

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: BL2023-0660

Process Number: \_\_\_\_\_

Contractor's Name: A-1 Property Services Group, Inc.

Job Address: 7725 SW 114 ST PINECREST, FL 33156-4422

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<sup>2</sup>)

Steep Sloped Roof Area (ft<sup>2</sup>)  
11,200

Total (ft<sup>2</sup>)  
11,200

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.

See attached

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Section D (Steep Sloped Roof System)

Roof System Manufacturer: WestLake

Product Control Number: 24-0320.02

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

Zone1: -75 Zone 2: -97 Zone3: -104

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 or Partial Gable/Hip Roof

Deck Type: 5/8" Plywood

Underlayment Type: N/A

Roof Slope:

4

: 12

Insulation: N/A

Fire Barrier: N/A

Ridge Ventilation?

N/A

Fastener Type & Spacing: N/A

Cap Sheet Type: Polystick TU Max Underlayment (NOA24-0805.04)

Mean Roof Height: 20

Cap Sheet Attachment: Self-Adhered

Roof Covering: Saxony 900

Drip Edge Type & Size: 3"x3" 26 GA

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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  $M_r$  values are greater than or equal to 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"**

*Enter positive uplift pressures when using this table*

|                           |                  |                  |     |                  |   |                       |             |                  |                                          |
|---------------------------|------------------|------------------|-----|------------------|---|-----------------------|-------------|------------------|------------------------------------------|
| ( Zone 1: <u>  -75  </u>  | $\times \lambda$ | <u>  0.315  </u> | $=$ | <u>  23.62  </u> | ) | $- Mg: \frac{7.51}{}$ | $= M_{f1}$  | <u>  16.11  </u> | Product Approval $M_f$ : <u>  63.3  </u> |
| ( Zone 2: <u>  -97  </u>  | $\times \lambda$ | <u>  0.315  </u> | $=$ | <u>  30.53  </u> | ) | $- Mg: \frac{7.51}{}$ | $= M_{r2e}$ | <u>  23.04  </u> | Product Approval $M_f$ : <u>  63.3  </u> |
| ( Zone 3: <u>  -104  </u> | $\times \lambda$ | <u>  0.315  </u> | $=$ | <u>  32.76  </u> | ) | $- Mg: \frac{7.51}{}$ | $= M_{r2n}$ | <u>  25.25  </u> | Product Approval $M_f$ : <u>  63.3  </u> |

**Tile attachment method:** Medium paddy

**Alternate Tile attachment method :** Medium paddy

**\*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  $F_r$ . 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: <u>      </u> | $\times L =$ | <u>      </u> | $\times W =$ | <u>      </u> | ) | $- (w) \times \cos \theta$ | <u>      </u> | ) | $= Fr_1$ | <u>      </u> | Product Approval $F'$ : <u>      </u> |
| (Zone 2: <u>      </u> | $\times L =$ | <u>      </u> | $\times W =$ | <u>      </u> | ) | $- (w) \times \cos \theta$ | <u>      </u> | ) | $= Fr_2$ | <u>      </u> | Product Approval $F'$ : <u>      </u> |
| (Zone 3: <u>      </u> | $\times L =$ | <u>      </u> | $\times W =$ | <u>      </u> | ) | $- (w) \times \cos \theta$ | <u>      </u> | ) | $= Fr_3$ | <u>      </u> | Product Approval $F'$ : <u>      </u> |

| <i>Where to obtain information</i>                                                             |                   |                                                                                                        |
|------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------|
| 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                                                                                     | $\theta$          | Job Site                                                                                               |
| Aerodynamic Multiplier                                                                         | $\lambda$         | 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. |                   |                                                                                                        |