metal sales
manufacturing corporation

16" Magna-Loc on 22 ga Steel Deck

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 -20.2 psf	Edge -34.4 psf	Corner -52.2 psf	Field -18.4 psf	Edge -32.7 psf	Corner -48.7 psf	Field -20.2 psf	Edge -23.8 psf	Corner -23.8 psf
120C	24 ga	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	Thickness	Field -23.9 psf	Edge -40.5 psf	Corner -61.4 psf	Field -21.8 psf	Edge -38.5 psf	Corner -57.2 psf	Field -23.9 psf	Edge -28 psf	Corner -28 psf
130C	24 ga	3.00	3.00	1.00*	3.00	3.00	3.00	3.00	3.00	3.00
	Thickness	Field -27.8 psf	Edge -47.1 psf	Corner -71.3 psf	Field -25.4 psf	Edge -44.7 psf	Corner -66.5 psf	Field -27.8 psf	Edge -32.6 psf	Corner -32.6 psf
140C	24 ga	3.00	3.00	1.00*	3.00	3.00	1.00*	3.00	3.00	3.00
	Thickness	Field -32 psf	Edge -54.2 psf	Corner -82 psf	Field -29.2 psf	Edge -51.5 psf	Corner -76.4 psf	Field -32 psf	Edge -37.6 psf	Corner -37.6 psf
150C	24 ga	3.00	3.00	1.00*	3.00	3.00	1.00*	3.00	3.00	3.00
	Thickness	Field -36.5 psf	Edge -61.8 psf	Corner -93.4 psf	Field -33.4 psf	Edge -58.6 psf	Corner -87.1 psf	Field -36.5 psf	Edge -42.9 psf	Corner -42.9 psf
160C	24 ga	3.00	1.00*	1.00*	3.00	3.00	1.00*	3.00	3.00	3.00
	Thickness	Field -41.3 psf	Edge -69.9 psf	Corner -105.5 psf	Field -37.8 psf	Edge -66.3 psf	Corner -98.4 psf	Field -41.3 psf	Edge -48.5 psf	Corner -48.5 psf
170C	24 ga	3.00	1.00*	1.00*	3.00	1.00*	1.00*	3.00	3.00	3.00
	Thickness	Field -46.4 psf	Edge -78.4 psf	Corner -118.4 psf	Field -42.4 psf	Edge -74.4 psf	Corner -110.4 psf	Field -46.4 psf	Edge -54.4 psf	Corner -54.4 psf
180C	24 ga	3.00	1.00*	1.00*	3.00	1.00*	1.00*	3.00	3.00	3.00
	Thickness	Field -51.8 psf	Edge -87.5 psf	Corner -132 psf	Field -47.4 psf	Edge -83 psf	Corner -123.1 psf	Field -51.8 psf	Edge -60.7 psf	Corner -60.7 psf
190C	24 ga	3.00	1.00*	1.00*	3.00	1.00*	1.00*	3.00	1.00*	1.00*

Notes:

1. Allowable spacing is based on a Design Pressures listed in the FBC 2017 Approval, FL11560.7 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.