100 MPH EXPOSURE: 'C' HEIGHT: 30 ft (Mean)

WIND RESISTANCE ASSEMBLY

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

FIELD (1)	EDGE (2)	CORNER (3)
-17.9 PSF	-33.8 PSF	-51.7 PSF

Panels on 1X4 BATTENS

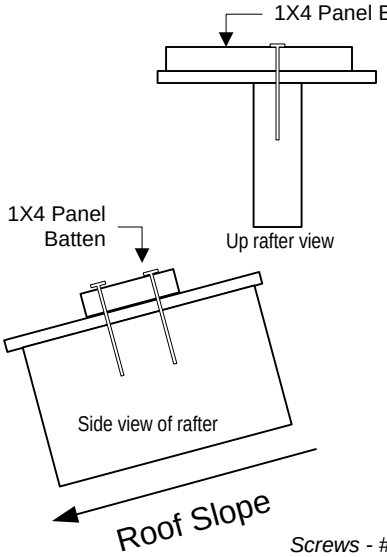
Metro Roof Products
3093 'A' Industry Street
Oceanside CA 92054
PH 760-435-9842
www.smartroofs.com

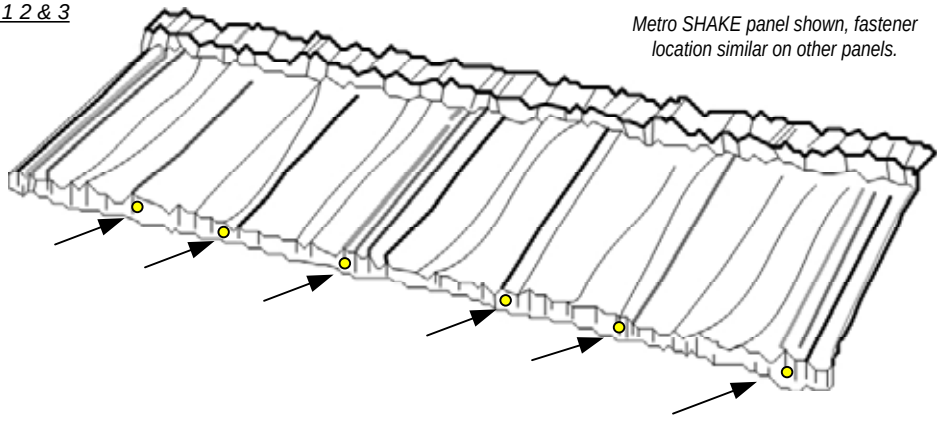
DESIGN CRITERIA:

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 -#10,-115.00 PSF)*	
DECKING	Min., 15/32"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	1X4"in. panel battens laid perpendicular to rafters and spaced at 14-1/2" in O/C up the rafter and attached with two (2) 16-d nails (.131" dia X 3-¼") @ 24" inches O/C at each rafter & 1X4 intersection.
* PANELS	Panels attached through the front downturn with Six (6) Ring Shank nails per panel. Nails are min- .113" Dia X 2" Ring Shank nails.
ROOF WIND ZONE: **(2)** 'EDGE' Uplift Req., = **-33.8 PSF** *(UL TGIK R19204 Uplift Resistance -#10,-115.00 PSF)*	
DECKING	(See ZONE (1) above)
BATTENS	(See ZONE (1) above)
* PANELS	(See ZONE (1) above)
ROOF WIND ZONE: **(3)** 'CORNER' Uplift Req.,= **-51.7 PSF** *(UL TGIK R19204 Uplift Resistance -#10,-115.00 PSF)*	
DECKING	(See ZONE (1) above)
BATTENS	(See ZONE (1) above)
* PANELS	(See ZONE (1) above)

1X4 PANEL BATTEN FASTENING 2 Nails for Zone 1 2 & 3





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

Arrows indicate nose fastener locations for FIELD-1, EDGE-2 & CORNER-3.

(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.