



# 16" Vertical Seam on 19/32" Plywood

## Roof Fastener Spacing (feet)

Wind Speed (mph)  
Exposure Category  
**120D**

| Roof Slope: 0.5:12 to 1.5:12 |           |           |           |           |
|------------------------------|-----------|-----------|-----------|-----------|
|                              | zone 1'   | zone 1    | zone 2    | zone 3    |
| Thickness                    | -21.2 psf | -37.5 psf | -49.7 psf | -68.1 psf |
| 24 ga                        | 2.00      | 2.00      | 2.00      | 2.00      |

| Roof Slope: 1.5:12 to 6:12 |            |           |
|----------------------------|------------|-----------|
|                            | z 2n,2r,3e | zone 3r   |
| zone 1,2e                  | -43.6 psf  | -76.2 psf |
| z 2n,2r,3e                 | -64 psf    |           |
| zone 3r                    |            | -1.67     |
| 2.00                       | 2.00       | 1.67      |

| Roof Slope: 6:12 to 12:12 |           |           |
|---------------------------|-----------|-----------|
|                           | z 2n,3r   | zone 3e   |
| z 1,2e,2r                 | -39.6 psf | -68.1 psf |
| z 2n,3r                   | -43.6 psf |           |
| zone 3e                   |           | -2.00     |
| 2.00                      | 2.00      | 2.00      |

**130D**

|           | zone 1'   | zone 1    | zone 2    | zone 3  |
|-----------|-----------|-----------|-----------|---------|
| Thickness | -25.1 psf | -44.2 psf | -58.5 psf | -80 psf |
| 24 ga     | 2.00      | 2.00      | 2.00      | 1.67    |

|            | z 2n,2r,3e | zone 3r   |
|------------|------------|-----------|
| zone 1,2e  | -51.3 psf  | -89.6 psf |
| z 2n,2r,3e | -75.2 psf  |           |
| zone 3r    |            | -1.33     |
| 2.00       | 1.67       | 1.33      |

|           | z 2n,3r   | zone 3e |
|-----------|-----------|---------|
| z 1,2e,2r | -46.6 psf | -80 psf |
| z 2n,3r   | -51.3 psf |         |
| zone 3e   |           | -1.67   |
| 2.00      | 2.00      | 1.67    |

**140D**

|           | zone 1'   | zone 1    | zone 2  | zone 3    |
|-----------|-----------|-----------|---------|-----------|
| Thickness | -29.2 psf | -51.3 psf | -68 psf | -92.9 psf |
| 24 ga     | 2.00      | 2.00      | 2.00    | 1.33      |

|            | z 2n,2r,3e | zone 3r  |
|------------|------------|----------|
| zone 1,2e  | -59.7 psf  | -104 psf |
| z 2n,2r,3e | -87.4 psf  |          |
| zone 3r    |            | -1.33    |
| 2.00       | 1.67       | 1.33     |

|           | z 2n,3r   | zone 3e   |
|-----------|-----------|-----------|
| z 1,2e,2r | -54.1 psf | -92.9 psf |
| z 2n,3r   | -59.7 psf |           |
| zone 3e   |           | -1.33     |
| 2.00      | 2.00      | 1.33      |

**150D**

|           | zone 1'   | zone 1    | zone 2    | zone 3     |
|-----------|-----------|-----------|-----------|------------|
| Thickness | -33.6 psf | -59.1 psf | -78.1 psf | -106.8 psf |
| 24 ga     | 2.00      | 2.00      | 1.67      | 1.00       |

|            | z 2n,2r,3e | zone 3r    |
|------------|------------|------------|
| zone 1,2e  | -68.6 psf  | -119.5 psf |
| z 2n,2r,3e | -100.4 psf |            |
| zone 3r    |            | -1.00      |
| 2.00       | 1.33       | 1.00       |

|           | z 2n,3r   | zone 3e    |
|-----------|-----------|------------|
| z 1,2e,2r | -62.2 psf | -106.8 psf |
| z 2n,3r   | -68.6 psf |            |
| zone 3e   |           | -1.00      |
| 2.00      | 2.00      | 1.00       |

**160D**

|           | zone 1'   | zone 1    | zone 2  | zone 3     |
|-----------|-----------|-----------|---------|------------|
| Thickness | -38.3 psf | -67.3 psf | -89 psf | -121.6 psf |
| 24 ga     | 2.00      | 2.00      | 1.33    | 0.67       |

|            | z 2n,2r,3e | zone 3r    |
|------------|------------|------------|
| zone 1,2e  | -78.2 psf  | -136.1 psf |
| z 2n,2r,3e | -114.4 psf |            |
| zone 3r    |            | -0.67      |
| 1.67       | 1.00       | 0.67       |

|           | z 2n,3r   | zone 3e    |
|-----------|-----------|------------|
| z 1,2e,2r | -70.9 psf | -121.6 psf |
| z 2n,3r   | -78.2 psf |            |
| zone 3e   |           | -0.67      |
| 2.00      | 1.67      | 0.67       |

**170D**

|           | zone 1'   | zone 1    | zone 2     | zone 3     |
|-----------|-----------|-----------|------------|------------|
| Thickness | -43.4 psf | -76.1 psf | -100.6 psf | -137.4 psf |
| 24 ga     | N.G.      | N.G.      | N.G.       | N.G.       |

|            | z 2n,2r,3e | zone 3r    |
|------------|------------|------------|
| zone 1,2e  | -88.3 psf  | -153.7 psf |
| z 2n,2r,3e | -129.2 psf |            |
| zone 3r    |            | N.G.       |
| N.G.       | N.G.       | N.G.       |

|           | z 2n,3r   | zone 3e    |
|-----------|-----------|------------|
| z 1,2e,2r | -80.2 psf | -137.4 psf |
| z 2n,3r   | -88.3 psf |            |
| zone 3e   |           | N.G.       |
| N.G.      | N.G.      | N.G.       |

**180D**

|           | zone 1'   | zone 1    | zone 2     | zone 3     |
|-----------|-----------|-----------|------------|------------|
| Thickness | -48.7 psf | -85.4 psf | -112.9 psf | -154.1 psf |
| 24 ga     | N.G.      | N.G.      | N.G.       | N.G.       |

|            | z 2n,2r,3e | zone 3r    |
|------------|------------|------------|
| zone 1,2e  | -99.1 psf  | -172.4 psf |
| z 2n,2r,3e | -144.9 psf |            |
| zone 3r    |            | N.G.       |
| N.G.       | N.G.       | N.G.       |

|           | z 2n,3r   | zone 3e    |
|-----------|-----------|------------|
| z 1,2e,2r | -90 psf   | -154.1 psf |
| z 2n,3r   | -99.1 psf |            |
| zone 3e   |           | N.G.       |
| N.G.      | N.G.      | N.G.       |

**190D**

|           | zone 1'   | zone 1    | zone 2     | zone 3     |
|-----------|-----------|-----------|------------|------------|
| Thickness | -54.4 psf | -95.2 psf | -125.8 psf | -171.8 psf |
| 24 ga     | N.G.      | N.G.      | N.G.       | N.G.       |

|            | z 2n,2r,3e | zone 3r    |
|------------|------------|------------|
| zone 1,2e  | -110.5 psf | -192.2 psf |
| z 2n,2r,3e | -161.6 psf |            |
| zone 3r    |            | N.G.       |
| N.G.       | N.G.       | N.G.       |

|           | z 2n,3r    | zone 3e    |
|-----------|------------|------------|
| z 1,2e,2r | -100.3 psf | -171.8 psf |
| z 2n,3r   | -110.5 psf |            |
| zone 3e   |            | N.G.       |
| N.G.      | N.G.       | N.G.       |

**Notes:**

1. Allowable spacing is based on a Design Pressures listed in the Miami-Dade NOA, 18-1227.01 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 20 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/A

