metal sales
manufacturing corporation

16" Magna-Loc on 19/32" Plywood

Roof Fastener Spacing (feet)

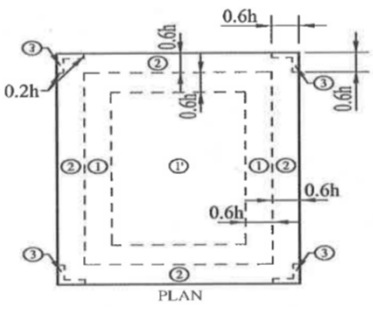
Wind Speed (mph) Exposure Category		Roof Slope: 0.5:12 to 1.47:12				Roof Slope: 1.48:12 to 6.11:12			Roof Slope: 6.12:12 to 12:12		
	Thickness	zone 1' -14.6 psf	zone 1 -26 psf	zone 2 -34.6 psf	zone 3 -47.4 psf	zone 1,2e -30.3 psf	z 2n,2r,3e -44.6 psf	zone 3r -53.1 psf	z 1,2e,2r -27.5 psf	z 2n,3r -30.3 psf	zone 3e -47.4 psf
110C	24 ga	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
120C	Thickness	zone 1' -17.6 psf	zone 1 -31.1 psf	zone 2 -41.3 psf	zone 3 -56.6 psf	zone 1,2e -36.2 psf	z 2n,2r,3e -53.2 psf	zone 3r -63.3 psf	z 1,2e,2r -32.8 psf	z 2n,3r -36.2 psf	zone 3e -56.6 psf
	24 ga	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
130C	Thickness	zone 1' -20.7 psf	zone 1 -36.7 psf	zone 2 -48.6 psf	zone 3 -66.5 psf	zone 1,2e -42.6 psf	z 2n,2r,3e -62.5 psf	zone 3r -74.5 psf	z 1,2e,2r -38.7 psf	z 2n,3r -42.6 psf	zone 3e -66.5 psf
	24 ga	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
140C	Thickness	zone 1' -24.2 psf	zone 1 -42.6 psf	zone 2 -56.5 psf	zone 3 -77.3 psf	zone 1,2e -49.6 psf	z 2n,2r,3e -72.6 psf	zone 3r -86.5 psf	z 1,2e,2r -44.9 psf	z 2n,3r -49.6 psf	zone 3e -77.3 psf
	24 ga	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
150C	Thickness	zone 1' -27.9 psf	zone 1 -49.1 psf	zone 2 -65 psf	zone 3 -88.8 psf	zone 1,2e -57 psf	z 2n,2r,3e -83.5 psf	zone 3r -99.4 psf	z 1,2e,2r -51.7 psf	z 2n,3r -57 psf	zone 3e -88.8 psf
	24 ga	2.50	2.50	2.50	2.50	2.50	2.50	1.50	2.50	2.50	2.50
160C	Thickness	zone 1' -31.8 psf	zone 1 -55.9 psf	zone 2 -74 psf	zone 3 -101.1 psf	zone 1,2e -65 psf	z 2n,2r,3e -95.1 psf	zone 3r -113.2 psf	z 1,2e,2r -58.9 psf	z 2n,3r -65 psf	zone 3e -101.1 psf
	24 ga	2.50	2.50	2.50	1.00	2.50	2.50	0.75	2.50	2.50	1.00
170C	Thickness	zone 1' -36 psf	zone 1 -63.2 psf	zone 2 -83.6 psf	zone 3 -114.3 psf	zone 1,2e -73.4 psf	z 2n,2r,3e -107.5 psf	zone 3r -127.9 psf	z 1,2e,2r -66.6 psf	z 2n,3r -73.4 psf	zone 3e -114.3 psf
	24 ga	2.50	2.50	2.50	0.75	N.G.	N.G.	N.G.	2.50	2.50	0.75
180C	Thickness	zone 1' -40.5 psf	zone 1 -71 psf	zone 2 -93.9 psf	zone 3 -128.2 psf	zone 1,2e -82.4 psf	z 2n,2r,3e -120.6 psf	zone 3r -143.5 psf	z 1,2e,2r -74.8 psf	z 2n,3r -82.4 psf	zone 3e -128.2 psf
	24 ga	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

Notes:

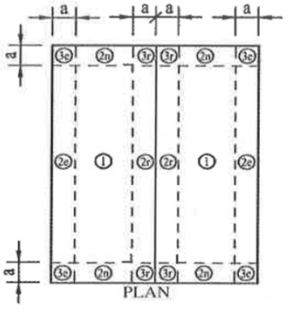
1. Allowable spacing is based on a Design Pressures listed in the Miami-Dade NOA, 18-0919.01 and determined by linear interpolation of those values. 1/3 increase is not included for wind. The fasteners and fastening patterns are shown in the Approval.

2. Allowable spacing is based on an applied load determined using ASCE 7-16 for the Wind Speeds, Wind Exposure Categories, " Roof Slopes, and Roof Zones shown, assuming 10 square feet of tributary area, Enclosed Gable Roof, 3 or more span case, Topographic Factor of 1, and Mean Roof Height of 20 feet.

3. Allowable spacing is determined for wind suction using the pressures shown, resulting from the combination 0.6DL + 0.6W. Also considered is the inward wind pressure, 20 psf live load and the weight of the panel.



Roof Slope: 0.5:12 to 1.47:12



Roof Slope: 1.48:12 to 12:12