metal sales
manufacturing corporation

16" Vertical Seam on 7/16" OSB

Roof Fastener Spacing (feet)

100C

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' -13 psf	zone 1 -22.8 psf	zone 2 -30.2 psf	zone 3 -41.3 psf	zone 1,2e -26.5 psf	z 2n,2r,3e -38.9 psf	zone 3r -46.3 psf	zone 1,2e -20.4 psf	z 2n,2r,3e -32.7 psf	zone 3r -46.3 psf
0.032"	3.00	3.00	3.00	3.00	3.00	3.00	2.67	3.00	3.00	2.67

110C

Thickness	zone 1' -15.8 psf	zone 1 -27.7 psf	zone 2 -36.7 psf	zone 3 -50.1 psf	zone 1,2e -32.2 psf	z 2n,2r,3e -47.1 psf	zone 3r -56.1 psf	zone 1,2e -24.7 psf	z 2n,2r,3e -39.7 psf	zone 3r -56.1 psf
0.032"	3.00	3.00	3.00	2.33	3.00	2.33	2.00	3.00	3.00	2.00

120C

Thickness	zone 1' -18.8 psf	zone 1 -33 psf	zone 2 -43.7 psf	zone 3 -59.7 psf	zone 1,2e -38.4 psf	z 2n,2r,3e -56.1 psf	zone 3r -66.8 psf	zone 1,2e -29.5 psf	z 2n,2r,3e -47.3 psf	zone 3r -66.8 psf
0.032"	3.00	3.00	2.67	1.67	3.00	2.00	1.00	3.00	2.33	1.00

130C

Thickness	zone 1' -22.2 psf	zone 1 -38.8 psf	zone 2 -51.4 psf	zone 3 -70.1 psf	zone 1,2e -45.1 psf	z 2n,2r,3e -66 psf	zone 3r -78.5 psf	zone 1,2e -34.7 psf	z 2n,2r,3e -55.5 psf	zone 3r -78.5 psf
0.032"	3.00	3.00	2.33	1.00	2.67	1.33	1.00*	3.00	2.00	1.00*

140C

Thickness	zone 1' -25.8 psf	zone 1 -45.1 psf	zone 2 -59.6 psf	zone 3 -81.4 psf	zone 1,2e -52.4 psf	z 2n,2r,3e -76.6 psf	zone 3r -91.1 psf	zone 1,2e -40.3 psf	z 2n,2r,3e -64.5 psf	zone 3r -91.1 psf
0.032"	3.00	2.67	1.67	1.00*	2.00	1.00*	1.00*	3.00	1.33	1.00*

150C

Thickness	zone 1' -29.6 psf	zone 1 -51.8 psf	zone 2 -68.5 psf	zone 3 -93.5 psf	zone 1,2e -60.2 psf	z 2n,2r,3e -87.9 psf	zone 3r -104.6 psf	zone 1,2e -46.3 psf	z 2n,2r,3e -74.1 psf	zone 3r -104.6 psf
0.032"	3.00	2.00	1.00	1.00*	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

160C

Thickness	zone 1' -33.8 psf	zone 1 -59 psf	zone 2 -78 psf	zone 3 -106.4 psf	zone 1,2e -68.5 psf	z 2n,2r,3e -100.1 psf	zone 3r -119.1 psf	zone 1,2e -52.7 psf	z 2n,2r,3e -84.3 psf	zone 3r -119.1 psf
0.032"	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

170C

Thickness	zone 1' -38.2 psf	zone 1 -66.7 psf	zone 2 -88.1 psf	zone 3 -120.2 psf	zone 1,2e -77.4 psf	z 2n,2r,3e -113.1 psf	zone 3r -134.5 psf	zone 1,2e -59.6 psf	z 2n,2r,3e -95.2 psf	zone 3r -134.5 psf
0.032"	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.	N.G.

Notes:

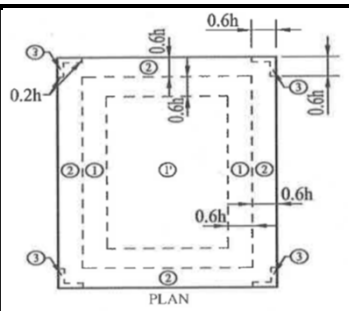
1. Allowable spacing is based on a Design Pressures listed in the FBC 2020 Approval, FL14645.5 and determined by linear interpolation of those values. 1/3 increase is not included for wind. The fasteners and fastening patterns are shown in the Approval.

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.

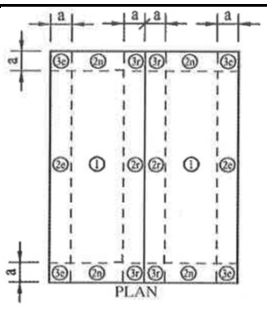
3. Allowable spacing is determined for wind suction using the pressures shown, resulting from the combination 0.6DL + 0.6W. Also considered is the inward wind pressure, 20 psf live load and the weight of the panel.

* - Indicates that SM 7108 Adhesive is required in the panel rib.

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