metal sales
manufacturing corporation

16" Magna-Loc on 16 ga Purlins

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 -22.8 psf	Corner -34.7 psf	Field -18.4 psf	Edge -21.6 psf	Corner -32.4 psf	Field -20.2 psf	Edge -15.7 psf	Corner -15.7 psf
120C	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -23.9 psf	Edge -26.9 psf	Corner -40.9 psf	Field -21.8 psf	Edge -25.5 psf	Corner -38.1 psf	Field -23.9 psf	Edge -18.5 psf	Corner -18.5 psf
130C	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -27.8 psf	Edge -31.3 psf	Corner -47.5 psf	Field -25.4 psf	Edge -29.7 psf	Corner -44.3 psf	Field -27.8 psf	Edge -21.6 psf	Corner -21.6 psf
140C	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -32 psf	Edge -36.1 psf	Corner -54.7 psf	Field -29.2 psf	Edge -34.2 psf	Corner -51 psf	Field -32 psf	Edge -24.9 psf	Corner -24.9 psf
150C	24 ga	5.00	5.00	4.33	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -36.5 psf	Edge -41.2 psf	Corner -62.3 psf	Field -33.4 psf	Edge -39 psf	Corner -58.1 psf	Field -36.5 psf	Edge -28.5 psf	Corner -28.5 psf
160C	24 ga	5.00	5.00	4.00	5.00	5.00	4.33	5.00	5.00	5.00
	Thickness	Field -41.3 psf	Edge -46.6 psf	Corner -70.5 psf	Field -37.8 psf	Edge -44.2 psf	Corner -65.7 psf	Field -41.3 psf	Edge -32.2 psf	Corner -32.2 psf
170C	24 ga	5.00	5.00	3.33	5.00	5.00	3.67	5.00	5.00	5.00
	Thickness	Field -46.4 psf	Edge -52.3 psf	Corner -79.1 psf	Field -42.4 psf	Edge -49.6 psf	Corner -73.7 psf	Field -46.4 psf	Edge -36.2 psf	Corner -36.2 psf
180C	24 ga	5.00	4.67	3.00	5.00	5.00	3.33	5.00	5.00	5.00
	Thickness	Field -51.8 psf	Edge -58.4 psf	Corner -88.2 psf	Field -47.4 psf	Edge -55.4 psf	Corner -82.2 psf	Field -51.8 psf	Edge -40.4 psf	Corner -40.4 psf
190C	24 ga	4.67	4.33	2.67	5.00	4.33	3.00	4.67	5.00	5.00

Notes:

1. Allowable spacing is based on a Design Pressures listed in the FBC 2017 Approval, FL10999.5 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.