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 -24.2 psf	Edge -41.1 psf	Corner -62.3 psf	Field -22.1 psf	Edge -39 psf	Corner -58 psf	Field -24.2 psf	Edge -28.4 psf	Corner -28.4 psf
120D	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -28.5 psf	Edge -48.4 psf	Corner -73.2 psf	Field -26 psf	Edge -45.9 psf	Corner -68.3 psf	Field -28.5 psf	Edge -33.5 psf	Corner -33.5 psf
130D	24 ga	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -33.2 psf	Edge -56.2 psf	Corner -85.1 psf	Field -30.3 psf	Edge -53.4 psf	Corner -79.3 psf	Field -33.2 psf	Edge -39 psf	Corner -39 psf
140D	24 ga	5.00	5.00	4.50	5.00	5.00	5.00	5.00	5.00	5.00
	Thickness	Field -38.2 psf	Edge -64.7 psf	Corner -97.8 psf	Field -34.9 psf	Edge -61.4 psf	Corner -91.1 psf	Field -38.2 psf	Edge -44.8 psf	Corner -44.8 psf
150D	24 ga	5.00	5.00	4.00	5.00	5.00	4.25	5.00	5.00	5.00
	Thickness	Field -43.6 psf	Edge -73.7 psf	Corner -111.3 psf	Field -39.8 psf	Edge -69.9 psf	Corner -103.8 psf	Field -43.6 psf	Edge -51.1 psf	Corner -51.1 psf
160D	24 ga	5.00	5.00	3.50	5.00	5.00	3.75	5.00	5.00	5.00
	Thickness	Field -49.3 psf	Edge -83.3 psf	Corner -125.8 psf	Field -45.1 psf	Edge -79.1 psf	Corner -117.3 psf	Field -49.3 psf	Edge -57.8 psf	Corner -57.8 psf
170D	24 ga	5.00	4.75	3.00	5.00	5.00	3.25	5.00	5.00	5.00
	Thickness	Field -55.4 psf	Edge -93.5 psf	Corner -141.1 psf	Field -50.6 psf	Edge -88.7 psf	Corner -131.6 psf	Field -55.4 psf	Edge -64.9 psf	Corner -64.9 psf
180D	24 ga	5.00	4.25	2.50	5.00	4.25	2.75	5.00	5.00	5.00
	Thickness	Field -61.8 psf	Edge -104.3 psf	Corner -157.3 psf	Field -56.5 psf	Edge -99 psf	Corner -146.7 psf	Field -61.8 psf	Edge -72.4 psf	Corner -72.4 psf
190D	24 ga	N.G.	N.G.	N.G.	5.00	4.00	2.25	5.00	5.00	5.00

Notes:

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

N.G. indicates the panel is not recommended for this application.