



# 16" Magna-Loc on 16 ga Purlins

## Roof Fastener Spacing (feet)

Wind Speed (mph)  
Exposure Category

100D

120D

140D

160D

180D

200D

220D

240D

Roof Slope: 0.5:12 to 1.5:12

Thickness	Field	Edge	Corner
24 ga	5.00	5.00	5.00
22 ga	5.00	5.00	5.00

Thickness	Field	Edge	Corner
24 ga	5.00	5.00	5.00
22 ga	5.00	5.00	5.00

Thickness	Field	Edge	Corner
24 ga	5.00	5.00	4.33
22 ga	5.00	5.00	5.00

Thickness	Field	Edge	Corner
24 ga	5.00	5.00	3.33
22 ga	5.00	5.00	4.67

Thickness	Field	Edge	Corner
24 ga	5.00	4.00	2.67
22 ga	5.00	5.00	3.67

Thickness	Field	Edge	Corner
24 ga	5.00	3.00	2.00
22 ga	5.00	4.67	2.33

Thickness	Field	Edge	Corner
24 ga	4.33	2.67	1.00
22 ga	5.00	3.67	1.00

Thickness	Field	Edge	Corner
24 ga	N.G.	N.G.	N.G.
22 ga	N.G.	N.G.	N.G.

Roof Slope: 1.5:12 to 6:12

Field	Edge	Corner
-9.9 psf	-17.8 psf	-26.6 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-14.6 psf	-25.9 psf	-38.7 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-20.1 psf	-35.5 psf	-52.9 psf
5.00	5.00	4.67
5.00	5.00	5.00

Field	Edge	Corner
-26.5 psf	-46.7 psf	-69.3 psf
5.00	5.00	3.67
5.00	5.00	5.00

Field	Edge	Corner
-33.7 psf	-59.2 psf	-88 psf
5.00	4.00	2.67
5.00	5.00	4.00

Field	Edge	Corner
-41.8 psf	-73.3 psf	-108.8 psf
5.00	3.33	2.33
5.00	5.00	3.00

Field	Edge	Corner
-50.7 psf	-88.9 psf	-131.8 psf
5.00	2.67	1.33
5.00	4.00	1.67

Field	Edge	Corner
-60.5 psf	-105.9 psf	-157 psf
N.G.	N.G.	N.G.
N.G.	N.G.	N.G.

Roof Slope: 6:12 to 12:12

Field	Edge	Corner
-10.9 psf	-12.8 psf	-12.8 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-16 psf	-18.8 psf	-18.8 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-22 psf	-25.9 psf	-25.9 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-29 psf	-34 psf	-34 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-36.9 psf	-43.3 psf	-43.3 psf
5.00	5.00	5.00
5.00	5.00	5.00

Field	Edge	Corner
-45.7 psf	-53.6 psf	-53.6 psf
5.00	4.67	4.67
5.00	5.00	5.00

Field	Edge	Corner
-55.5 psf	-65 psf	-65 psf
4.33	3.67	3.67
5.00	5.00	5.00

Field	Edge	Corner
-66.2 psf	-77.5 psf	-77.5 psf
3.67	3.00	3.00
5.00	4.67	4.67

**Notes:**

1. Allowable spacing is based on the system capacity listed in the FBC 2014 Approval, FL10999.5 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.

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

- ① - FIELD
- ② - EDGE
- ③ - CORNER
- A - LEAST OF 10% MINIMUM BUILDING WIDTH OR 40% OF ROOF MEAN HEIGHT BUT NOT LESS THAN 3'-0"

