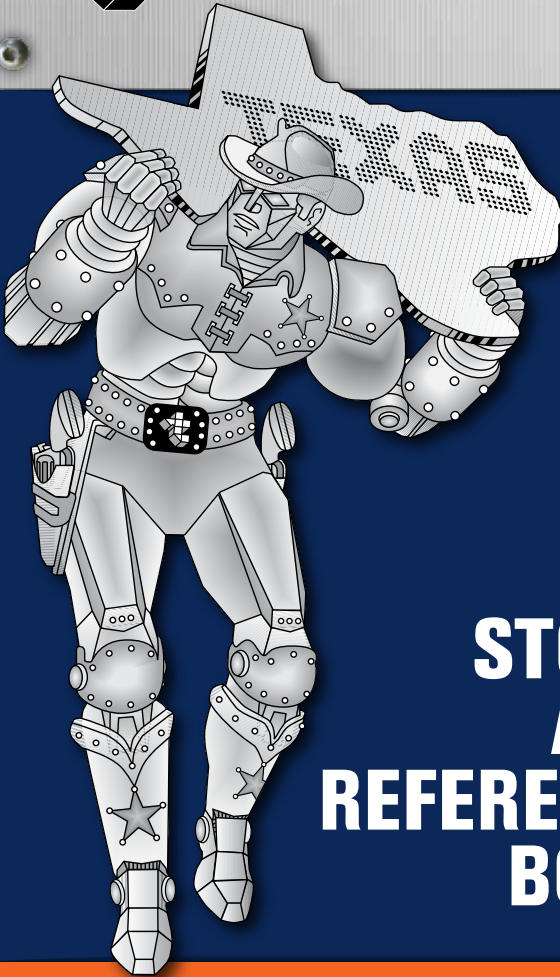




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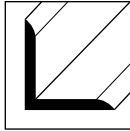
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ANGLE



| Angle | | |
|----------------------|--------------|--------------|
| Size | Wgt. Per Ft. | Wgt. Per 20' |
| 1/2 x 1/2 x 1/8 | 0.38 | 7.60 |
| 3/4 x 3/4 x 1/8 | 0.59 | 11.80 |
| 1 x 1 x 1/8 | 0.80 | 16.00 |
| 1 x 1 x 3/16 | 1.16 | 23.20 |
| 1 x 1 x 1/4 | 1.49 | 29.80 |
| 1 1/4 x 1 1/4 x 1/8 | 1.01 | 20.20 |
| 1 1/4 x 1 1/4 x 3/16 | 1.48 | 29.60 |
| 1 1/4 x 1 1/4 x 1/4 | 1.92 | 38.40 |
| 1 1/2 x 1 1/2 x 1/8 | 1.23 | 24.60 |
| 1 1/2 x 1 1/2 x 3/16 | 1.80 | 36.00 |
| 1 1/2 x 1 1/2 x 1/4 | 2.34 | 46.80 |
| 1 3/4 x 1 3/4 x 1/8 | 1.44 | 28.80 |
| 1 3/4 x 1 3/4 x 3/16 | 2.12 | 42.40 |
| 1 3/4 x 1 3/4 x 1/4 | 2.77 | 55.40 |
| 2 x 1 1/2 x 1/8 | 1.44 | 28.80 |
| 2 x 1 1/2 x 3/16 | 2.12 | 42.40 |
| 2 x 1 1/2 x 1/4 | 2.77 | 55.40 |
| 2 x 2 x 1/8 | 1.65 | 33.00 |
| 2 x 2 x 3/16 | 2.44 | 48.80 |
| 2 x 2 x 1/4 | 3.19 | 63.80 |

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Angle (cont.)

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|----------------------|---------------------|---------------------|
| 2 x 2 x 5/16 | 3.92 | 78.40 |
| 2 x 2 x 3/8 | 4.70 | 94.00 |
| 2 1/2 x 1 1/2 x 3/16 | 2.44 | 48.80 |
| 2 1/2 x 1 1/2 x 1/4 | 3.19 | 63.80 |
| 2 1/2 x 1 1/2 x 5/16 | 3.92 | 78.40 |
| 2 1/2 x 2 x 3/16 | 2.75 | 55.00 |
| 2 1/2 x 2 x 1/4 | 3.62 | 72.40 |
| 2 1/2 x 2 x 5/16 | 4.50 | 90.00 |
| 2 1/2 x 2 x 3/8 | 5.30 | 106.00 |
| 2 1/2 x 2 1/2 x 3/16 | 3.07 | 61.40 |
| 2 1/2 x 2 1/2 x 1/4 | 4.10 | 82.00 |
| 2 1/2 x 2 1/2 x 5/16 | 5.00 | 100.00 |
| 2 1/2 x 2 1/2 x 3/8 | 5.90 | 118.00 |
| 2 1/2 x 2 1/2 x 1/2 | 7.70 | 154.00 |
| 3 x 2 x 3/16 | 3.07 | 61.40 |
| 3 x 2 x 1/4 | 4.10 | 82.00 |
| 3 x 2 x 5/16 | 5.00 | 100.00 |
| 3 x 2 x 3/8 | 5.90 | 118.00 |
| 3 x 2 x 1/2 | 7.70 | 154.00 |
| 3 x 2 1/2 x 3/16 | 3.39 | 67.80 |
| 3 x 2 1/2 x 1/4 | 4.50 | 90.00 |
| 3 x 2 1/2 x 5/16 | 5.60 | 112.00 |
| 3 x 2 1/2 x 3/8 | 6.60 | 132.00 |
| 3 x 2 1/2 x 1/2 | 8.50 | 170.00 |
| 3 x 3 x 3/16 | 3.70 | 74.00 |
| 3 x 3 x 1/4 | 4.90 | 98.00 |

Continued on next page

Angle (cont.)

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|----------------------|---------------------|---------------------|
| 3 x 3 x 3/8 | 7.20 | 144.00 |
| 3 x 3 x 1/2 | 9.40 | 188.00 |
| 3 1/2 x 3 x 1/4 | 5.40 | 108.00 |
| 3 1/2 x 3 x 5/16 | 6.60 | 132.00 |
| 3 1/2 x 3 x 3/8 | 7.90 | 158.00 |
| 3 1/2 x 3 x 1/2 | 10.20 | 204.00 |
| 3 1/2 x 3 1/2 x 1/4 | 5.80 | 116.00 |
| 3 1/2 x 3 1/2 x 5/16 | 7.20 | 144.00 |
| 3 1/2 x 3 1/2 x 3/8 | 8.50 | 170.00 |
| 3 1/2 x 3 1/2 x 1/2 | 11.10 | 222.00 |
| 4 x 3 x 1/4 | 5.80 | 116.00 |
| 4 x 3 x 5/16 | 7.20 | 144.00 |
| 4 x 3 x 3/8 | 8.50 | 170.00 |
| 4 x 3 x 1/2 | 11.10 | 222.00 |
| 4 x 3 1/2 x 1/4 | 6.20 | 124.00 |
| 4 x 3 1/2 x 5/16 | 7.70 | 154.00 |
| 4 x 3 1/2 x 3/8 | 9.10 | 182.00 |
| 4 x 3 1/2 x 1/2 | 11.90 | 238.00 |
| 4 x 4 x 1/4 | 6.60 | 132.00 |
| 4 x 4 x 5/16 | 8.20 | 164.00 |
| 4 x 4 x 3/8 | 9.80 | 196.00 |
| 4 x 4 x 1/2 | 12.80 | 256.00 |
| 4 x 4 x 5/8 | 15.70 | 314.00 |
| 4 x 4 x 3/4 | 18.50 | 370.00 |
| 5 x 3 x 1/4 | 6.60 | 132.00 |
| 5 x 3 x 5/16 | 8.20 | 164.00 |

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Angle (cont.)

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|------------------|---------------------|---------------------|
| 5 x 3 x 3/8 | 9.80 | 196.00 |
| 5 x 3 x 1/2 | 12.80 | 256.00 |
| 5 x 3 x 5/8 | 15.70 | 314.00 |
| 5 x 3 x 3/4 | 18.50 | 370.00 |
| 5 x 3 1/2 x 1/4 | 7.00 | 140.00 |
| 5 x 3 1/2 x 5/16 | 8.70 | 174.00 |
| 5 x 3 1/2 x 3/8 | 10.40 | 208.00 |
| 5 x 3 1/2 x 1/2 | 13.60 | 272.00 |
| 5 x 3 1/2 x 5/8 | 16.80 | 336.00 |
| 5 x 3 1/2 x 3/4 | 19.80 | 396.00 |
| 5 x 5 x 5/16 | 10.30 | 206.00 |
| 5 x 5 x 3/8 | 12.30 | 246.00 |
| 5 x 5 x 1/2 | 16.20 | 324.00 |
| 5 x 5 x 5/8 | 20.00 | 400.00 |
| 5 x 5 x 3/4 | 23.60 | 472.00 |
| 5 x 5 x 7/8 | 27.20 | 544.00 |
| 6 x 3 1/2 x 5/16 | 9.80 | 196.00 |
| 6 x 3 1/2 x 3/8 | 11.70 | 234.00 |
| 6 x 3 1/2 x 1/2 | 15.30 | 306.00 |
| 6 x 3 1/2 x 5/8 | 18.80 | 376.00 |
| 6 x 4 x 5/16 | 10.30 | 206.00 |
| 6 x 4 x 3/8 | 12.30 | 246.00 |
| 6 x 4 x 1/2 | 16.20 | 324.00 |
| 6 x 4 x 5/8 | 20.00 | 400.00 |
| 6 x 4 x 3/4 | 23.60 | 472.00 |
| 6 x 6 x 5/16 | 12.50 | 250.00 |

Continued on next page

Angle (cont.)

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|---------------|---------------------|---------------------|
| 6 x 6 x 3/8 | 14.90 | 298.00 |
| 6 x 6 x 1/2 | 19.60 | 392.00 |
| 6 x 6 x 5/8 | 24.20 | 484.00 |
| 6 x 6 x 3/4 | 28.70 | 574.00 |
| 6 x 6 x 7/8 | 33.10 | 662.00 |
| 6 x 6 x 1 | 37.40 | 748.00 |
| 7 x 4 x 3/8 | 13.60 | 272.00 |
| 7 x 4 x 1/2 | 17.90 | 358.00 |
| 7 x 4 x 3/4 | 26.20 | 524.00 |
| 8 x 4 x 1/2 | 19.60 | 392.00 |
| 8 x 4 x 5/8 | 24.20 | 484.00 |
| 8 x 4 x 3/4 | 28.70 | 574.00 |
| 8 x 4 x 1 | 37.40 | 748.00 |
| 8 x 6 x 1/2 | 23.00 | 460.00 |
| 8 x 6 x 5/8 | 28.50 | 570.00 |
| 8 x 6 x 3/4 | 33.80 | 676.00 |
| 8 x 6 x 1 | 44.20 | 884.00 |
| 8 x 8 x 1/2 | 26.40 | 528.00 |
| 8 x 8 x 5/8 | 32.70 | 654.00 |
| 8 x 8 x 3/4 | 38.90 | 778.00 |
| 8 x 8 x 7/8 | 45.00 | 900.00 |
| 8 x 8 x 1 | 51.00 | 1020.00 |
| 8 x 8 x 1 1/8 | 56.90 | 1138.00 |
| 9 x 4 x 1/2 | 21.30 | 426.00 |
| 9 x 4 x 5/8 | 26.30 | 526.00 |
| 9 x 4 x 3/4 | 31.30 | 626.00 |

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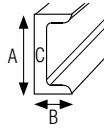
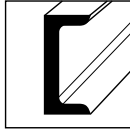
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CHANNEL



Channel

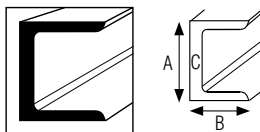
| (A) Depth Inches | | Weight Per Ft. | (B) Flange Width | (C) Web Thk. |
|------------------------|---|-------------------|------------------------|--------------------|
| 3 | x | 3.50# | 1.360 | 0.140 |
| 3 | x | 4.10# | 1.410 | 0.170 |
| 3 | x | 5.00# | 1.498 | 0.258 |
| 3 | x | 6.00# | 1.596 | 0.356 |
| 4 | x | 4.50# | 1.520 | 0.145 |
| 4 | x | 5.40# | 1.580 | 0.180 |
| 4 | x | 6.25# | 1.647 | 0.247 |
| 4 | x | 7.25# | 1.720 | 0.320 |
| 5 | x | 6.70# | 1.750 | 0.190 |
| 5 | x | 9.00# | 1.885 | 0.325 |
| 6 | x | 8.20# | 1.920 | 0.200 |
| 6 | x | 10.50# | 2.034 | 0.314 |
| 6 | x | 13.00# | 2.157 | 0.437 |
| 7 | x | 9.80# | 2.090 | 0.210 |
| 7 | x | 12.25# | 2.194 | 0.314 |
| 7 | x | 14.75# | 2.299 | 0.419 |
| 8 | x | 8.50# | 1.875 | 0.180 |
| 8 | x | 11.50# | 2.260 | 0.220 |
| 8 | x | 13.75# | 2.343 | 0.303 |
| 8 | x | 18.75# | 2.527 | 0.487 |

Continued on next page

Channel

| (A) Depth Inches | | Weight Per Ft. | (B) Flange Width | (C) Web Thk. |
|------------------------|---|-------------------|------------------------|--------------------|
| 9 | x | 13.40# | 2.430 | 0.230 |
| 9 | x | 15.00# | 2.485 | 0.285 |
| 9 | x | 20.00# | 2.648 | 0.448 |
| 10 | x | 15.30# | 2.600 | 0.240 |
| 10 | x | 20.00# | 2.739 | 0.379 |
| 10 | x | 25.00# | 2.886 | 0.526 |
| 10 | x | 30.00# | 3.033 | 0.673 |
| 12 | x | 20.70# | 2.940 | 0.280 |
| 12 | x | 25.00# | 3.047 | 0.387 |
| 12 | x | 30.00# | 3.170 | 0.510 |
| 15 | x | 33.90# | 3.400 | 0.400 |
| 15 | x | 40.00# | 3.520 | 0.520 |
| 15 | x | 50.00# | 3.716 | 0.716 |

Misc. Channel



| (A) Depth Inches | | Weight Per Ft. | (B) Flange Width | (C) Web Thk. |
|------------------------|---|-------------------|------------------------|--------------------|
| 3 | x | 7.10# | 1.938 | 0.312 |
| 4 | x | 13.80# | 2.500 | 0.500 |
| 6 | x | 12.00# | 2.497 | 0.310 |

Continued on next page

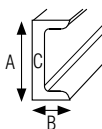
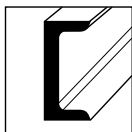
Misc. Channel (cont.)

| (A) Depth Inches | | Weight Per Ft. | (B) Flange Width | (C) Web Thk. |
|---|---|---------------------------------|---|---|
| 6 | x | 15.10# | 2.938 | 0.316 |
| 6 | x | 15.30# | 3.500 | 0.340 |
| 6 | x | 16.30# | 3.000 | 0.375 |
| 6 | x | 18.00# | 3.500 | 0.379 |
| 7 | x | 17.60# | 3.000 | 0.375 |
| 7 | x | 19.10# | 3.450 | 0.352 |
| 7 | x | 22.70# | 3.600 | 0.503 |
| 8 | x | 8.50# | 1.875 | 0.180 |
| 8 | x | 18.70# | 2.975 | 0.353 |
| 8 | x | 20.00# | 3.025 | 0.400 |
| 8 | x | 21.40# | 3.450 | 0.375 |
| 8 | x | 22.80# | 3.500 | 0.427 |
| 9 | x | 23.90# | 3.450 | 0.400 |
| 9 | x | 25.40# | 3.500 | 0.450 |
| 10 | x | 6.50# | 1.125 | 0.152 |
| 10 | x | 8.40# | 1.500 | 0.170 |
| 10 | x | 22.00# | 3.315 | 0.290 |
| 10 | x | 25.00# | 3.405 | 0.380 |
| 10 | x | 28.50# | 3.950 | 0.425 |
| 10 | x | 33.60# | 4.100 | 0.575 |
| 10 | x | 41.10# | 4.321 | 0.796 |
| 12 | x | 10.60# | 1.500 | 0.190 |
| 12 | x | 31.00# | 3.670 | 0.370 |
| 12 | x | 35.00# | 3.767 | 0.467 |
| 12 | x | 40.00# | 3.890 | 0.590 |
| 12 | x | 45.00# | 4.012 | 0.712 |
| 12 | x | 50.00# | 4.135 | 0.835 |
| 13 | x | 31.80# | 4.000 | 0.375 |

Continued on next page

Misc. Channel (cont.)

| (A) Depth Inches | | Weight Per Ft. | (B) Flange Width | (C) Web Thk. |
|------------------------|---|-------------------|------------------------|--------------------|
| 13 | x | 35.00# | 4.072 | 0.447 |
| 13 | x | 40.00# | 4.185 | 0.560 |
| 13 | x | 50.00# | 4.412 | 0.787 |
| 18 | x | 42.70# | 3.950 | 0.450 |
| 18 | x | 45.80# | 4.000 | 0.500 |
| 18 | x | 51.90# | 4.100 | 0.600 |
| 18 | x | 58.00# | 4.200 | 0.700 |



Bar Channel

| (A) Depth Inches | | (B) Flange Width | (C) Web Thk. | Wgt. Per Ft. |
|------------------------|---|------------------------|--------------------|--------------------|
| 3/4 | x | 3/8 | 1/8 | 0.56# |
| 1 | x | 1/2 | 1/8 | 0.84# |
| 1 1/4 | x | 1/2 | 1/8 | 1.01# |
| 1 1/2 | x | 1/2 | 1/8 | 1.12# |
| 1 1/2 | x | 3/4 | 1/8 | 1.17# |
| 2 | x | 1/2 | 1/8 | 1.47# |
| 2 | x | 1 | 1/8 | 1.59# |
| 2 | x | 1 | 3/16 | 2.32# |
| 2 1/2 | x | 5/8 | 3/16 | 2.27# |



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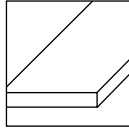
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UM PLATE



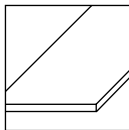
UM Plate

| Size | | | Wgt. Per Ft. | Size | | | Wgt. Per Ft. |
|------|---|----|--------------|-------|---|----|--------------|
| 1/4 | x | 9 | 7.65 | 5/8 | x | 9 | 19.13 |
| | x | 10 | 8.51 | | x | 10 | 21.27 |
| | x | 11 | 9.36 | | x | 12 | 25.53 |
| | x | 12 | 10.21 | 3/4 | x | 9 | 22.95 |
| 5/16 | x | 9 | 9.56 | | x | 10 | 25.53 |
| | x | 10 | 10.64 | | x | 11 | 28.08 |
| | x | 12 | 12.75 | | x | 12 | 30.63 |
| 3/8 | x | 9 | 11.48 | 1 | x | 9 | 30.63 |
| | x | 10 | 12.76 | | x | 10 | 34.03 |
| | x | 11 | 14.04 | | x | 12 | 40.84 |
| | x | 12 | 15.32 | 1 1/2 | x | 10 | 51.00 |
| 1/2 | x | 9 | 15.30 | | x | 12 | 61.25 |
| | x | 10 | 17.02 | 2 | x | 9 | 61.26 |
| | x | 11 | 18.72 | | x | 10 | 68.08 |
| | x | 12 | 20.42 | | x | 12 | 81.68 |

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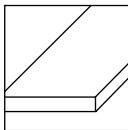
STRIP



Strip

| Size | Wgt. Per Ft. | Size | Wgt. Per Ft. |
|-----------|--------------|------------|--------------|
| 1/8 x 1/2 | .213 | 3/16 x 1/2 | .319 |
| x 3/4 | .319 | x 3/4 | .479 |
| x 1 | .425 | x 1 | .638 |
| x 1 1/4 | .531 | x 1 1/4 | .797 |
| x 1 1/2 | .638 | x 1 1/2 | .956 |
| x 1 3/4 | .744 | x 1 3/4 | 1.116 |
| x 2 | .850 | x 2 | 1.276 |
| x 2 1/4 | .956 | x 2 1/4 | 1.434 |
| x 2 1/2 | 1.063 | x 2 1/2 | 1.594 |
| x 3 | 1.275 | x 3 | 1.913 |
| x 3 1/2 | 1.488 | x 3 1/2 | 2.230 |
| x 4 | 1.700 | x 4 | 2.550 |
| x 4 1/2 | 1.913 | x 4 1/2 | 2.869 |
| x 5 | 2.125 | x 5 | 3.188 |
| x 5 1/2 | 2.338 | x 5 1/2 | 3.506 |
| x 6 | 2.550 | x 6 | 3.825 |
| x 7 | 2.975 | x 7 | 4.463 |
| x 8 | 3.400 | x 8 | 5.100 |
| x 10 | 4.250 | x 10 | 6.375 |
| x 12 | 5.100 | x 12 | 7.650 |

FLAT BAR



Flat Bar CR & HR

| Size | Wgt. Per Ft. | Size | Wgt. Per Ft. |
|-----------|--------------|------------|--------------|
| 1/4 x 1/2 | .425 | 1/4 x 9 | 7.650 |
| x 3/4 | .638 | 5/16 x 3/4 | .797 |
| x 1 | .850 | x 1 | 1.063 |
| x 1 1/4 | 1.063 | x 1 1/4 | 1.328 |
| x 1 1/2 | 1.275 | x 1 1/2 | 1.594 |
| x 1 3/4 | 1.488 | x 2 | 2.125 |
| x 2 | 1.700 | x 2 1/4 | 2.391 |
| x 2 1/4 | 1.913 | x 2 1/2 | 2.656 |
| x 2 1/2 | 2.125 | x 2 3/4 | 2.922 |
| x 3 | 2.550 | x 3 | 3.188 |
| x 3 1/4 | 2.763 | x 3 1/4 | 3.453 |
| x 3 1/2 | 2.975 | x 3 1/2 | 3.719 |
| x 4 | 3.400 | x 4 | 4.250 |
| x 4 1/2 | 3.825 | x 4 1/2 | 4.780 |
| x 5 | 4.250 | x 5 | 5.313 |
| x 5 1/2 | 4.675 | x 5 1/2 | 5.844 |
| x 6 | 5.100 | x 6 | 6.375 |
| x 6 1/2 | 5.520 | x 7 | 7.438 |
| x 7 | 5.950 | x 8 | 8.500 |
| x 8 | 6.800 | x 9 | 9.560 |

Continued on next page

Flat Bar CR & HR (cont.)

| Size | | | Wgt. Per Ft. | Size | | | Wgt. Per Ft. |
|------|---|-------|--------------|------|---|-------|--------------|
| 3/8 | x | 1/2 | .638 | 1/2 | x | 2 | 3.400 |
| | x | 3/4 | .956 | | x | 2 1/4 | 3.825 |
| | x | 1 | 1.275 | | x | 2 1/2 | 4.250 |
| | x | 1 1/4 | 1.594 | | x | 2 3/4 | 4.675 |
| | x | 1 1/2 | 1.913 | | x | 3 | 5.100 |
| | x | 1 3/4 | 2.231 | | x | 3 1/4 | 5.525 |
| | x | 2 | 2.550 | | x | 3 1/2 | 5.950 |
| | x | 2 1/4 | 2.869 | | x | 4 | 6.800 |
| | x | 2 1/2 | 3.188 | | x | 4 1/2 | 7.650 |
| | x | 2 3/4 | 3.506 | | x | 5 | 8.500 |
| | x | 3 | 3.825 | | x | 5 1/2 | 9.350 |
| | x | 3 1/4 | 4.144 | | x | 6 | 10.200 |
| | x | 3 1/2 | 4.463 | | x | 7 | 11.900 |
| | x | 4 | 5.100 | | x | 8 | 13.600 |
| | x | 4 1/2 | 5.738 | | x | 9 | 15.300 |
| | x | 5 | 6.375 | 5/8 | x | 2 | 4.250 |
| | x | 5 1/2 | 7.013 | | x | 2 1/2 | 5.313 |
| | x | 6 | 7.650 | | x | 3 | 6.375 |
| | x | 7 | 8.925 | | x | 4 | 8.500 |
| | x | 8 | 10.200 | | x | 5 | 10.630 |
| | x | 9 | 11.470 | | x | 6 | 12.750 |
| 1/2 | x | 3/4 | 1.275 | | x | 7 | 14.870 |
| | x | 1 | 1.700 | | x | 8 | 17.000 |
| | x | 1 1/4 | 2.125 | | x | 9 | 19.120 |
| | x | 1 1/2 | 2.550 | 3/4 | x | 1 | 2.550 |
| | x | 1 3/4 | 2.975 | | x | 1 1/4 | 3.188 |

Continued on next page



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Flat Bar CR & HR (cont.)

| Size | | | Wgt. Per Ft. | Size | | | Wgt. Per Ft. |
|------|---|-------|--------------|-------|---|-------|--------------|
| 3/4 | x | 1 1/2 | 3.825 | 1 | x | 1 1/4 | 4.250 |
| | x | 2 | 5.100 | | x | 1 1/2 | 5.100 |
| | x | 2 1/2 | 6.375 | | x | 2 | 6.800 |
| | x | 3 | 7.650 | | x | 2 1/2 | 8.500 |
| | x | 3 1/2 | 8.925 | | x | 3 | 10.200 |
| | x | 4 | 10.200 | | x | 3 1/2 | 11.900 |
| | x | 4 1/2 | 11.480 | | x | 4 | 13.600 |
| | x | 5 | 12.750 | | x | 4 1/2 | 15.300 |
| | x | 5 1/2 | 14.030 | | x | 5 | 17.000 |
| | x | 6 | 15.300 | | x | 5 1/2 | 18.700 |
| | x | 7 | 17.850 | | x | 6 | 20.400 |
| | x | 8 | 20.400 | | x | 7 | 23.800 |
| | x | 9 | 22.950 | | x | 8 | 27.200 |
| 7/8 | x | 1 1/4 | 3.719 | 1 1/8 | x | 2 | 7.650 |
| | x | 1 1/2 | 4.463 | | x | 2 1/2 | 9.563 |
| | x | 2 | 5.950 | | x | 3 | 11.480 |
| | x | 2 1/2 | 7.438 | | x | 4 | 15.300 |
| | x | 3 | 8.925 | | x | 5 | 19.130 |
| | x | 3 1/2 | 10.410 | | x | 6 | 22.950 |
| | x | 4 | 11.900 | | x | 8 | 30.600 |
| | x | 4 1/2 | 13.390 | 1 1/4 | x | 1 1/2 | 6.375 |
| | x | 5 | 14.880 | | x | 2 | 8.500 |
| | x | 5 1/2 | 16.360 | | x | 2 1/4 | 9.560 |
| | x | 6 | 17.850 | | x | 2 1/2 | 10.630 |
| | x | 7 | 20.830 | | x | 2 3/4 | 11.690 |
| | x | 8 | 23.800 | | x | 3 | 12.750 |

Continued on next page

Flat Bar CR & HR (cont.)

| Size | Wgt. Per Ft. | Size | Wgt. Per Ft. |
|---------------|--------------|---------------|--------------|
| 1 1/4 x 3 1/4 | 13.810 | 1 3/4 x 4 | 23.800 |
| x 3 1/2 | 14.880 | x 4 1/2 | 26.780 |
| x 4 | 17.000 | x 5 | 29.750 |
| x 4 1/2 | 19.130 | x 5 1/2 | 32.730 |
| x 5 | 21.250 | x 6 | 35.700 |
| x 5 1/2 | 23.380 | 2 x 2 1/4 | 15.300 |
| x 6 | 25.500 | x 2 1/2 | 17.000 |
| x 7 | 29.750 | x 3 | 20.400 |
| x 8 | 34.000 | x 3 1/2 | 23.800 |
| 1 1/2 x 2 | 10.200 | x 4 | 27.200 |
| x 2 1/4 | 11.480 | x 4 1/2 | 30.600 |
| x 2 1/2 | 12.750 | x 5 | 34.000 |
| x 2 3/4 | 14.030 | x 5 1/2 | 37.400 |
| x 3 | 15.300 | x 6 | 40.800 |
| x 3 1/2 | 17.850 | x 7 | 47.600 |
| x 4 | 20.400 | x 8 | 54.400 |
| x 4 1/2 | 22.950 | 2 1/4 x 2 1/2 | 19.130 |
| x 5 | 25.500 | x 3 | 22.950 |
| x 5 1/2 | 28.050 | x 3 1/2 | 26.780 |
| x 6 | 30.600 | x 4 | 30.600 |
| x 7 | 35.700 | x 5 | 38.250 |
| x 8 | 40.800 | x 6 | 45.900 |
| 1 3/4 x 2 | 11.900 | 2 1/2 x 3 | 25.550 |
| x 2 1/2 | 14.880 | x 3 1/2 | 29.750 |
| x 3 | 17.850 | x 4 | 34.000 |
| x 3 1/2 | 20.830 | x 4 1/2 | 38.250 |

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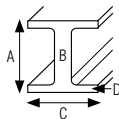
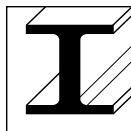


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Flat Bar CR & HR (cont.)

| Size | | | Wgt. Per Ft. | Size | | | Wgt. Per Ft. |
|-------|---|---|--------------|------|---|-------|--------------|
| 2 1/2 | x | 5 | 42.500 | 3 | x | 4 1/2 | 45.900 |
| | x | 6 | 51.000 | | x | 5 | 51.000 |
| | x | 8 | 68.000 | | x | 6 | 61.200 |
| 3 | x | 4 | 40.800 | | x | 8 | 81.600 |

WIDE FLANGE BEAM



Wide Flange Beam • H Beam

| Size | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|-------|----------------|-----------------------|--------------|------------------|-----------------|
| W 4 x | 13.000 | 4.160 | 0.280 | 4.060 | 0.375 |
| W 5 x | 16.000 | 5.010 | 0.260 | 5.000 | 0.360 |
| | 19.000 | 5.150 | 0.270 | 5.030 | 0.430 |
| W 6 x | 9.000 | 5.900 | 0.170 | 3.940 | 0.215 |
| | 12.000 | 6.030 | 0.230 | 4.000 | 0.280 |
| | 15.000 | 5.990 | 0.230 | 5.990 | 0.260 |
| | 16.000 | 6.280 | 0.260 | 4.030 | 0.405 |
| | 20.000 | 6.200 | 0.260 | 6.020 | 0.365 |
| | 25.000 | 6.380 | 0.320 | 6.080 | 0.455 |
| W 8 x | 10.000 | 7.890 | 0.170 | 3.940 | 0.205 |

Continued on next page

Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. | |
|------|---|----|-------------------|-----------------------------|--------------------|------------------------|-----------------------|-------|
| W | 8 | x | 13.000 | 7.990 | 0.230 | 4.000 | 0.255 | |
| | | x | 15.000 | 8.110 | 0.245 | 4.015 | 0.315 | |
| | | x | 18.000 | 8.140 | 0.230 | 5.250 | 0.330 | |
| | | x | 21.000 | 8.280 | 0.250 | 5.270 | 0.400 | |
| | | x | 24.000 | 7.930 | 0.245 | 6.495 | 0.400 | |
| | | x | 28.000 | 8.060 | 0.285 | 6.535 | 0.465 | |
| | | x | 31.000 | 8.000 | 0.285 | 7.995 | 0.435 | |
| | | x | 35.000 | 8.120 | 0.310 | 8.020 | 0.495 | |
| | | x | 40.000 | 8.250 | 0.360 | 8.070 | 0.560 | |
| | | x | 48.000 | 8.500 | 0.400 | 8.110 | 0.685 | |
| | | x | 58.000 | 8.750 | 0.510 | 8.220 | 0.810 | |
| | | x | 67.000 | 9.000 | 0.570 | 8.280 | 0.935 | |
| | W | 10 | x | 12.000 | 9.870 | 0.190 | 3.960 | 0.210 |
| | | | x | 15.000 | 9.990 | 0.230 | 4.000 | 0.270 |
| | | x | 17.000 | 10.110 | 0.240 | 4.010 | 0.330 | |
| | | x | 19.000 | 10.240 | 0.250 | 4.020 | 0.395 | |
| | | x | 22.000 | 10.170 | 0.240 | 5.750 | 0.360 | |
| | | x | 26.000 | 10.330 | 0.260 | 5.770 | 0.440 | |
| | | x | 30.000 | 10.470 | 0.300 | 5.810 | 0.510 | |
| | | x | 33.000 | 9.730 | 0.290 | 7.960 | 0.435 | |
| | | x | 39.000 | 9.920 | 0.315 | 7.985 | 0.530 | |
| | | x | 45.000 | 10.100 | 0.350 | 8.020 | 0.620 | |
| | | x | 49.000 | 9.980 | 0.340 | 10.000 | 0.560 | |
| | | x | 54.000 | 10.090 | 0.370 | 10.030 | 0.615 | |

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Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|---|--|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W 10 | x | | 60.000 | 10.220 | 0.420 | 10.080 | 0.680 |
| | | | 68.000 | 10.400 | 0.470 | 10.130 | 0.770 |
| | x | | 77.000 | 10.600 | 0.530 | 10.190 | 0.870 |
| | | | 88.000 | 10.840 | 0.605 | 10.265 | 0.990 |
| | x | | 100.000 | 11.100 | 0.680 | 10.340 | 1.120 |
| | | | 112.000 | 11.360 | 0.755 | 10.415 | 1.250 |
| W 12 | x | | 14.000 | 11.910 | 0.200 | 3.970 | 0.225 |
| | | | 16.000 | 11.990 | 0.220 | 3.990 | 0.265 |
| | x | | 19.000 | 12.160 | 0.235 | 4.005 | 0.350 |
| | | | 22.000 | 12.310 | 0.260 | 4.030 | 0.425 |
| | x | | 26.000 | 12.220 | 0.230 | 6.490 | 0.380 |
| | | | 30.000 | 12.340 | 0.260 | 6.520 | 0.440 |
| | x | | 35.000 | 12.500 | 0.300 | 6.560 | 0.520 |
| | | | 40.000 | 11.940 | 0.295 | 8.005 | 0.515 |
| | x | | 45.000 | 12.060 | 0.335 | 8.045 | 0.575 |
| | | | 50.000 | 12.190 | 0.370 | 8.080 | 0.640 |
| | x | | 53.000 | 12.060 | 0.345 | 9.995 | 0.575 |
| | | | 58.000 | 12.190 | 0.360 | 10.010 | 0.640 |
| | x | | 65.000 | 12.120 | 0.390 | 12.000 | 0.605 |
| | | | 72.000 | 12.250 | 0.430 | 12.040 | 0.670 |
| | x | | 79.000 | 12.380 | 0.470 | 12.080 | 0.735 |
| | | | 87.000 | 12.530 | 0.515 | 12.125 | 0.810 |
| | x | | 96.000 | 12.710 | 0.550 | 12.160 | 0.900 |
| | | | 106.000 | 12.890 | 0.610 | 12.220 | 0.990 |

Continued on next page

Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|---|--------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W 12 | x | | 120.000 | 13.120 | 0.710 | 12.320 | 1.105 |
| | | | 136.000 | 13.410 | 0.790 | 12.400 | 1.250 |
| | x | | 152.000 | 13.710 | 0.870 | 12.480 | 1.400 |
| | | | 170.000 | 14.030 | 0.960 | 12.570 | 1.560 |
| | x | | 190.000 | 14.380 | 1.060 | 12.670 | 1.735 |
| | | | 210.000 | 14.710 | 1.180 | 12.790 | 1.900 |
| | x | | 230.000 | 15.050 | 1.285 | 12.895 | 2.070 |
| | | | 252.000 | 15.410 | 1.395 | 13.005 | 2.250 |
| | x | | 279.000 | 15.850 | 1.530 | 13.140 | 2.470 |
| | | | 305.000 | 16.320 | 1.625 | 13.235 | 2.705 |
| | x | | 336.000 | 16.820 | 1.775 | 13.385 | 2.955 |
| | | | | | | | |
| W 14 | x | | 22.000 | 13.740 | 0.230 | 5.000 | 0.335 |
| | | | 26.000 | 13.910 | 0.255 | 5.025 | 0.420 |
| | x | | 30.000 | 13.840 | 0.270 | 6.730 | 0.385 |
| | | | 34.000 | 13.980 | 0.285 | 6.745 | 0.455 |
| | x | | 38.000 | 14.100 | 0.310 | 6.770 | 0.515 |
| | | | 43.000 | 13.660 | 0.305 | 7.995 | 0.530 |
| | x | | 48.000 | 13.790 | 0.340 | 8.030 | 0.595 |
| | | | 53.000 | 13.920 | 0.370 | 8.060 | 0.660 |
| | x | | 61.000 | 13.890 | 0.375 | 9.995 | 0.645 |
| | | | 68.000 | 14.040 | 0.415 | 10.035 | 0.720 |
| | x | | 74.000 | 14.170 | 0.450 | 10.070 | 0.785 |
| | | | 82.000 | 14.310 | 0.510 | 10.130 | 0.855 |
| x | | 90.000 | 14.020 | 0.440 | 14.520 | 0.710 | |
| | | | | | | | |

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Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|--------|---------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W | 14 | x | 99.000 | 14.160 | 0.485 | 14.565 | 0.780 |
| | | x | 109.000 | 14.320 | 0.525 | 14.605 | 0.860 |
| | x | 120.000 | 14.480 | 0.590 | 14.670 | 0.940 | |
| | x | 132.000 | 14.660 | 0.645 | 14.725 | 1.030 | |
| | x | 145.000 | 14.780 | 0.680 | 15.500 | 1.090 | |
| | x | 159.000 | 14.980 | 0.745 | 15.565 | 1.190 | |
| | x | 176.000 | 15.220 | 0.830 | 15.650 | 1.310 | |
| | x | 193.000 | 15.480 | 0.890 | 15.710 | 1.440 | |
| | x | 211.000 | 15.720 | 0.980 | 15.800 | 1.560 | |
| | x | 233.000 | 16.040 | 1.070 | 15.890 | 1.720 | |
| | x | 257.000 | 16.380 | 1.175 | 15.995 | 1.890 | |
| | x | 283.000 | 16.740 | 1.290 | 16.110 | 2.070 | |
| | x | 311.000 | 17.120 | 1.410 | 16.230 | 2.260 | |
| | x | 342.000 | 17.540 | 1.540 | 16.360 | 2.470 | |
| W | 16 | x | 26.000 | 15.690 | 0.250 | 5.500 | 0.345 |
| | | x | 31.000 | 15.880 | 0.275 | 5.525 | 0.440 |
| | | x | 36.000 | 15.860 | 0.295 | 6.985 | 0.430 |
| | | x | 40.000 | 16.010 | 0.305 | 6.995 | 0.505 |
| | | x | 45.000 | 16.130 | 0.345 | 7.035 | 0.565 |
| | | x | 50.000 | 16.260 | 0.380 | 7.070 | 0.630 |
| | | x | 57.000 | 16.430 | 0.430 | 7.120 | 0.715 |
| | | x | 67.000 | 16.330 | 0.395 | 10.235 | 0.665 |
| | | x | 77.000 | 16.520 | 0.455 | 10.295 | 0.760 |
| x | 89.000 | 16.750 | 0.525 | 10.365 | 0.875 | | |

Continued on next page

Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|---|--|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W 16 | x | | 100.000 | 16.970 | 0.585 | 10.425 | 0.985 |
| W 18 | x | | 35.000 | 17.700 | 0.300 | 6.000 | 0.425 |
| | x | | 40.000 | 17.900 | 0.315 | 6.015 | 0.525 |
| | x | | 46.000 | 18.060 | 0.360 | 6.060 | 0.605 |
| | x | | 50.000 | 17.990 | 0.355 | 7.495 | 0.570 |
| | x | | 55.000 | 18.110 | 0.390 | 7.530 | 0.630 |
| | x | | 60.000 | 18.240 | 0.415 | 7.555 | 0.695 |
| | x | | 65.000 | 18.350 | 0.450 | 7.590 | 0.750 |
| | x | | 71.000 | 18.470 | 0.495 | 7.635 | 0.810 |
| | x | | 76.000 | 18.210 | 0.425 | 11.035 | 0.680 |
| | x | | 86.000 | 18.390 | 0.480 | 11.090 | 0.770 |
| | x | | 97.000 | 18.590 | 0.535 | 11.145 | 0.870 |
| | x | | 106.000 | 18.730 | 0.590 | 11.200 | 0.940 |
| | x | | 119.000 | 18.970 | 0.655 | 11.265 | 1.060 |
| | x | | 130.000 | 19.250 | 0.670 | 11.160 | 1.200 |
| | x | | 143.000 | 19.490 | 0.730 | 11.220 | 1.320 |
| | x | | 158.000 | 19.720 | 0.810 | 11.300 | 1.440 |
| | x | | 175.000 | 20.040 | 0.890 | 11.375 | 1.590 |
| | x | | 192.000 | 20.350 | 0.960 | 11.455 | 1.750 |
| | x | | 211.000 | 20.670 | 1.060 | 11.555 | 1.910 |
| | x | | 234.000 | 21.060 | 1.160 | 11.650 | 2.110 |
| | x | | 258.000 | 21.460 | 1.280 | 11.770 | 2.300 |
| | x | | 283.000 | 21.850 | 1.400 | 11.890 | 2.500 |
| | x | | 311.000 | 22.320 | 1.520 | 12.005 | 2.740 |

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Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. | |
|------|----|---------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|-------|
| W | 21 | x | 44.000 | 20.660 | 0.350 | 6.500 | 0.450 | |
| | | x | 50.000 | 20.830 | 0.380 | 6.530 | 0.535 | |
| | | x | 57.000 | 21.060 | 0.405 | 6.555 | 0.650 | |
| | | x | 62.000 | 20.990 | 0.400 | 8.240 | 0.615 | |
| | | x | 68.000 | 21.130 | 0.430 | 8.270 | 0.685 | |
| | | x | 73.000 | 21.240 | 0.455 | 8.295 | 0.740 | |
| | | x | 83.000 | 21.430 | 0.515 | 8.355 | 0.835 | |
| | | x | 93.000 | 21.620 | 0.580 | 8.420 | 0.930 | |
| | | x | 101.000 | 21.360 | 0.500 | 12.290 | 0.800 | |
| | | x | 111.000 | 21.510 | 0.550 | 12.340 | 0.875 | |
| | x | 122.000 | 21.680 | 0.600 | 12.390 | 0.960 | | |
| | x | 132.000 | 21.830 | 0.650 | 12.440 | 1.035 | | |
| | x | 147.000 | 22.060 | 0.720 | 12.510 | 1.150 | | |
| | x | 166.000 | 22.480 | 0.750 | 12.420 | 1.360 | | |
| | x | 182.000 | 22.720 | 0.830 | 12.500 | 1.480 | | |
| | x | 248.000 | 23.740 | 1.110 | 12.775 | 1.990 | | |
| | x | 275.000 | 24.130 | 1.220 | 12.890 | 2.190 | | |
| | x | 300.000 | 24.530 | 1.320 | 12.990 | 2.380 | | |
| | W | 24 | x | 55.000 | 23.570 | 0.395 | 7.005 | 0.505 |
| | | | x | 62.000 | 23.740 | 0.430 | 7.040 | 0.590 |
| x | | | 68.000 | 23.730 | 0.415 | 8.965 | 0.585 | |
| x | | | 76.000 | 23.920 | 0.440 | 8.990 | 0.680 | |
| x | | | 84.000 | 24.100 | 0.470 | 9.020 | 0.770 | |
| x | | | 94.000 | 24.310 | 0.515 | 9.065 | 0.875 | |

Continued on next page

Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. | |
|------|------|---------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|-------|
| W 24 | x | | 104.000 | 24.060 | 0.500 | 12.750 | 0.750 | |
| | | | 117.000 | 24.260 | 0.550 | 12.800 | 0.850 | |
| | x | | 131.000 | 24.480 | 0.605 | 12.855 | 0.960 | |
| | | | 146.000 | 24.740 | 0.650 | 12.900 | 1.090 | |
| | x | | 162.000 | 25.000 | 0.705 | 12.955 | 1.220 | |
| | | | 176.000 | 25.240 | 0.750 | 12.890 | 1.340 | |
| | x | | 192.000 | 25.470 | 0.810 | 12.950 | 1.460 | |
| | | | 207.000 | 25.710 | 0.870 | 13.010 | 1.570 | |
| | x | | 229.000 | 26.020 | 0.960 | 13.110 | 1.730 | |
| | | | 250.000 | 26.340 | 1.040 | 13.185 | 1.890 | |
| | x | | 279.000 | 26.730 | 1.160 | 13.305 | 2.090 | |
| | | | 306.000 | 27.130 | 1.260 | 13.405 | 2.280 | |
| | W 27 | x | | 84.000 | 26.710 | 0.460 | 9.960 | 0.640 |
| | | | | 94.000 | 26.920 | 0.490 | 9.990 | 0.745 |
| x | | | 102.000 | 27.090 | 0.515 | 10.015 | 0.830 | |
| | | | 114.000 | 27.290 | 0.570 | 10.070 | 0.930 | |
| x | | | 146.000 | 27.380 | 0.605 | 13.965 | 0.975 | |
| | | | 161.000 | 27.590 | 0.660 | 14.020 | 1.080 | |
| x | | | 178.000 | 27.810 | 0.725 | 14.085 | 1.190 | |
| | | | 194.000 | 28.110 | 0.750 | 14.035 | 1.340 | |
| x | | | 217.000 | 28.430 | 0.830 | 14.115 | 1.500 | |
| | | | 235.000 | 28.660 | 0.910 | 14.190 | 1.610 | |
| x | | | 258.000 | 28.980 | 0.980 | 14.270 | 1.770 | |
| | | 281.000 | 29.290 | 1.060 | 14.350 | 1.930 | | |

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Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|---------|--------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W 27 | x | x | 307.000 | 29.610 | 1.160 | 14.445 | 2.090 |
| | | x | 336.000 | 30.000 | 1.260 | 14.545 | 2.280 |
| W 30 | x | x | 90.000 | 29.530 | 0.470 | 10.400 | 0.610 |
| | | x | 99.000 | 29.650 | 0.520 | 10.450 | 0.670 |
| | | x | 108.000 | 29.830 | 0.545 | 10.475 | 0.760 |
| | | x | 116.000 | 30.010 | 0.565 | 10.495 | 0.850 |
| | | x | 124.000 | 30.170 | 0.585 | 10.515 | 0.930 |
| | | x | 132.000 | 30.310 | 0.615 | 10.545 | 1.000 |
| | | x | 173.000 | 30.440 | 0.655 | 14.985 | 1.065 |
| | | x | 191.000 | 30.680 | 0.710 | 15.040 | 1.185 |
| | | x | 211.000 | 30.940 | 0.775 | 15.105 | 1.315 |
| | | x | 235.000 | 31.300 | 0.830 | 15.055 | 1.500 |
| | | x | 261.000 | 31.610 | 0.930 | 15.155 | 1.650 |
| | | x | 292.000 | 32.010 | 1.020 | 15.255 | 1.850 |
| W 33 | x | x | 326.000 | 32.400 | 1.140 | 15.370 | 2.050 |
| | | x | 118.000 | 32.860 | 0.550 | 11.480 | 0.740 |
| | | x | 130.000 | 33.090 | 0.580 | 11.510 | 0.855 |
| | | x | 141.000 | 33.300 | 0.605 | 11.535 | 0.960 |
| | | x | 152.000 | 33.490 | 0.635 | 11.565 | 1.055 |
| | | x | 169.000 | 33.820 | 0.670 | 11.500 | 1.220 |
| | | x | 201.000 | 33.680 | 0.715 | 15.745 | 1.150 |
| | | x | 221.000 | 33.930 | 0.775 | 15.805 | 1.275 |
| | | x | 241.000 | 34.180 | 0.830 | 15.860 | 1.400 |
| x | 263.000 | 34.530 | 0.870 | 15.805 | 1.570 | | |

Continued on next page

Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|------|---------|------|-------------------|-----------------------------|--------------------|------------------------|-----------------------|
| W 33 | x | x | 291.000 | 34.840 | 0.960 | 15.905 | 1.730 |
| | | x | 318.000 | 35.160 | 1.040 | 15.985 | 1.890 |
| W 36 | x | x | 135.000 | 35.550 | 0.600 | 11.950 | 0.790 |
| | | x | 150.000 | 35.850 | 0.625 | 11.975 | 0.940 |
| | | x | 160.000 | 36.010 | 0.650 | 12.000 | 1.020 |
| | | x | 170.000 | 36.170 | 0.680 | 12.030 | 1.100 |
| | | x | 182.000 | 36.330 | 0.725 | 12.075 | 1.180 |
| | | x | 194.000 | 36.490 | 0.765 | 12.115 | 1.260 |
| | | x | 210.000 | 36.690 | 0.830 | 12.180 | 1.360 |
| | | x | 230.000 | 35.900 | 0.760 | 16.470 | 1.260 |
| | | x | 245.000 | 36.080 | 0.800 | 16.510 | 1.350 |
| | | x | 260.000 | 36.260 | 0.840 | 16.550 | 1.440 |
| | | x | 280.000 | 36.520 | 0.885 | 16.595 | 1.570 |
| | | x | 300.000 | 36.740 | 0.945 | 16.655 | 1.680 |
| | | x | 328.000 | 37.090 | 1.020 | 16.630 | 1.850 |
| | | W 40 | x | x | 149.000 | 38.200 | 0.630 |
| x | 167.000 | | | 38.590 | 0.650 | 11.810 | 1.025 |
| x | 183.000 | | | 38.980 | 0.650 | 11.810 | 1.220 |
| x | 192.000 | | | 38.200 | 0.710 | 17.710 | 0.830 |
| x | 199.000 | | | 38.670 | 0.655 | 15.750 | 1.065 |
| x | 215.000 | | | 38.980 | 0.650 | 15.750 | 1.220 |
| x | 221.000 | | | 38.670 | 0.710 | 17.710 | 1.065 |
| x | 244.000 | | | 39.060 | 0.710 | 17.710 | 1.260 |
| x | 249.000 | | | 39.380 | 0.750 | 15.750 | 1.420 |

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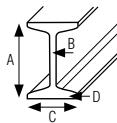
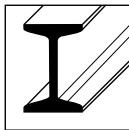
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Wide Flange Beam • H Beam (cont.)

| Size | | | Weight Per Ft. | (A) Section Depth In. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|-------------|---|--|---------------------------|--------------------------------------|-----------------------------|---------------------------------|--------------------------------|
| W 40 | x | | 268.000 | 39.370 | 0.750 | 17.750 | 1.415 |
| | x | | 277.000 | 39.690 | 0.830 | 15.830 | 1.575 |
| | x | | 297.000 | 39.840 | 0.930 | 15.825 | 1.650 |
| | x | | 298.000 | 39.690 | 0.830 | 17.830 | 1.575 |
| | x | | 324.000 | 40.160 | 1.000 | 15.905 | 1.810 |
| | x | | 328.000 | 40.000 | 0.910 | 17.910 | 1.730 |

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offering surplus steel
at great prices.**

STANDARD I BEAM



Standard I Beam • S Beam

| (A) Size | Weight Per Ft. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|-------------|-------------------|--------------------|------------------------|-----------------------|
| S 3 x | 5.70 | 0.170 | 2.330 | 0.260 |
| | 7.50 | 0.349 | 2.509 | 0.260 |
| S 4 x | 7.70 | 0.193 | 2.663 | 0.293 |
| | 9.50 | 0.326 | 2.796 | 0.293 |
| S 5 x | 10.00 | 0.214 | 3.004 | 0.326 |
| | 14.75 | 0.494 | 3.284 | 0.326 |
| S 6 x | 12.50 | 0.232 | 3.332 | 0.359 |
| | 17.25 | 0.465 | 3.565 | 0.359 |
| S 7 x | 15.30 | 0.252 | 3.662 | 0.392 |
| | 20.00 | 0.392 | 3.860 | 0.450 |
| S 8 x | 18.40 | 0.271 | 4.001 | 0.425 |
| | 23.00 | 0.441 | 4.171 | 0.425 |
| S 10 x | 25.40 | 0.311 | 4.661 | 0.491 |
| | 35.00 | 0.594 | 4.944 | 0.491 |
| S 12 x | 31.80 | 0.350 | 5.000 | 0.544 |
| | 35.00 | 0.428 | 5.078 | 0.544 |
| | 40.80 | 0.460 | 5.252 | 0.659 |
| | 50.00 | 0.687 | 5.477 | 0.659 |

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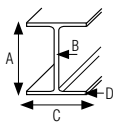
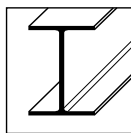
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Standard I Beam • S Beam (cont.)

| (A) Size | | | Weight Per Ft. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|-------------|---|---|-------------------|--------------------|------------------------|-----------------------|
| S 15 | x | | 42.90 | 0.411 | 5.501 | 0.622 |
| | | x | 50.00 | 0.550 | 5.640 | 0.622 |
| S 18 | x | | 54.70 | 0.461 | 6.001 | 0.691 |
| | | x | 70.00 | 0.711 | 6.251 | 0.691 |
| S 20 | x | | 66.00 | 0.505 | 6.255 | 0.795 |
| | | x | 75.00 | 0.635 | 6.385 | 0.795 |
| | | x | 86.00 | 0.660 | 7.060 | 0.920 |
| | | x | 96.00 | 0.800 | 7.200 | 0.920 |
| | | x | 106.00 | 0.620 | 7.870 | 1.090 |
| S 24 | x | | 80.00 | 0.500 | 7.000 | 0.870 |
| | | x | 90.00 | 0.625 | 7.125 | 0.870 |
| | | x | 100.00 | 0.745 | 7.245 | 0.870 |
| | | x | 106.00 | 0.620 | 7.870 | 1.090 |
| | | x | 121.00 | 0.800 | 8.050 | 1.090 |

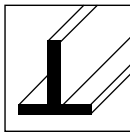
M "JR." Beam • Light Beam



| (A) Size | | | Weight Per Ft. | (B) Web Thk. | (C) Flange Width | (D) Flange Thk. |
|-------------|---|--|-------------------|--------------------|------------------------|-----------------------|
| M 6 | x | | 4.40 | 0.114 | 1.844 | 0.171 |
| M 8 | x | | 6.50 | 0.135 | 2.281 | 0.189 |
| M 10 | x | | 9.00 | 0.157 | 2.690 | 0.206 |
| M 12 | x | | 11.80 | 0.177 | 3.065 | 0.225 |

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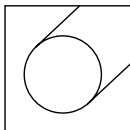
TEES • BAR SIZE



Tees • Bar Size

| Flange in Inches | Stem in Inches | Stem Thk. | Weight Per Ft. |
|------------------|----------------|-----------|----------------|
| 1 1/2 | 1 1/2 | 3/16 | 1.900 |
| 1 1/2 | 1 1/2 | 1/4 | 2.430 |
| 1 3/4 | 1 3/4 | 3/16 | 2.260 |
| 2 | 2 | 1/4 | 3.620 |
| 2 1/2 | 2 1/2 | 1/4 | 4.600 |

ROUNDS CR & HR



Round Bar CR & HR

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|------|--------------|--------------|
| 1/8 | 0.04 | 0.84 |
| 3/16 | 0.09 | 1.88 |
| 1/4 | 0.17 | 3.34 |
| 5/16 | 0.26 | 5.22 |
| 3/8 | 0.38 | 7.52 |

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Round Bar CR & HR

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|-------------|---------------------|---------------------|
| 7/16 | 0.51 | 10.22 |
| 1/2 | 0.67 | 13.36 |
| 9/16 | 0.85 | 16.90 |
| 5/8 | 1.04 | 20.80 |
| 3/4 | 1.50 | 30.00 |
| 7/8 | 2.04 | 40.80 |
| 15/16 | 2.35 | 47.00 |
| 1 | 2.67 | 53.40 |
| 1 1/8 | 3.38 | 67.60 |
| 1 3/16 | 3.77 | 75.40 |
| 1 1/4 | 4.17 | 83.40 |
| 1 5/16 | 4.60 | 92.00 |
| 1 3/8 | 5.05 | 101.00 |
| 1 7/16 | 5.52 | 110.40 |
| 1 1/2 | 6.01 | 120.20 |
| 1 5/8 | 7.05 | 141.00 |
| 1 3/4 | 8.18 | 163.60 |
| 1 13/16 | 8.77 | 175.40 |
| 1 7/8 | 9.39 | 187.80 |
| 1 15/16 | 10.02 | 200.40 |
| 2 | 10.68 | 213.60 |
| 2 1/8 | 12.06 | 241.20 |
| 2 3/16 | 12.78 | 255.60 |
| 2 1/4 | 13.52 | 270.40 |
| 2 5/16 | 14.28 | 285.60 |
| 2 3/8 | 15.06 | 301.20 |

Continued on next page

Round Bar CR & HR

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|--------|--------------|--------------|
| 2 7/16 | 15.87 | 317.40 |
| 2 1/2 | 16.69 | 333.80 |
| 2 9/16 | 17.53 | 350.60 |
| 2 5/8 | 18.40 | 368.00 |
| 2 3/4 | 20.19 | 403.80 |
| 3 | 24.03 | 480.60 |
| 3 1/4 | 28.21 | 564.20 |
| 3 5/16 | 29.30 | 586.00 |
| 3 3/8 | 30.42 | 608.40 |
| 3 7/16 | 31.55 | 631.00 |
| 3 1/2 | 32.71 | 654.20 |
| 3 9/16 | 33.89 | 677.80 |
| 3 5/8 | 35.09 | 700.18 |
| 3 3/4 | 37.55 | 751.00 |
| 4 | 42.73 | 854.60 |
| 4 1/8 | 45.44 | 908.80 |
| 4 3/16 | 46.83 | 936.60 |
| 4 1/4 | 48.23 | 964.60 |
| 4 3/8 | 51.11 | 1022.20 |
| 4 7/16 | 52.58 | 1051.60 |
| 4 1/2 | 54.08 | 1081.60 |
| 4 3/4 | 60.25 | 1205.00 |
| 5 | 66.76 | 1335.20 |
| 5 1/8 | 70.14 | 1402.80 |
| 5 1/4 | 73.60 | 1472.00 |

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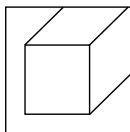
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Round Bar CR & HR

| Size | Wgt. Per Ft. | Wgt. Per 20' |
|--------|--------------|--------------|
| 5 3/8 | 77.15 | 1543.00 |
| 5 7/16 | 78.95 | 1579.00 |
| 5 1/2 | 80.78 | 1615.60 |
| 5 5/8 | 84.49 | 1689.80 |
| 5 3/4 | 88.29 | 1765.80 |
| 6 | 96.13 | 1922.60 |
| 6 1/4 | 104.31 | 2086.20 |
| 6 3/8 | 108.52 | 2170.40 |
| 6 1/2 | 112.82 | 2256.40 |
| 6 5/8 | 117.20 | 2344.00 |
| 6 3/4 | 121.70 | 2434.00 |
| 7 | 130.90 | 2618.00 |
| 7 1/4 | 140.40 | 2808.00 |
| 7 1/2 | 150.20 | 3004.00 |
| 7 3/4 | 160.40 | 3208.00 |
| 8 | 170.90 | 3418.00 |
| 8 1/2 | 192.93 | 3858.60 |
| 8 3/4 | 204.50 | 4090.00 |
| 9 | 216.30 | 4326.00 |
| 9 1/4 | 228.48 | 4569.60 |
| 9 1/2 | 241.00 | 4820.00 |
| 10 | 267.00 | 5340.00 |

Also available in metric sizes.

SQUARES CR & HR



Square Bar CR & HR

| Size | Wgt. Per Ft. | Wgt. Per 20' | Size | Wgt. Per Ft. | Wgt. Per 20' |
|-------|-----------------|-----------------|-------|-----------------|-----------------|
| 5/16 | 0.33 | 6.64 | 1 3/4 | 10.42 | 208.40 |
| 3/8 | 0.48 | 9.56 | 2 | 13.60 | 272.00 |
| 7/16 | 0.65 | 13.02 | 2 1/4 | 17.21 | 344.20 |
| 1/2 | 0.85 | 17.00 | 2 1/2 | 21.25 | 425.00 |
| 5/8 | 1.33 | 26.60 | 3 | 30.60 | 612.00 |
| 3/4 | 1.91 | 38.20 | 3 1/2 | 41.65 | 833.00 |
| 7/8 | 2.60 | 52.00 | 4 | 54.40 | 1088.00 |
| 1 | 3.40 | 68.00 | 4 1/2 | 68.85 | 1367.00 |
| 1 1/8 | 4.30 | 86.00 | 5 | 85.00 | 1700.00 |
| 1 1/4 | 5.32 | 106.40 | 5 1/2 | 102.90 | 2058.00 |
| 1 1/2 | 7.65 | 153.00 | 6 | 122.40 | 2448.00 |

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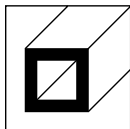
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SQUARE TUBING

Also available in Galvanized.



Square Tubing

| Size | Gauge | Thickness | Wgt. Per Ft. |
|---------------|-------|-----------|--------------|
| 1/2 x 1/2 | 16 | 0.065 | 0.384 |
| 3/4 x 3/4 | 16 | 0.065 | 0.605 |
| | 14 | 0.083 | 0.753 |
| 1 x 1 | 16 | 0.065 | 0.826 |
| | 14 | 0.083 | 1.035 |
| | 11 | 0.120 | 1.436 |
| 1 1/4 x 1 1/4 | 16 | 0.065 | 1.047 |
| | 14 | 0.083 | 1.317 |
| | 11 | 0.120 | 1.844 |
| | 3/16 | 0.188 | 2.620 |
| 1 1/2 x 1 1/2 | 16 | 0.065 | 1.268 |
| | 14 | 0.083 | 1.599 |
| | 11 | 0.120 | 2.252 |
| | 3/16 | 0.188 | 3.220 |
| | 1/4 | 0.250 | 4.110 |
| 1 3/4 x 1 3/4 | 14 | 0.083 | 1.880 |
| | 11 | 0.120 | 2.660 |

Continued on next page

Square Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|---------------|--------------|------------------|---------------------|
| 2 x 2 | 16 | 0.065 | 1.710 |
| | 14 | 0.083 | 2.164 |
| | 11 | 0.120 | 3.067 |
| | 3/16 | 0.188 | 4.320 |
| | 1/4 | 0.250 | 5.410 |
| | 5/16 | 0.312 | 6.320 |
| 2 1/2 x 2 1/2 | 14 | 0.083 | 2.730 |
| | 11 | 0.120 | 3.900 |
| | 3/16 | 0.188 | 5.590 |
| | 1/4 | 0.250 | 7.110 |
| | 5/16 | 0.312 | 8.430 |
| 3 x 3 | 14 | 0.083 | 3.290 |
| | 11 | 0.120 | 4.750 |
| | 3/16 | 0.188 | 6.870 |
| | 1/4 | 0.250 | 8.810 |
| | 5/16 | 0.312 | 10.580 |
| | 3/8 | 0.375 | 12.170 |
| 3 1/2 x 3 1/2 | 11 | 0.120 | 5.610 |
| | 3/16 | 0.188 | 8.150 |
| | 1/4 | 0.250 | 10.510 |
| | 5/16 | 0.312 | 12.700 |
| 4 x 4 | 14 | 0.083 | 4.420 |
| | 11 | 0.120 | 6.220 |
| | 3/16 | 0.188 | 9.420 |
| | 1/4 | 0.250 | 12.210 |

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Square Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|---------------|--------------|------------------|---------------------|
| 4 x 4 | 5/16 | 0.312 | 14.830 |
| | 3/8 | 0.375 | 17.270 |
| | 1/2 | 0.500 | 21.630 |
| 4 1/2 x 4 1/2 | 11 | 0.120 | 7.310 |
| | 3/16 | 0.188 | 10.700 |
| | 1/4 | 0.250 | 13.910 |
| | 5/16 | 0.312 | 16.960 |
| 5 x 5 | 3/8 | 0.375 | 19.820 |
| | 11 | 0.120 | 8.160 |
| | 3/16 | 0.188 | 11.970 |
| | 1/4 | 0.250 | 15.620 |
| | 5/16 | 0.312 | 19.080 |
| 6 x 6 | 3/8 | 0.375 | 22.370 |
| | 1/2 | 0.500 | 28.430 |
| | 3/16 | 0.188 | 14.530 |
| | 1/4 | 0.250 | 19.020 |
| | 5/16 | 0.312 | 23.340 |
| | 3/8 | 0.375 | 27.480 |
| 7 x 7 | 1/2 | 0.500 | 35.240 |
| | 5/8 | 0.625 | 42.300 |
| | 3/16 | 0.188 | 17.080 |
| | 1/4 | 0.250 | 22.420 |
| | 5/16 | 0.312 | 27.590 |
| 8 x 8 | 3/8 | 0.375 | 32.580 |
| | 1/2 | 0.500 | 42.050 |

Continued on next page

Square Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|---------|-------|-----------|--------------|
| 7 x 7 | 5/8 | 0.625 | 50.180 |
| 8 x 8 | 3/16 | 0.188 | 19.630 |
| | 1/4 | 0.250 | 25.820 |
| | 5/16 | 0.312 | 31.840 |
| | 3/8 | 0.375 | 37.690 |
| | 1/2 | 0.500 | 48.850 |
| | 5/8 | 0.625 | 59.320 |
| 10 x 10 | 3/16 | 0.188 | 24.730 |
| | 1/4 | 0.250 | 32.630 |
| | 5/16 | 0.312 | 40.350 |
| | 3/8 | 0.375 | 47.900 |
| | 1/2 | 0.500 | 62.460 |
| | 5/8 | 0.625 | 76.330 |
| 12 x 12 | 1/4 | 0.250 | 39.430 |
| | 5/16 | 0.312 | 48.860 |
| | 3/8 | 0.375 | 58.100 |
| | 1/2 | 0.500 | 76.070 |
| | 5/8 | 0.625 | 93.340 |
| 14 x 14 | 5/16 | 0.312 | 57.360 |
| | 3/8 | 0.375 | 68.310 |
| | 1/2 | 0.500 | 89.680 |
| 16 x 16 | 5/16 | 0.312 | 65.870 |
| | 3/8 | 0.375 | 78.520 |
| | 1/2 | 0.500 | 105.400 |

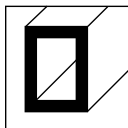
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RECTANGULAR TUBING

Also available in Galvanized.



Rectangular Tubing

| Size | Gauge | Thickness | Wgt. Per Ft. |
|---------------|-------|-----------|--------------|
| 1 1/2 x 1 | 16 | 0.065 | 1.047 |
| | 14 | 0.083 | 1.317 |
| | 11 | 0.120 | 1.844 |
| 2 x 1 | 16 | 0.065 | 1.268 |
| | 14 | 0.083 | 1.599 |
| | 11 | 0.120 | 2.252 |
| | 3/16 | 0.188 | 3.220 |
| 2 x 1 1/2 | 14 | 0.083 | 1.882 |
| | 11 | 0.120 | 2.660 |
| 2 1/2 x 1 1/2 | 14 | 0.083 | 2.164 |
| | 11 | 0.120 | 3.067 |
| | 3/16 | 0.188 | 4.320 |
| | 1/4 | 0.250 | 5.410 |
| 3 x 1 | 16 | 0.065 | 1.710 |
| | 14 | 0.083 | 2.164 |
| | 11 | 0.120 | 3.067 |
| 3 x 1 1/2 | 16 | 0.065 | 1.932 |
| | 14 | 0.083 | 2.450 |
| | 11 | 0.120 | 3.480 |

Continued on next page

Rectangular Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|-------------|--------------|------------------|---------------------|
| 3 x 1 1/2 | 3/16 | 0.188 | 4.970 |
| 3 x 2 | 14 | 0.083 | 2.730 |
| | 11 | 0.120 | 3.900 |
| | 3/16 | 0.188 | 5.590 |
| | 1/4 | 0.250 | 7.110 |
| | 5/16 | 0.312 | 8.430 |
| 4 x 2 | 14 | 0.083 | 3.290 |
| | 11 | 0.120 | 4.750 |
| | 3/16 | 0.188 | 6.870 |
| | 1/4 | 0.250 | 8.810 |
| | 5/16 | 0.312 | 10.580 |
| | 3/8 | 0.375 | 12.170 |
| 4 x 3 | 11 | 0.120 | 5.610 |
| | 3/16 | 0.188 | 8.150 |
| | 1/4 | 0.250 | 10.510 |
| | 5/16 | 0.312 | 12.700 |
| | 3/8 | 0.375 | 14.720 |
| 5 x 2 | 11 | 0.120 | 5.610 |
| | 3/16 | 0.188 | 8.150 |
| | 1/4 | 0.250 | 10.510 |
| | 5/16 | 0.312 | 12.700 |
| | 3/8 | 0.375 | 14.710 |
| 5 x 3 | 11 | 0.120 | 6.220 |
| | 3/16 | 0.188 | 9.420 |
| | 1/4 | 0.250 | 12.210 |

Continued on next page



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Rectangular Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|-------------|--------------|------------------|---------------------|
| 5 x 3 | 5/16 | 0.312 | 14.830 |
| | 3/8 | 0.375 | 17.270 |
| | 1/2 | 0.500 | 21.630 |
| 5 x 4 | 3/16 | 0.188 | 10.700 |
| | 1/4 | 0.250 | 13.910 |
| | 5/16 | 0.312 | 16.960 |
| 5 x 4 | 3/8 | 0.375 | 19.820 |
| | 11 | 0.120 | 6.220 |
| | 3/16 | 0.188 | 9.420 |
| 6 x 2 | 1/4 | 0.250 | 12.210 |
| | 5/16 | 0.312 | 14.830 |
| | 3/8 | 0.375 | 17.270 |
| 6 x 3 | 3/16 | 0.188 | 10.700 |
| | 1/4 | 0.250 | 13.910 |
| | 5/16 | 0.312 | 16.960 |
| 6 x 3 | 3/8 | 0.375 | 19.820 |
| | 1/2 | 0.500 | 25.030 |
| | 3/16 | 0.188 | 11.970 |
| 6 x 4 | 1/4 | 0.250 | 15.620 |
| | 5/16 | 0.312 | 19.080 |
| | 3/8 | 0.375 | 22.370 |
| 6 x 4 | 1/2 | 0.500 | 28.430 |
| | 3/16 | 0.188 | 11.970 |
| | 1/4 | 0.250 | 15.620 |
| 7 x 3 | 5/16 | 0.312 | 19.080 |
| | 3/8 | 0.375 | 22.370 |

Continued on next page

Rectangular Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|-------------|--------------|------------------|---------------------|
| 7 x 4 | 3/16 | 0.188 | 13.250 |
| | 1/4 | 0.250 | 17.320 |
| | 5/16 | 0.312 | 21.210 |
| | 3/8 | 0.375 | 24.930 |
| 7 x 5 | 3/16 | 0.188 | 14.530 |
| | 1/4 | 0.250 | 19.020 |
| | 5/16 | 0.312 | 23.340 |
| | 3/8 | 0.375 | 27.480 |
| | 1/2 | 0.500 | 35.240 |
| 8 x 2 | 3/16 | 0.188 | 11.970 |
| | 1/4 | 0.250 | 15.620 |
| | 5/16 | 0.312 | 19.080 |
| | 3/8 | 0.375 | 22.370 |
| 8 x 3 | 3/16 | 0.188 | 13.250 |
| | 1/4 | 0.250 | 17.320 |
| | 5/16 | 0.312 | 21.210 |
| | 3/8 | 0.375 | 24.930 |
| | 1/2 | 0.500 | 31.840 |
| 8 x 4 | 3/16 | 0.188 | 14.530 |
| | 1/4 | 0.250 | 19.020 |
| | 5/16 | 0.312 | 23.340 |
| | 3/8 | 0.375 | 27.480 |
| | 1/2 | 0.500 | 35.240 |
| | 5/8 | 0.625 | 42.300 |
| 8 x 6 | 3/16 | 0.188 | 17.080 |
| | 1/4 | 0.250 | 22.420 |

Continued on next page



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Rectangular Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|-------------|--------------|------------------|---------------------|
| 8 x 6 | 5/16 | 0.312 | 27.590 |
| | 3/8 | 0.375 | 32.580 |
| | 1/2 | 0.500 | 42.050 |
| 10 x 2 | 3/16 | 0.188 | 14.530 |
| | 1/4 | 0.250 | 19.020 |
| 10 x 4 | 3/16 | 0.188 | 17.080 |
| | 1/4 | 0.250 | 22.420 |
| | 5/16 | 0.312 | 27.590 |
| | 3/8 | 0.375 | 32.580 |
| 10 x 5 | 1/2 | 0.500 | 42.050 |
| | 3/16 | 0.188 | 18.350 |
| | 1/4 | 0.250 | 24.120 |
| 10 x 6 | 5/16 | 0.312 | 29.720 |
| | 3/8 | 0.375 | 35.140 |
| | 3/16 | 0.188 | 19.630 |
| | 1/4 | 0.250 | 25.820 |
| 10 x 8 | 5/16 | 0.312 | 31.840 |
| | 3/8 | 0.375 | 37.690 |
| | 1/2 | 0.500 | 48.850 |
| | 3/16 | 0.188 | 22.180 |
| 12 x 2 | 1/4 | 0.250 | 29.290 |
| | 5/16 | 0.312 | 36.380 |
| | 3/8 | 0.375 | 42.790 |
| | 1/2 | 0.500 | 55.660 |

Continued on next page

Rectangular Tubing (cont.)

| Size | Gauge | Thickness | Wgt. Per Ft. |
|--------|-------|-----------|--------------|
| 12 x 2 | 3/8 | 0.375 | 32.580 |
| | 1/2 | 0.500 | 42.050 |
| 12 x 4 | 3/16 | 0.188 | 19.630 |
| | 1/4 | 0.250 | 25.820 |
| | 5/16 | 0.312 | 31.840 |
| | 3/8 | 0.375 | 37.690 |
| 12 x 6 | 1/2 | 0.500 | 48.850 |
| | 3/16 | 0.188 | 22.180 |
| | 1/4 | 0.250 | 29.230 |
| 12 x 8 | 5/16 | 0.312 | 36.100 |
| | 3/8 | 0.375 | 42.790 |
| | 1/2 | 0.500 | 55.660 |
| | 5/8 | 0.625 | 67.820 |
| | 3/16 | 0.188 | 24.730 |
| 12 x 8 | 1/4 | 0.250 | 32.630 |
| | 5/16 | 0.312 | 40.350 |
| | 3/8 | 0.375 | 47.900 |
| | 1/2 | 0.500 | 62.460 |

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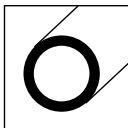
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PIPE

Available in welded and seamless, in black and galvanized, with plain and threaded ends. See Page 62 for Fittings and Flanges.



Pipe Dimensions & Weights

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 1/8 | 0.405 | 10 | | 0.049 | 0.186 |
| | | 40 | Std. | 0.068 | 0.244 |
| | | 80 | Ex. Hvy. | 0.095 | 0.315 |
| 1/4 | 0.540 | 10 | | 0.065 | 0.329 |
| | | 40 | Std. | 0.088 | 0.424 |
| | | 80 | Ex. Hvy. | 0.119 | 0.535 |
| 3/8 | 0.675 | 5 | | 0.049 | 0.328 |
| | | 10 | | 0.065 | 0.423 |
| | | 40 | Std. | 0.091 | 0.567 |
| | | 80 | Ex. Hvy. | 0.126 | 0.738 |
| 1/2 | 0.840 | 5 | | 0.065 | 0.538 |
| | | 10 | | 0.083 | 0.671 |
| | | 40 | Std. | 0.109 | 0.851 |
| | | 80 | Ex. Hvy. | 0.147 | 1.088 |
| | | 160 | | 0.187 | 1.304 |
| | | XXH | | 0.294 | 1.714 |

Continued on next page

Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 3/4 | 1.050 | 5 | | 0.065 | 0.684 |
| | | 10 | | 0.083 | 0.857 |
| | | 40 | Std. | 0.113 | 1.131 |
| | | 80 | Ex. Hvy. | 0.154 | 1.474 |
| | | 160 | | 0.218 | 1.937 |
| | | XXH | | 0.308 | 2.441 |
| 1 | 1.315 | 5 | | 0.065 | 0.868 |
| | | 10 | | 0.109 | 1.404 |
| | | 40 | Std. | 0.133 | 1.679 |
| | | 80 | Ex. Hvy. | 0.179 | 2.172 |
| | | 160 | | 0.250 | 2.844 |
| | | XXH | | 0.358 | 3.659 |
| 1 1/4 | 1.660 | 5 | | 0.065 | 1.107 |
| | | 10 | | 0.109 | 1.806 |
| | | 40 | Std. | 0.140 | 2.273 |
| | | 80 | Ex. Hvy. | 0.191 | 2.997 |
| | | 160 | | 0.250 | 3.765 |
| | | XXH | | 0.382 | 5.214 |
| 1 1/2 | 1.900 | 5 | | 0.065 | 1.274 |
| | | 10 | | 0.109 | 2.085 |
| | | 40 | Std. | 0.145 | 2.718 |
| | | 80 | Ex. Hvy. | 0.200 | 3.631 |
| | | 160 | | 0.281 | 4.859 |
| | | XXH | | 0.400 | 6.408 |

Continued on next page



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Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 2 | 2.375 | 5 | | 0.065 | 1.604 |
| | | 10 | | 0.109 | 2.638 |
| | | 40 | Std. | 0.154 | 3.653 |
| | | 80 | Ex. Hvy. | 0.218 | 5.022 |
| | | 160 | | 0.343 | 7.444 |
| | | XXH | | 0.436 | 9.029 |
| 2 1/2 | 2.875 | 5 | | 0.083 | 2.475 |
| | | 10 | | 0.120 | 3.531 |
| | | 40 | Std. | 0.203 | 5.793 |
| | | 80 | Ex. Hvy. | 0.276 | 7.661 |
| | | 160 | | 0.375 | 10.010 |
| | | XXH | | 0.552 | 13.690 |
| 3 | 3.500 | 5 | | 0.083 | 3.030 |
| | | 10 | | 0.120 | 4.332 |
| | | 40 | Std. | 0.216 | 7.576 |
| | | 80 | Ex. Hvy. | 0.300 | 10.250 |
| | | 160 | | 0.438 | 14.320 |
| | | XXH | | 0.600 | 18.580 |
| 3 1/2 | 4.000 | 5 | | 0.083 | 3.472 |
| | | 10 | | 0.120 | 4.973 |
| | | 40 | Std. | 0.226 | 9.109 |
| | | 80 | Ex. Hvy. | 0.318 | 12.500 |
| | | XXH | | 0.636 | 22.850 |
| | | 4 | 4.500 | 5 | |

Continued on next page

Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 4 | 4.500 | 10 | | 0.120 | 5.613 |
| | | 40 | Std. | 0.237 | 10.790 |
| | | 80 | Ex. Hvy. | 0.337 | 14.980 |
| | | 120 | | 0.438 | 19.000 |
| | | 160 | | 0.531 | 22.510 |
| | | XXH | | 0.674 | 27.540 |
| 5 | 5.563 | 5 | | 0.109 | 6.349 |
| | | 10 | | 0.134 | 7.770 |
| | | 30 | | 0.250 | 14.190 |
| | | 40 | Std. | 0.258 | 14.620 |
| | | 80 | Ex. Hvy. | 0.375 | 20.780 |
| | | 120 | | 0.500 | 27.040 |
| | | 160 | | 0.625 | 32.960 |
| XXH | | 0.750 | 38.550 | | |
| 6 | 6.625 | 5 | | 0.109 | 7.585 |
| | | 10 | | 0.134 | 9.289 |
| | | 40 | Std. | 0.280 | 18.970 |
| | | 80 | Ex. Hvy. | 0.432 | 28.570 |
| | | 120 | | 0.562 | 36.390 |
| | | 160 | | 0.718 | 45.300 |
| | | XXH | | 0.864 | 53.160 |
| 8 | 8.625 | 5 | | 0.109 | 9.914 |
| | | 10 | | 0.148 | 13.400 |
| | | 20 | | 0.250 | 22.360 |

Continued on next page



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Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 8 | 8.625 | 30 | | 0.277 | 24.700 |
| | | 40 | Std. | 0.322 | 28.550 |
| | | 60 | | 0.406 | 35.640 |
| | | 80 | Ex. Hvy. | 0.500 | 43.390 |
| | | 100 | | 0.593 | 50.870 |
| | | 120 | | 0.718 | 60.930 |
| | | 140 | | 0.812 | 67.760 |
| | | XXH | | 0.875 | 72.420 |
| 10 | 10.750 | 5 | | 0.134 | 15.190 |
| | | 10 | | 0.165 | 18.700 |
| | | 20 | | 0.250 | 28.040 |
| | | 30 | | 0.307 | 34.240 |
| | | 40 | Std. | 0.365 | 40.480 |
| | | 60 | Ex. Hvy. | 0.500 | 54.740 |
| | | 80 | | 0.593 | 64.330 |
| | | 100 | | 0.718 | 76.930 |
| | | 120 | | 0.843 | 89.200 |
| | | 140 | XXH | 1.000 | 104.10 |
| 12 | 12.750 | 5 | | 0.165 | 22.180 |
| | | 10 | | 0.180 | 24.200 |
| | | 20 | | 0.250 | 33.380 |
| | | 30 | | 0.330 | 43.770 |
| | | | | | |

Continued on next page

Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 12 | 12.750 | | Std. | 0.375 | 49.560 |
| | | 40 | | 0.406 | 53.530 |
| | | | Ex. Hvy. | 0.500 | 65.420 |
| | | 60 | | 0.562 | 73.160 |
| | | 80 | | 0.687 | 88.510 |
| | | 100 | | 0.843 | 107.200 |
| | | 120 | | 1.000 | 125.500 |
| | | 140 | | 1.125 | 139.700 |
| 14 | 14.000 | 10 | | 0.250 | 36.710 |
| | | 20 | | 0.312 | 45.680 |
| | | 30 | Std. | 0.375 | 54.570 |
| | | 40 | | 0.438 | 63.370 |
| | | | Ex. Hvy. | 0.500 | 72.090 |
| | | 60 | | 0.593 | 84.910 |
| | | 80 | | 0.750 | 106.100 |
| | | 100 | | 0.937 | 130.700 |
| | | 120 | | 1.093 | 150.700 |
| | | 140 | | 1.250 | 170.200 |
| 16 | 16.000 | 10 | | 0.250 | 42.050 |
| | | 20 | | 0.312 | 52.360 |
| | | 30 | Std. | 0.375 | 62.580 |
| | | 40 | Ex. Hvy. | 0.500 | 82.770 |

Continued on next page



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Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 16 | 16.00 | 60 | | 0.656 | 107.500 |
| | | 80 | | 0.843 | 136.500 |
| | | 100 | | 1.031 | 164.800 |
| | | 120 | | 1.218 | 192.300 |
| | | 140 | | 1.438 | 223.500 |
| | | 160 | | 1.593 | 245.100 |
| 18 | 18.000 | 10 | | 0.250 | 47.390 |
| | | 20 | | 0.312 | 59.030 |
| | | | Std. | 0.375 | 70.590 |
| | | 30 | | 0.438 | 82.060 |
| | | | Ex. Hvy. | 0.500 | 93.450 |
| | | 40 | | 0.562 | 104.800 |
| | | 60 | | 0.750 | 138.200 |
| | | 80 | | 0.937 | 170.800 |
| | | 100 | | 1.156 | 208.000 |
| | | 120 | | 1.375 | 244.100 |
| | | 140 | | 1.562 | 274.200 |
| | | 160 | | 1.781 | 308.500 |
| 20 | 20.000 | 10 | | 0.250 | 52.730 |
| | | 20 | Std. | 0.375 | 78.600 |
| | | 30 | Ex. Hvy. | 0.500 | 104.100 |
| | | 40 | | 0.593 | 122.900 |
| | | 60 | | 0.812 | 166.400 |
| | | 80 | | 1.031 | 208.900 |

Continued on next page

Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 20 | 20.000 | 100 | | 1.281 | 256.100 |
| | | 120 | | 1.500 | 296.400 |
| | | 140 | | 1.750 | 341.100 |
| | | 160 | | 1.969 | 379.200 |
| 24 | 24.000 | 10 | | 0.250 | 63.410 |
| | | 20 | Std. | 0.375 | 94.620 |
| | | | Ex. Hvy. | 0.500 | 125.500 |
| | | 30 | | 0.562 | 140.800 |
| | | 40 | | 0.687 | 171.200 |
| | | 60 | | 0.968 | 238.100 |
| | | 80 | | 1.218 | 296.400 |
| | | 100 | | 1.531 | 367.400 |
| | | 120 | | 1.812 | 429.400 |
| | | 140 | | 2.062 | 483.100 |
| 160 | | 2.343 | 541.900 | | |
| 26 | 26.000 | 10 | | 0.312 | 85.600 |
| | | | Std. | 0.375 | 102.630 |
| | | 20 | Ex. Hvy. | 0.500 | 136.170 |
| 28 | 28.000 | 10 | | 0.312 | 92.260 |
| | | | Std. | 0.375 | 110.640 |
| | | 20 | Ex. Hvy. | 0.500 | 146.850 |
| | | 30 | | 0.625 | 182.730 |
| 30 | 30.000 | 10 | | 0.312 | 98.930 |
| | | | Std. | 0.375 | 118.650 |

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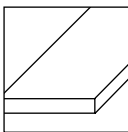
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Pipe Dimensions & Weights (cont.)

| Nominal Pipe Size, Inches | Outside Dia., Inches | I.P.S. Sch. | Std. XHvy. | Wall Thk., Inches | Weight Per Ft., Pounds |
|---------------------------|----------------------|-------------|------------|-------------------|------------------------|
| 30 | 30.000 | 20 | Ex. Hvy. | 0.500 | 157.530 |
| | | 30 | | 0.625 | 196.080 |
| 32 | 32.000 | 10 | | 0.312 | 105.590 |
| | | | Std. | 0.375 | 126.660 |
| | | 20 | Ex. Hvy. | 0.500 | 168.210 |
| | | | | 0.625 | 209.430 |
| | | | | 0.688 | 230.080 |
| 34 | 34.000 | 10 | | 0.312 | 112.250 |
| | | | Std. | 0.375 | 134.670 |
| | | 20 | Ex. Hvy. | 0.500 | 178.890 |
| | | | | 0.625 | 222.780 |
| | | | | 0.688 | 244.770 |
| 36 | 36.000 | 10 | | 0.312 | 118.920 |
| | | | Std. | 0.375 | 142.680 |
| | | 20 | Ex. Hvy. | 0.500 | 189.570 |
| | | | | 0.625 | 236.130 |
| | | | | 0.750 | 282.350 |
| 42 | 42.000 | | Std. | 0.375 | 166.710 |
| | | | Ex. Hvy. | 0.500 | 221.610 |
| 48 | 48.000 | | Std. | 0.375 | 190.740 |
| | | | Ex. Hvy. | 0.500 | 253.650 |

PLATE

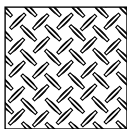
48" to 120" Wide. Cut to Size As Required.



Plate

| Thickness | Wgt. Per Sq. Ft. | Thickness | Wgt. Per Sq. Ft. |
|-----------|------------------|-----------|------------------|
| 3/16 | 7.66 | 2 1/2 | 102.10 |
| 1/4 | 10.21 | 2 3/4 | 112.31 |
| 5/16 | 12.76 | 3 | 122.52 |
| 3/8 | 15.32 | 3 1/4 | 132.73 |
| 7/16 | 17.87 | 3 1/2 | 142.93 |
| 1/2 | 20.42 | 3 3/4 | 153.15 |
| 5/8 | 25.52 | 4 | 163.35 |
| 3/4 | 30.63 | 4 1/2 | 183.80 |
| 7/8 | 35.73 | 5 | 204.20 |
| 1 | 40.84 | 5 1/2 | 224.62 |
| 1 1/8 | 45.94 | 6 | 245.04 |
| 1 1/4 | 51.05 | 6 1/2 | 265.45 |
| 1 3/8 | 56.16 | 7 | 285.87 |
| 1 1/2 | 61.26 | 8 | 326.71 |
| 1 3/4 | 71.47 | 9 | 367.55 |
| 2 | 81.68 | 10 | 408.38 |
| 2 1/8 | 86.78 | 12 | 490.06 |
| 2 1/4 | 91.89 | | |

FLOOR PLATE

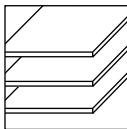


Floor Plate

| Thickness Inches | Wgt. Per Sq. Ft. |
|------------------|------------------|
| 16 Ga | 3.000 |
| 14 Ga | 3.750 |
| 1/8 | 6.160 |
| 3/16 | 8.710 |
| 1/4 | 11.260 |
| 5/16 | 13.810 |
| 3/8 | 16.370 |
| 1/2 | 21.470 |
| 5/8 | 26.580 |
| 3/4 | 31.680 |
| 1 | 41.890 |

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SHEET



| Carbon Steel | | | Galvanized | |
|-----------------|--------|------------------|------------------|------------------|
| Thickness Gauge | Inches | Wgt. Per Sq. Ft. | Thickness Inches | Wgt. Per Sq. Ft. |
| 10 | 0.134 | 5.625 | 0.138 | 5.781 |
| 11 | 0.119 | 5.000 | 0.123 | 5.156 |
| 12 | 0.104 | 4.375 | 0.108 | 4.531 |
| 14 | 0.074 | 3.125 | 0.078 | 3.281 |
| 16 | 0.059 | 2.500 | 0.063 | 2.656 |
| 18 | 0.047 | 2.000 | 0.051 | 2.156 |
| 20 | 0.035 | 1.500 | 0.039 | 1.656 |
| 22 | 0.029 | 1.250 | 0.033 | 1.406 |
| 24 | 0.023 | 1.000 | 0.027 | 1.156 |
| 26 | 0.017 | 0.750 | 0.021 | 0.906 |
| 28 | 0.014 | 0.625 | 0.018 | 0.781 |
| 30 | 0.012 | 0.500 | 0.015 | 0.656 |

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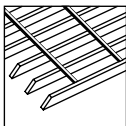
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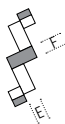
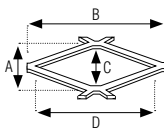
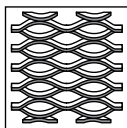
Carbon Steel - 19W4 Spacing

| Size | Wgt. Per Sq. Ft. |
|--------------|------------------|
| 3/4 x 1/8 | 3.90 |
| 3/4 x 3/16 | 5.60 |
| 1 x 1/8 | 5.00 |
| 1 x 3/16 | 7.20 |
| 1 x 1/4 | 9.50 |
| 1 1/4 x 1/8 | 6.10 |
| 1 1/4 x 3/16 | 8.90 |
| 1 1/4 x 1/4 | 11.40 |
| 1 1/2 x 1/8 | 7.20 |
| 1 1/2 x 3/16 | 10.50 |
| 1 1/2 x 1/4 | 13.50 |
| 2 x 3/16 | 13.90 |
| 2 x 1/4 | 18.10 |

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Regular Expanded Metal • Carbon Steel - ASTM A569/569M

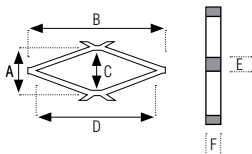
| Style | Wgt. in lbs. Per C.S.F. | | Center to Center | | Size of Opening | | Size of Strands | | |
|--------|-------------------------|-------|------------------|------------|-----------------|------------|-----------------|----------|-------|
| | Plain | Galv. | (A) Width | (B) Length | (C) Width | (D) Length | (E) Width | (F) Thk. | |
| 1/4" | #18 | 114 | 171 | 0.255 | 1.00 | 0.172 | 0.719 | 0.073 | 0.048 |
| 1/2" | #18 | 70 | 85 | 0.500 | 1.20 | 0.438 | 0.938 | 0.088 | 0.048 |
| | #13 | 147 | 173 | 0.500 | 1.20 | 0.313 | 0.938 | 0.096 | 0.092 |
| 3/4" | #16 | 54 | 65 | 0.923 | 2.00 | 0.813 | 1.750 | 0.099 | 0.060 |
| | #13 | 80 | 92 | 0.923 | 2.00 | 0.750 | 1.688 | 0.096 | 0.092 |
| | #9 | 180 | 195 | 0.923 | 2.00 | 0.688 | 1.563 | 0.148 | 0.134 |
| 1" | #16 | 44 | 51 | 1.090 | 2.40 | 1.000 | 2.063 | 0.096 | 0.060 |
| 1 1/2" | #13 | 60 | 68 | 1.330 | 3.00 | 1.188 | 2.500 | 0.104 | 0.092 |
| | #9 | 120 | 131 | 1.330 | 3.00 | 1.125 | 2.375 | 0.142 | 0.135 |
| | #6 | 250 | 273 | 1.330 | 3.00 | 1.000 | 2.313 | 0.201 | 0.198 |

Continued on next page

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with a minimum order.**

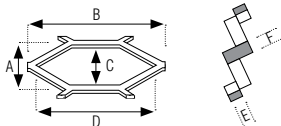


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Flattened Expanded Metal • Carbon Steel - ASTM A569/569M

| Style | Wgt. in lbs. Per C.S.F. | | Center to Center | | Size of Opening | | Size of Strands | | |
|--------|-------------------------|-------|------------------|------------|-----------------|------------|-----------------|----------|-------|
| | Plain | Galv. | (A) Width | (B) Length | (C) Width | (D) Length | (E) Width | (F) Thk. | |
| 1/4" | #18 | 111 | 165 | 0.255 | 1.03 | 0.094 | 0.688 | 0.086 | 0.040 |
| 1/2" | #18 | 66 | 88 | 0.500 | 1.26 | 0.281 | 1.000 | 0.109 | 0.039 |
| | #13 | 140 | 162 | 0.500 | 1.26 | 0.250 | 1.000 | 0.122 | 0.070 |
| 3/4" | #16 | 51 | 61 | 0.923 | 2.10 | 0.750 | 1.750 | 0.115 | 0.048 |
| | #13 | 75 | 86 | 0.923 | 2.10 | 0.688 | 1.782 | 0.119 | 0.070 |
| | #9 | 171 | 186 | 0.923 | 2.10 | 0.563 | 1.688 | 0.164 | 0.120 |
| 1" | #16 | 41 | 50 | 1.090 | 2.56 | 0.875 | 2.250 | 0.115 | 0.048 |
| 1 1/2" | #13 | 57 | 68 | 1.330 | 3.20 | 1.063 | 2.750 | 0.138 | 0.070 |
| | #9 | 111 | 128 | 1.330 | 3.20 | 1.000 | 2.563 | 0.175 | 0.110 |
| | #6 | 221 | 267 | 1.330 | 3.20 | 1.000 | 2.563 | 0.195 | 0.170 |



Expanded Metal Grating • Carbon Steel - ASTM A569/569M

| Style | Wgt. in lbs. Per C.S.F. | | Center to Center | | Size of Opening | | Size of Strands | |
|--------|-------------------------|-------|------------------|------------|-----------------|------------|-----------------|----------|
| | Plain | Galv. | (A) Width | (B) Length | (C) Width | (D) Length | (E) Width | (F) Thk. |
| 3.00 # | 300 | 320 | 1.333 | 5.33 | 0.938 | 3.438 | 0.261 | 0.183 |
| 3.14 # | 314 | 334 | 2.000 | 6.00 | 1.625 | 4.875 | 0.308 | 0.250 |

Continued on next page

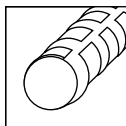
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Expanded Metal Grating • Carbon Steel - ASTM A569/569M (cont.)

| Style | Wgt. in lbs. Per C.S.F. | | Center to Center | | Size of Opening | | Size of Strands | |
|--------|----------------------------|-------|---------------------|---------------|--------------------|---------------|--------------------|-------------|
| | Plain | Galv. | (A) Width | (B) Length | (C) Width | (D) Length | (E) Width | (F) Thk. |
| 4.00 # | 400 | 430 | 1.333 | 5.33 | 0.938 | 3.438 | 0.297 | 0.215 |
| 4.27 # | 427 | 457 | 1.412 | 4.00 | 1.000 | 2.875 | 0.297 | 0.250 |
| 5.00 # | 500 | 550 | 1.333 | 5.33 | 0.813 | 3.375 | 0.327 | 0.250 |
| 6.25 # | 625 | 685 | 1.412 | 5.33 | 0.813 | 3.375 | 0.347 | 0.312 |
| 7.00 # | 700 | 750 | 1.412 | 5.33 | 0.813 | 3.375 | 0.388 | 0.312 |

REBAR

Fabricated to specification as needed.

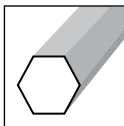


Rebar

| No. | Size | Wgt. Per Ft. | Wgt. Per 20' |
|-----|------|--------------|--------------|
| 3 | 3/8 | 0.376 | 7.52 |
| 4 | 1/2 | 0.668 | 13.36 |
| 5 | 5/8 | 1.043 | 20.86 |
| 6 | 3/4 | 1.502 | 30.04 |
| 7 | 7/8 | 2.044 | 40.88 |
| 8 | 1 | 2.670 | 53.40 |

Continued on next page

HEX BAR



Hex Bar

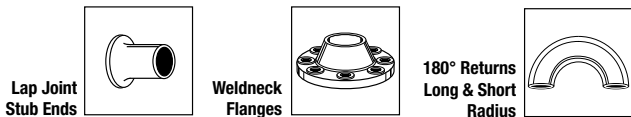
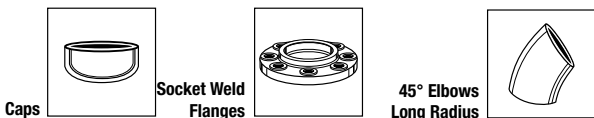
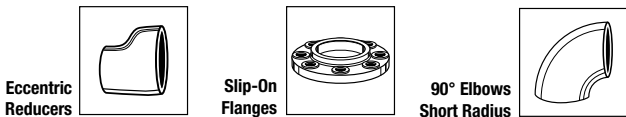
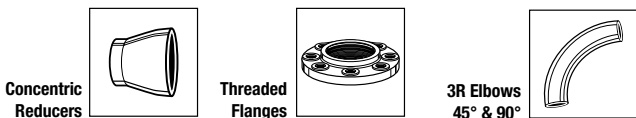
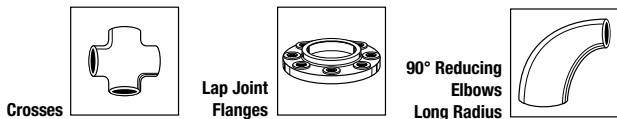
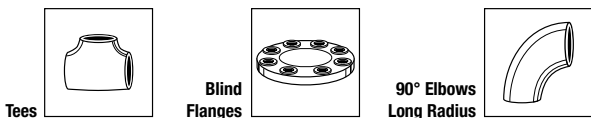
| Size | Wgt. Per Ft. | Wgt. Per 12' | Size | Wgt. Per Ft. | Wgt. Per 12' |
|-------|-----------------|-----------------|-------|-----------------|-----------------|
| 1/4 | 0.184 | 2.21 | 1 1/8 | 3.727 | 44.72 |
| 5/16 | 0.288 | 3.46 | 1 1/4 | 4.601 | 55.21 |
| 3/8 | 0.414 | 4.97 | 1 3/8 | 5.567 | 66.80 |
| 7/16 | 0.564 | 6.77 | 1 1/2 | 6.625 | 79.50 |
| 1/2 | 0.736 | 8.83 | 1 5/8 | 7.775 | 93.30 |
| 9/16 | 0.932 | 11.18 | 1 3/4 | 9.018 | 108.22 |
| 5/8 | 1.150 | 13.80 | 1 7/8 | 10.350 | 124.20 |
| 11/16 | 1.392 | 16.70 | 2 | 11.780 | 141.36 |
| 3/4 | 1.656 | 19.87 | 2 1/4 | 14.910 | 178.92 |
| 7/8 | 2.254 | 27.05 | 2 1/2 | 18.400 | 220.80 |
| 15/16 | 2.588 | 31.06 | 3 | 26.500 | 318.00 |
| 1 | 2.945 | 35.34 | | | |

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Metal Weight Conversions

| | Multiply Steel Weight by | Density Lbs./In ³ | | Multiply Steel Weight by | Density Lbs./In ³ |
|------------------|-----------------------------|---------------------------------|-----------------------|-----------------------------|---------------------------------|
| Aluminum | | | Nickel (cont.) | | |
| 1100 | .3462 | .098 | 600 | 1.072 | .306 |
| 2011 | .3604 | .102 | 625 | 1.075 | .305 |
| 2014 | .3568 | .101 | 800H | 1.012 | .287 |
| 2017 | .3568 | .101 | 800AT | 1.012 | .287 |
| 2024 | .3533 | .100 | 825 | 1.037 | .294 |
| 3003 | .3498 | .099 | 330 | 1.012 | .287 |
| 5005 | .3462 | .098 | 20 | 1.030 | .292 |
| 5052 | .3427 | .097 | C-276 | 1.132 | .321 |
| 5056 | .3356 | .095 | 2545MD | 1.012 | .287 |
| 5083 | .3392 | .096 | Magnesium | .229 | .065 |
| 5086 | .3392 | .096 | Beryllium | .236 | .067 |
| 6061 | .3462 | .098 | Titanium | .575 | .163 |
| 6063 | .3462 | .098 | Zirconium | .812 | .230 |
| 7050 | .3568 | .101 | Cast Iron | .911 | .258 |
| 7075 | .3568 | .101 | Zinc | .911 | .258 |
| 7178 | .3604 | .102 | Brass | 1.084 | .307 |
| Stainless | | | Columbium | 1.095 | .310 |
| 300 Series | 1.030 | .292 | Copper | 1.144 | .324 |
| 400 Series | 1.010 | .286 | Molybdenum | 1.303 | .369 |
| Nickel | | | Silver | 1.339 | .379 |
| 200 | 1.132 | .321 | Lead | 1.448 | .410 |
| 400 | 1.125 | .318 | Tantalum | 2.120 | .600 |
| R-405 | 1.121 | .318 | Tungsten | 2.462 | .697 |
| K-500 | 1.075 | .305 | Gold | 2.466 | .698 |

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Metric Conversion Factors

Metric to English

| | |
|---------------------------|--------------------|
| Kilograms x 2.2046 | = pounds |
| Kilograms ÷ 907.18 | = tons (2000 lbs.) |
| Millimeters x 0.03937 | = inches |
| Millimeters ÷ 25.4 | = inches |
| Meters x 39.37 | = inches |
| Meters x 3.281 | = feet |
| Meters ÷ 1.094 | = yards |
| Sq. millimeters x 0.00155 | = sq. inches |
| Sq. millimeters ÷ 645.16 | = sq. inches |

English to Metric

| | |
|---------------------------|--------------------------------------|
| Pounds ÷ 2.2046 | = kilograms (kg) |
| Tons (2000 lbs.) x 907.18 | = kilograms (kg) |
| Inches ÷ 0.03937 | = millimeters (mm) |
| Inches x 25.4 | = millimeters (mm) |
| Inches ÷ 39.37 | = meters (m) |
| Feet ÷ 3.281 | = meters (m) |
| Yards x 1.094 | = meters (m) |
| Sq. inches ÷ 0.00155 | = sq. millimeters (mm ²) |
| Sq. inches x 645.16 | = sq. millimeters (mm ²) |

English and Metric Equivalents

Weights

| | |
|-------------------------|---|
| 1 pound (1 lb.) | = 453.6 grams, or 0.4536 kilograms (kg) |
| 1 lb. Per Ft. (lb./ft) | = 1.4882 kilograms Per meter (kg/m) |
| 1 net ton (2000 lbs.) | = 907.18 kilograms (kg) |
| 1 gross ton (2240 lbs.) | = 1016 kilograms, or 1.0160 metric tons |
| 1 ounce Per sq. Ft. | = 305.15 grams, or 0.30515 kilograms Per sq. meter (kg/m ²) |
| 1 kilogram (kg) | = 2.2046 lbs. |
| 1 kilogram Per meter | = 0.67197 lbs. Per Ft. |
| 1 metric ton (1000 kg) | = 2204.6 lbs = 1.10231 net tons |

Measures

| | |
|-------------------------------------|-----------------------------|
| 1 inch (in.) | = 25.40 millimeters (mm) |
| 1 sq. inch (in. ²) | = 645.16 square millimeters |
| 1 sq. Ft. (ft. ²) | = 0.092003 square meter |
| 1 millimeter (mm) | = 0.03937 inch |
| 1 sq. millimeter (mm ²) | = 0.00155 sq. inch |
| 1 meter (m) | = 3.2808 feet |
| | = 1.09361 yards |
| 1 sq. meter (m ²) | = 10.7639 sq. feet |
| | = 1.196 sq. yards |

Temperature

Celsius (formerly called the centigrade scale)

tc = temperature (Celsius) in degrees

tf = temperature (Fahrenheit) in degrees

$$tc = \frac{tf - 32}{1.8} \quad tf = (tc \times 1.8) + 32$$



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Geometric Formulas

Circle

Area = Square of Diameter x .7854 or Square of Radius x 3.1416

Circumference = Diameter x 3.1416

Diameter = Circumference x .3183

Doubling diameter increases area four times; tripling diameter increases area nine times, etc.

Square

Area = Square of Side

Diagonal = Side x 1.4142

Side = Diagonal x .7071

Square Inscribed in Circle

Side of Square = Diameter of Circle x .7071 or Circumference of Circle x .2251

Diameter of Circle = Side of Square x 1.4142

Circumference of Circle = Side of Square x 4.4429

Square and Circle with Equal Area

Side of Square = Diameter of Circle x .8862

Diameter of Circle = Side of Square x 1.128

Circumference of Circle = Side of Square x 3.545

Rectangle

Area = Length x Width

Diagonal = Square root of sum of squares of Width and Length

Triangle

Area = 1/2 Base x Perpendicular Height

Hexagon (Equal Sides and Angles)

Area = Square of Distance across Flats x .866

Side = Distance across Flats x .577

Diagonal = Distance across Flats x 1.155 or Side x 2

Octagon (Equal Sides and Angles)

Area = Square of Distance across Flats x .828 or Square of Side x 4.828

Side = Diagonal x .383 or Distance across Flats x .414

Diagonal = Distance across Flats x 1.082 or Side x 2.613

Sphere

Area of Surface = Square of Diameter x 3.1416

Volume = Cube of Diameter x .5236

Cube

Area of Surface = Square of Side x 6

Volume = Cube of Side

Diagonal = Side x 1.732

Cylinder

Area of Curved Surface = Diameter x Length x 3.1416

Volume = Square of Diameter x Length x .7854

Cone

Area of Curved Surface = Diameter of Base x Slant Height x 1.5708

Volume = Diameter of Base Squared x Perpendicular Height x .2618 or Area of Base x 1/3 Perpendicular Height

Pyramid

Lateral Surface Area = 1/2 Perimeter of Base x Slant Height

Volume = 1/3 Area of Base x Perpendicular Height

Simple Weight Formulas

There are two methods for deriving weight of steel products. **Nominal weights** are based on the theoretical weight of steel taken as 40.84 pounds Per square Ft., one inch thick. **Standard weights** are based on experience, taking into consideration the various manufacturing practices. There may be some slight differences between the two weights and both can vary from the actual scale weight.

The following formulae are based upon Nominal weights and should be considered approximations rather than actual weights.

Solids

| | |
|------------------------------|---|
| Rounds | Diameter squared x 2.67 = Weight Per Linear Ft. |
| Squares | Size squared x 3.4 = Weight Per :inear Ft. |
| Hexagons* | Diameter squared x 2.945 = Weight Per linear Ft. |
| Octagons * | Diameter squared x 2.817 = Weight Per Linear Ft. |
| Flats-Plate and Strip | Thickness (inches) x width (inches) x 3.4 = Weight Per Linear Ft. Or Thickness (inches) x width (inches) x .2833 = Weight Per Linear inch |
| Sheet | Thickness (inches) x width (inches) x 3.485 = Weight Per Linear Ft. Or Thickness (inches) x width (inches) x .2904 = Weight Per Linear inch |
| Circles | Diameter squared x thickness (inches) x .2225 = Weight Per Circle |
| Coils | Outside diameter squared – inside diameter squared x .2223 = Weight Per inch of width |

*The diameter of hexagons and octagons is measured across the parallel flats.

Tubulars

| | | |
|---------------------------|---|--|
| Round Tubing | (D-T) 10.68 (T) | T = Nominal wall thickness D = Outside diameter |
| Square Tubing | (S-T) 13.6 (T) | S = Size |
| Rectangular Tubing | $13.6 \left(\frac{S1+S2}{2} - T \right) T$ | |



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Decimal and Metric Equivalents of Fractions of an Inch

| Fraction Inch | Decimal Inch | Millimeters | Fraction Inch | Decimal Inch | Millimeters |
|---------------|--------------|-------------|---------------|--------------|-------------|
| 1/64 | .015625 | 0.39688 | 33/64 | .515625 | 13.09690 |
| 1/32 | .03125 | 0.79375 | 17/32 | .53125 | 13.49378 |
| 3/64 | .046875 | 1.19063 | 35/64 | .546875 | 13.89065 |
| 1/16 | .0625 | 1.58750 | 9/16 | .5625 | 14.28753 |
| 5/64 | .078125 | 1.98438 | 37/64 | .578125 | 14.68440 |
| 3/32 | .09375 | 2.38125 | 19/32 | .59375 | 15.08128 |
| 7/64 | .109375 | 2.77813 | 39/64 | .609375 | 15.47816 |
| 1/8 | .1250 | 3.17501 | 5/8 | .6250 | 15.87503 |
| 9/64 | .140625 | 3.57188 | 41/64 | .640625 | 16.27191 |
| 5/32 | .15625 | 3.96876 | 21/32 | .65625 | 16.66878 |
| 11/64 | .171875 | 4.36563 | 43/64 | .671875 | 17.06566 |
| 3/16 | .1875 | 4.76251 | 11/16 | .6875 | 17.46253 |
| 13/64 | .203125 | 5.15939 | 45/64 | .703125 | 17.85941 |
| 7/32 | .21875 | 5.55626 | 23/32 | .71875 | 18.25629 |
| 15/64 | .234375 | 5.95314 | 47/64 | .734375 | 18.65316 |
| 1/4 | .2500 | 6.35001 | 3/4 | .7500 | 19.05004 |
| 17/64 | .265625 | 6.74689 | 49/64 | .765625 | 19.44691 |
| 9/32 | .28125 | 7.14376 | 25/32 | .78125 | 19.84379 |
| 19/64 | .296875 | 7.54064 | 51/64 | .796875 | 20.24067 |
| 5/16 | .3125 | 7.93752 | 13/16 | .8125 | 20.63754 |
| 21/64 | .328125 | 8.33439 | 53/64 | .828125 | 21.03442 |
| 11/32 | .34375 | 8.73127 | 27/32 | .84375 | 21.43129 |
| 23/64 | .359375 | 9.12814 | 55/64 | .859375 | 21.82817 |
| 3/8 | .3750 | 9.52502 | 7/8 | .8750 | 22.22504 |
| 25/64 | .390625 | 9.92189 | 57/64 | .890625 | 22.62192 |
| 13/32 | .40625 | 10.31877 | 29/32 | .90625 | 23.01880 |
| 27/64 | .421875 | 10.71565 | 59/64 | .921875 | 23.41567 |
| 7/16 | .4375 | 11.11252 | 15/16 | .9375 | 23.81255 |
| 29/64 | .453125 | 11.50940 | 61/64 | .953125 | 24.20942 |
| 15/32 | .46875 | 11.90627 | 31/32 | .96875 | 24.60630 |
| 31/64 | .484375 | 12.30315 | 63/64 | .984375 | 25.00318 |
| 1/2 | .5000 | 12.70003 | 1 | 1.0000 | 25.40005 |

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