metal sales
manufacturing corporation

5V-Crimp on 7/16" OSB

Roof Fastener Spacing (feet)

120D

Wind Speed (mph) / Exposure Category	Roof Slope: 0.5:12 to 1.47:12				Roof Slope: 1.47:12 to 4.37:12			Roof Slope: 4.37:12 to 6.11:12		
Thickness	zone 1' -22.4 psf	zone 1 -39.3 psf	zone 2 -52 psf	zone 3 -71.1 psf	zone 1,2e -45.7 psf	z 2n,2r,3e -66.8 psf	zone 3r -79.5 psf	zone 1,2e -35.1 psf	z 2n,2r,3e -56.3 psf	zone 3r -79.5 psf
26 ga	3.00	2.25	1.50	1.25	1.75	1.25	1.00	2.50	1.50	1.00

130D

Thickness	zone 1' -26.4 psf	zone 1 -46.2 psf	zone 2 -61.1 psf	zone 3 -83.5 psf	zone 1,2e -53.7 psf	z 2n,2r,3e -78.5 psf	zone 3r -93.4 psf	zone 1,2e -41.3 psf	z 2n,2r,3e -66.1 psf	zone 3r -93.4 psf
26 ga	3.00	1.75	1.25	1.00	1.50	1.00	0.75	2.00	1.25	0.75

140D

Thickness	zone 1' -30.6 psf	zone 1 -53.7 psf	zone 2 -71 psf	zone 3 -96.9 psf	zone 1,2e -62.3 psf	z 2n,2r,3e -91.2 psf	zone 3r -108.4 psf	zone 1,2e -47.9 psf	z 2n,2r,3e -76.7 psf	zone 3r -108.4 psf
26 ga	2.75	1.50	1.25	0.75	1.25	0.75	0.75	1.75	1.00	0.75

150D

Thickness	zone 1' -35.3 psf	zone 1 -61.7 psf	zone 2 -81.6 psf	zone 3 -111.3 psf	zone 1,2e -71.6 psf	z 2n,2r,3e -104.7 psf	zone 3r -124.6 psf	zone 1,2e -55.1 psf	z 2n,2r,3e -88.2 psf	zone 3r -124.6 psf
26 ga	2.50	1.25	1.00	0.75	1.25	0.75	0.50	1.50	1.00	0.50

160D

Thickness	zone 1' -40.2 psf	zone 1 -70.3 psf	zone 2 -92.9 psf	zone 3 -126.7 psf	zone 1,2e -81.6 psf	z 2n,2r,3e -119.2 psf	zone 3r -141.8 psf	zone 1,2e -62.8 psf	z 2n,2r,3e -100.4 psf	zone 3r -141.8 psf
26 ga	2.00	1.25	0.75	0.50	1.00	0.75	0.50	1.25	0.75	0.50

170D

Thickness	zone 1' -45.4 psf	zone 1 -79.4 psf	zone 2 -104.9 psf	zone 3 -143.1 psf	zone 1,2e -92.1 psf	z 2n,2r,3e -134.6 psf	zone 3r -160.1 psf	zone 1,2e -70.9 psf	z 2n,2r,3e -113.4 psf	zone 3r -160.1 psf
26 ga	1.75	1.00	0.75	0.50	0.75	0.50	0.50	1.25	0.75	0.50

180D

Thickness	zone 1' -51 psf	zone 1 -89.1 psf	zone 2 -117.6 psf	zone 3 -160.5 psf	zone 1,2e -103.4 psf	z 2n,2r,3e -151 psf	zone 3r -179.6 psf	zone 1,2e -79.5 psf	z 2n,2r,3e -127.2 psf	zone 3r -179.6 psf
26 ga	1.75	1.00	0.75	0.50	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

190D

Thickness	zone 1' -56.8 psf	zone 1 -99.3 psf	zone 2 -131.1 psf	zone 3 -178.9 psf	zone 1,2e -115.2 psf	z 2n,2r,3e -168.3 psf	zone 3r -200.1 psf	zone 1,2e -88.7 psf	z 2n,2r,3e -141.8 psf	zone 3r -200.1 psf
26 ga	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

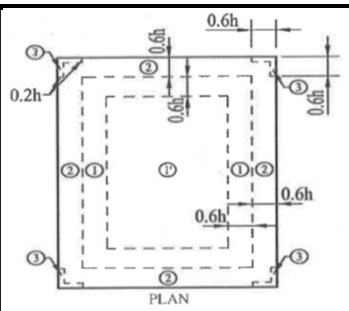
Notes:

1. Allowable spacing is based on a Design Pressures listed in the FBC 2020 Approval, FL14645.4 and determined by linear interpolation of those values. 1/3 increase is not included for wind. The fasteners and fastening patterns are shown in the Approval.

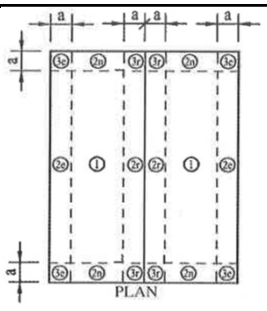
2. Allowable spacing is based on an applied load determined using ASCE 7-16 for the Wind Speeds, Wind Exposure Categories, " Roof Slopes, and Roof Zones shown, assuming 10 square feet of tributary area, Enclosed Gable Roof, 3 or more span case, Topographic Factor of 1, and Mean Roof Height of 25 feet.

3. Allowable spacing is determined for wind suction using the pressures shown, resulting from the combination 0.6DL + 0.6W. Also considered is the inward wind pressure, 20 psf live load and the weight of the panel.

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



Roof Slope: 0.5:12 to 1.47:12



Roof Slope: 1.47:12 to 4.37:12
Roof Slope: 4.37:12 to 6.11:12