

Florida Building Code 7th Edition (2020)
MDC High Velocity Hurricane Zone Application Form

Section A (General Information)

Master Permit Number: _____

Process Number: _____

Contractor's Name: _____

Job Address: _____

ROOF CATEGORY

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

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 (ft²)

Steep Sloped Roof Area (ft²)

Total (ft²)

Are there gas vents on the roof?	Yes	No	If Yes what type?	Natural	LPX
Is there an existing roof top Solar System?	Yes	No	If yes will it be reinstalled?	Yes	No

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.

A large rectangular area filled with a light gray grid pattern, intended for the roof plan sketch. The grid is composed of small squares, providing a scale for the drawing.

Florida Building Code 7th Edition (2020)
MDC High Velocity Hurricane Zone Application Form

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 # _____

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 Insulation Fastener/ Bonding Material:

Ply Sheet(s) and 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 @ Laps, # Rows _____ @ _____ " oc

Zone 1 _____ " oc @ Laps, # Rows _____ @ _____ " oc

Zone 2 _____ " oc @ Laps # Rows _____ @ _____ " oc

Zone 3 _____ " oc @ Laps, # Rows _____ @ _____ " oc

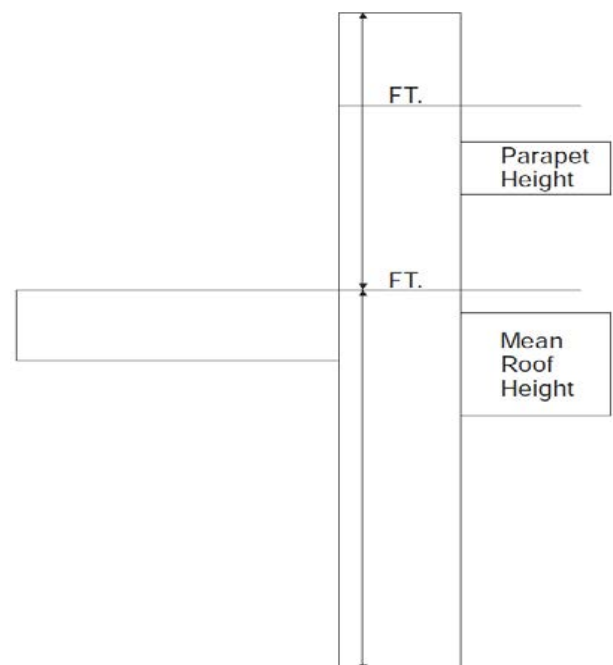
Number of Fasteners Per Insulation Board

Zone 1': _____ Zone1: _____ Zone 2: _____ Zone 3: _____

Illustrated 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 Base Flashing, Component Material, Material Thickness, Fastener Type, Fastener Spacing or Submit Manufactures Details that Comply with RAS 111 and Chapter 16.



Florida Building Code 7th Edition (2020)
MDC High Velocity Hurricane Zone Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Product Control Number: _____

Minimum Design Wind Pressures, From Applicable RAS 127 Table or Calculations:

Zone1: _____ Zone 2e: _____ Zone2n: _____ Zone 2r: _____ Zone 3e: _____ Zone 3r: _____

Slope Range: $\geq 2:12$ to $\leq 4:12$ $> 4:12$ to $\leq 6:12$ $> 6:12$ to $\leq 12:12$

Roof Shape: All Hip Roof Gable Roof

Deck Type:

Underlayment Type:

Roof Slope:

_____: 12

Insulation:

Fire Barrier:

Ridge Ventilation?

Fastener Type & Spacing:

Cap Sheet Type:

Mean Roof Height:

Cap Sheet Attachment:

Roof Covering:

Drip Edge Type & Size:

Florida Building Code 7th Edition (2020)
MDC High Velocity Hurricane Zone Application Form

Section E (Tile Calculations)

For Moment based tile systems, choose Method 1. 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"

Enter positive uplift pressures when using this table

(Zone 1: _____ x λ _____ = _____) – Mg: _____ = M_{r1} _____ Product Approval M_f : _____

(Zone 2e: _____ x λ _____ = _____) – Mg: _____ = M_{r2e} _____ Product Approval M_f : _____

(Zone 2n: _____ x λ _____ = _____) – Mg: _____ = M_{r2n} _____ Product Approval M_f : _____

(Zone 2r: _____ x λ _____ = _____) – Mg: _____ = M_{r2r} _____ Product Approval M_f : _____

(Zone 3e: _____ x λ _____ = _____) – Mg: _____ = M_{r3e} _____ Product Approval M_f : _____

(Zone 3r: _____ x λ _____ = _____) – Mg: _____ = M_{r3r} _____ Product Approval M_f : _____

Tile attachment method:

Alternate Tile attachment method :

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 Tile Calculations per RAS 127"

(Zone 1: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r1} _____ Product Approval F' : _____

(Zone 2e: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r2e} _____ Product Approval F' : _____

(Zone 2n: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r2n} _____ Product Approval F' : _____

(Zone 2r: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r2r} _____ Product Approval F' : _____

(Zone 3e: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r3e} _____ Product Approval F' : _____

(Zone 3r: _____ x L = _____ x W = _____) – (w) x cos θ _____) = F_{r3r} _____ Product Approval F' : _____

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

Florida Building Code 7th Edition (2020)
MDC High Velocity Hurricane Zone Application Form

INSTRUCTION PAGE

**COMPLETE THE NECESSARY SECTIONS OF THE UNIFORM ROOFING PERMIT APPLICATION FORM AND
ATTACH THE REQUIRED DOCUMENTS 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