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

WIND RESISTANCE ASSEMBLY

Speed: 90 MPH.
Building Height: 30-FT.
Exposure: 'C'

FIELD (1)	EDGE (2)	CORNER (3)
-17.6 PSF	-33.2 PSF	-50.7 PSF

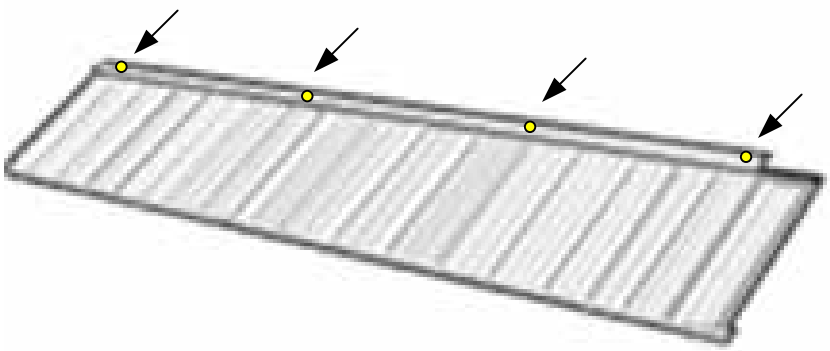
Panels DIRECT to DECK

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

Metro Panels: Metro-SHINGLE™ only!

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) fopr Exposure 'B' Buildings with a Mean Roof Height as specified.

ROOF WIND ZONE: **(1)** 'FIELD' Uplift Req., = **-17.6 PSF** *(UL TGIK R19204 Uplift Resistance -#1,-90.00 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 a minimum of Four (4) 8d (1-inch long) Ring Shank nails through the back fastening flange of each panel.
ROOF WIND ZONE: **(2)** 'EDGE' Uplift Req., = **-33.2 PSF** *(UL TGIK R19204 Uplift Resistance -#1,-90.00 psf)*	
DECKING	(See ZONE (1) above)
BATTENS	N/A
* PANELS	(See ZONE (1) above)
ROOF WIND ZONE: **(3)** 'CORNER' Uplift Req.,= **-50.7 PSF** *(UL TGIK R19204 Uplift Resistance -#2,-145.00 psf)*	
DECKING	(See ZONE (1) above)
BATTENS	N/A
* PANELS	Panels attached with a minimum of Six (6) #10 X 1-inch long screws through the back fastening flange of each panel.



Arrows indicate fastener locations for Zones 1 & 2 - FIELD & EDGE
See Zone-3 above 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.