



100 W. Atlantic Blvd Pompano Beach, FL 33060

Phone: 954.786.4669 Fax: 954.786.4677

City of Pompano Beach
 Department of Development Services
 Building Inspections Division

High Velocity Hurricane Zones Uniform Permit

Florida Building Code 6th Edition 2017

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)

Permit Number: _____

Contractor's Name: _____

Job Address: _____

ROOF CATEGORY

- Low Slow, Asphaltic Shingles, Mechanically Fastened Tile, Metal Panel/ Shingles, Mortar / Adhesive Set Tile, Wood Shingles / Shakes, Prescriptive BUR-RAS 150

ROOF TYPE

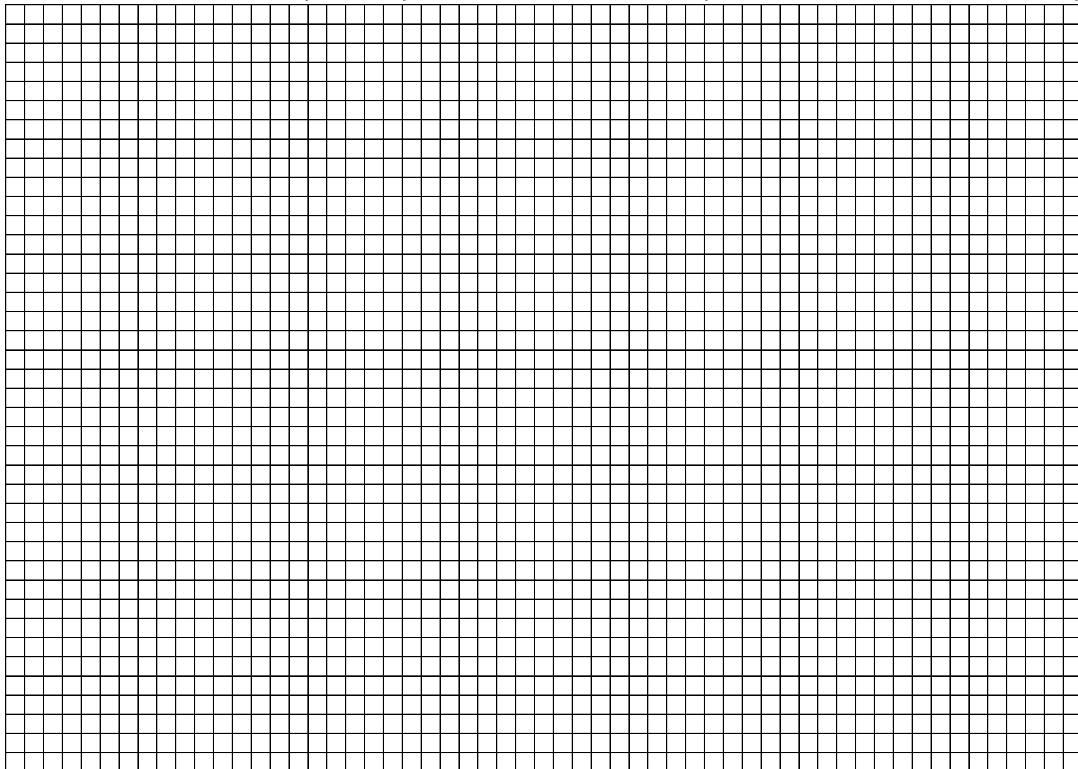
- New Roof, Repair, Maintenance, Reroofing, Recovering

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) Step Sloped Roof AREA (SSF) 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.





Florida's Warmest Welcome
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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:

P1: _____ P2: _____ P3: _____

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:

Field _____ "oc @ LAP, #Rows ____@ ____" oc

Perimeter _____ "oc @ LAP, #Rows ____@ ____" oc

Corner _____ "oc @ LAP. #Rows ____@ ____" oc

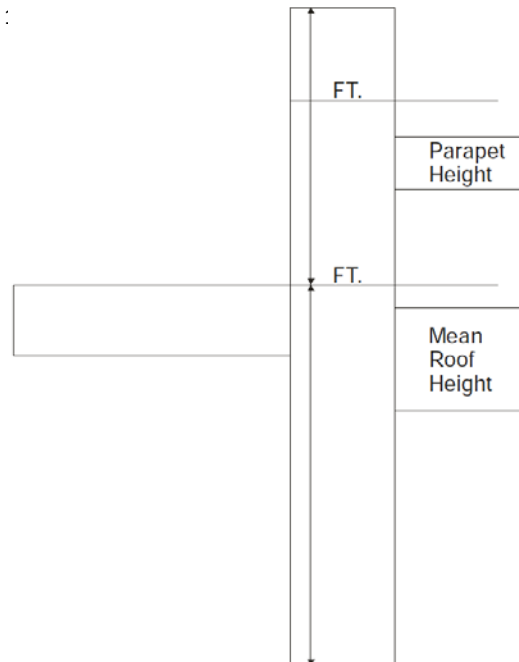
Number of Fasteners Per Insulation Board

Field: _____ Perimeter: _____ Corner: _____

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





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Section D (Steep Sloped Roof System)

Roof System Manufacturer: _____

Notice of Acceptance Number: _____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: _____

P1: _____

P1: _____

Deck Type:

Type Underlayment:

Insulation:

Fire Barrier:

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Type & Size
Drip Edge:

Roof Slope:
_____: 12

Ridge Ventilation?

Mean Roof Height: _____



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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, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$$(P_1: \text{_____} \times \lambda \text{_____} = \text{_____}) - M_g: \text{_____} = M_{r1} \text{_____} \quad (\text{Product App } M_f \text{ Product}) M_f \text{_____}$$

$$(P_2: \text{_____} \times \lambda \text{_____} = \text{_____}) - M_g: \text{_____} = M_{r2} \text{_____} \quad (\text{Product App } M_f \text{ Product}) M_f \text{_____}$$

$$(P_3: \text{_____} \times \lambda \text{_____} = \text{_____}) - M_g: \text{_____} = M_{r3} \text{_____} \quad (\text{Product App } M_f \text{ Product}) M_f \text{_____}$$

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below: _____ M_f Product Approval _____

M _r Required Moment Resistance *					
Mean Roof Height →	15'	20'	25'	30'	40'
Roof Slope ↓					
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"

$$(P_1: \text{_____} \times L: \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \Theta: \text{_____} = F_{r1}: \text{_____} \quad (\text{Product App}) F' \text{_____}$$

$$(P_2: \text{_____} \times L: \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \Theta: \text{_____} = F_{r2}: \text{_____} \quad (\text{Product App}) F' \text{_____}$$

$$(P_3: \text{_____} \times L: \text{_____} = \text{_____} \times w: \text{_____}) - W: \text{_____} \times \cos \Theta: \text{_____} = F_{r3}: \text{_____} \quad (\text{Product App}) F' \text{_____}$$

Where to obtain Information		
Description	Symbol	Where to Find
Design Pressure	P_1 or P_2 or P_3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	Θ	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M_g	Product Approval
Attachment Resistance	M_f	Product Approval
Required Moment Resistance	M_g	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F_r	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.



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

- 1. 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. (The roof deck is usually concealed prior to removing the existing roof system).
2. 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 decking may not be acceptable. The owner provides the option of maintaining this appearance.
3. 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: Chapter 15 and 16 herein and the Florida Building Code, Plumbing.

Owner's / Agent's Signature

Date

Contractor's Signature

Date