Florida Building Code 8th Edition (2023)

High Velocity Hurricane Zone Uniform Roofing Application Form for Miami-Dade County

Section A (General Information)

Master Permit Number: _____ Process Number: _____

Contractor's Name: Roofing and Construction Corp

Job Address: 15569 Miami Lakeway N Miami Lakes FL 33014

ROOF CATEGORY

☐ Low Slope	☐ Mechanically Fastened Tile	☑ Mortar / Adhesive Set Tile
☐ Asphaltic Shingles	☐ Metal Panel/ Shingles	☐ Wood Shingles / Shakes

ROOF TYPE

☐ New Roof ☐ Repair ☐ Maintenance ☑ Reroofing ☐ Recovering

ROOF SYSTEM INFORMATION

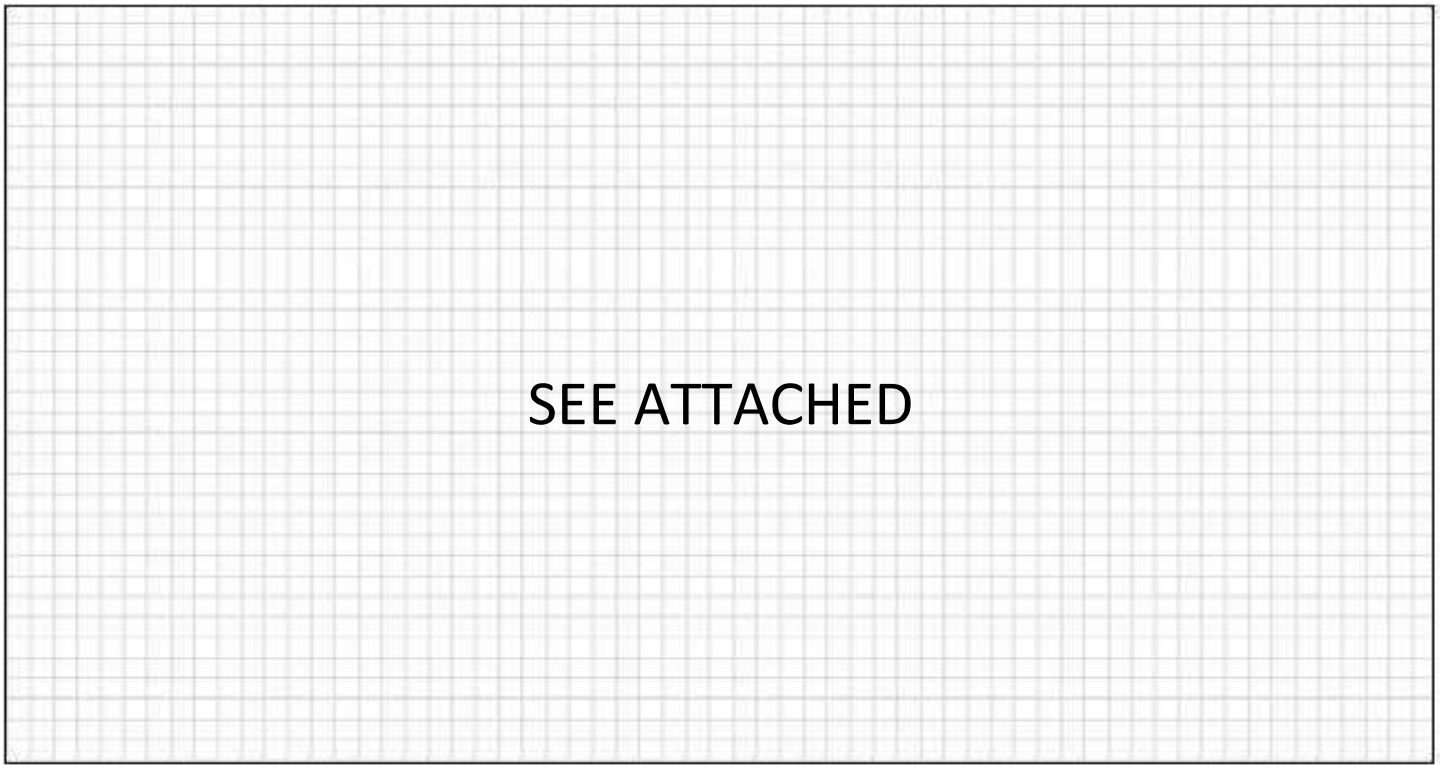
Low Slope Roof Area (ft^2)	Steep Sloped Roof Area (ft^2)	Total (ft^2)
0	9933	9933

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

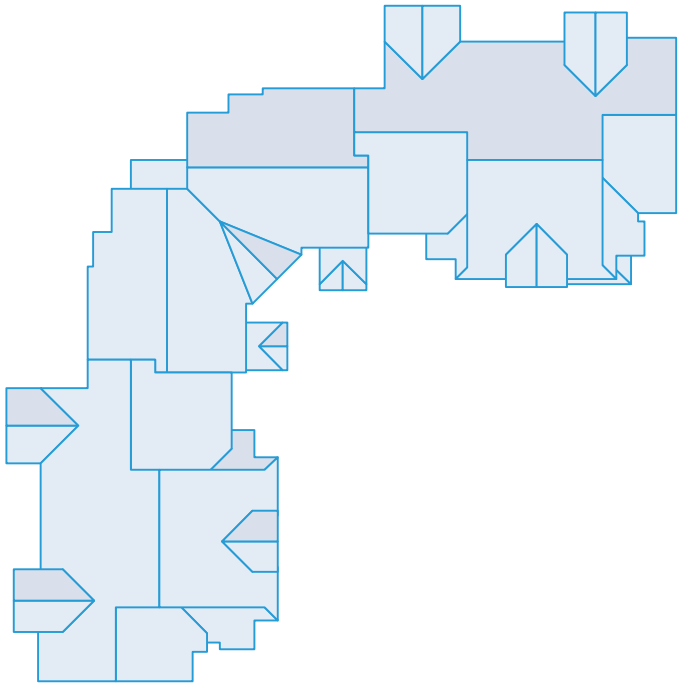
Section B (Roof Plan)

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.



Summary of all structures from report #20

15405 Miami Lakeway North, Miami Lakes, Florida, United States



Measurements	
Total roof area	9933 sqft
Total pitched area	9933 sqft
Total flat area	0 sqft
Total roof facets	39 facets
Predominant pitch	5/12
Total eaves	458ft 5in
Total valleys	243ft 4in
Total hips	21ft 10in
Total ridges	332ft 4in
Total rakes	558ft 3in
Total wall flashing	112ft 6in
Total step flashing	212ft 1in
Total transitions	0ft 0in
Total parapet wall	0ft 0in
Total unspecified	196ft 3in
Hips + ridges	354ft 2in
Eaves + rakes	1016ft 8in

Pitch	5/12
Area (sqft)	9,934
Squares	99.4

Waste %	0%	10%	12%	15%	17%	20%	22%
Area (sqft)	9,934	10,927	11,125	11,423	11,622	11,920	12,119
Squares	99.4	109.3	111.3	114.3	116.3	119.2	121.2

These waste calculations offer a general guide to total roof size with some common waste percentages applied. A number of factors are involved in determining which waste percentage to use, including the complexity of the roof and individual roof application style.

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Section D (Steep Sloped Roof System)

Roof System Manufacturer: WestLake Roofing

Product Control Number: 24-1008.10

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

Zone1: -63 Zone 2: -101 Zone3: -120

Slope Range: ○ ≥ 2:12 to ≤ 4:12 ⊗ > 4:12 to ≤ 6:12 ○ > 6:12 to ≤ 12:12

Roof Shape: ○ All Hip Roof ⊗ Gable Roof or Partial Gable/Hip Roof

Deck Type: 5/8 Plywood

Underlayment Type: PolyAnchor UDL-15

Roof Slope: 5 : 12

Insulation: N/A

Fire Barrier: N/A

Ridge Ventilation? N/A

Fastener Type & Spacing: 1 1/4 R.S Nails 6" OC Seams 4" Field

Cap Sheet Type: TU MAX

Mean Roof Height: 25'

Cap Sheet Attachment: Self Adhered

Roof Covering: Villa 900 Concrete Tiles

Drip Edge Type & Size: 3x3 24GA Galv

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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: -63 x λ 0.315 = -19.84) – Mg: 7.34 = Mr_1 -27.18 Product Approval Mf: 46

(Zone 2: -101 x λ 0.315 = -31.81) – Mg: 7.34 = Mr_{2e} -39.15 Product Approval Mf: 46

(Zone 3: -120 x λ 0.315 = -37.8) – Mg: 7.34 = Mr_{2n} -45.14 Product Approval Mf: 46

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

Method 2 "Simplified Tile Calculations" only applicable in Broward County.

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 _____) = Fr_1 _____ Product Approval F': _____

(Zone 2: _____ x L = _____ x W = _____) – (w) x cos θ _____) = Fr_2 _____ Product Approval F': _____

(Zone 3: _____ x L = _____ x W = _____) – (w) x cos θ _____) = Fr_3 _____ Product Approval 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.		