

Table 1A. Maximum Steel Deck Span (ft) for 1½ in. (38 mm) Deep, 33,000 psi (228 MPa) Yield Stress with a Mechanically Fastened Roof Cover
 (Note: Use this table when the distance between rows of roof cover fasteners is more than one-half the deck span.)

| Max Deck Spans By Wind Rating/Fastener Spacing, Sheet Gauge for 33 ksi, 1½ in. Deep Wide Rib Deck | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| Roof Cover Fastener Row Spacing (ft) | Gauge | Wind Rating [psf] | | | | | | | | | | | | | | | | | | |
| | | 330 | 315 | 300 | 285 | 270 | 255 | 240 | 225 | 210 | 195 | 180 | 165 | 150 | 135 | 120 | 105 | 90 | 75 | 60 |
| 3.5 | 18 | 4.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | 4 | 4 | 4.5 | 4.5 | 4.5 | 5 | 5.5 | 5.5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | 4 | 4 | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 |
| 4 | 18 | 4.5 | 4.5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | 4 | 4.5 | 4.5 | 5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 4.5 | 18 | - | 4 | 4 | 4.5 | 5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | 4 | 4 | 5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 |
| 5 | 18 | - | - | - | 4 | 4 | 4.5 | 5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 | 6 | 6 | 6 | 6 |
| 5.5 | 18 | - | - | - | - | - | - | 4 | 4.5 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5 | 6 | 6 | 6 | 6 |
| 6 | 18 | - | - | - | - | - | - | - | - | 4 | 5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.5 | 6 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.5 | 6 | 6 | 6 |
| 6.5 | 18 | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.5 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.5 | 6 | 6 |
| 7 | 18 | - | - | - | - | - | - | - | - | - | - | - | 4 | 5.5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 6 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 6 | 6 |
| 7.5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5.5 | 6 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5 | 6 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 6 | 6 |

Table 1A. Maximum Steel Deck Span (ft) for 1½ in. (38 mm) Deep, 33,000 psi (228 MPa) Yield Stress with a Mechanically Fastened Roof Cover (continued)
 (Note: Use this table when the distance between rows of roof cover fasteners is more than one-half the deck span.)

| Max Deck Spans By Wind Rating/Fastener Spacing, Sheet Gauge for 33 ksi, 1½ in. Deep Wide Rib Deck | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Roof Cover Fastener Row Spacing (ft) | Gauge | Wind Rating [psf] | | | | | | | | | | | | | | | | | | |
| | | 330 | 315 | 300 | 285 | 270 | 255 | 240 | 225 | 210 | 195 | 180 | 165 | 150 | 135 | 120 | 105 | 90 | 75 | 60 |
| 8 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5.5 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5.5 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 6 |
| 8.5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 6 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 6 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 6 |
| 9 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5.5 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5 |
| 9.5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4 | 4.5 | 6 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5 |
| 10 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 6 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 |
| 10.5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5.5 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 |
| 11 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5 | 6 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5.5 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 |
| 11.5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5.5 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 5 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| 12 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 4.5 | 5 | 6 |
| | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 5 |
| | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| Roof Cover Fastener Row Spacing | Gauge | 330 | 315 | 300 | 285 | 270 | 255 | 240 | 225 | 210 | 195 | 180 | 165 | 150 | 135 | 120 | 105 | 90 | 75 | 60 |