

2023 HVHV E-Form
Tile System



Section D (System Page)

Roof System Manufacturer:

Florida Approval (PA) or MDC Notice of Acceptance (NOA) Number:

Roof Slope: :12 Roof Mean Height: ft Perimeter Width: ft

Roof Shape: All Hip Gable

Exposure Category: C D

Minimum Design Wind Pressures (psf) from RAS127-23 or Calculations per ASCE 7-20

P(1) Field: psf P(2) Perimeter: psf (P3) Corner: psf

Deck Type: Optional ply sheet:

Optional insulation: Optional ply sheet attachment method:

Optional insulation attachment: Tile cap sheet type:

Optional nailable substrate: Cap sheet attachment method:

Optional nailable substrate attachment: Self Adhered (SA) tile underlayment:

Basesheet Type: PA or NOA SA approval number:

Fastener type & spacing for basesheet attachment: Tile profile:

Drip edge type, size & gauge: Tile attachment method:

Drip edge fastener & attachment spacing: Additional tile attachment method:

Drip edge continuous cleat:

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Tile Systems**



Section E (Calculations Page)

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”

P(1) Field:	$x \lambda$	=	- Mg:	= Mr1 :	≤	NOA Mf:
P(2) Perimeter:	$x \lambda$	=	- Mg:	= Mr2:	≤	NOA Mf:
P(3) Corner:	$x \lambda$	=	- Mg:	= Mr3:	≤	NOA Mf:

Tile attachment method:

Alternate attachment method:

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”

P(1):	$x L:$	=	$x W:$	=	- w:	=	$x \cos \theta$	= Fr1	NOA F'
P(2):	$x L:$	=	$x W:$	=	- w:	=	$x \cos \theta$	= Fr2	NOA F'
P(3):	$x L:$	=	$x W:$	=	- w:	=	$x \cos \theta$	= Fr3	NOA F'

Where to obtain information

Description	Symbol	Where to Find
Design Pressure	Zones 1, 2e, 2n, 2r,3e, 3r	From the applicable Table in RAS- 127 or by 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	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	L=Length W= Width	Product Approval / Notice of Acceptance
All calculations must be submitted to the Building Official at the time of permit application.		

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