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## **Technical Bulletin**

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**MAX-RIB 26 GAUGE** 

## Manufacturer's Recommended Fastening Pattern For Buildings Less than 40' Maximum Roof Height Roof Pitch 7°(1.5:12) to 27°(6.1:12)

Fastening Pattern for Various Wind Speeds				
Fastener	Substrate	Wind Speed	Roof Zone 1	Roof Zone 2 & 3
#9-15 x 1-1/2" Woodgrip	1/2" Plywood	90-120 MPH	36"	14"
		120-140 MPH	27"	10"
		140-160 MPH	21"	8"
#9-15 x 1-1/2" Woodgrip	1x4 Strips over decking	90-120 MPH	36"	24"
		120-140 MPH	33"	19"
		140-160 MPH	29"	14"
#12-14 x 1-1/4" SD #2	Minimum 16 Ga Steel	90-120 MPH	39"	24"
		120-140 MPH	33"	20"
		140-160 MPH	29"	18"

Notes:

1. Table is calculated using ASCE 7-05 "Minimum Design Loads for Buildings and Other Structures".

2. Values cannot be utilized for buildings with a peak height greater than 40'.

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3. Values cannot be used for buildings with a roof pitch less than  $7^{\circ}$  or greater than  $27^{\circ}$ .

4. Fastening pattern is the distance between fasteners running parallel to the panel length.

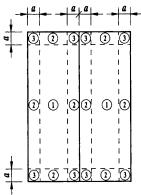
5. Fastening pattern perpendicular to panel rib is 9" o/c, i.e., one fastener next to each major rib.

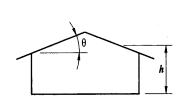
6. Calculations use pullout values provided by the screw manufacturer.

7. Factor of safety used for pullout is 2.25 when attaching to steel and 3.00 when attaching to plywood & 1x4 strips. Adjust values accordingly for a different factor of safety.

8. Panel Spacing limited to L/180 deflection for loads acting towards the surface of the panel.

9. See Diagram below for roof zone definition.





Dimension "a" is defined as 10% of the least horizontal dimension or .4h, whichever is smaller, but not less than 4% of the least horizontal dimension or 3 ft. Where "h" is defined as the mean roof height in feet.

## CORPORATE OFFICE SHREVEPORT, LOUISIANA