

100 MPH

EXPOSURE: 'C'

HEIGHT: 30 ft (Mean)

WIND RESISTANCE ASSEMBLY

Speed: 100 MPH.
Building Height: 30-FT.
Exposure: 'C'

FIELD (1)
-17.9 PSF

EDGE (2)
-33.8 PSF

CORNER (3)
-51.7 PSF

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Panels DIRECT to DECK

DESIGN CRITERIA:

The design criteria for uplift resistance pressures for a mean roof height as noted, is developed using ASCE 7.05. Minimum Design Wind Uplift Pressures in PSF for FIELD (P(1), EDGE (P(2), and CORNER (P(3) for Exposure 'C' Buildings with a Mean Roof Height as specified.

ROOF WIND ZONE: (1) 'FIELD' Uplift Req., = -17.9 PSF (UL TGIK R19204 Uplift Resistance -#3,-95.00 psf)

DECKING Min., 19/32" in. thick, Grade B-C APA rated Plywood or equal. Each course must have continual support across roof at the back-lip of each panel..

BATTENS N/A

* PANELS Panels attached with Five (5) 8d (Penny) X 1-3/4 inch Ring-Shank Nails through the front downturn nose of each panel.

ROOF WIND ZONE: (2) 'EDGE' Uplift Req., = -33.8 PSF (UL TGIK R19204 Uplift Resistance -#3,-95.00 psf)

DECKING (See ZONE (1) above)

BATTENS N/A

* PANELS (See ZONE (1) above)

ROOF WIND ZONE: (3) 'CORNER' Uplift Req., = -51.7 PSF (UL TGIK R19204 Uplift Resistance -#14,-307.00 psf)

DECKING (See ZONE (1) above)

BATTENS N/A

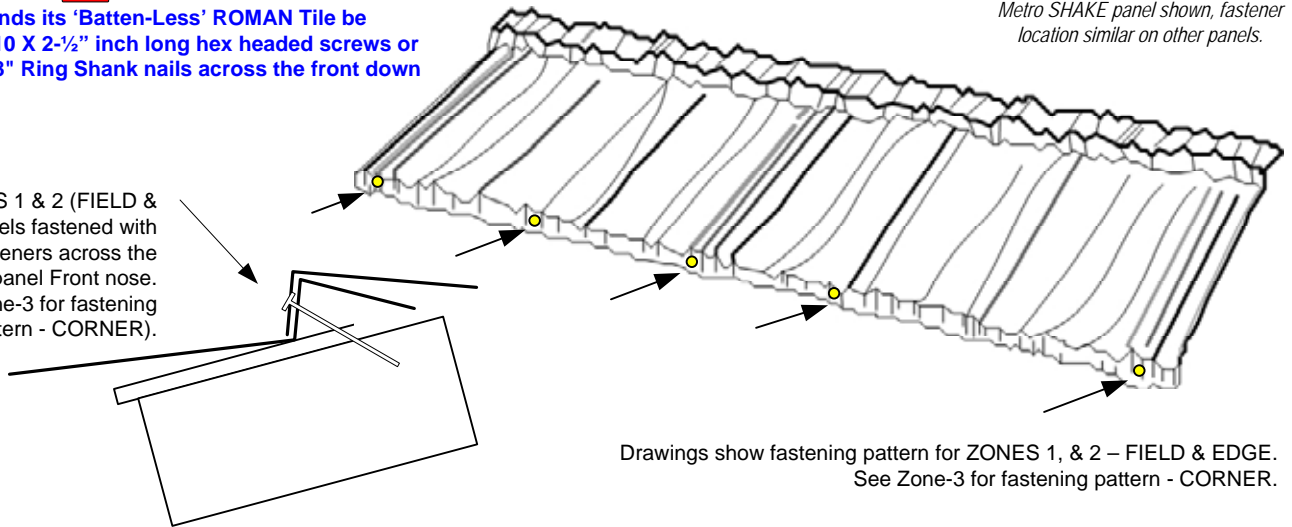
* PANELS Panels attached with Six (6) #10-16 X 2-inch long 1/4"-inch hex head screws through the front downturn nose of each panel and Six (6) #10-16 X 2-inch long 1/4"-inch hex head screws through the back shelf of the panel for a total of 12-fasteners per panel.

* CAUTION

Metro recommends its 'Batten-Less' ROMAN Tile be installed with #10 X 2-1/2" inch long hex headed screws or .131" Dia X 2-3/8" Ring Shank nails across the front downturn nose.

Metro SHAKE panel shown, fastener location similar on other panels.

ZONES 1 & 2 (FIELD & EDGE) panels fastened with Five (5) fasteners across the panel Front nose. (See Zone-3 for fastening pattern - CORNER).



Drawings show fastening pattern for ZONES 1, & 2 - FIELD & EDGE. See Zone-3 for fastening pattern - CORNER.

(Metro provided fasteners may be used as follows for panel fastening:
Screws - #10 X 2-inch long Hex Head
Nails - .131" Dia X 2 inch long Ring Shank)

Roofs have designated ROOF WIND ZONES identified as FIELD (P(1), EDGE (P(2), or CORNER (P(3). ASCE 7.05 Uses 3-Sec gust calculation formulas.