metal sales
manufacturing corporation

7/8" Corrugated 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 -23.8 psf	Edge -40.5 psf	Corner -61.3 psf	Field -21.7 psf	Edge -38.4 psf	Corner -57.2 psf	Field -23.8 psf	Edge -28 psf	Corner -28 psf
130C	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -27.7 psf	Edge -47.1 psf	Corner -71.3 psf	Field -25.3 psf	Edge -44.7 psf	Corner -66.4 psf	Field -27.7 psf	Edge -32.6 psf	Corner -32.6 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 -54.2 psf	Corner -81.9 psf	Field -29.2 psf	Edge -51.4 psf	Corner -76.4 psf	Field -32 psf	Edge -37.5 psf	Corner -37.5 psf
150C	24 ga	5.00	5.00	4.75	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -36.5 psf	Edge -61.7 psf	Corner -93.3 psf	Field -33.3 psf	Edge -58.6 psf	Corner -87 psf	Field -36.5 psf	Edge -42.8 psf	Corner -42.8 psf
160C	24 ga	5.00	5.00	4.25	5.00	5.00	4.50	5.00	5.00	5.00
	Thickness	Field -41.3 psf	Edge -69.8 psf	Corner -105.5 psf	Field -37.7 psf	Edge -66.2 psf	Corner -98.3 psf	Field -41.3 psf	Edge -48.4 psf	Corner -48.4 psf
170C	24 ga	5.00	5.00	3.75	5.00	5.00	4.00	5.00	5.00	5.00
	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	5.00	5.00	3.25	5.00	5.00	3.50	5.00	5.00	5.00
	Thickness	Field -51.8 psf	Edge -87.4 psf	Corner -132 psf	Field -47.3 psf	Edge -83 psf	Corner -123 psf	Field -51.8 psf	Edge -60.7 psf	Corner -60.7 psf
190C	24 ga	5.00	4.50	2.75	5.00	4.75	3.00	5.00	5.00	5.00
	Thickness	Field -57.4 psf	Edge -96.9 psf	Corner -146.3 psf	Field -52.5 psf	Edge -92 psf	Corner -136.4 psf	Field -57.4 psf	Edge -67.3 psf	Corner -67.3 psf
200C	24 ga	5.00	4.00	2.25	5.00	4.25	2.75	5.00	5.00	5.00

Notes:

1. Allowable spacing is based on the system capacity listed in the FBC 2014 Approval, FL10999.1 and determined by linear interpolation of those values. 1/3 increase is not included for wind.

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, Gable roof, Enclosed building, 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.