

4566 RIDGE DRIVE NE
SALEM, OR 97301

| SECTION PROPERTIES | | | | | | | | | | | ALLOWABLE UNIFORM LOADS, psf For various fastener spacings (i.e. span values) | | | | | | | | | | | | | | |
|--------------------|-----------|-----------|------------|----------------------------------|---------------------------------------|----------------------------------|----------------------------------|---------------------------------------|----------------------------------|-------------|--|-------|-------|-------|-------|--------------|------|-------|-------|-------|-------|-------|-------|------|------|
| Ga. | Width in. | Yield ksi | Weight psf | Top in Compression | | | Bottom in Compression | | | Inward Load | | | | | | Outward Load | | | | | | | | | |
| | | | | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' |
| 26 | 36 | 80 | 0.96 | 0.0380 | 0.0380 | 0.0623 | 0.0370 | 0.0370 | 0.0650 | 398.7 | 276.9 | 203.4 | 155.8 | 123.1 | 99.7 | 30.8 | 24.9 | 416.0 | 288.9 | 212.2 | 162.5 | 128.4 | 104.0 | 32.1 | 26.0 |
| 24 | 36 | 50 | 1.18 | 0.0570 | 0.0570 | 0.0963 | 0.0570 | 0.0570 | 0.1013 | 385.2 | 267.5 | 196.5 | 150.5 | 118.9 | 96.3 | 29.7 | 24.1 | 405.2 | 281.4 | 206.7 | 158.3 | 125.1 | 101.3 | 31.3 | 25.3 |
| 22 | 36 | 50 | 1.46 | 0.0700 | 0.0700 | 0.1220 | 0.0700 | 0.0700 | 0.1290 | 488.0 | 338.9 | 249.0 | 190.6 | 150.6 | 122.0 | 37.7 | 30.5 | 516.0 | 358.3 | 263.8 | 201.6 | 159.3 | 129.0 | 39.8 | 32.3 |
| 20 | 36 | 33 | 1.76 | 0.0930 | 0.0930 | 0.1690 | 0.0930 | 0.0930 | 0.1760 | 405.6 | 281.7 | 206.9 | 158.4 | 125.2 | 101.4 | 31.3 | 25.4 | 422.4 | 293.3 | 215.5 | 165.0 | 130.4 | 105.6 | 32.6 | 26.4 |
| 18 | 36 | 33 | 2.05 | 0.1270 | 0.1260 | 0.2210 | 0.1230 | 0.1240 | 0.2280 | 530.4 | 368.3 | 270.6 | 207.2 | 163.7 | 132.6 | 40.9 | 33.2 | 547.2 | 380.0 | 279.2 | 213.8 | 168.9 | 136.8 | 42.2 | 34.2 |

- Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection is not considered.
- Allowable loads do not include a 1/3 stress increase for wind.

| SECTION PROPERTIES | | | | | | | | | | | ALLOWABLE UNIFORM LOADS, psf For various fastener spacings (i.e. span values) | | | | | | | | | | | | | | |
|--------------------|-----------|-----------|------------|----------------------------------|---------------------------------------|----------------------------------|----------------------------------|---------------------------------------|----------------------------------|-------------|--|-------|-------|-------|-------|--------------|------|-------|-------|-------|-------|-------|-------|------|------|
| Ga. | Width in. | Yield ksi | Weight psf | Top in Compression | | | Bottom in Compression | | | Inward Load | | | | | | Outward Load | | | | | | | | | |
| | | | | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' |
| 26 | 36 | 80 | 0.96 | 0.0380 | 0.0380 | 0.0623 | 0.0370 | 0.0370 | 0.0650 | 398.7 | 276.9 | 203.4 | 155.8 | 109.8 | 80.1 | 13.7 | 10.0 | 416.0 | 288.9 | 212.2 | 152.2 | 106.9 | 77.9 | 13.4 | 9.7 |
| 24 | 36 | 50 | 1.18 | 0.0570 | 0.0570 | 0.0963 | 0.0570 | 0.0570 | 0.1013 | 385.2 | 267.5 | 196.5 | 150.5 | 118.9 | 96.3 | 20.6 | 15.0 | 405.2 | 281.4 | 206.7 | 158.3 | 125.1 | 101.3 | 20.6 | 15.0 |
| 22 | 36 | 50 | 1.46 | 0.0700 | 0.0700 | 0.1220 | 0.0700 | 0.0700 | 0.1290 | 488.0 | 338.9 | 249.0 | 190.6 | 150.6 | 122.0 | 25.3 | 18.4 | 516.0 | 358.3 | 263.3 | 201.6 | 159.3 | 129.0 | 25.3 | 18.4 |
| 20 | 36 | 33 | 1.76 | 0.0930 | 0.0930 | 0.1690 | 0.0930 | 0.0930 | 0.1760 | 405.6 | 281.7 | 206.9 | 158.4 | 125.2 | 101.4 | 31.3 | 24.5 | 422.4 | 293.3 | 215.5 | 165.0 | 130.4 | 105.6 | 32.6 | 24.5 |
| 18 | 36 | 33 | 2.05 | 0.1270 | 0.1260 | 0.2210 | 0.1230 | 0.1240 | 0.2280 | 530.4 | 368.3 | 270.6 | 207.2 | 163.7 | 132.6 | 40.9 | 33.2 | 547.2 | 380.0 | 279.2 | 213.8 | 168.9 | 136.8 | 42.2 | 32.7 |

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- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of L/120 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

| SECTION PROPERTIES | | | | | | | | | | | ALLOWABLE UNIFORM LOADS, psf For various fastener spacings (i.e. span values) | | | | | | | | | | | | | | |
|--------------------|-----------|-----------|------------|----------------------------------|---------------------------------------|----------------------------------|----------------------------------|---------------------------------------|----------------------------------|-------------|--|-------|-------|-------|-------|--------------|------|-------|-------|-------|-------|-------|-------|------|------|
| Ga. | Width in. | Yield ksi | Weight psf | Top in Compression | | | Bottom in Compression | | | Inward Load | | | | | | Outward Load | | | | | | | | | |
| | | | | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | I_{xx} in ⁴ /ft. | $I_{xx(eff)}$ in ⁴ /ft. | S_{xx} in ³ /ft. | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' | 9' | 10' |
| 26 | 36 | 80 | 0.96 | 0.0380 | 0.0380 | 0.0623 | 0.0370 | 0.0370 | 0.0650 | 398.7 | 247.1 | 155.6 | 104.2 | 73.2 | 53.4 | 9.2 | 6.7 | 415.7 | 240.6 | 151.5 | 101.5 | 71.3 | 52.0 | 8.9 | 6.5 |
| 24 | 36 | 50 | 1.18 | 0.0570 | 0.0570 | 0.0963 | 0.0570 | 0.0570 | 0.1013 | 385.2 | 267.5 | 196.5 | 150.5 | 109.8 | 80.1 | 13.7 | 10.0 | 405.2 | 281.4 | 206.7 | 156.3 | 109.8 | 80.1 | 13.7 | 10.0 |
| 22 | 36 | 50 | 1.46 | 0.0700 | 0.0700 | 0.1220 | 0.0700 | 0.0700 | 0.1290 | 488.0 | 338.9 | 249.0 | 190.6 | 134.9 | 98.3 | 16.9 | 12.3 | 516.0 | 358.3 | 263.3 | 192.0 | 134.9 | 98.3 | 16.9 | 12.3 |
| 20 | 36 | 33 | 1.76 | 0.0930 | 0.0930 | 0.1690 | 0.0930 | 0.0930 | 0.1760 | 405.6 | 281.7 | 206.9 | 158.4 | 125.2 | 101.4 | 22.4 | 16.3 | 422.4 | 293.3 | 215.5 | 165.0 | 130.4 | 105.6 | 22.4 | 16.3 |
| 18 | 36 | 33 | 2.05 | 0.1270 | 0.1260 | 0.2210 | 0.1230 | 0.1240 | 0.2280 | 530.4 | 368.3 | 270.6 | 207.2 | 163.7 | 132.6 | 30.3 | 22.1 | 547.2 | 380.0 | 279.2 | 213.8 | 168.9 | 136.8 | 29.9 | 21.8 |

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- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

