

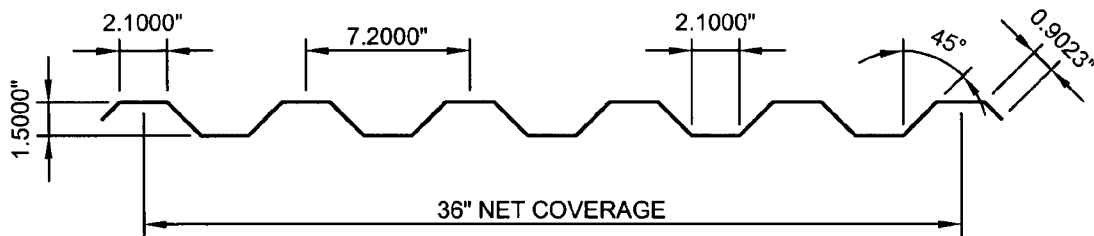
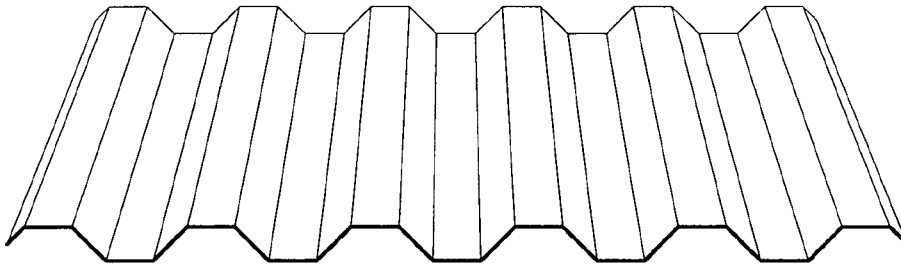
| GRAVITY LOAD, WESTERN RIB |                 |   |       |       |       |       |       |       |      |      |      |      |
|---------------------------|-----------------|---|-------|-------|-------|-------|-------|-------|------|------|------|------|
| span type                 | load type       | Gravity - Total Allowable Load in psf, (span in feet) |       |       |       |       |       |       |      |      |      |      |
|                           |                 | 3   | 3.5   | 4     | 4.5   | 5     | 6     | 7     | 8    | 9    | 10   |      |
| 29 Gage(Fy=80ksi)         | single span     | stress  | 108.4 | 79.6  | 61.0  | 48.2  | 39.0  | 27.1  | 19.9 | 15.2 | 12.0 | 9.8  |
|                           |                 | deflection  | 127.0 | 80.0  | 53.6  | 37.6  | 27.4  | 15.9  | 10.0 | 6.7  | 4.7  | 3.4  |
|                           | 2 spans         | stress  | 92.5  | 67.9  | 52.0  | 41.1  | 33.3  | 23.1  | 17.0 | 13.0 | 10.3 | 8.3  |
|                           |                 | deflection  | 285.2 | 179.6 | 120.3 | 84.5  | 61.6  | 35.6  | 22.4 | 15.0 | 10.6 | 7.7  |
|                           | 3 spans or more | stress  | 107.9 | 79.3  | 60.7  | 48.0  | 38.8  | 27.0  | 19.8 | 15.2 | 12.0 | 9.7  |
|                           |                 | deflection  | 237.2 | 149.3 | 100.1 | 70.3  | 51.2  | 29.6  | 18.7 | 12.5 | 8.8  | 6.4  |
| span type                 | load type       | Gravity - Total Allowable Load in psf, (span in feet) |       |       |       |       |       |       |      |      |      |      |
|                           |                 | 3   | 3.5   | 4     | 4.5   | 5     | 6     | 7     | 8    | 9    | 10   |      |
| 26 Gage(Fy=80ksi)         | single span     | stress  | 197.4 | 145.1 | 111.1 | 87.7  | 71.1  | 49.4  | 36.3 | 27.8 | 21.9 | 17.8 |
|                           |                 | deflection  | 209.4 | 131.9 | 88.3  | 62.0  | 45.2  | 26.2  | 16.5 | 11.0 | 7.8  | 5.7  |
|                           | 2 spans         | stress  | 166.1 | 122.0 | 93.4  | 73.8  | 59.8  | 41.5  | 30.5 | 23.4 | 18.5 | 14.9 |
|                           |                 | deflection  | 476.1 | 299.8 | 200.8 | 141.1 | 102.8 | 59.5  | 37.5 | 25.1 | 17.6 | 12.9 |
|                           | 3 spans or more | stress  | 193.8 | 142.4 | 109.0 | 86.1  | 69.8  | 48.5  | 35.6 | 27.3 | 21.5 | 17.4 |
|                           |                 | deflection  | 395.9 | 249.3 | 167.0 | 117.3 | 85.5  | 49.5  | 31.2 | 20.9 | 14.7 | 10.7 |
| span type                 | load type       | Gravity - Total Allowable Load in psf, (span in feet) |       |       |       |       |       |       |      |      |      |      |
|                           |                 | 3   | 3.5   | 4     | 4.5   | 5     | 6     | 7     | 8    | 9    | 10   |      |
| 24 Gage(Fy=50ksi)         | single span     | stress  | 290.1 | 213.2 | 163.2 | 128.9 | 104.4 | 72.5  | 53.3 | 40.8 | 32.2 | 26.1 |
|                           |                 | deflection  | 291.8 | 183.8 | 123.1 | 86.5  | 63.0  | 36.5  | 23.0 | 15.4 | 10.8 | 7.9  |
|                           | 2 spans         | stress  | 260.8 | 191.6 | 146.7 | 115.9 | 93.9  | 65.2  | 47.9 | 36.7 | 29.0 | 23.5 |
|                           |                 | deflection  | 698.4 | 439.8 | 294.6 | 206.9 | 150.8 | 87.3  | 55.0 | 36.8 | 25.9 | 18.9 |
|                           | 3 spans or more | stress  | 304.4 | 223.6 | 171.2 | 135.3 | 109.6 | 76.1  | 55.9 | 42.8 | 33.8 | 27.4 |
|                           |                 | deflection  | 580.8 | 365.7 | 245.0 | 172.1 | 125.4 | 72.6  | 45.7 | 30.6 | 21.5 | 15.7 |
| span type                 | load type       | Gravity Total Allowable Load in psf, (span in feet)   |       |       |       |       |       |       |      |      |      |      |
|                           |                 | 3   | 3.5   | 4     | 4.5   | 5     | 6     | 7     | 8    | 9    | 10   |      |
| 22 Gage(Fy=50ksi)         | single span     | stress  | 404.7 | 297.3 | 227.6 | 179.9 | 145.7 | 101.2 | 74.3 | 56.9 | 45.0 | 36.4 |
|                           |                 | deflection  | 397.5 | 250.3 | 167.7 | 117.8 | 85.9  | 49.7  | 31.3 | 21.0 | 14.7 | 10.7 |
|                           | 2 spans         | stress  | 365.9 | 268.8 | 205.8 | 162.6 | 131.7 | 91.5  | 67.2 | 51.5 | 40.7 | 32.9 |
|                           |                 | deflection  | 957.5 | 603.0 | 403.9 | 283.7 | 206.8 | 119.7 | 75.4 | 50.5 | 35.5 | 25.9 |
|                           | 3 spans or more | stress  | 427.0 | 313.7 | 240.2 | 189.8 | 153.7 | 106.8 | 78.4 | 60.0 | 47.4 | 38.4 |
|                           |                 | deflection  | 796.3 | 501.4 | 335.9 | 235.9 | 172.0 | 99.5  | 62.7 | 42.0 | 29.5 | 21.5 |

| Section Properties |       |       | Top in Compression    |                       |          | Bott. in Compression  |                       |          |
|--------------------|-------|-------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|
| gauge              | fy    | wt    | ix                    | sx                    | ma       | ix                    | sx                    | ma       |
|                    | (ksi) | (psf) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) |
| 29                 | 80    | 0.62  | 0.0399                | 0.0407                | 1.4635   | 0.0372                | 0.0847                | 1.2481   |
| 26                 | 80    | 0.86  | 0.0658                | 0.0743                | 2.6653   | 0.0621                | 0.0624                | 2.2419   |
| 24                 | 50    | 1.10  | 0.0917                | 0.1090                | 3.9168   | 0.0911                | 0.0979                | 3.5208   |
| 22                 | 50    | 1.40  | 0.1249                | 0.1521                | 5.4630   | 0.1249                | 0.1375                | 4.9392   |
| max. deflection    |       | 180   |                       |                       |          |                       |                       |          |

| GRAVITY LOAD, WESTERN RIB |                 |            |   |       |       |       |       |       |      |      |      |      |
|---------------------------|-----------------|------------|---|-------|-------|-------|-------|-------|------|------|------|------|
|                           | span type       | load type  | Gravity - Total Allowable Load in psf, (span in feet) |       |       |       |       |       |      |      |      |      |
|                           |                 |            | 3   | 3.5   | 4     | 4.5   | 5     | 6     | 7    | 8    | 9    | 10   |
| 20 Gage(Fy=40ksi)         | single span     | stress     | 366.5   | 269.2 | 206.1 | 162.9 | 131.9 | 91.6  | 67.3 | 51.5 | 40.7 | 33.0 |
|                           |                 | deflection | 514.0   | 323.7 | 216.8 | 152.3 | 111.0 | 64.2  | 40.5 | 27.1 | 19.0 | 13.9 |
|                           | 2 spans         | stress     | 328.3   | 241.2 | 184.7 | 145.9 | 118.2 | 82.1  | 60.3 | 46.2 | 36.5 | 29.5 |
|                           |                 | deflection | 1238.1  | 779.7 | 522.3 | 366.8 | 267.4 | 154.8 | 97.5 | 65.3 | 45.9 | 33.4 |
|                           | 3 spans or more | stress     | 383.2   | 281.5 | 215.5 | 170.3 | 138.0 | 95.8  | 70.4 | 53.9 | 42.6 | 34.5 |
|                           |                 | deflection | 1029.6  | 648.4 | 434.4 | 305.1 | 222.4 | 128.7 | 81.0 | 54.3 | 38.1 | 27.8 |

| Section Properties |       |       | Top in Compression    |                       |          | Bott. in Compression  |                       |          |
|--------------------|-------|-------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|
| gauge              | fy    | wt    | ix                    | sx                    | ma       | ix                    | sx                    | ma       |
|                    | (ksi) | (psf) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) |
| 20                 | 40    | 1.65  | 0.1615                | 0.2065                | 4.9472   | 0.1615                | 0.1850                | 4.4324   |
|                    |       |       |                       |                       |          |                       |                       |          |
|                    |       |       |                       |                       |          |                       |                       |          |
| max. deflection    |       | 180   |                       |                       |          |                       |                       |          |

# WESTERN RIB

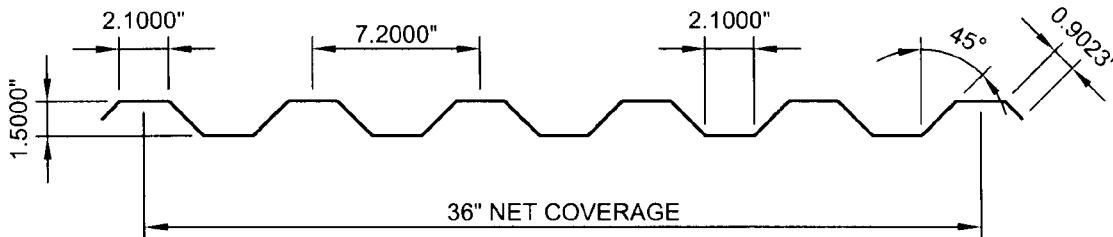
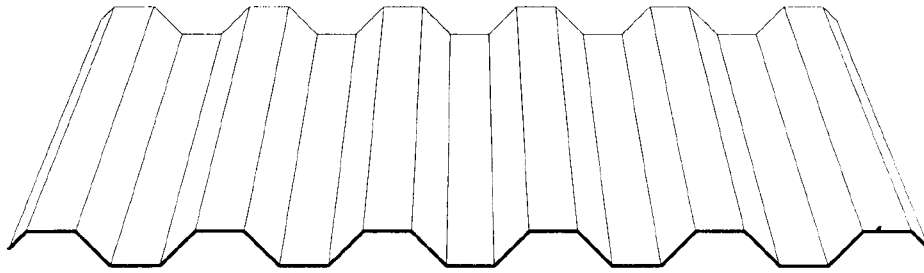


| Section Properties |       |       | Top in Compression    |                       |          | Bott. in Compression  |                       |          |
|--------------------|-------|-------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|
| gauge              | fy    | wt    | ix                    | sx                    | ma       | ix                    | sx                    | ma       |
|                    | (ksi) | (psf) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) |
| 29                 | 80    | 0.62  | 0.0399                | 0.0407                | 1.4635   | 0.0372                | 0.0847                | 1.2481   |
| 26                 | 80    | 0.86  | 0.0658                | 0.0743                | 2.6653   | 0.0621                | 0.0624                | 2.2419   |
| 24                 | 50    | 1.10  | 0.0917                | 0.1090                | 3.9168   | 0.0911                | 0.0979                | 3.5208   |
| 22                 | 50    | 1.40  | 0.1249                | 0.1521                | 5.4630   | 0.1249                | 0.1375                | 4.9392   |

**NOTES:**

1. Effective section properties are calculated in accordance with the 2004 North American Specifications for the design of Cold-Formed Steel Structural Members.
2. Ix is for the determination of deflection.
3. Sx and Ma are for the stress determination.

# WESTERN RIB



| Section Properties |       |       | Top in Compression    |                       |          | Bott. in Compression  |                       |          |
|--------------------|-------|-------|-----------------------|-----------------------|----------|-----------------------|-----------------------|----------|
| gauge              | fy    | wt    | ix                    | sx                    | ma       | ix                    | sx                    | ma       |
|                    | (ksi) | (psf) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) | (in <sup>4</sup> /ft) | (in <sup>3</sup> /ft) | (kip-in) |
| 20                 | 40    | 1.65  | 0.1615                | 0.2065                | 4.9472   | 0.1615                | 0.1850                | 4.4324   |

**NOTES:**

1. Effective section properties are calculated in accordance with the 2004 North American Specifications for the design of Cold-Formed Steel Structural Members.
2. Ix is for the determination of deflection.
3. Sx and Ma are for the stress determination.