion of Option 1 or verification of Option 2.

		Contro	ctor/Ovalifion	do affirma s	and cortifu t	hat the Hurrisons
Mitigation Retrofits installed at						east one of the
following options (see option 1 or op					ineet at i	east one or the
renowing options (see option 1 or op	tion 2). I lease complete up	propriate op				
Option 1 Hurricane Retr	ofit Mitigation Building Peri	mit Number_				Metal
connectors, clips straps, fasteners w	ere installed under my supe	ervision; and	the Mitigation	Retrofits are	installed in	compliance with
the prescriptive methods of 706.8.1.	3 through 706.8.1.6. Existin	g anchors w	erefound to h	ave		(#
of) fasteners and additional faster	ers were installed to make	ke a total of	f			
per anchor. Photos are	to be provided with this a	ffidavit for v	erification.			
Additional anchors (Manufacturer	ind Model No.)				w	ere installed
using (Quantity, Size & Type)					fastene	rs.
Other methods of retrofit used (descr	be in detail or attach addition	onal sheets)				
<b>.</b>		OR	/# C			1 1 199
	were found to have					
fasteners are not required.	<u> </u>					addressing the
contractor/qualifier of inspection fasteners, and his findings.	and by what method	they have	e inspected, (	existing me	connect	.ors, clips straps,
lasteriers, and ms midnigs.						
By his/her signature below, the Con	tractor/Qualifier does affire	n and certify	that the above	annlicahle	information	for Hurricane
	replacement of roo					
workwas done under his/her direct		,,,,,,		true aria ac	carace and t	ms mspection and
Qualifier's Name (Print)		_Qualifier's	Signature			
STATE OF FLORIDA – BROWARD CO	JNTY					
The foregoing instrument was ackno	wledged before me on this_		day of		20	by
·			as,			
	, who is					
$\square$ Personally, known to me OR $\square$	Produced the following typ	oe of identific	cation			-
(NOTARY SEAL)	NOTARY SIG	NATURE				
	NOTARY PRIN	TED NAME				

NOTE: Structural Misc. Sub-Permit by a CGC, CBC, or CRC required if retrofit is deemed necessary.