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 1.5:12			Roof Slope: 1.5:12 to 6:12			Roof Slope: 6:12 to 12:12		
	Thickness	Field -24.2 psf	Edge -41.2 psf	Corner -62.3 psf	Field -22.1 psf	Edge -39 psf	Corner -58.1 psf	Field -24.2 psf	Edge -28.5 psf	Corner -28.5 psf
120D	24 ga	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
	Thickness	Field -28.6 psf	Edge -48.4 psf	Corner -73.3 psf	Field -26.1 psf	Edge -46 psf	Corner -68.3 psf	Field -28.6 psf	Edge -33.5 psf	Corner -33.5 psf
130D	24 ga	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
	Thickness	Field -33.2 psf	Edge -56.3 psf	Corner -85.1 psf	Field -30.4 psf	Edge -53.4 psf	Corner -79.4 psf	Field -33.2 psf	Edge -39 psf	Corner -39 psf
140D	24 ga	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
	Thickness	Field -38.3 psf	Edge -64.7 psf	Corner -97.8 psf	Field -35 psf	Edge -61.4 psf	Corner -91.2 psf	Field -38.3 psf	Edge -44.9 psf	Corner -44.9 psf
150D	24 ga	2.33	2.33	2.00	2.33	2.33	2.33	2.33	2.33	2.33
	Thickness	Field -43.7 psf	Edge -73.8 psf	Corner -111.4 psf	Field -39.9 psf	Edge -70 psf	Corner -103.9 psf	Field -43.7 psf	Edge -51.2 psf	Corner -51.2 psf
160D	24 ga	2.33	2.33	1.33	2.33	2.33	1.67	2.33	2.33	2.33
	Thickness	Field -49.4 psf	Edge -83.4 psf	Corner -125.9 psf	Field -45.1 psf	Edge -79.1 psf	Corner -117.4 psf	Field -49.4 psf	Edge -57.9 psf	Corner -57.9 psf
170D	24 ga	2.33	2.33	1.00*	2.33	2.33	1.00	2.33	2.33	2.33
	Thickness	Field -55.5 psf	Edge -93.6 psf	Corner -141.2 psf	Field -50.7 psf	Edge -88.8 psf	Corner -131.7 psf	Field -55.5 psf	Edge -65 psf	Corner -65 psf
180D	24 ga	2.33	2.33	1.00*	2.33	2.33	1.00*	2.33	2.33	2.33
	Thickness	Field -61.9 psf	Edge -104.3 psf	Corner -157.4 psf	Field -56.6 psf	Edge -99 psf	Corner -146.8 psf	Field -61.9 psf	Edge -72.5 psf	Corner -72.5 psf
190D	24 ga	2.33	1.67	1.00*	2.33	2.00	1.00*	2.33	2.33	2.33

Notes:

1. Allowable spacing is based on a Design Pressures listed in the FBC 2017 Approval, FL11560.6 and determined by linear interpolation of those values. 1/3 increase is not included for wind. The fasteners and patters are shown in the Approval.

2. Allowable spacing is based on an applied load determined using ASCE 7-10 for the Wind Speeds, Wind Exposure Categories, " Roof Slopes, and Roof Zones shown, assuming 10 square feet of tributary area, Enclosed building, 3 or more span case, Topographic Factor of 1, and Mean Roof Height of 25 feet.

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

* - Indicates that MPW-1203-8 Clip are required in this zone.