
# flat bars

Flat Bars may be considered the most basic of steel structures, ranging from a wide variety of dimensions.

Its applications range from construction to machinery fabrication.

# FLAT BARS

| Section Size Thickness | width | Unit Weight M | Section Area A |
|---|---|---|---|
| mm | mm | kg/m | $cm^2$ |
| **3.0** | 12 | 0.283 | 0.36 |
| **3.0** | 16 | 0.377 | 0.48 |
| **3.0** | 19 | 0.447 | 0.57 |
| **3.0** | 25 | 0.589 | 0.75 |
| **3.0** | 32 | 0.754 | 0.96 |
| **3.0** | 38 | 0.895 | 0.14 |
| **3.0** | 50 | 1.18 | 1.50 |
| **4.5** | 12 | 0.424 | 0.54 |
| **4.5** | 16 | 0.565 | 0.72 |
| **4.5** | 19 | 0.67 | 0.85 |
| **4.5** | 25 | 0.88 | 1.125 |
| **4.5** | 32 | 1.13 | 1.44 |
| **4.5** | 38 | 1.34 | 1.71 |
| **4.5** | 44 | 1.55 | 1.98 |
| **4.5** | 50 | 1.77 | 2.25 |
| **4.5** | 65 | 2.30 | 2.93 |
| **4.5** | 75 | 2.60 | 3.37 |
| **4.5** | 100 | 3.55 | 4.50 |
| **5.0** | 25 | 0.98 | 1.25 |
| **5.0** | 50 | 1.96 | 2.50 |
| **6.0** | 12 | 0.57 | 0.72 |
| **6.0** | 16 | 0.754 | 0.96 |
| **6.0** | 19 | 0.895 | 1.14 |
| **6.0** | 25 | 1.13 | 1.50 |
| **6.0** | 32 | 1.51 | 1.92 |
| **6.0** | 38 | 1.79 | 2.28 |
| **6.0** | 44 | 2.07 | 2.64 |
| **6.0** | 50 | 2.36 | 3.00 |
| **6.0** | 65 | 3.06 | 3.90 |
| **6.0** | 75 | 3.53 | 4.50 |
| **6.0** | 90 | 4.24 | 5.40 |
| **6.0** | 100 | 4.71 | 6.00 |
| **6.0** | 125 | 5.89 | 7.50 |
| **6.0** | 150 | 7.05 | 9.00 |
| **6.0** | 200 | 9.42 | 12.00 |
| **6.0** | 250 | 11.78 | 15.00 |
| **6.0** | 300 | 14.13 | 18.00 |
| **8.0** | 25 | 1.57 | 2.00 |
| **8.0** | 32 | 2.01 | 2.56 |
| **8.0** | 38 | 2.39 | 3.04 |
| **8.0** | 44 | 2.76 | 3.52 |
| **8.0** | 50 | 3.14 | 4.00 |
| **8.0** | 65 | 5.65 | 5.20 |
| **8.0** | 75 | 4.71 | 6.00 |
| **8.0** | 90 | 5.65 | 7.20 |
| **8.0** | 100 | 6.28 | 8.00 |
| **8.0** | 125 | 7.85 | 10.00 |

| Section Size Thickness | width | Unit Weight M | Section area A |
|---|---|---|---|
| mm | mm | kg/m | $cm^2$ |
| **9.0** | 19 | 1.34 | 1.71 |
| **9.0** | 25 | 1.77 | 2.25 |
| **9.0** | 32 | 2.26 | 2.88 |
| **9.0** | 35 | 2.47 | 3.15 |
| **9.0** | 38 | 2.68 | 3.42 |
| **9.0** | 44 | 3.11 | 3.96 |
| **9.0** | 50 | 3.53 | 4.50 |
| **9.0** | 65 | 4.59 | 5.85 |
| **9.0** | 75 | 5.3 | 6.75 |
| **9.0** | 90 | 6.36 | 8.10 |
| **9.0** | 100 | 7.06 | 9.999 |
| **9.0** | 125 | 8.83 | 11.25 |
| **9.0** | 150 | 10.6 | 13.50 |
| **9.0** | 180 | 12.7 | 16.20 |
| **9.0** | 200 | 14.1 | 18.00 |
| **9.0** | 230 | 16.2 | 20.70 |
| **9.0** | 250 | 17.7 | 22.50 |
| **9.0** | 300 | 21.2 | 27.00 |
| **12.0** | 25 | 2.36 | 3.00 |
| **12.0** | 32 | 3.01 | 3.84 |
| **12.0** | 35 | 3.31 | 4.20 |
| **12.0** | 38 | 3.58 | 3.31 |
| **12.0** | 44 | 4.14 | 5.28 |
| **12.0** | 50 | 4.71 | 6.00 |
| **12.0** | 65 | 6.12 | 7.80 |
| **12.0** | 75 | 7.06 | 9.00 |
| **12.0** | 90 | 8.48 | 10.80 |
| **12.0** | 100 | 9.42 | 12.00 |
| **12.0** | 125 | 11.8 | 15.00 |
| **12.0** | 150 | 14.1 | 18.00 |
| **12.0** | 180 | 17.0 | 21.60 |
| **12.0** | 200 | 18.8 | 24.00 |
| **12.0** | 230 | 21.7 | 27.60 |
| **12.0** | 250 | 23.6 | 30.00 |
| **12.0** | 280 | 26.4 | 33.60 |
| **12.0** | 300 | 28.3 | 36.00 |
| **16.0** | 25 | 3.14 | 4.00 |
| **16.0** | 32 | 4.02 | 5.12 |
| **16.0** | 38 | 4.77 | 6.08 |
| **16.0** | 44 | 5.53 | 7.04 |
| **16.0** | 50 | 6.28 | 8.00 |
| **16.0** | 65 | 8.16 | 10.40 |
| **16.0** | 75 | 9.42 | 12.00 |
| **16.0** | 90 | 11.3 | 14.40 |
| **16.0** | 100 | 12.6 | 16.00 |
| **16.0** | 125 | 15.7 | 20.00 |
| **16.0** | 150 | 18.8 | 24.00 |

# FLAT BARS

| Section Size Thickness | Section Size width | Unit Weight M | Section Area A |
|---|---|---|---|
| mm | mm | kg/m | $cm^2$ |
| **16.0** | 230 | 28.9 | 36.80 |
| **16.0** | 250 | 31.4 | 50.00 |
| **16.0** | 280 | 35.2 | 44.80 |
| **16.0** | 300 | 37.7 | 48.00 |
| **19.0** | 38 | 5.67 | 7.22 |
| **19.0** | 44 | 6.56 | 8.36 |
| **19.0** | 50 | 7.46 | 9.50 |
| **19.0** | 65 | 9.69 | 12.35 |
| **19.0** | 75 | 11.2 | 14.25 |
| **19.0** | 90 | 13.4 | 17.10 |
| **19.0** | 100 | 14.9 | 19.00 |
| **19.0** | 125 | 18.6 | 23.75 |
| **19.0** | 150 | 22.4 | 28.50 |
| **19.0** | 180 | 26.8 | 34.20 |
| **19.0** | 200 | 29.8 | 38.00 |
| **19.0** | 230 | 34.3 | 43.70 |
| **19.0** | 250 | 37.3 | 47.50 |
| **19.0** | 280 | 41.8 | 53.20 |
| **19.0** | 300 | 44.7 | 57.00 |
| **22.0** | 50 | 8.64 | 11.00 |
| **22.0** | 65 | 11.2 | 14.30 |
| **22.0** | 75 | 13.0 | 16.50 |
| **22.0** | 90 | 15.5 | 19.80 |
| **22.0** | 100 | 17.3 | 22.00 |
| **22.0** | 125 | 21.6 | 27.50 |
| **22.0** | 150 | 25.9 | 33.00 |
| **22.0** | 180 | 31.1 | 39.60 |
| **22.0** | 200 | 34.5 | 44.00 |
| **22.0** | 230 | 39.7 | 50.60 |
| **22.0** | 250 | 43.2 | 55.00 |
| **22.0** | 280 | 48.4 | 61.00 |
| **22.0** | 300 | 51.8 | 66.00 |
| **25.0** | 50 | 9.81 | 12.50 |
| **25.0** | 65 | 12.8 | 16.25 |
| **25.0** | 75 | 14.7 | 18.75 |

| Section Size Thickness | Section Size width | Unit Weight M | Section area A |
|---|---|---|---|
| mm | mm | kg/m | $cm^2$ |
| **25.0** | 125 | 24.5 | 31.25 |
| **25.0** | 150 | 29.4 | 37.50 |
| **25.0** | 180 | 35.3 | 45.00 |
| **25.0** | 200 | 39.2 | 50.00 |
| **25.0** | 230 | 45.1 | 57.50 |
| **25.0** | 250 | 49.1 | 62.50 |
| **25.0** | 280 | 55.0 | 70.00 |
| **25.0** | 300 | 58.9 | 75.00 |
| **28.0** | 100 | 22.0 | 28.00 |
| **28.0** | 125 | 27.5 | 35.00 |
| **28.0** | 150 | 33.0 | 42.00 |
| **28.0** | 180 | 39.6 | 50.40 |
| **28.0** | 200 | 44.0 | 56.00 |
| **28.0** | 230 | 50.6 | 64.40 |
| **28.0** | 250 | 55.0 | 70.00 |
| **28.0** | 280 | 61.5 | 78.40 |
| **28.0** | 300 | 65.9 | 84.00 |
| **32.0** | 100 | 25.1 | 32.00 |
| **32.0** | 125 | 31.4 | 40.00 |
| **32.0** | 150 | 37.7 | 48.00 |
| **32.0** | 180 | 45.2 | 57.60 |
| **32.0** | 200 | 50.2 | 64.00 |
| **32.0** | 230 | 57.8 | 73.60 |
| **32.0** | 250 | 62.8 | 80.00 |
| **32.0** | 280 | 70.3 | 89.60 |
| **32.0** | 300 | 75.4 | 96.00 |
| **36.0** | 100 | 28.3 | 36.00 |
| **36.0** | 125 | 35.3 | 45.00 |
| **36.0** | 150 | 42.4 | 54.00 |
| **36.0** | 180 | 50.9 | 64.80 |
| **36.0** | 200 | 56.5 | 72.00 |
| **36.0** | 230 | 65.0 | 82.80 |
| **36.0** | 250 | 70.6 | 90.00 |
| **36.0** | 280 | 79.1 | 100.80 |
| **36.0** | 300 | 84.8 | 108.00 |

**Spec: ASTM A36, BS 4360 GR 43A, JIS G3101 SS400.....**