

Florida Building Code 8th Edition (2023)
High Velocity Hurricane Zone Uniform Roofing 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

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Section A (General Information)

Master Permit 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

Prescriptive BUR-RAS 150

ROOF TYPE

<input type="checkbox"/> New Roof	<input type="checkbox"/> Repair	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Reroofing	<input type="checkbox"/> Recovering
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ROOF SYSTEM INFORMATION

Low Slope Roof Area (ft²) _____ Steep Sloped Roof Area (ft²) _____ Total (ft²) _____

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.



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Section C (Low Sloped Application)

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 Sheet 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

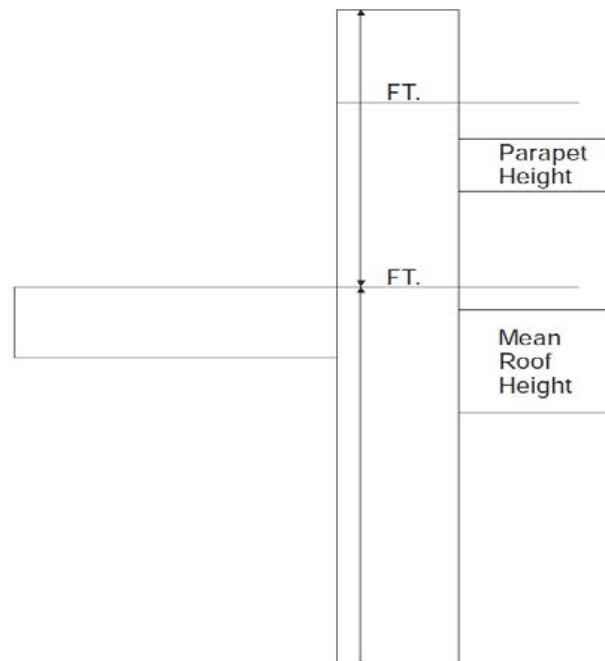
Number of Fasteners Per Insulation Board

Zone 1': _____ Zone 1: _____ 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 Manufacturers Details that Comply with RAS 111 and Chapter 16.



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Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Notice of Acceptance (NOA) Number: _____

Minimum Design Wind Pressures, if applicable (from RAS 127 or Calculations)

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

Deck Type: _____

Underlayment Type: _____

Roof Slope:

_____ : 12

Insulation: _____

Fire Barrier: _____

Ridge Ventilation?

Fastener Type & Spacing: _____

Adhesive Type: _____

Mean Roof Height: _____

Type Cap Sheet: _____

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_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: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_r _____ Product Approval M_f : _____

(Zone 2e: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2e} _____ Product Approval M_f : _____

(Zone 2n: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2n} _____ Product Approval M_f : _____

(Zone 2r: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r2r} _____ Product Approval M_f : _____

(Zone 3e: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r3e} _____ Product Approval M_f : _____

(Zone 3r: _____ $\times \lambda$ _____ = _____) – M_g : _____ = M_{r3r} _____ Product Approval M_f : _____

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (M_r) 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. 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: _____ $\times L$ = _____ $\times W$ = _____) – (w) $\times \cos r$ _____) = F_{r1} _____ Product Approval F' : _____

(Zone 2e: _____ $\times L$ = _____ $\times W$ = _____) – (w) $\times \cos r$ _____) = F_{r2e} _____ Product Approval F' : _____

(Zone 2n: _____ $\times L$ = _____ $\times W$ = _____) – (w) $\times \cos r$ _____) = F_{r2n} _____ Product Approval F' : _____

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

(Zone 3e: _____ $\times L$ = _____ $\times W$ = _____) – (w) $\times \cos r$ _____) = F_{r3e} _____ Product Approval F' : _____

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

Where to obtain information		
Description	Symbol	Where to Find
Design Pressure	Zones 1, 2e, 2n, 2r, 3e, 3r	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	Notice of Acceptance
Restoring Moment due to Gravity	M_g	Notice of Acceptance
Attachment Resistance	M_f	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.