

110 MPH

EXPOSURE: 'B'

HEIGHT: 30 ft (Mean)

WIND RESISTANCE ASSEMBLY

Speed: 110 MPH.
Building Height: 30-FT.
Exposure: 'B'

FIELD (1)
-16.6 PSF

EDGE (2)
-31.3 PSF

CORNER (3)
-47.8 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 'B' Buildings with a Mean Roof Height as specified.

ROOF WIND ZONE: (1) 'FIELD' Uplift Req., = -16.6 PSF (UL TGIK R19204 Uplift Resistance -#3,-95.00 psf)

Table with 2 columns: Component (DECKING, BATTENS, \* PANELS) and Description (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..)

ROOF WIND ZONE: (2) 'EDGE' Uplift Req., = -31.3 PSF (UL TGIK R19204 Uplift Resistance -#3,-95.00 psf)

Table with 2 columns: Component (DECKING, BATTENS, \* PANELS) and Description ((See ZONE (1) above))

ROOF WIND ZONE: (3) 'CORNER' Uplift Req., = -47.8 PSF (UL TGIK R19204 Uplift Resistance -#14,-307.00 psf)

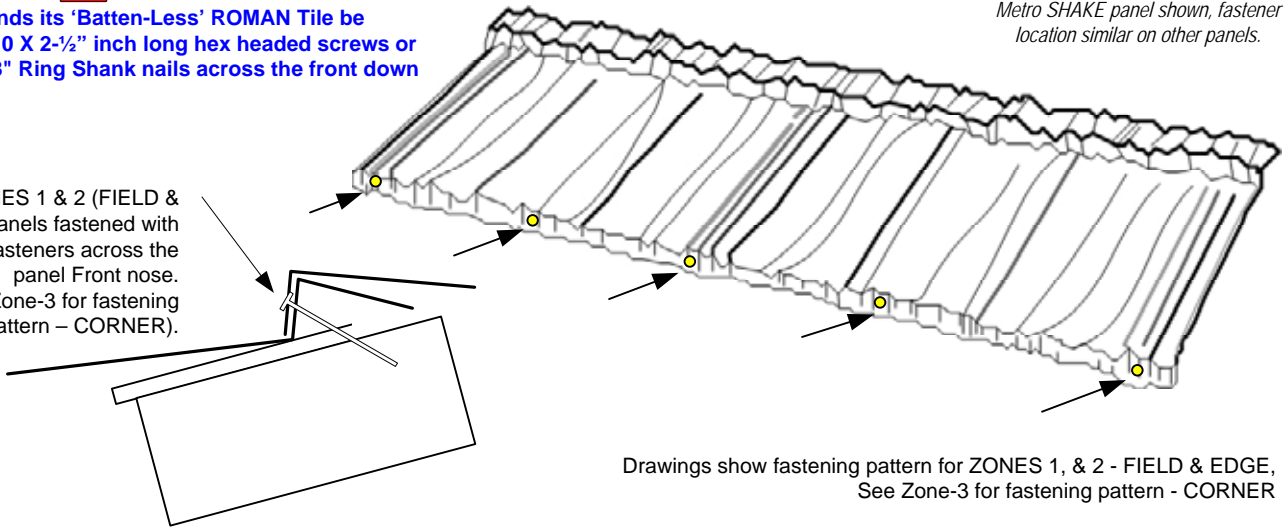
Table with 2 columns: Component (DECKING, BATTENS, \* PANELS) and Description ((See ZONE (1) above), Panels attached with Six (6) #10-16 X 2-inch long 1/4"-inch hex head screws through the front downturn nose of each panel and Six (6) #10-16 X 2-inch long 1/4"-inch hex head screws through the back shelf of the panel for a total of 12-fasteners per panel.)

\* CAUTION [Warning Triangle]

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 downturned 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.