

SECTION 1525
HIGH-VELOCITY HURRICANE ZONES—UNIFORM PERMIT APPLICATION

Florida Building Code 8th Edition (2023)
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
Asphalt 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

**Miami-Dade County (MDC)
2023 HVHZ Electronic Roof Permit Form**

Section A (General Information)

Master Permit No:

Process No.

Contractor's Name:

A & E BROTHERS (A PARAGON COMPANY)

Job Address:

6610 SW 88 ST

Roof Category

☒ Low Slope

☐ Mechanically Fastened Tile

☒ Mortar/Adhesive Set Tile

☐ Asphaltic Shingles

☐ Tile Metal Panel/Shingles

☐ Wood Shingles/Shakes

☐ Sprayed Polyurethane Foam

☐ Other

Roof Mean Height (h) ft.

Roof Type

☐ New Roof

☐ Re-Roofing

☐ Recovering

☐ Repair

☐ Maintenance

Are there Gas Vent Stacks located on the roof? ☐ Yes ☐ No If yes, what type? ☐ Natural ☐ LPGX

Roof System Information

Low slope roof area (ft.²):

Steep Sloped area (ft.²):

Total (ft.²):

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.

Perimeter Width a' (.6h):

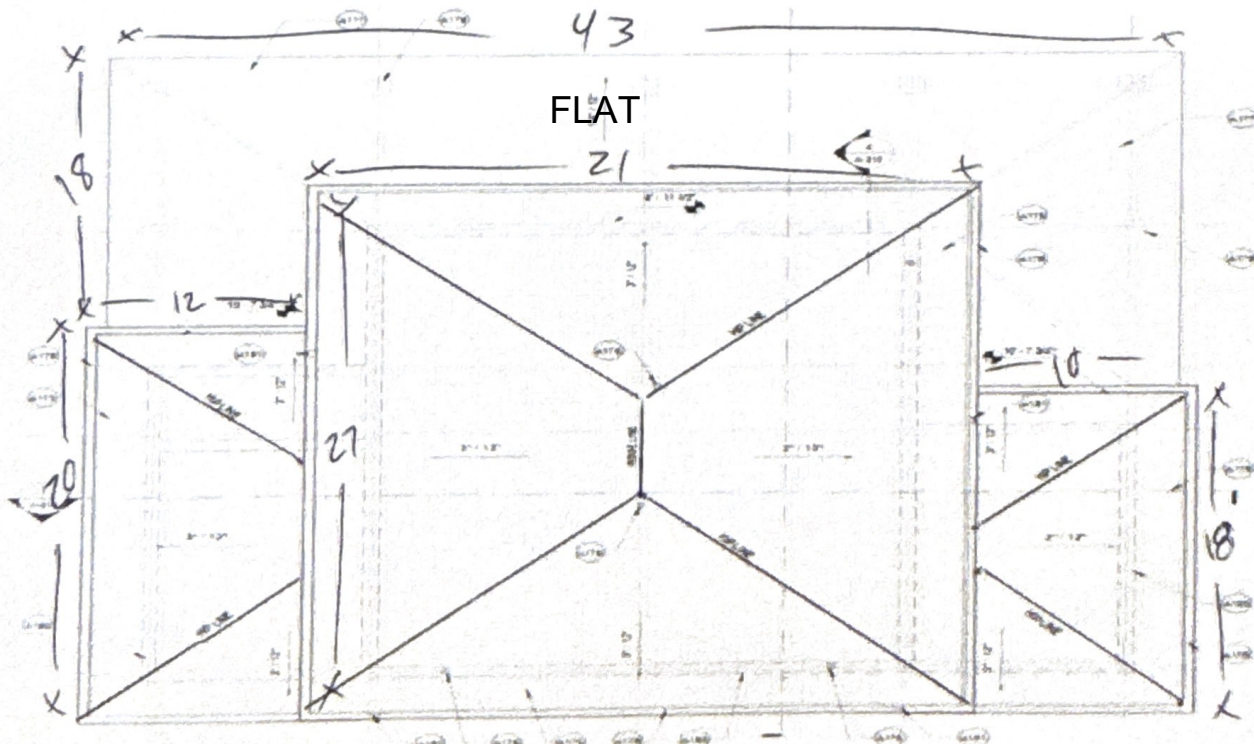
ft.

Corner Length (.6h):

ft.

Corner Width: (.2h):

ft.



2020 HVHZ FBC (7th edition)
Miami-Dade County Electronic Roof Permit Form Section C Page, Single Ply Membrane (SPM) Roof Systems
Fill in the specific roof assembly components. If a component is not required, insert not applicable (n/a) in the text box.

The 2020 FBC requires the use of ASCE 7-16 to calculate wind uplift pressures and the sizes of elevated roof pressure zones.
To calculate P2 perimeter width a', use .6(h) with h = the Roof Mean Height. P3 corner length = .6(h), P3 corner width = .2(h)

Roof System Manufacturer:

Product Approval NOA: NOA System Type:

Wind Uplift Pressures, From RAS 128 or Sealed Calculations:

(P1') Field: psf (P1) Field: psf

(P2) Perimeter: psf (P3) Corner: psf

NOA Design Pressure: (P2) Width: ft.

(P3) Length: ft. (P3) Width: ft.

Roof Slope: /12 Roof Mean Height: ft.

Parapet Walls: ☒ No ☐ Yes Parapet Wall Height: ft.

-- 5/8" Plywood Deck --

LWIC Manufacturer:

Compressive Strength: psi Support Spacing: ft. o/c

If Roof Recovery, provide existing system:

Fire Barrier :

Vapor Barrier:

Base/Anchor Sheet:

Base/Anchor Sheet Fastener / Bonding Material:

Insulation Base Layer Size & Thickness:

Insulation Base Layer Fastener / Bonding Material:

Insulation Top Layer Size & Thickness:

Insulation Top Layer Fastener / Bonding Material:

Number of Fasteners per Insulation Board:

(P1'): (P1): (P2): (P3):

(For Department Use Only)

SPM Type / Thickness

SPM Fastening and / or Bonding Material

Full Sheet Width 1/2 Sheet Width 1/4 Sheet Width
 in. in. in.

Number of SPM 1/2 sheets:

Optional Surfacing

SPM Attachment Method

- ☐ SPM adhered to mechanically fastened anchor sheet
- ☐ SPM adhered to insulation or roof deck
- ☐ SPM induction welded to insulation or deck
- ☐ SPM mechanically attached row fastened
- ☐ SPM picture frame attachment in perimeters and corners
- ☐ SPM finger row attachment in perimeters and corners

Fastener Spacing for SPM or Base Sheet Attachment:

	Lap Spacing	Row Spacing	Field of Sheet Spacing
(P1') Field:	8 in. o/c	1 Row(s)	55 in. o/c
(P1) Field:	11 in. o/c	1 Row(s)	27.5 in. o/c
(P2) Perimeter:	8 in. o/c	1 Row(s)	27.5 in. o/c
(P3) Corner:	6 in. o/c	1 Row(s)	27.5 in. o/c

Wood Nailer Type and Size:

Wood Nailer Fastener Type and Spacing:

-- Galvanized Drip Edge Metal --

-- 3" Face 26 Gauge Drip Edge Metal --

-- Select Drip Edge Metal Cleat (Hook Strip) --

Drip Edge Metal Attachment:

-- Select Coping Metal Material --

-- Select Coping Metal Size --

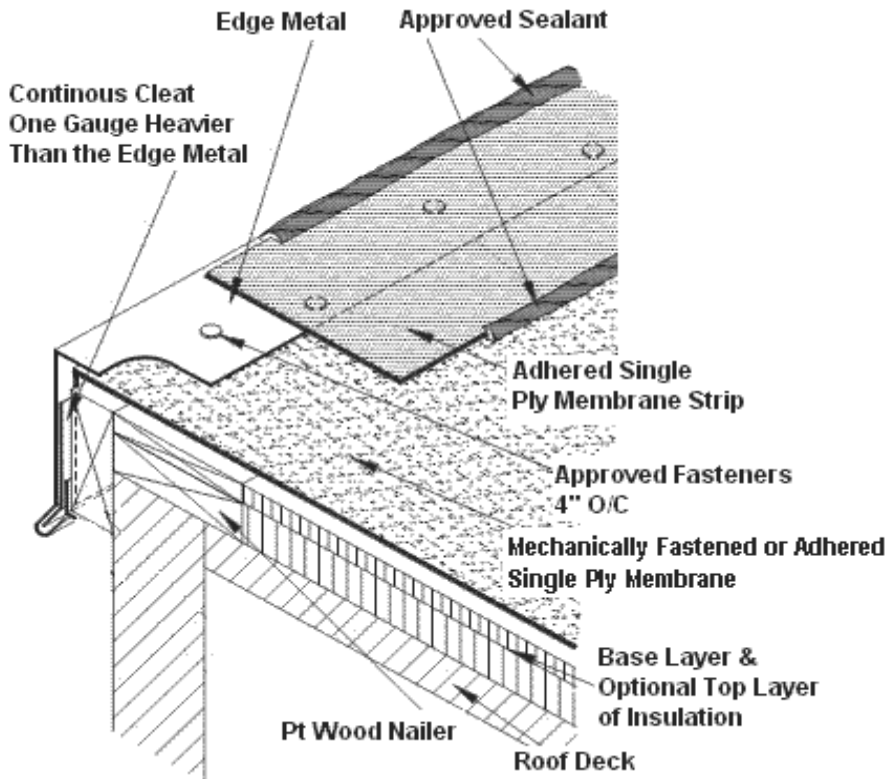
-- Select Coping Metal Cleat (Hook Strip) --

Parapet Coping Metal Attachment:



"Delivering Excellence Every Day"

Miami-Dade County HVHZ Electronic Roof Permit Form Single Ply Membrane Edge Metal Detail



Provide Component Information

Roof Mean Height: ft.

Edge Metal Type and Size:

Continuous Cleat:

Surfacing:

Single Ply Membrane Type:

Top Insulation Layer Type:

Base Insulation Layer Type:

Wood Nailer Type & Size:

Wood Nailer Attachment:

Deck Type:

**Miami-Dade County (MDC)
2023 HVHV Electronic Permit
Form Section D Tile Roof Systems**

Roof System Manufacturer: CROWN BUILDING PRODUCTS

MDC Notice of Acceptance (NOA): 25-0127.10

Minimum Design Wind Pressures (psf) from 2020 RAS-127 or Calculations per ASCE 7-22

(P1) Field: 67 (P2) Perimeter: 88 (P3) Corner: 94

Maximum design wind pressure from MDC NOA: 40 **Alternate / Additional NOA design pressure:**

Complete the required roof assembly system components, if a component is not required mark the field N/A.

Roof Slope: 3 /12 **Roof Mean Height:** 14 ft. **Perimeter Width:** ft.

Deck Type: -- 5/8" Plywood Deck --

Optional Nailable Surface:

Optional substrate attachment:

Optional Insulation:

Optional Insulation Attachment:

Basesheet Type:

POLYSTICK MTS

**Fastener Type & Spacing for
Basesheet Attachment:**

self-adhered and back-nailed max. 12-inch o.c.

Tile Underlayment (Cap Sheet Type):

POLYGLASS TU PLUS

Tile Underlayment Attachment Method:

self-adhered and back-nailed max. 12-inch o.c.

Tile Profile Type:

WINDSOR

Drip Edge Material:

GALVANIZED

Drip Edge Size and Thickness:

3X3 24GA

Drip Edge Hook Strip (Continuous Cleat):

Drip Edge Fastener & Attachment Spacing:

1 1/4 RS NAILS 4" OC

Tile Attachment Method/Material:

MEDIUM PADDY ICP ADHESIVE

Alternate or Additional Tile Attachment Method:

Florida Building Code 8th Edition (2023)
MDC High Velocity Hurricane Zone Application Form
Section E (Tile Calculations)

Enter positive uplift pressures in the Zone Fields when using these methods of calculating attachment.

For Moment based tile systems, choose **Method 1**. Compare the values for Mr with the values from Mf. If the Mf values are greater than or equal to the Mr 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:	67	x λ	.313	=	20.97	- Mg:	8.17	= Mr1:	12.8	≤	40	NOA Mf:
Zone 2:	88	x λ	.313	=	27.54	- Mg:	8.17	= Mr2:	27.54	≤	40	NOA Mf:
Zone 3:	94	x λ	.313	=	29.42	- Mg:	8.17	= Mr3:	21.25	≤	40	NOA Mf:

Tile attachment method: **Alternate attachment method:**

For Uplift Based tile systems use **Method 3**. Compare 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 “Uplift Based Tile Calculations per RAS 127”

Zone 1:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr1		NOA F'	
Zone 2:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr2		NOA F'	
Zone 3:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr3		NOA F'	

Where to obtain information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2, 3	From the applicable Table in RAS- 127 or be an engineering analysis prepared by a PE based upon ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval / Notice of Acceptance
Restoring Moment due to Gravity	M _g	Product Approval / Notice of Acceptance
Attachment Resistance	M _f	Product Approval / Notice of Acceptance
Required Moment Resistance	M _r	Calculated
Minimum Attachment Resistance	F'	Product Approval / Notice of Acceptance
Required Uplift Resistance	F _r	Calculated
Average Tile Weight	w	Product Approval / Notice of Acceptance
Tile Dimensions	L=Length W= Width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		

**Miami-Dade County (MDC)
2023 HVHV Electronic Permit
Form Section D Tile Roof Systems**

Roof System Manufacturer: CROWN BUILDING PRODUCTS

MDC Notice of Acceptance (NOA): 25-0127.10

Minimum Design Wind Pressures (psf) from 2020 RAS-127 or Calculations per ASCE 7-22

(P1) Field: 71 (P2) Perimeter: 93 (P3) Corner: 100

Maximum design wind pressure from MDC NOA: 40

Alternate / Additional NOA design pressure:

Complete the required roof assembly system components, if a component is not required mark the field N/A.

Roof Slope: 3 /12 **Roof Mean Height:** 18 ft. **Perimeter Width:** ft.

Deck Type: -- 5/8" Plywood Deck --

Optional Nailable Surface:

Optional substrate attachment:

Optional Insulation:

Optional Insulation Attachment:

Basesheet Type:

POLYSTICK MTS

**Fastener Type & Spacing for
Basesheet Attachment:**

self-adhered and back-nailed max. 12-inch o.c.

Tile Underlayment (Cap Sheet Type):

POLYGLASS TU PLUS

Tile Underlayment Attachment Method:

self-adhered and back-nailed max. 12-inch o.c.

Tile Profile Type:

WINDSOR

Drip Edge Material:

GALVANIZED

Drip Edge Size and Thickness:

3X3 24GA

Drip Edge Hook Strip (Continuous Cleat):

Drip Edge Fastener & Attachment Spacing:

1 1/4 RS NAILS 4" OC

Tile Attachment Method/Material:

MEDIUM PADDY ICP ADHESIVE

Alternate or Additional Tile Attachment Method:

Florida Building Code 8th Edition (2023)
High Velocity Hurricane Zone Application Form
Section E (Tile Calculations)

Enter positive uplift pressures in the Zone Fields when using these methods of calculating attachment.

For Moment based tile systems, choose **Method 1**. Compare the values for Mr with the values from Mf. If the Mf values are greater than or equal to the Mr 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:	71	x λ	.313	=	22.22	- Mg:	8.17	= Mr1:	14.05	≤	40	NOA Mf:
Zone 2:	93	x λ	.313	=	29.10	- Mg:	8.17	= Mr2:	20.93	≤	40	NOA Mf:
Zone 3:	100	x λ	.313	=	31.3	- Mg:	8.17	= Mr3:	23.13	≤	40	NOA Mf:

Tile attachment method: **Alternate attachment method:**

For Uplift Based tile systems use **Method 3**. Compare 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 “Uplift Based Tile Calculations per RAS 127”

Zone 1:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr1		NOA F'	
Zone 2:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr2		NOA F'	
Zone 3:		x L:		=		x W:		=		- w:		=		x cos θ		= Fr3		NOA F'	

Where to obtain information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2, 3	From the applicable Table in RAS- 127 or be an engineering analysis prepared by a PE based upon ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval / Notice of Acceptance
Restoring Moment due to Gravity	M _g	Product Approval / Notice of Acceptance
Attachment Resistance	M _f	Product Approval / Notice of Acceptance
Required Moment Resistance	M _r	Calculated
Minimum Attachment Resistance	F'	Product Approval / Notice of Acceptance
Required Uplift Resistance	F _r	Calculated
Average Tile Weight	w	Product Approval / Notice of Acceptance
Tile Dimensions	L=Length W= Width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		