

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

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

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Section A (General Information)

Master Permit No. BL2023-0964 Process No. _____

Contractor's Name Envirotech Roofing Group

Job Address 5900 SW 114 TERR

ROOF CATEGORY

☒ Low Slope	☐ Mechanically Fastened Tile	☒ Mortar/Adhesive Set Tiles
☐ Asphalt Shingles	☐ Metal Panel/Shingles	☐ Wood Shingles/Shakes
	☐ Prescriptive BUR-RAS 150	

ROOF TYPE

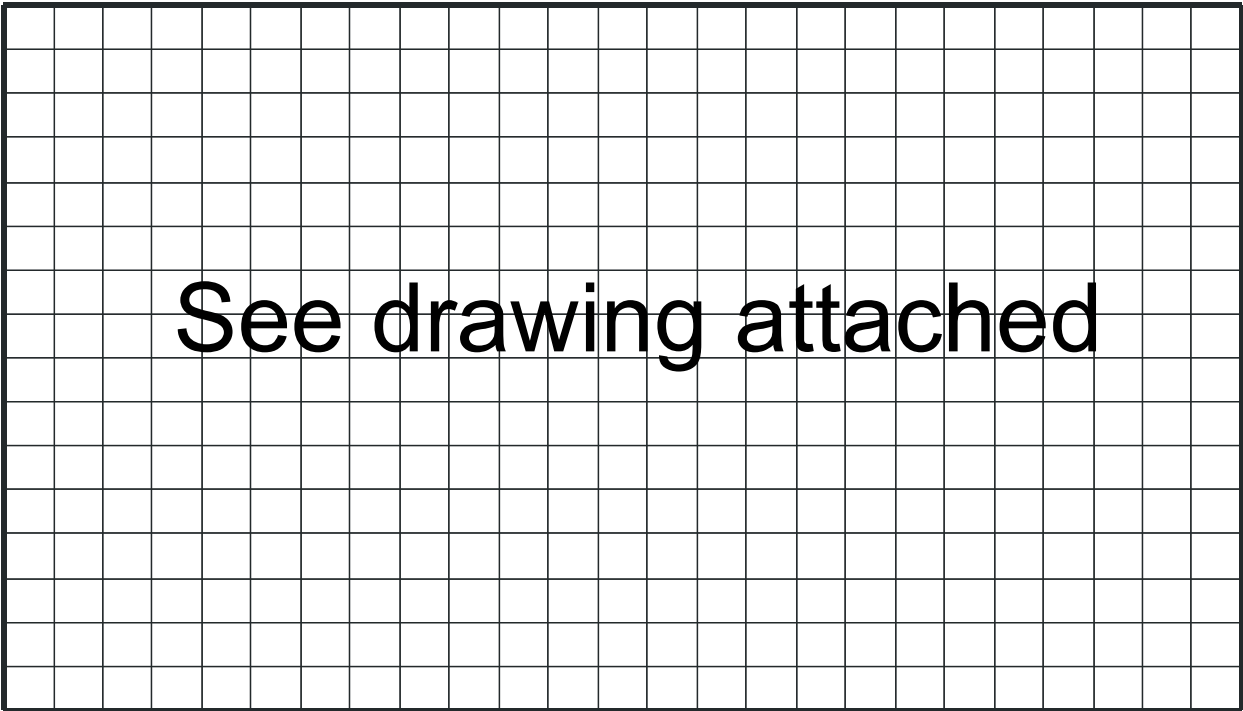
☒ New roof	☐ Repair	☐ Maintenance	☐ Reroofing	☐ Recovering
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ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) <u>3,100'</u>	Steep Sloped Roof Area (SF) <u>7,000'</u>	Total (SF) <u>10,100'</u>
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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.



no mechanical work

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Section C (Low Slope Application)

Fill in specific roof assembly components and identify manufacturer

(If a component is not used, identify as "NA")

System Manufacturer: GAF

Product Approval No.: FL11946-R22 C-21

Design Wind Pressures, From RAS 128 or Calculations:

Zone 1': -37 Zone 1: -64 Zone 2: -84 Zone 3: -115

Max. Design Pressure, from the specific product approval system: -292.5

Deck:

Type: CONCRETE DECK

Gauge/Thickness: N/A

Slope: 0/12

Anchor/Base Sheet & No. of Ply(s): PRIMER

Anchor/Base Sheet Fastener/Bonding Material: N/A

Insulation Base Layer: ISO TAPERED INSULATION

Base Insulation Size and Thickness: 4"X4" TAPERED

Base Insulation Fastener/Bonding Material: HOT MOP TYPE IV ASPHALT

Top Insulation Layer: N/A

Top Insulation Size and Thickness: N/A

Top Insulation Fastener/Bonding Material: N/A

Base Sheet(s) & No. of Ply(s): GAFGLASS STRATAVENT PERFORATED

Base Sheet Fastener/Bonding Material: LOOSE LAID

Ply Sheet(s) & No. of Ply(s): RUBEROID #20 SMOOTH

Ply Sheet Fastener/Bonding Material: HOT MOP TYPE IV ASPHALT

Top Ply: GAF MINERAL CAP SHEET

Top Ply Fastener/Bonding Material: HOT MOP TYPE IV ASPHALT

Surfacing: GRANULES

Fastener Spacing for Anchor/Base Sheet Attachment:

Zone 1': N/A " oc @ Lap, # Rows N/A @ N/A " oc

Zone 1: N/A " oc @ Lap, # Rows N/A @ N/A " oc

Zone 2: N/A " oc @ Lap, # Rows N/A @ N/A " oc

Zone 3: N/A " oc @ Lap, # Rows N/A @ N/A " oc

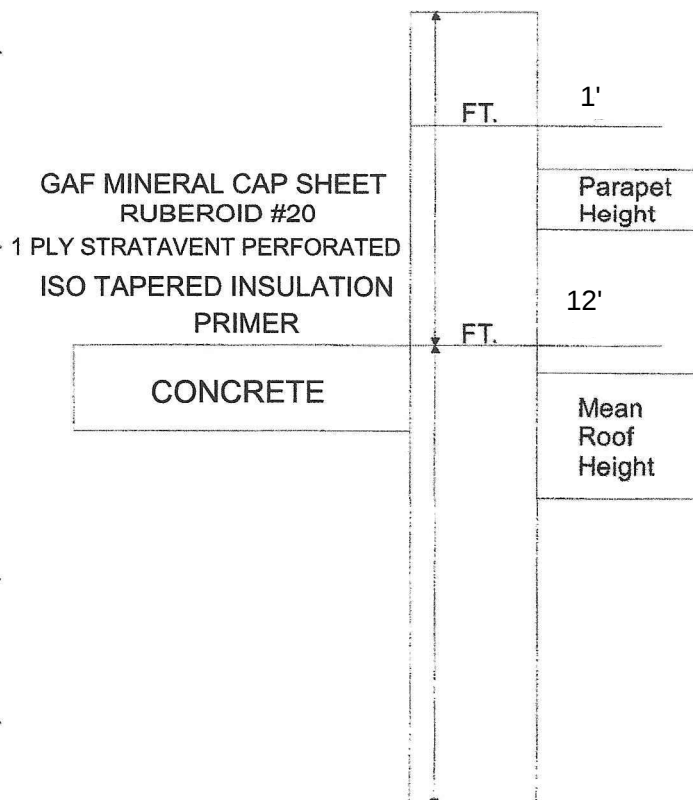
Number of Fasteners Per Insulation Board: *

Zone 1': N/A Zone 1: N/A Zone 2: N/A Zone 3: N/A

Illustrate 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 of 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: Westlake Royal Roofing, LLC
 Notice of Acceptance Number: 22-1118.07
 Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):
 Zone 1: -75 Zone 2: -97 Zone 3: -104

Roof Slope:
4 : 12

Ridge Ventilation?
N/A

Mean Roof Height: 25'

Deck Type: Plywood 5/8"

Type Underlayment: Tamko #30 Felt

Insulation: N/A

Fire Barrier: N/A

Fastener Type & Spacing: 12 ga x 1 1/4" long x 3/8 RS Nails and 32 ga., 1 5/8" Tin Caps at 6" o.c. in a 4" lap and 6" o.c. 3 equally spaced center rows

Adhesive Type: Tile Bond

Type Cap Sheet: Polystick TU Max

Self Adhered and back-nailed using 12 ga.x 1 1/4" long x 3/8 RS Nails and 32 ga 1 5/8" Tin caps 12" o.c.

Roof Covering: Saxony 900 Concrete Roof Tile

Type & Size Drip
 Edge:

26 guage galv 3"x3"
1 1/4" RS Nails

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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"

$$\begin{aligned} \text{(Zone 1: } \frac{-75}{2} \times \lambda \frac{0.315}{2} &= \frac{23.6}{2} \text{) - Mg: } \frac{7.50}{2} = M_{r1} \frac{16.1}{2} & \text{Product Approval } M_f & \frac{63}{2} \\ \text{(Zone 2: } \frac{-97}{2} \times \lambda \frac{0.315}{2} &= \frac{30.5}{2} \text{) - Mg: } \frac{7.50}{2} = M_{r2} \frac{23.1}{2} & \text{Product Approval } M_f & \frac{63}{2} \\ \text{(Zone 3: } \frac{-104}{2} \times \lambda \frac{0.315}{2} &= \frac{32.8}{2} \text{) - Mg: } \frac{7.50}{2} = M_{r3} \frac{25.3}{2} & \text{Product Approval } M_f & \frac{63}{2} \end{aligned}$$

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	-46	-47.6	-49.4	-50.9	-53.3
3:12	-47.3	-48.9	-50.7	-52.2	-54.6
4:12	-47.2	-52.0	-53.8	-55.3	-57.9
5:12	-39.8	-41.5	-42.8	-43.7	-45.7
6:12	-39.6	-40.6	-41.9	-42.9	-44.8
7:12	-39.4	-40.3	-41.6	-42.6	-44.6

Method 2 may be utilized within Broward County Exposure C only.

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"

$$\begin{aligned} \text{(Zone 1: } \frac{\quad}{2} \times L \frac{\quad}{2} &= \frac{\quad}{2} \times w: \frac{\quad}{2} \text{) - W: } \frac{\quad}{2} \times \cos r \frac{\quad}{2} = F_{r1} \frac{\quad}{2} & \text{Product Approval } F' & \frac{\quad}{2} \\ \text{(Zone 2: } \frac{\quad}{2} \times L \frac{\quad}{2} &= \frac{\quad}{2} \times w: \frac{\quad}{2} \text{) - W: } \frac{\quad}{2} \times \cos r \frac{\quad}{2} = F_{r2} \frac{\quad}{2} & \text{Product Approval } F' & \frac{\quad}{2} \\ \text{(Zone 3: } \frac{\quad}{2} \times L \frac{\quad}{2} &= \frac{\quad}{2} \times w: \frac{\quad}{2} \text{) - W: } \frac{\quad}{2} \times \cos r \frac{\quad}{2} = F_{r3} \frac{\quad}{2} & \text{Product Approval } F' & \frac{\quad}{2} \end{aligned}$$

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	Zones 1, 2, 3	From applicable table in RAS 127 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.		



Miami-Dade County HVHZ Electronic Roof Permit Form

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Illustrate Components Noted and Details as Applicable:

Concrete wall Elastomeric sealant tooled to facilitate water run-off Optional: compressible Elastomeric sealant Metal counterflashing mech attached 8" o/c w/ washer Seal top of base flashing w/ compatible material Termination bar mech. attached 6" o/c Field plies turned up wall Base flashing min. 8" above finished roof Multiple plies of built up roofing Top Layer of Insulation Base Layer of Insulation Optional Anchor Sheet ASTM Primer Concrete Roof Deck Cant strip	Parapet wall height: ft. Roof Mean Height: ft. Base Flashing: Surfacing: Top Ply: Inter Ply Sheet: Base Sheet: Top Layer of Insulation: Base Layer of Insulation: Anchor Sheet:
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