metal sales
manufacturing corporation

PBR-Panel on 16 ga Purlins

Roof Fastener Spacing (feet)

120C

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 -20.5 psf	Edge -34.7 psf	Corner -52.5 psf	Field -18.7 psf	Edge -32.9 psf	Corner -48.9 psf	Field -20.5 psf	Edge -24 psf	Corner -24 psf
26 ga	5.00	5.00	3.75	5.00	5.00	4.25	5.00	5.00	5.00

130C

Thickness	Field -24.1 psf	Edge -40.8 psf	Corner -61.7 psf	Field -22 psf	Edge -38.7 psf	Corner -57.5 psf	Field -24.1 psf	Edge -28.3 psf	Corner -28.3 psf
26 ga	5.00	5.00	3.25	5.00	5.00	3.50	5.00	5.00	5.00

140C

Thickness	Field -28 psf	Edge -47.4 psf	Corner -71.6 psf	Field -25.6 psf	Edge -45 psf	Corner -66.7 psf	Field -28 psf	Edge -32.9 psf	Corner -32.9 psf
26 ga	5.00	4.25	2.75	5.00	4.50	3.00	5.00	5.00	5.00

150C

Thickness	Field -32.3 psf	Edge -54.5 psf	Corner -82.2 psf	Field -29.5 psf	Edge -51.7 psf	Corner -76.7 psf	Field -32.3 psf	Edge -37.8 psf	Corner -37.8 psf
26 ga	5.00	3.75	2.50	5.00	4.00	2.50	5.00	5.00	5.00

160C

Thickness	Field -36.8 psf	Edge -62.1 psf	Corner -93.6 psf	Field -33.6 psf	Edge -58.9 psf	Corner -87.3 psf	Field -36.8 psf	Edge -43.1 psf	Corner -43.1 psf
26 ga	5.00	3.25	2.00	5.00	3.50	2.25	5.00	4.75	4.75

170C

Thickness	Field -41.6 psf	Edge -70.1 psf	Corner -105.8 psf	Field -38 psf	Edge -66.6 psf	Corner -98.7 psf	Field -41.6 psf	Edge -48.7 psf	Corner -48.7 psf
26 ga	5.00	2.75	2.00	5.00	3.00	2.00	5.00	4.25	4.25

180C

Thickness	Field -46.7 psf	Edge -78.7 psf	Corner -118.7 psf	Field -42.7 psf	Edge -74.7 psf	Corner -110.7 psf	Field -46.7 psf	Edge -54.7 psf	Corner -54.7 psf
26 ga	4.25	2.50	2.00	4.75	2.75	2.00	4.25	3.75	3.75

190C

Thickness	Field -52.1 psf	Edge -87.7 psf	Corner -132.3 psf	Field -47.6 psf	Edge -83.3 psf	Corner -123.4 psf	Field -52.1 psf	Edge -61 psf	Corner -61 psf
26 ga	4.00	2.25	2.00	4.25	2.50	2.00	4.00	3.25	3.25

Notes:

1. Allowable spacing is based on a Design Pressures listed in the FBC 2017 Approval, FL10999.7 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.