# Florida Building Code 8th Edition (2023) MDC High Velocity Hurricane Zone Application Form Section E (Tile Calculations) 

Enter positive uplift pressures in the Zone Fields when using these methods of calculating attachment.
For Moment based tile systems, choose Method 1. Compare the values for Mr with the values from Mf. If the Mf values are greater than or equal to the Mr 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: $\square$
Zone 3: $\square=$ $\square$ $\square-\mathrm{Mg}$ $\square$


Tile attachment method: $\square$ Alternate attachment method: $\square$
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:


Zone 2:
Zone 3:
$\square$

$\square$ NOA F' $\square$

| 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 <br> 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 | Mg | Product Approval / Notice of Acceptance |
| Attachment Resistance | Mf | Product Approval / Notice of Acceptance |
| Required Moment Resistance | Mr | Calculated |
| Minimum Attachment Resistance | F | Product Approval / Notice of Acceptance |
| Required Uplift Resistance | Fr | Calculated |
| Average Tile Weight | w | Product Approval / Notice of Acceptance |
| Tile Dimensions | All calculations must be submitted to the Building Official at the time of permit application. |  |

