



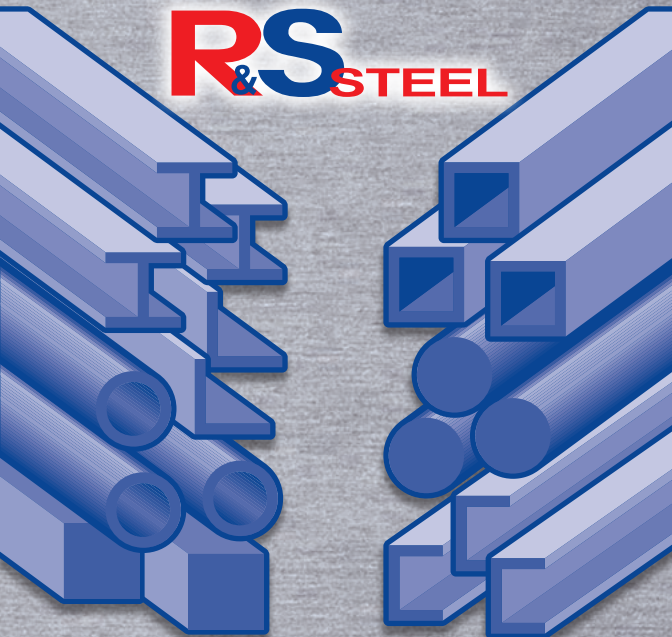
**TRIPLE-S STEEL
SUPPLY CO.**

INTSEL



S T E E L

**RS
& STEEL**



**METALS
REFERENCE
GUIDE**



The following pages represent sizes, weights, and dimensions of carbon steel, stainless steel and aluminum available from stock. With one of the largest non-mill inventories in the U.S.A., stocked in six service centers, we have what your project requires.



As an added service, all of our facilities maintain processing capabilities in-house. Whether you need material punched, flame cut, plasma cut, saw cut, sheared, shot blasted, painted, or bent, we can get the job done.






























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50 Years of Service!**



Metal Reference Guide

| STEEL | | ALUMINUM | |
|--|--|---|-----------------|
|  ANGLES | |  ANGLES | |
| Bar Angles 4 | | | 48 |
| Structural Angles . . . 5-6 | | | |
|  BAR GRATING | |  CHANNELS | |
| | | | 49 |
| | |  DIAMOND TREAD PLATES | |
| | | | 52 |
|  BEAMS | |  PIPE | |
| Junior Beams 8 | | | 54 |
| Standard Beams 7 | |  PLATES | |
| Wide Flange Beams . 8-15 | | | 52 |
|  CHANNELS | |  RECTANGULAR BARS | |
| Bar Channel 18 | | | 51 |
| MC Shapes (Car, Ship and Jr.) 17-18 | |  RECTANGULAR TUBE | |
| Stair Stringer 18 | | | 53 |
| Standard Channels . . . 16 | |  ROUND BARS | |
|  CONCRETE REINFORCING BARS | | | 49-50 |
| | |  SHEETS | |
| | | | 50 |
|  EXPANDED METAL | |  SQUARE TUBE | |
| Flattened 43 | | | 53 |
| Grating 43 | | | |
| Standard 42 | | | |
|  FLAT BARS | | | |
| | | | 22-24 |
|  FLOOR PLATES | | | |
| | | | 27,29 |
|  PERFORATED METAL | | | |
| | | | 42 |
|  PIPE | | | |
| | | | 36-41 |
|  PLATES | | | 26 |
|  ROUND BARS | | | 19-20 |
|  SHEETS | | | |
| Hot Rolled, Cold Rolled and Galvanized . . . 27-28 | | | |
|  SQUARE BARS | | | 20 |
|  STRIP | | | 21 |
|  TUBE | | | |
| Rectangular Tube . . 31-33 | | | |
| Round Tube 34 | | | |
| Square Tube 29-31 | | | |
|  UNIVERSAL MILL PLATES | | | 25 |
| STAINLESS STEEL <small>NEW!</small> | | | |
| Stainless Angles 44 | | | |
| Stainless Channels . . 45 | | | |
| Stainless Flats 45 | | | |
| Stainless Floor Plate . 46 | | | |
| Stainless Pipe 45 | | | |
| Stainless Plate 46 | | | |
| Stainless Round Bar . . 47 | | | |
| Stainless Sheet 46 | | | |
| Stainless Square Bar . 47 | | | |
| Stainless Square Tube . 47 | | | |
| | | Decimal Equivalents . . 58 | |
| | | English and Metric Equivalents 55 | |
| | | Geometric Formulas . . 56 | |
| | | Metric Conversion Factors 55 | |
| | | Permitted Variations in Straightness 59 | |
| | | Processing Capabilities 35 | |
| | | Weight Formulas 57 | |



BAR ANGLES

Also available galvanized



| A x B x C Sizes (inches) | Weight in Pounds | | |
|-----------------------------|------------------|---------|---------|
| | Per ft. | /20 ft. | /40 ft. |
| 1/2 x 1/2 x 1/8 | 0.38 | 7.6 | 15.2 |
| 5/8 x 5/8 x 1/8 | 0.48 | 9.6 | 19.2 |
| 3/4 x 3/4 x 1/8 | 0.59 | 11.8 | 23.6 |
| x 3/16 | 0.84 | 16.8 | 33.6 |
| 7/8 x 7/8 x 1/8 | 0.70 | 14.0 | 28.0 |
| 1 x 5/8 x 1/8 | 0.64 | 12.8 | 25.6 |
| x 3/4 x 1/8 | 0.70 | 14.0 | 28.0 |
| 1 x 1 x 1/8 | 0.80 | 16.0 | 32.0 |
| x 3/16 | 1.16 | 23.2 | 46.4 |
| x 1/4 | 1.49 | 29.8 | 59.6 |
| 1 -1/8 x 1 -1/8 x 1/8 | .900 | 18.0 | 36.0 |
| 1-1/4 x 1-1/4 x 1/8 | 1.01 | 20.2 | 40.4 |
| x 3/16 | 1.48 | 29.6 | 59.2 |
| x 1/4 | 1.92 | 38.4 | 76.8 |
| 1-3/8 x 7/8 x 1/8 | .91 | 18.2 | 36.4 |
| x 3/16 | 1.32 | 26.4 | 52.8 |
| 1-1/2 x 1-1/4 x 3/16 | 1.64 | 32.8 | 65.6 |
| 1-1/2 x 1-1/2 x 1/8 | 1.23 | 24.6 | 49.2 |
| x 3/16 | 1.80 | 36.0 | 72.0 |
| x 1/4 | 2.34 | 46.8 | 93.6 |
| x 3/8 | 3.35 | 67.0 | 134.0 |
| 1-3/4 x 1-1/4 x 1/8 | 1.23 | 24.6 | 49.2 |
| x 3/16 | 1.80 | 36.0 | 72.0 |
| x 1/4 | 2.34 | 46.8 | 93.6 |
| 1-3/4 x 1-3/4 x 1/8 | 1.44 | 28.8 | 57.6 |
| x 3/16 | 2.12 | 42.4 | 84.8 |
| x 1/4 | 2.77 | 55.4 | 110.8 |

| A x B x C Sizes (inches) | Weight in Pounds | | |
|-----------------------------|------------------|---------|---------|
| | Per ft. | /20 ft. | /40 ft. |
| 2 x 1-1/4 x 3/16 | 1.96 | 39.2 | 78.4 |
| x 1/4 | 2.55 | 51.0 | 102.0 |
| 2 x 1-1/2 x 1/8 | 1.44 | 28.8 | 57.6 |
| x 3/16 | 2.12 | 42.4 | 84.8 |
| x 1/4 | 2.77 | 55.4 | 110.8 |
| 2 x 2 x 1/8 | 1.65 | 33.0 | 66.0 |
| x 3/16 | 2.44 | 48.8 | 97.6 |
| x 1/4 | 3.19 | 63.8 | 127.6 |
| x 5/16 | 3.92 | 78.4 | 156.8 |
| x 3/8 | 4.70 | 94.0 | 188.0 |
| 2-1/4 x 1-1/2 x 3/16 | 2.28 | 45.6 | 91.2 |
| x 1/4 | 2.98 | 59.6 | 119.2 |
| 2-1/2 x 1-1/2 x 3/16 | 2.44 | 48.8 | 97.6 |
| x 1/4 | 3.19 | 63.8 | 127.6 |
| x 5/16 | 3.92 | 78.4 | 156.8 |
| 2-1/2 x 2 x 3/16 | 2.75 | 55.0 | 110.0 |
| x 1/4 | 3.62 | 72.4 | 144.8 |
| x 5/16 | 4.50 | 90.0 | 180.0 |
| x 3/8 | 5.30 | 106.0 | 212.0 |
| 2-1/2 x 2-1/2 x 3/16 | 3.07 | 61.4 | 122.8 |
| x 1/4 | 4.10 | 82.0 | 164.0 |
| x 5/16 | 5.00 | 100.0 | 200.0 |
| x 3/8 | 5.90 | 118.0 | 236.0 |
| x 1/2 | 7.70 | 154.0 | 308.0 |



STRUCTURAL ANGLES

Also available galvanized



| A x B x C Sizes (inches) | Weight in Pounds | | | A x B x C Sizes (inches) | Weight in Pounds | | |
|-----------------------------|------------------|---------|---------|-----------------------------|------------------|---------|---------|
| | Per ft. | /20 ft. | /40 ft. | | Per ft. | /20 ft. | /40 ft. |
| 3 x 2 x 3/16 | 3.1 | 62.0 | 124.0 | 4 x 3-1/2 x 1/4 | 6.2 | 124.0 | 248.0 |
| x 1/4 | 4.1 | 82.0 | 164.0 | x 5/16 | 7.7 | 154.0 | 308.0 |
| x 5/16 | 5.0 | 100.0 | 200.0 | x 3/8 | 9.1 | 182.0 | 364.0 |
| x 3/8 | 5.9 | 118.0 | 236.0 | x 1/2 | 11.9 | 238.0 | 476.0 |
| x 1/2 | 7.7 | 154.0 | 308.0 | x 5/8 | 14.7 | 294.0 | 588.0 |
| 3 x 2-1/2 x 3/16 | 3.39 | 67.8 | 135.6 | 4 x 4 x 1/4 | 6.6 | 132.0 | 264.0 |
| x 1/4 | 4.5 | 90.0 | 180.0 | x 5/16 | 8.2 | 164.0 | 328.0 |
| x 5/16 | 5.6 | 112.0 | 224.0 | x 3/8 | 9.8 | 196.0 | 392.0 |
| x 3/8 | 6.6 | 132.0 | 264.0 | x 1/2 | 12.8 | 256.0 | 512.0 |
| x 1/2 | 8.5 | 170.0 | 340.0 | x 5/8 | 15.7 | 314.0 | 628.0 |
| 3 x 3 x 3/16 | 3.71 | 74.2 | 148.4 | x 3/4 | 18.5 | 370.0 | 740.0 |
| x 1/4 | 4.9 | 98.0 | 196.0 | 5 x 3 x 1/4 | 6.6 | 132.0 | 264.0 |
| x 5/16 | 6.1 | 122.0 | 244.0 | x 5/16 | 8.2 | 164.0 | 328.0 |
| x 3/8 | 7.2 | 144.0 | 288.0 | x 3/8 | 9.8 | 196.0 | 392.0 |
| x 1/2 | 9.4 | 188.0 | 376.0 | x 1/2 | 12.8 | 256.0 | 512.0 |
| 3-1/2 x 2-1/2 x 1/4 | 4.9 | 98.0 | 196.0 | 5 x 3-1/2 x 1/4 | 7.0 | 140.0 | 280.0 |
| x 5/16 | 6.1 | 122.0 | 244.0 | x 5/16 | 8.7 | 174.0 | 348.0 |
| x 3/8 | 7.2 | 144.0 | 288.0 | x 3/8 | 10.4 | 208.0 | 416.0 |
| x 1/2 | 9.4 | 188.0 | 376.0 | x 1/2 | 13.6 | 272.0 | 544.0 |
| 3-1/2 x 3 x 1/4 | 5.4 | 108.0 | 216.0 | x 5/8 | 16.8 | 336.0 | 672.0 |
| x 5/16 | 6.6 | 132.0 | 264.0 | x 3/4 | 19.8 | 396.0 | 792.0 |
| x 3/8 | 7.9 | 158.0 | 316.0 | 5 x 5 x 5/16 | 10.3 | 206.0 | 412.0 |
| x 1/2 | 10.2 | 204.0 | 408.0 | x 3/8 | 12.3 | 246.0 | 492.0 |
| 3-1/2 x 3-1/2 x 1/4 | 5.8 | 116.0 | 232.0 | x 1/2 | 16.2 | 324.0 | 648.0 |
| x 5/16 | 7.2 | 144.0 | 288.0 | x 5/8 | 20.0 | 400.0 | 800.0 |
| x 3/8 | 8.5 | 170.0 | 340.0 | x 3/4 | 23.60 | 472.0 | 944.0 |
| x 1/2 | 11.1 | 222.0 | 444.0 | 6 x 3-1/2 x 5/16 | 9.8 | 196.0 | 392.0 |
| 4 x 3 x 1/4 | 5.8 | 116.0 | 232.0 | x 3/8 | 11.7 | 234.0 | 468.0 |
| x 5/16 | 7.2 | 144.0 | 288.0 | x 1/2 | 15.3 | 306.0 | 612.0 |
| x 3/8 | 8.5 | 170.0 | 340.0 | | | | |
| x 1/2 | 11.1 | 222.0 | 444.0 | | | | |
| x 5/8 | 13.6 | 272.0 | 544.0 | | | | |



STRUCTURAL ANGLES

Also available galvanized



| A x B x C Sizes (inches) | Weight in Pounds | | |
|-----------------------------|------------------|---------|---------|
| | Per ft. | /20 ft. | /40 ft. |
| 6 x 4 x 5/16 | 10.3 | 206.0 | 412.0 |
| x 3/8 | 12.3 | 246.0 | 492.0 |
| x 7/16 | 14.3 | 286.0 | 572.0 |
| x 1/2 | 16.2 | 324.0 | 648.0 |
| x 5/8 | 20.0 | 400.0 | 800.0 |
| x 3/4 | 23.6 | 472.0 | 944.0 |
| x 7/8 | 27.2 | 544.0 | 1088.0 |
| 6 x 6 x 5/16 | 12.4 | 248.0 | 496.0 |
| x 3/8 | 14.9 | 298.0 | 596.0 |
| x 7/16 | 17.2 | 344.0 | 688.0 |
| x 1/2 | 19.6 | 392.0 | 784.0 |
| x 5/8 | 24.2 | 484.0 | 968.0 |
| x 3/4 | 28.7 | 574.0 | 1148.0 |
| x 7/8 | 33.1 | 662.0 | 1324.0 |
| x 1 | 37.4 | 748.0 | 1496.0 |
| 7 x 4 x 3/8 | 13.6 | 272.0 | 544.0 |
| x 7/16 | 15.8 | 316.0 | 632.0 |
| x 1/2 | 17.9 | 358.0 | 716.0 |
| x 9/16 | 20.0 | 400.0 | 800.0 |
| x 5/8 | 22.1 | 442.0 | 884.0 |
| x 3/4 | 26.2 | 524.0 | 1048.0 |
| 8 x 4 x 7/16 | 17.2 | 344.0 | 688.0 |
| x 1/2 | 19.6 | 392.0 | 784.0 |
| x 5/8 | 24.2 | 484.0 | 968.0 |
| x 3/4 | 28.7 | 574.0 | 1148.0 |
| x 7/8 | 33.1 | 662.0 | 1324.0 |
| x 1 | 37.4 | 748.0 | 1496.0 |

| A x B x C Sizes (inches) | Weight in Pounds | | |
|-----------------------------|------------------|---------|---------|
| | Per ft. | /20 ft. | /40 ft. |
| 8 x 6 x 7/16 | 20.2 | 404.0 | 808.0 |
| x 1/2 | 23.0 | 460.0 | 920.0 |
| x 9/16 | 25.7 | 514.0 | 1028.0 |
| x 5/8 | 28.5 | 570.0 | 1140.0 |
| x 3/4 | 33.8 | 676.0 | 1352.0 |
| x 7/8 | 39.1 | 782.0 | 1564.0 |
| x 1 | 44.2 | 884.0 | 1768.0 |
| 8 x 8 x 1/2 | 26.4 | 528.0 | 1056.0 |
| x 9/16 | 29.6 | 592.0 | 1184.0 |
| x 5/8 | 32.7 | 654.0 | 1308.0 |
| x 3/4 | 38.9 | 778.0 | 1556.0 |
| x 7/8 | 45.0 | 900.0 | 1800.0 |
| x 1 | 51.0 | 1020.0 | 2040.0 |
| x 1-1/8 | 56.9 | 1138.0 | 2276.0 |
| 9 x 4 x 1/2 | 21.3 | 426.0 | 852.0 |
| x 9/16 | 23.8 | 476.0 | 952.0 |
| x 5/8 | 26.3 | 526.0 | 1052.0 |
| x 3/4 | 31.3 | 626.0 | 1252.0 |
| x 7/8 | 36.1 | 722.0 | 1444.0 |
| x 1 | 40.8 | 816.0 | 1632.0 |



STANDARD BEAMS (I)

ASTM A-36 and Dual A-36/A-572



Stocked in lengths up to 60 ft. Also available galvanized.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|-------|------------------|-------------------------|--------------------------|-----------------------|
| 3 | x | 5.7 | 3.00 | 2.330 | 0.260 | 0.170 |
| | | 7.5 | 3.00 | 2.509 | 0.260 | 0.349 |
| 4 | x | 7.7 | 4.00 | 2.660 | 0.293 | 0.193 |
| | | 9.5 | 4.00 | 2.796 | 0.293 | 0.326 |
| 5 | x | 10 | 5.00 | 3.000 | 0.326 | 0.214 |
| | | 14.75 | 5.00 | 3.284 | 0.326 | 0.494 |
| 6 | x | 12.5 | 6.00 | 3.332 | 0.359 | 0.232 |
| | | 17.25 | 6.00 | 3.565 | 0.359 | 0.465 |
| 7 | x | 15.3 | 7.00 | 3.662 | 0.392 | 0.252 |
| | | 20 | 7.00 | 3.860 | 0.392 | 0.450 |
| 8 | x | 18.4 | 8.00 | 4.001 | 0.425 | 0.271 |
| | | 23 | 8.00 | 4.171 | 0.425 | 0.441 |
| 10 | x | 25.4 | 10.00 | 4.661 | 0.491 | 0.311 |
| | | 35 | 10.00 | 4.944 | 0.491 | 0.594 |
| 12 | x | 31.8 | 12.00 | 5.000 | 0.544 | 0.350 |
| | | 35 | 12.00 | 5.078 | 0.544 | 0.428 |
| | | 40.8 | 12.00 | 5.252 | 0.659 | 0.462 |
| | | 50 | 12.00 | 5.477 | 0.659 | 0.687 |
| 15 | x | 42.9 | 15.00 | 5.501 | 0.622 | 0.411 |
| | | 50 | 15.00 | 5.640 | 0.622 | 0.550 |
| 18 | x | 54.7 | 18.00 | 6.001 | 0.691 | 0.461 |
| | | 70 | 18.00 | 6.251 | 0.691 | 0.711 |
| 20 | x | 66 | 20.00 | 6.255 | 0.795 | 0.505 |
| | | 75 | 20.00 | 6.385 | 0.795 | 0.635 |
| | | 86 | 20.30 | 7.060 | 0.920 | 0.660 |
| | | 96 | 20.30 | 7.200 | 0.920 | 0.800 |
| 24 | x | 80 | 24.00 | 7.000 | 0.870 | 0.500 |
| | | 90 | 24.00 | 7.125 | 0.870 | 0.625 |
| | | 100 | 24.00 | 7.245 | 0.870 | 0.745 |
| | | 106 | 24.50 | 7.870 | 1.090 | 0.620 |
| | | 121 | 24.50 | 8.050 | 1.090 | 0.800 |



JUNIOR BEAMS

ASTM A-36



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|------|------------------|-------------------------|--------------------------|-----------------------|
| 5 | x | 18.9 | 5 | 5.000 | 0.416 | 0.313 |
| 6 | x | 4.4 | 6 | 1.875 | 0.171 | 0.125 |
| 8 | x | 6.5 | 8 | 2.250 | 0.189 | 0.125 |
| 10 | x | 9.0 | 10 | 2.750 | 0.206 | 0.188 |
| 12 | x | 11.8 | 12 | 3.000 | 0.225 | 0.188 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|-----|------------------|-------------------------|--------------------------|-----------------------|
| W 4 | x | 13 | 4.16 | 4.060 | 0.345 | 0.280 |
| W 5 | x | 16 | 5.01 | 5.000 | 0.360 | 0.240 |
| | | 19 | 5.15 | 5.030 | 0.430 | 0.270 |
| W 6 | x | 8.5 | 5.83 | 3.940 | 0.170 | 0.195 |
| | | 9 | 5.90 | 3.940 | 0.215 | 0.170 |
| | | 12 | 6.03 | 4.000 | 0.280 | 0.230 |
| | | 16 | 6.28 | 4.030 | 0.405 | 0.260 |
| W 6 | x | 15 | 5.99 | 5.990 | 0.260 | 0.230 |
| | | 20 | 6.20 | 6.020 | 0.365 | 0.260 |
| | | 25 | 6.38 | 6.080 | 0.455 | 0.320 |
| W 8 | x | 10 | 7.89 | 3.940 | 0.205 | 0.170 |
| | | 13 | 7.99 | 4.000 | 0.255 | 0.230 |
| | | 15 | 8.11 | 4.015 | 0.315 | 0.245 |
| | | 18 | 8.14 | 5.250 | 0.330 | 0.230 |
| | | 21 | 8.28 | 5.270 | 0.400 | 0.250 |
| | | 24 | 7.93 | 6.495 | 0.400 | 0.245 |
| | | 28 | 8.06 | 6.535 | 0.465 | 0.285 |
| | | 31 | 8.00 | 7.995 | 0.435 | 0.285 |
| | | 35 | 8.12 | 8.020 | 0.495 | 0.310 |
| | | 40 | 8.25 | 8.070 | 0.560 | 0.360 |
| | | 48 | 8.50 | 8.110 | 0.685 | 0.400 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot | | A (in.) | B (in.) | C (in.) | D (in.) | |
|-----------------------------|-----|---------|--------------|---------------|------------|-------|
| Sizes (in.) x Weight (lbs.) | | Depth | Flange Width | Flange Thick. | Web Thick. | |
| W 8 (cont.) | x | 58 | 8.75 | 8.220 | 0.810 | 0.510 |
| | | 67 | 9.00 | 8.280 | 0.935 | 0.570 |
| W 10 | x | 12 | 9.87 | 3.960 | 0.210 | 0.190 |
| | | 15 | 9.99 | 4.000 | 0.270 | 0.230 |
| | | 17 | 10.11 | 4.010 | 0.330 | 0.240 |
| | | 19 | 10.24 | 4.020 | 0.395 | 0.250 |
| | | 22 | 10.17 | 5.750 | 0.360 | 0.240 |
| | | 26 | 10.33 | 5.770 | 0.440 | 0.260 |
| | | 30 | 10.47 | 5.810 | 0.510 | 0.300 |
| | | 33 | 9.73 | 7.960 | 0.435 | 0.290 |
| | | 39 | 9.92 | 7.985 | 0.530 | 0.315 |
| | | 45 | 10.10 | 8.020 | 0.620 | 0.350 |
| | | 49 | 9.98 | 10.000 | 0.560 | 0.340 |
| | | 54 | 10.09 | 10.030 | 0.615 | 0.370 |
| | | 60 | 10.22 | 10.080 | 0.680 | 0.420 |
| | | 68 | 10.40 | 10.130 | 0.770 | 0.470 |
| | | 77 | 10.60 | 10.190 | 0.870 | 0.530 |
| | | 88 | 10.84 | 10.265 | 0.990 | 0.605 |
| | | 100 | 11.10 | 10.340 | 1.120 | 0.680 |
| | 112 | 11.36 | 10.415 | 1.250 | 0.755 | |
| W 12 | x | 14 | 11.91 | 3.970 | 0.225 | 0.200 |
| | | 16 | 11.99 | 3.990 | 0.265 | 0.220 |
| | | 19 | 12.16 | 4.005 | 0.350 | 0.235 |
| | | 22 | 12.31 | 4.030 | 0.425 | 0.260 |
| | | 26 | 12.22 | 6.490 | 0.380 | 0.230 |
| | | 30 | 12.34 | 6.520 | 0.440 | 0.260 |
| | | 35 | 12.50 | 6.560 | 0.520 | 0.300 |
| | | 40 | 11.94 | 8.005 | 0.515 | 0.295 |
| | | 45 | 12.06 | 8.045 | 0.575 | 0.335 |
| | | 50 | 12.19 | 8.080 | 0.640 | 0.370 |
| | | 53 | 12.06 | 9.995 | 0.575 | 0.345 |
| | | 58 | 12.19 | 10.010 | 0.640 | 0.360 |
| | | 65 | 12.12 | 12.000 | 0.605 | 0.390 |
| | | 72 | 12.25 | 12.040 | 0.670 | 0.430 |
| | | 79 | 12.38 | 12.080 | 0.735 | 0.470 |
| | 87 | 12.53 | 12.125 | 0.810 | 0.515 | |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot | | A (in.) | B (in.) | C (in.) | D (in.) |
|-----------------------------|-------|---------|--------------|---------------|------------|
| Sizes (in.) x Weight (lbs.) | | Depth | Flange Width | Flange Thick. | Web Thick. |
| W 12 (cont.) x | 96 | 12.71 | 12.160 | 0.900 | 0.550 |
| | 106 | 12.89 | 12.220 | 0.990 | 0.610 |
| | 120 | 13.12 | 12.320 | 1.105 | 0.710 |
| | 136 | 13.41 | 12.400 | 1.250 | 0.790 |
| | 152 | 13.71 | 12.480 | 1.400 | 0.870 |
| | 170 | 14.03 | 12.570 | 1.560 | 0.960 |
| | 190 | 14.38 | 12.670 | 1.735 | 1.060 |
| | 210 | 14.71 | 12.790 | 1.900 | 1.180 |
| | 230 | 15.05 | 12.895 | 2.070 | 1.285 |
| | 252 | 15.41 | 13.005 | 2.250 | 1.395 |
| | 279 | 15.85 | 13.140 | 2.470 | 1.530 |
| | 305 | 16.32 | 13.235 | 2.705 | 1.625 |
| | 336 | 16.82 | 13.385 | 2.955 | 1.775 |
| W 14 x | 22 | 13.74 | 5.000 | 0.335 | 0.230 |
| | 26 | 13.91 | 5.025 | 0.420 | 0.255 |
| | 30 | 13.84 | 6.730 | 0.385 | 0.270 |
| | 34 | 13.98 | 6.745 | 0.455 | 0.285 |
| | 38 | 14.10 | 6.770 | 0.515 | 0.310 |
| | 43 | 13.66 | 7.995 | 0.530 | 0.305 |
| | 48 | 13.79 | 8.030 | 0.595 | 0.340 |
| | 53 | 13.92 | 8.060 | 0.660 | 0.370 |
| | 61 | 13.89 | 9.995 | 0.645 | 0.375 |
| | 68 | 14.04 | 10.035 | 0.720 | 0.415 |
| | 74 | 14.17 | 10.070 | 0.785 | 0.450 |
| | 82 | 14.31 | 10.130 | 0.855 | 0.510 |
| | 90 | 14.02 | 14.520 | 0.710 | 0.440 |
| | 99 | 14.16 | 14.565 | 0.780 | 0.485 |
| | 109 | 14.32 | 14.605 | 0.860 | 0.525 |
| | 120 | 14.48 | 14.670 | 0.940 | 0.590 |
| | 132 | 14.66 | 14.725 | 1.030 | 0.645 |
| | 145 | 14.78 | 15.500 | 1.090 | 0.680 |
| | 159 | 14.98 | 15.565 | 1.190 | 0.745 |
| | 176 | 15.22 | 15.650 | 1.310 | 0.830 |
| 193 | 15.48 | 15.710 | 1.440 | 0.890 | |
| 211 | 15.72 | 15.800 | 1.560 | 0.980 | |
| 233 | 16.04 | 15.890 | 1.720 | 1.070 | |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. | |
|---|------------------|-------------------------|--------------------------|-----------------------|-------|
| W 14 (cont.) x | 257 | 16.38 | 15.995 | 1.890 | 1.175 |
| | 283 | 16.74 | 16.110 | 2.070 | 1.290 |
| | 311 | 17.12 | 16.230 | 2.260 | 1.410 |
| | 342 | 17.54 | 16.360 | 2.470 | 1.540 |
| | 370 | 17.92 | 16.475 | 2.660 | 1.655 |
| | 398 | 18.29 | 16.590 | 2.845 | 1.770 |
| | 426 | 18.67 | 16.695 | 3.035 | 1.875 |
| | 455 | 19.02 | 16.835 | 3.210 | 2.015 |
| | 500 | 19.60 | 17.010 | 3.500 | 2.190 |
| | 550 | 20.24 | 17.200 | 3.820 | 2.380 |
| | 605 | 20.92 | 17.415 | 4.160 | 2.595 |
| | 665 | 21.64 | 17.650 | 4.520 | 2.830 |
| | 730 | 22.42 | 17.890 | 4.910 | 3.070 |
| W 16 x | 26 | 15.69 | 5.500 | 0.345 | 0.250 |
| | 31 | 15.88 | 5.525 | 0.440 | 0.275 |
| | 36 | 15.86 | 6.985 | 0.430 | 0.295 |
| | 40 | 16.01 | 6.995 | 0.505 | 0.305 |
| | 45 | 16.13 | 7.035 | 0.565 | 0.345 |
| | 50 | 16.26 | 7.070 | 0.630 | 0.380 |
| | 57 | 16.43 | 7.120 | 0.715 | 0.430 |
| | 67 | 16.33 | 10.235 | 0.665 | 0.395 |
| | 77 | 16.52 | 10.295 | 0.760 | 0.455 |
| | 89 | 16.75 | 10.365 | 0.875 | 0.525 |
| | 100 | 16.97 | 10.425 | 0.985 | 0.585 |
| W 18 x | 35 | 17.70 | 6.000 | 0.425 | 0.300 |
| | 40 | 17.90 | 6.015 | 0.525 | 0.315 |
| | 46 | 18.06 | 6.060 | 0.605 | 0.360 |
| | 41 | 17.70 | 7.450 | 0.430 | 0.320 |
| | 45 | 17.86 | 7.480 | 0.500 | 0.340 |
| | 50 | 17.99 | 7.495 | 0.570 | 0.355 |
| | 55 | 18.11 | 7.530 | 0.630 | 0.390 |
| | 60 | 18.24 | 7.555 | 0.695 | 0.415 |
| | 65 | 18.35 | 7.590 | 0.750 | 0.450 |
| | 71 | 18.47 | 7.635 | 0.810 | 0.495 |
| | 76 | 18.21 | 11.035 | 0.680 | 0.425 |
| | 86 | 18.39 | 11.090 | 0.770 | 0.480 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot | | A (in.) | B (in.) | C (in.) | D (in.) |
|-----------------------------|-------------|---------|--------------|---------------|------------|
| Sizes (in.) x Weight (lbs.) | | Depth | Flange Width | Flange Thick. | Web Thick. |
| W 18 (cont.) | x 97 | 18.59 | 11.145 | 0.870 | 0.535 |
| | 106 | 18.73 | 11.200 | 0.940 | 0.590 |
| | 119 | 18.97 | 11.265 | 1.060 | 0.655 |
| | 130 | 19.25 | 11.160 | 1.200 | 0.670 |
| | 143 | 19.49 | 11.220 | 1.320 | 0.730 |
| | 158 | 19.72 | 11.300 | 1.440 | 0.810 |
| | 175 | 20.04 | 11.375 | 1.590 | 0.890 |
| | 192 | 20.35 | 11.455 | 1.750 | 0.960 |
| | 211 | 20.67 | 11.555 | 1.910 | 1.060 |
| | 234 | 21.06 | 11.650 | 2.110 | 1.160 |
| | 258 | 21.46 | 11.770 | 2.300 | 1.280 |
| | 283 | 21.85 | 11.890 | 2.500 | 1.400 |
| | 311 | 22.32 | 12.050 | 2.740 | 1.520 |
| | W 21 | x 44 | 20.66 | 6.500 | 0.450 |
| 50 | | 20.83 | 6.530 | 0.535 | 0.380 |
| 57 | | 21.06 | 6.555 | 0.650 | 0.405 |
| 48 | | 20.62 | 8.140 | 0.430 | 0.350 |
| 55 | | 20.80 | 8.220 | 0.522 | 0.375 |
| 62 | | 20.99 | 8.240 | 0.615 | 0.400 |
| 68 | | 21.13 | 8.270 | 0.685 | 0.430 |
| 73 | | 21.24 | 8.295 | 0.740 | 0.455 |
| 83 | | 21.43 | 8.355 | 0.835 | 0.515 |
| 93 | | 21.62 | 8.420 | 0.930 | 0.580 |
| 101 | | 21.36 | 12.290 | 0.800 | 0.500 |
| 111 | | 21.51 | 12.340 | 0.875 | 0.550 |
| 122 | | 21.68 | 12.390 | 0.960 | 0.600 |
| 132 | | 21.83 | 12.440 | 1.035 | 0.650 |
| 147 | | 22.06 | 12.510 | 1.150 | 0.720 |
| 166 | | 22.48 | 12.420 | 1.360 | 0.750 |
| 182 | | 22.72 | 12.500 | 1.480 | 0.830 |
| 201 | | 23.03 | 12.575 | 1.630 | 0.910 |
| 223 | 23.35 | 12.675 | 1.790 | 1.000 | |
| 248 | 23.74 | 12.775 | 1.990 | 1.100 | |
| 275 | 24.13 | 12.890 | 2.190 | 1.220 | |
| W 24 | x 55 | 23.57 | 7.005 | 0.505 | 0.395 |
| | 62 | 23.74 | 7.040 | 0.590 | 0.430 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|-------|------------------|-------------------------|--------------------------|-----------------------|
| W 24 (cont.) x | 56 | 23.48 | 8.900 | 0.461 | 0.355 |
| | 61 | 23.56 | 8.930 | 0.500 | 0.380 |
| | 68 | 23.73 | 8.965 | 0.585 | 0.415 |
| | 76 | 23.92 | 8.990 | 0.680 | 0.440 |
| | 84 | 24.10 | 9.020 | 0.770 | 0.470 |
| | 94 | 24.31 | 9.065 | 0.875 | 0.515 |
| | 103 | 24.53 | 9.000 | 0.980 | 0.550 |
| | 104 | 24.06 | 12.750 | 0.750 | 0.500 |
| | 117 | 24.26 | 12.800 | 0.850 | 0.550 |
| | 131 | 24.48 | 12.855 | 0.960 | 0.605 |
| | 146 | 24.74 | 12.900 | 1.090 | 0.650 |
| | 162 | 25.00 | 12.955 | 1.220 | 0.705 |
| | 176 | 25.24 | 12.890 | 1.340 | 0.750 |
| | 192 | 25.47 | 12.950 | 1.460 | 0.810 |
| | 207 | 25.71 | 13.010 | 1.570 | 0.870 |
| | 229 | 26.02 | 13.110 | 1.730 | 0.960 |
| | 250 | 26.34 | 13.185 | 1.890 | 1.040 |
| | 279 | 26.73 | 13.305 | 2.090 | 1.160 |
| | 306 | 27.13 | 13.405 | 2.280 | 1.260 |
| | 335 | 27.52 | 13.520 | 2.480 | 1.380 |
| 370 | 27.99 | 13.660 | 2.720 | 1.520 | |
| W 27 x | 84 | 26.71 | 9.960 | 0.640 | 0.460 |
| | 94 | 26.92 | 9.990 | 0.745 | 0.490 |
| | 102 | 27.09 | 10.015 | 0.830 | 0.515 |
| | 114 | 27.29 | 10.070 | 0.930 | 0.570 |
| | 129 | 27.63 | 10.010 | 1.100 | 0.610 |
| | 146 | 27.38 | 13.965 | 0.975 | 0.605 |
| | 161 | 27.59 | 14.020 | 1.080 | 0.660 |
| | 178 | 27.81 | 14.085 | 1.190 | 0.725 |
| | 194 | 28.11 | 14.035 | 1.340 | 0.750 |
| | 217 | 28.43 | 14.115 | 1.500 | 0.830 |
| | 235 | 28.66 | 14.190 | 1.610 | 0.910 |
| | 258 | 28.98 | 14.270 | 1.770 | 0.980 |
| | 281 | 29.29 | 14.350 | 1.930 | 1.060 |
| | 307 | 29.61 | 14.445 | 2.090 | 1.160 |
| | 336 | 30.00 | 14.550 | 2.280 | 1.260 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft in 5 ft. increments.

| Size and Weight per Foot | | A (in.) | B (in.) | C (in.) | D (in.) |
|-----------------------------|-------|---------|--------------|---------------|------------|
| Sizes (in.) x Weight (lbs.) | | Depth | Flange Width | Flange Thick. | Web Thick. |
| W 27 (cont.) | x 368 | 30.39 | 14.665 | 2.480 | 1.380 |
| W 30 | x 90 | 29.53 | 10.400 | 0.610 | 0.470 |
| | x 99 | 29.65 | 10.450 | 0.670 | 0.520 |
| | x 108 | 29.83 | 10.475 | 0.760 | 0.545 |
| | x 116 | 30.01 | 10.495 | 0.850 | 0.565 |
| | x 124 | 30.17 | 10.515 | 0.930 | 0.585 |
| | x 132 | 30.31 | 10.545 | 1.000 | 0.615 |
| | x 148 | 30.67 | 10.480 | 1.180 | 0.650 |
| | x 173 | 30.44 | 14.985 | 1.065 | 0.655 |
| | x 191 | 30.68 | 15.040 | 1.185 | 0.710 |
| | x 211 | 30.94 | 15.105 | 1.315 | 0.775 |
| | x 235 | 31.30 | 15.055 | 1.500 | 0.830 |
| | x 261 | 31.61 | 15.155 | 1.650 | 0.930 |
| | x 292 | 32.01 | 15.255 | 1.850 | 1.020 |
| | x 326 | 32.40 | 15.370 | 2.050 | 1.140 |
| | x 357 | 32.80 | 15.470 | 2.240 | 1.240 |
| | x 391 | 33.19 | 15.590 | 2.440 | 1.360 |
| W 33 | x 118 | 32.86 | 11.480 | 0.740 | 0.550 |
| | x 130 | 33.09 | 11.510 | 0.855 | 0.580 |
| | x 141 | 33.30 | 11.535 | 0.960 | 0.605 |
| | x 152 | 33.49 | 11.565 | 1.055 | 0.635 |
| | x 169 | 33.82 | 11.500 | 1.220 | 0.670 |
| | x 201 | 33.68 | 15.745 | 1.150 | 0.715 |
| | x 221 | 33.93 | 15.805 | 1.275 | 0.775 |
| | x 241 | 34.18 | 15.860 | 1.400 | 0.830 |
| | x 263 | 34.53 | 15.805 | 1.570 | 0.870 |
| | x 291 | 34.84 | 15.905 | 1.730 | 0.960 |
| | x 318 | 35.16 | 15.985 | 1.890 | 1.040 |
| | x 354 | 35.55 | 16.100 | 2.090 | 1.160 |
| | x 387 | 35.95 | 16.200 | 2.280 | 1.260 |
| W 36 | x 135 | 35.55 | 11.950 | 0.790 | 0.600 |
| | x 150 | 35.85 | 11.975 | 0.940 | 0.625 |
| | x 160 | 36.01 | 12.000 | 1.020 | 0.650 |
| | x 170 | 36.17 | 12.030 | 1.100 | 0.680 |
| | x 182 | 36.33 | 12.075 | 1.180 | 0.725 |



WIDE FLANGE BEAMS (W)

ASTM A-992



Stocked in lengths from 20 ft. to 65 ft. in 5 ft. increments.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. | |
|---|------------------|-------------------------|--------------------------|-----------------------|-------|
| W 36 (cont.) x | 194 | 36.49 | 12.115 | 1.260 | 0.765 |
| | 210 | 36.69 | 12.180 | 1.360 | 0.830 |
| | 232 | 37.12 | 12.120 | 1.570 | 0.870 |
| | 256 | 37.43 | 12.215 | 1.730 | 0.960 |
| | 231 | 36.49 | 16.470 | 1.260 | 0.760 |
| | 247 | 36.67 | 16.510 | 1.350 | 0.800 |
| | 262 | 36.85 | 16.550 | 1.440 | 0.840 |
| | 282 | 37.11 | 16.595 | 1.570 | 0.885 |
| | 302 | 37.33 | 16.655 | 1.680 | 0.945 |
| | 330 | 37.67 | 16.630 | 1.850 | 1.020 |
| | 361 | 37.99 | 16.730 | 2.010 | 1.120 |
| | 395 | 38.37 | 16.830 | 2.200 | 1.220 |
| | 441 | 38.85 | 16.965 | 2.440 | 1.360 |
| W 40 x | 149 | 38.20 | 11.810 | 0.830 | 0.630 |
| | 167 | 38.59 | 11.810 | 1.025 | 0.650 |
| | 183 | 38.98 | 11.810 | 1.200 | 0.650 |
| | 211 | 39.37 | 11.810 | 1.415 | 0.750 |
| | 235 | 39.69 | 11.890 | 1.575 | 0.830 |
| | 264 | 40.00 | 11.930 | 1.730 | 0.960 |
| | 294 | 40.39 | 12.010 | 1.930 | 1.060 |
| | 327 | 40.79 | 12.130 | 2.130 | 1.180 |
| | 199 | 38.67 | 15.750 | 1.065 | 0.650 |
| | 215 | 38.98 | 15.750 | 1.220 | 0.650 |
| | 249 | 39.38 | 15.750 | 1.420 | 0.750 |
| | 277 | 39.69 | 15.830 | 1.575 | 0.830 |
| | 297 | 39.84 | 15.825 | 1.650 | 0.930 |
| | 324 | 40.16 | 15.910 | 1.810 | 1.000 |
| | 362 | 40.55 | 16.020 | 2.010 | 1.120 |
| | 372 | 40.63 | 16.065 | 2.045 | 1.160 |
| | 397 | 40.95 | 16.120 | 2.200 | 1.220 |
| | 431 | 41.26 | 16.220 | 2.360 | 1.340 |
| W 44 x | 230 | 42.91 | 15.750 | 1.220 | 0.710 |
| | 262 | 43.31 | 15.750 | 1.415 | 0.785 |
| | 290 | 43.62 | 15.825 | 1.575 | 0.865 |
| | 335 | 44.02 | 15.945 | 1.770 | 1.025 |



STANDARD CHANNELS

Standard Structural Sizes



Available in lengths up to 60 ft. Also available galvanized.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Channel Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|-------|--------------------------|-------------------------|--------------------------|-----------------------|
| C 3 | x | 3.5 | 3.00 | 1.372 | 0.273 | 0.132 |
| | | 4.1 | 3.00 | 1.410 | 0.273 | 0.170 |
| | | 5.0 | 3.00 | 1.498 | 0.273 | 0.258 |
| | | 6.0 | 3.00 | 1.596 | 0.273 | 0.356 |
| C 4 | x | 4.5 | 4.00 | 1.580 | 0.296 | 0.125 |
| | | 5.4 | 4.00 | 1.580 | 0.296 | 0.184 |
| | | 6.25 | 4.00 | 1.647 | 0.296 | 0.247 |
| | | 7.25 | 4.00 | 1.721 | 0.296 | 0.321 |
| C 5 | x | 6.7 | 5.00 | 1.750 | 0.320 | 0.190 |
| | | 9.0 | 5.00 | 1.885 | 0.320 | 0.325 |
| C 6 | x | 8.2 | 6.00 | 1.920 | 0.343 | 0.200 |
| | | 10.5 | 6.00 | 2.034 | 0.343 | 0.314 |
| | | 13.0 | 6.00 | 2.157 | 0.343 | 0.437 |
| C 7 | x | 9.8 | 7.00 | 2.090 | 0.366 | 0.210 |
| | | 12.25 | 7.00 | 2.194 | 0.366 | 0.303 |
| | | 14.75 | 7.00 | 2.299 | 0.366 | 0.487 |
| C 8 | x | 11.5 | 8.00 | 2.260 | 0.390 | 0.220 |
| | | 13.75 | 8.00 | 2.343 | 0.390 | 0.303 |
| | | 18.75 | 8.00 | 2.527 | 0.390 | 0.487 |
| C 9 | x | 13.4 | 9.00 | 2.433 | 0.413 | 0.233 |
| | | 15.0 | 9.00 | 2.485 | 0.413 | 0.285 |
| | | 20.0 | 9.00 | 2.648 | 0.413 | 0.448 |
| C 10 | x | 15.3 | 10.00 | 2.600 | 0.436 | 0.240 |
| | | 20 | 10.00 | 2.739 | 0.436 | 0.379 |
| | | 25 | 10.00 | 2.886 | 0.436 | 0.526 |
| | | 30 | 10.00 | 3.033 | 0.436 | 0.673 |
| C 12 | x | 20.7 | 12.000 | 2.942 | 0.501 | 0.282 |
| | | 25.0 | 12.000 | 3.047 | 0.501 | 0.387 |
| | | 30.0 | 12.000 | 3.170 | 0.501 | 0.510 |
| C 15 | x | 33.9 | 15.000 | 3.400 | 0.650 | 0.400 |
| | | 40.0 | 15.000 | 3.520 | 0.650 | 0.520 |
| | | 50.0 | 15.000 | 3.716 | 0.650 | 0.716 |



MISC. SHAPES

(Car, Ship and Junior Channels)



Also available galvanized.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Channel Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|------|--------------------------|-------------------------|--------------------------|-----------------------|
| 3 | x | 7.1 | 2.93 | 1.983 | 0.351 | 0.312 |
| 4 | x | 13.8 | 4.00 | 2.500 | 0.500 | 0.500 |
| 6 | x | 6.5 | 6.00 | 1.840 | 0.189 | 0.155 |
| | | 7 | 6.00 | 1.870 | 0.189 | 0.179 |
| | | 12 | 6.00 | 2.497 | 0.375 | 0.310 |
| | | 15.1 | 6.00 | 2.941 | 0.475 | 0.316 |
| | | 15.3 | 6.00 | 3.500 | 0.385 | 0.340 |
| | | 16.3 | 6.00 | 3.000 | 0.475 | 0.375 |
| | | 18 | 6.00 | 3.504 | 0.475 | 0.379 |
| 7 | x | 17.6 | 7.000 | 3.000 | 0.475 | 0.375 |
| | | 19.1 | 7.000 | 3.452 | 0.500 | 0.352 |
| | | 22.7 | 7.000 | 3.603 | 0.500 | 0.503 |
| 8 | x | 6.6 | 8.000 | 1.075 | 0.159 | 0.138 |
| | | 8.5 | 8.000 | 1.874 | 0.311 | 0.179 |
| | | 18.7 | 8.000 | 2.978 | 0.500 | 0.353 |
| | | 20 | 8.000 | 3.025 | 0.500 | 0.400 |
| | | 21.4 | 8.000 | 3.450 | 0.525 | 0.375 |
| | | 22.8 | 8.000 | 3.502 | 0.525 | 0.427 |
| 9 | x | 23.9 | 9.000 | 3.450 | 0.550 | 0.400 |
| | | 25.4 | 9.000 | 3.500 | 0.550 | 0.450 |
| 10 | x | 6.5 | 10.000 | 1.127 | 0.202 | 0.152 |
| | | 8.4 | 10.000 | 1.500 | 0.280 | 0.170 |
| | | 22 | 10.000 | 3.315 | 0.575 | 0.290 |
| | | 25 | 10.000 | 3.405 | 0.575 | 0.380 |
| | | 28.5 | 10.000 | 3.950 | 0.575 | 0.425 |
| | | 33.6 | 10.000 | 4.100 | 0.575 | 0.575 |
| | | 41.1 | 10.000 | 4.321 | 0.575 | 0.796 |
| 12 | x | 10.6 | 12.000 | 1.500 | 0.309 | 0.190 |
| | | 31 | 12.000 | 3.670 | 0.700 | 0.370 |
| | | 35 | 12.000 | 3.765 | 0.700 | 0.467 |
| | | 40 | 12.000 | 3.890 | 0.700 | 0.590 |
| | | 45 | 12.000 | 4.012 | 0.700 | 0.710 |
| | | 50 | 12.000 | 4.135 | 0.700 | 0.835 |



MISC. SHAPES

(Car, Ship and Junior Channels)



Also available galvanized.

| Size and Weight per Foot Sizes (in.) x Weight (lbs.) | | | A (in.) Depth | B (in.) Flange Width | C (in.) Flange Thick. | D (in.) Web Thick. |
|---|---|------|------------------|-------------------------|--------------------------|-----------------------|
| 13 | x | 31.8 | 13.000 | 4.000 | 0.610 | 0.375 |
| | | 35 | 13.000 | 4.072 | 0.610 | 0.447 |
| | | 40 | 13.000 | 4.185 | 0.610 | 0.560 |
| | | 50 | 13.000 | 4.412 | 0.610 | 0.787 |
| 18 | x | 42.7 | 18.000 | 3.950 | 0.625 | 0.450 |
| | | 45.8 | 18.000 | 4.000 | 0.625 | 0.500 |
| | | 51.9 | 18.000 | 4.100 | 0.625 | 0.600 |
| | | 58 | 18.000 | 4.200 | 0.625 | 0.700 |



STEEL STAIR STRINGER

Rollformed from sturdy 12 ga. material



Available in 20' length.

10" depth, 2" flange.

More economical than junior channel.



BAR CHANNELS

Stocked in 20 ft. lengths



| A x B x C Sizes (inches) | Weight in Pounds | |
|-----------------------------|------------------|---------|
| | Per ft. | /20 ft. |
| 3/4 x 3/8 x 1/8 | 0.56 | 11.20 |
| 1 x 3/8 x 1/8 | 0.68 | 13.6 |
| 1 x 1/2 x 1/8 | 0.84 | 16.80 |
| 1-1/8 x 9/16 x 3/16 | 1.16 | 23.2 |
| 1-1/4 x 1/2 x 1/8 | 1.01 | 20.20 |

| A x B x C Sizes (inches) | Weight in Pounds | |
|-----------------------------|------------------|---------|
| | Per ft. | /20 ft. |
| 1-1/2 x 1/2 x 1/8 | 1.12 | 22.40 |
| 1-1/2 x 9/16 x 3/16 | 1.44 | 28.80 |
| 1-1/2 x 3/4 x 1/8 | 1.17 | 23.40 |
| 1-3/4 x 1/2 x 3/16 | 1.55 | 31.00 |
| 2 x 1/2 x 1/8 | 1.43 | 28.60 |
| 2 x 1 x 1/8 | 1.59 | 31.80 |
| 2 x 1 x 3/16 | 2.32 | 46.40 |
| 2-1/2 x 5/8 x 3/16 | 2.27 | 45.40 |

ROUND BARS

Hot rolled or cold finished



In various alloys and carbon steel. Also available galvanized.

| Size (inches) | Weight in Pounds Per ft. /20 ft. | | Size (inches) | Weight in Pounds Per ft. /20 ft. | |
|------------------|-------------------------------------|--------|------------------|-------------------------------------|---------|
| 1/8 | 0.042 | .84 | 3-5/8 | 35.09 | 701.80 |
| 3/16 | 0.094 | 1.88 | 3-3/4 | 37.55 | 751.00 |
| 1/4 | 0.167 | 3.34 | 3-7/8 | 40.10 | 802.00 |
| 5/16 | 0.261 | 5.22 | 4 | 42.73 | 854.60 |
| 3/8 | 0.376 | 7.52 | 4-1/8 | 45.44 | 908.80 |
| 7/16 | 0.511 | 10.22 | 4-1/4 | 48.23 | 964.60 |
| 1/2 | 0.668 | 13.36 | 4-3/8 | 51.11 | 1022.20 |
| 9/16 | 0.845 | 16.90 | 4-1/2 | 54.08 | 1081.60 |
| 5/8 | 1.043 | 20.86 | 4-5/8 | 57.12 | 1142.40 |
| 11/16 | 1.262 | 25.24 | 4-3/4 | 60.25 | 1205.00 |
| 3/4 | 1.502 | 30.04 | 5 | 66.76 | 1335.20 |
| 13/16 | 1.763 | 35.26 | 5-1/4 | 73.60 | 1472.00 |
| 7/8 | 2.044 | 40.88 | 5-1/2 | 80.78 | 1615.60 |
| 15/16 | 2.347 | 46.94 | 5-3/4 | 88.29 | 1765.80 |
| 1 | 2.670 | 53.40 | 6 | 96.13 | 1922.60 |
| 1-1/8 | 3.379 | 67.58 | 6-1/4 | 104.31 | 2086.20 |
| 1-3/16 | 3.766 | 75.32 | 6-1/2 | 112.82 | 2256.40 |
| 1-1/4 | 4.172 | 83.44 | 6-3/4 | 121.67 | 2433.40 |
| 1-3/8 | 5.049 | 101.00 | 7 | 130.85 | 2617.00 |
| 1-1/2 | 6.008 | 120.16 | 7-1/4 | 140.36 | 2807.20 |
| 1-5/8 | 7.051 | 141.02 | 7-1/2 | 150.21 | 3004.20 |
| 1-3/4 | 8.178 | 163.56 | 7-3/4 | 160.39 | 3207.80 |
| 1-15/16 | 10.020 | 200.40 | 8 | 170.90 | 3418.00 |
| 2 | 10.68 | 213.60 | 8-1/4 | 181.8 | 3636.00 |
| 2-1/8 | 12.06 | 241.20 | 8-1/8 | 192.9 | 3858.00 |
| 2-1/4 | 13.52 | 270.40 | 8-3/4 | 204.5 | 4090.00 |
| 2-3/8 | 15.06 | 301.20 | 9 | 216.3 | 4326.00 |
| 2-1/2 | 16.69 | 333.80 | 9-1/4 | 228.5 | 4570.00 |
| 2-5/8 | 18.40 | 368.00 | 9-1/2 | 241.0 | 4820.00 |
| 2-3/4 | 20.19 | 403.80 | 9-3/4 | 253.9 | 5078.00 |
| 2-7/8 | 22.07 | 441.40 | 10 | 267.0 | 5340.00 |
| 3 | 24.03 | 480.60 | 10-1/4 | 280.6 | 5612.00 |
| 3-1/8 | 26.08 | 521.60 | 10-1/2 | 294.4 | 5888.00 |
| 3-1/4 | 28.21 | 564.20 | 10-3/4 | 308.6 | 6172.00 |
| 3-3/8 | 30.42 | 608.40 | | | |
| 3-1/2 | 32.71 | 654.20 | | | |



ROUND BARS

Hot rolled or cold finished

In various alloys and carbon steel. Also available galvanized.

| Size (inches) | Weight in Pounds | | Size (inches) | Weight in Pounds | |
|------------------|------------------|----------|--|------------------|----------|
| | Per ft. | /20 ft. | | Per ft. | /20 ft. |
| 11 | 323.1 | 6462.00 | 16 | 683.6 | 13672.00 |
| 11-1/2 | 353.2 | 7064.00 | 16-1/2 | 727.2 | 14544.00 |
| 12 | 384.5 | 7690.00 | 17 | 771.7 | 15434.00 |
| 12-1/2 | 417.2 | 8344.00 | 17-1/2 | 829.6 | 16591.00 |
| 13 | 451.3 | 9026.00 | 18 | 865.2 | 17304.00 |
| 13-1/2 | 486.7 | 9733.00 | 18-1/2 | 913.9 | 18278.00 |
| 14 | 523.4 | 10468.00 | 19 | 964.0 | 19279.00 |
| 14-1/2 | 561.4 | 11229.00 | 20 | 1068.0 | 21360.00 |
| 15 | 600.8 | 12016.00 | Formula to figure weight of round bar ($D^2 \times 2.67$) | | |
| 15-1/2 | 641.6 | 12831.00 | | | |

Forged rounds through 24" are available, please inquire.



SQUARE BARS

Also available galvanized

Standard lengths: Hot Rolled: 20 ft., 1018 Cold Finish: 12 ft.

| Size (inches) | Weight in Pounds | | Size (inches) | Weight in Pounds | |
|------------------|------------------|---------|------------------|------------------|---------|
| | Per ft. | /20 ft. | | Per ft. | /20 ft. |
| 1/4 | 0.213 | 4.26 | 1-3/4 | 10.41 | 208.20 |
| 5/16 | 0.332 | 6.64 | 1-7/8 | 11.95 | 239.00 |
| 3/8 | 0.478 | 9.56 | 2 | 13.60 | 272.00 |
| 7/16 | 0.651 | 13.02 | 2-1/4 | 17.21 | 344.20 |
| 1/2 | 0.850 | 17.00 | 2-1/2 | 21.25 | 425.00 |
| 9/16 | 1.08 | 21.60 | 2-3/4 | 25.71 | 514.20 |
| 5/8 | 1.33 | 26.60 | 3 | 30.60 | 612.00 |
| 11/16 | 1.61 | 32.20 | 3-1/4 | 35.91 | 718.00 |
| 3/4 | 1.91 | 38.20 | 3-1/2 | 41.65 | 833.00 |
| 13/16 | 2.25 | 45.00 | 3-3/4 | 47.81 | 956.00 |
| 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 | 5.31 | 106.20 | 6 | 122.40 | 2448.00 |
| 1-3/8 | 6.43 | 128.60 | | | |
| 1-1/2 | 7.65 | 153.00 | | | |
| 1-5/8 | 8.98 | 179.60 | | | |

CONCRETE REINFORCING BARS

GR40 and GR60 available



60 ft. available upon request. Also available galvanized.

| Size (inches) | Size Number | Per ft. | Weight in Pounds /20 ft. | /40 ft. |
|------------------|----------------|---------|-----------------------------|---------|
| 1/4 | #2 | 0.167 | 3.34 | 6.68 |
| 3/8 | #3 | 0.376 | 7.52 | 15.04 |
| 1/2 | #4 | 0.668 | 13.36 | 26.72 |
| 5/8 | #5 | 1.043 | 20.86 | 41.72 |
| 3/4 | #6 | 1.502 | 30.04 | 60.08 |
| 7/8 | #7 | 2.044 | 40.88 | 81.76 |
| 1 | #8 | 2.670 | 53.40 | 106.80 |
| 1-1/8 | #9 | 3.400 | 68.00 | 136.00 |
| 1-1/4 | #10 | 4.303 | 86.06 | 172.12 |
| 1-3/8 | #11 | 5.313 | 106.26 | 212.52 |
| 1-3/4 | #14 | 7.650 | 153.00 | 306.00 |
| 2-1/4 | #18 | 13.600 | 272.00 | 544.00 |

HOT ROLLED STRIP

Also available galvanized



| Size (inches) | Weight in Pounds | | Size (inches) | Weight in Pounds | |
|------------------|------------------|---------|------------------|------------------|---------|
| | Per ft. | /20 ft. | | Per ft. | /20 ft. |
| 1/8 x 3/8 | 0.159 | 3.18 | 3/16 x 3/8 | 0.239 | 4.78 |
| x 1/2 | 0.213 | 4.26 | x 1/2 | 0.319 | 6.38 |
| x 5/8 | 0.266 | 5.32 | x 5/8 | 0.398 | 7.96 |
| x 3/4 | 0.319 | 6.38 | x 3/4 | 0.478 | 9.56 |
| x 1 | 0.425 | 8.50 | x 1 | 0.638 | 12.76 |
| x 1-1/4 | 0.531 | 10.62 | x 1-1/4 | 0.797 | 15.94 |
| x 1-1/2 | 0.638 | 12.76 | x 1-1/2 | 0.956 | 19.12 |
| x 1-3/4 | 0.744 | 14.88 | x 1-3/4 | 1.116 | 22.32 |
| x 2 | 0.850 | 17.00 | x 2 | 1.275 | 25.50 |
| x 2-1/4 | 0.956 | 19.12 | x 2-1/4 | 1.434 | 28.68 |
| x 2-1/2 | 1.063 | 21.26 | x 2-1/2 | 1.594 | 31.88 |
| x 2-3/4 | 1.169 | 23.38 | x 2-3/4 | 1.753 | 35.06 |
| x 3 | 1.275 | 25.50 | x 3 | 1.913 | 38.26 |
| x 3-1/2 | 1.488 | 29.76 | x 3-1/2 | 2.231 | 44.62 |
| x 4 | 1.700 | 34.00 | x 4 | 2.550 | 51.00 |
| x 4-1/2 | 1.913 | 38.26 | x 4-1/2 | 2.869 | 57.38 |
| x 5 | 2.125 | 42.50 | x 5 | 3.188 | 63.76 |
| x 6 | 2.550 | 51.00 | x 6 | 3.825 | 76.50 |
| x 8 | 3.400 | 68.00 | x8 | 5.100 | 102.00 |



FLAT BARS

Also available galvanized

Standard lengths: Hot Rolled: 20 ft., 1018 Cold Finish: 12 ft.

Thickness **Weight in lbs.**
(inches) Per ft. /20 ft.

1/4 Inch

| | | |
|-------|-------|--------|
| 3/8 | 0.319 | 6.38 |
| 1/2 | 0.425 | 8.50 |
| 5/8 | 0.531 | 10.62 |
| 3/4 | 0.638 | 12.76 |
| 7/8 | 0.744 | 14.88 |
| 1 | 0.850 | 17.00 |
| 1-1/8 | 0.956 | 19.12 |
| 1-1/4 | 1.063 | 21.26 |
| 1-3/8 | 1.169 | 23.38 |
| 1-1/2 | 1.275 | 25.50 |
| 1-5/8 | 1.381 | 27.62 |
| 1-3/4 | 1.488 | 29.76 |
| 2 | 1.700 | 34.00 |
| 2-1/4 | 1.913 | 38.26 |
| 2-1/2 | 2.125 | 42.50 |
| 2-3/4 | 2.338 | 46.76 |
| 3 | 2.550 | 51.00 |
| 3-1/4 | 2.763 | 55.26 |
| 3-1/2 | 2.975 | 59.50 |
| 3-3/4 | 3.188 | 63.76 |
| 4 | 3.400 | 68.00 |
| 4-1/4 | 3.613 | 72.26 |
| 4-1/2 | 3.825 | 76.50 |
| 5 | 4.250 | 85.00 |
| 5-1/2 | 4.675 | 93.50 |
| 6 | 5.100 | 102.00 |
| 6-1/2 | 5.530 | 110.60 |
| 7 | 5.950 | 119.00 |
| 7-1/2 | 6.380 | 127.60 |
| 8 | 6.800 | 136.00 |

Thickness **Weight in lbs.**
(inches) Per ft. /20 ft.

5/16 Inch

| | | |
|-------|-------|--------|
| 1/2 | 0.531 | 10.62 |
| 5/8 | 0.664 | 13.28 |
| 3/4 | 0.797 | 15.94 |
| 7/8 | 0.930 | 18.60 |
| 1 | 1.063 | 21.26 |
| 1-1/8 | 1.195 | 23.90 |
| 1-1/4 | 1.328 | 26.56 |
| 1-3/8 | 1.461 | 29.22 |
| 1-1/2 | 1.594 | 31.88 |
| 1-3/4 | 1.859 | 37.18 |
| 2 | 2.125 | 42.50 |
| 2-1/4 | 2.391 | 47.82 |
| 2-1/2 | 2.656 | 53.12 |
| 2-3/4 | 2.922 | 58.44 |
| 3 | 3.188 | 63.76 |
| 3-1/4 | 3.453 | 69.06 |
| 3-1/2 | 3.719 | 74.38 |
| 4 | 4.250 | 85.00 |
| 4-1/2 | 4.781 | 95.62 |
| 5 | 5.313 | 106.30 |
| 5-1/2 | 5.840 | 116.80 |
| 6 | 6.375 | 127.50 |
| 7 | 7.440 | 148.70 |
| 7-1/2 | 7.970 | 159.40 |
| 8 | 8.500 | 170.00 |

3/8 Inch

| | | |
|-------|-------|-------|
| 1/2 | 0.638 | 12.76 |
| 5/8 | 0.797 | 15.94 |
| 3/4 | 0.956 | 19.12 |
| 7/8 | 1.116 | 22.32 |
| 1 | 1.275 | 25.50 |
| 1-1/8 | 1.434 | 28.68 |
| 1-1/4 | 1.594 | 31.88 |
| 1-3/8 | 1.753 | 35.06 |

Thickness **Weight in lbs.**
(inches) Per ft. /20 ft.

3/8 Inch (continued)

| | | |
|-------|--------|--------|
| 1-1/2 | 1.913 | 38.26 |
| 1-5/8 | 2.072 | 41.44 |
| 1-3/4 | 2.231 | 44.62 |
| 2 | 2.550 | 51.00 |
| 2-1/4 | 2.869 | 57.38 |
| 2-1/2 | 3.188 | 63.76 |
| 2-3/4 | 3.506 | 70.12 |
| 3 | 3.825 | 76.50 |
| 3-1/4 | 4.144 | 82.88 |
| 3-1/2 | 4.463 | 89.26 |
| 4 | 5.100 | 102.00 |
| 4-1/2 | 5.738 | 114.80 |
| 5 | 6.375 | 127.50 |
| 5-1/2 | 7.013 | 140.30 |
| 6 | 7.650 | 153.00 |
| 7 | 8.930 | 178.50 |
| 8 | 10.200 | 204.00 |

7/16 Inch

| | | |
|-------|-------|--------|
| 3/4 | 1.116 | 22.32 |
| 7/8 | 1.302 | 26.04 |
| 1 | 1.488 | 29.76 |
| 1-1/4 | 1.859 | 37.18 |
| 1-1/2 | 2.231 | 44.62 |
| 1-3/4 | 2.603 | 52.06 |
| 2 | 2.975 | 59.50 |
| 2-1/4 | 3.347 | 66.94 |
| 2-1/2 | 3.719 | 74.38 |
| 3 | 4.463 | 89.26 |
| 3-1/2 | 5.206 | 104.10 |
| 4 | 5.950 | 119.00 |
| 4-1/2 | 6.694 | 133.90 |
| 5 | 7.438 | 148.80 |
| 6 | 8.925 | 178.50 |

FLAT BARS

Also available galvanized



Standard lengths: Hot Rolled: 20 ft., 1018 Cold Finish: 12 ft.

Thickness (inches) **Weight in lbs.**
Per ft. /20 ft.

1/2 Inch

| | | |
|-------|--------|--------|
| 5/8 | 1.063 | 21.26 |
| 3/4 | 1.275 | 25.50 |
| 7/8 | 1.488 | 29.76 |
| 1 | 1.700 | 34.00 |
| 1-1/8 | 1.913 | 38.26 |
| 1-1/4 | 2.125 | 42.50 |
| 1-3/8 | 2.338 | 46.76 |
| 1-1/2 | 2.550 | 51.00 |
| 1-5/8 | 2.763 | 55.26 |
| 1-3/4 | 2.975 | 59.50 |
| 2 | 3.400 | 68.00 |
| 2-1/2 | 4.250 | 85.00 |
| 2-3/4 | 4.675 | 93.50 |
| 3 | 5.100 | 102.00 |
| 3-1/4 | 5.525 | 110.50 |
| 3-1/2 | 5.950 | 119.00 |
| 4 | 6.800 | 136.00 |
| 4-1/2 | 7.650 | 153.00 |
| 5 | 8.500 | 170.00 |
| 5-1/2 | 9.350 | 187.00 |
| 6 | 10.200 | 204.00 |
| 7 | 11.900 | 238.00 |
| 8 | 13.600 | 272.00 |

5/8 Inch

| | | |
|-------|-------|-------|
| 3/4 | 1.594 | 31.88 |
| 7/8 | 1.859 | 37.18 |
| 1 | 2.125 | 42.50 |
| 1-1/8 | 2.391 | 47.82 |
| 1-1/4 | 2.656 | 53.12 |
| 1-3/8 | 2.922 | 58.44 |
| 1-1/2 | 3.188 | 63.76 |
| 1-5/8 | 3.453 | 69.06 |
| 1-3/4 | 3.719 | 74.38 |
| 2 | 4.250 | 85.00 |

Thickness (inches) **Weight in lbs.**
Per ft. /20 ft.

5/8 Inch (continued)

| | | |
|-------|--------|--------|
| 2-1/4 | 4.781 | 95.62 |
| 2-1/2 | 5.313 | 106.30 |
| 2-3/4 | 5.844 | 116.90 |
| 3 | 6.375 | 127.50 |
| 3-1/4 | 6.906 | 138.10 |
| 3-1/2 | 7.438 | 148.80 |
| 4 | 8.500 | 170.00 |
| 4-1/2 | 9.563 | 191.30 |
| 5 | 10.630 | 212.40 |
| 5-1/2 | 11.690 | 233.80 |
| 6 | 12.750 | 255.00 |
| 7 | 14.870 | 297.40 |
| 8 | 17.000 | 340.00 |

3/4 Inch

| | | |
|-------|--------|--------|
| 7/8 | 2.231 | 44.62 |
| 1 | 2.550 | 51.00 |
| 1-1/8 | 2.869 | 57.38 |
| 1-1/4 | 3.188 | 63.76 |
| 1-1/2 | 3.825 | 76.50 |
| 1-5/8 | 4.144 | 82.88 |
| 1-3/4 | 4.463 | 89.26 |
| 2 | 5.100 | 102.00 |
| 2-1/4 | 5.738 | 114.80 |
| 2-1/2 | 6.375 | 127.50 |
| 2-3/4 | 7.013 | 140.30 |
| 3 | 7.650 | 153.00 |
| 3-1/4 | 8.288 | 165.80 |
| 3-1/2 | 8.925 | 178.50 |
| 4 | 10.200 | 204.00 |
| 4-1/4 | 11.470 | 229.40 |
| 5 | 12.750 | 255.00 |
| 5-1/2 | 14.020 | 280.40 |
| 6 | 15.300 | 306.00 |
| 7 | 17.850 | 357.00 |

Thickness (inches) **Weight in lbs.**
Per ft. /20 ft.

3/4 Inch (continued)

| | | |
|---|--------|--------|
| 8 | 20.400 | 408.00 |
|---|--------|--------|

7/8 Inch

| | | |
|-------|--------|--------|
| 1 | 2.975 | 59.50 |
| 1-1/4 | 3.719 | 74.38 |
| 1-3/8 | 4.091 | 81.82 |
| 1-1/2 | 4.463 | 89.26 |
| 1-3/4 | 5.206 | 104.10 |
| 2 | 5.950 | 119.00 |
| 2-1/4 | 6.694 | 133.90 |
| 2-1/2 | 7.438 | 148.80 |
| 2-3/4 | 8.181 | 163.60 |
| 3 | 8.925 | 178.50 |
| 3-1/2 | 10.410 | 208.20 |
| 4 | 11.900 | 238.00 |
| 4-1/2 | 13.390 | 267.80 |
| 5 | 14.870 | 297.40 |
| 5-1/2 | 16.360 | 327.20 |
| 6 | 17.850 | 357.00 |
| 7 | 20.830 | 416.60 |
| 8 | 23.800 | 476.00 |

1 Inch

| | | |
|-------|--------|--------|
| 1-1/4 | 4.250 | 85.00 |
| 1-1/2 | 5.100 | 102.00 |
| 1-3/4 | 5.950 | 119.00 |
| 2 | 6.800 | 136.00 |
| 2-1/4 | 7.650 | 153.00 |
| 2-1/2 | 8.500 | 170.00 |
| 2-3/4 | 9.350 | 187.00 |
| 3 | 10.200 | 204.00 |
| 3-1/4 | 11.050 | 221.00 |
| 3-1/2 | 11.900 | 238.00 |
| 4 | 13.600 | 272.00 |
| 4-1/2 | 15.300 | 306.00 |



FLAT BARS

Also available galvanized

Standard lengths: Hot Rolled: 20 ft., 1018 Cold Finish: 12 ft.

Size (inches) **Weight in Pounds**
Per ft. /20 ft.

1 Inch (continued)

| | | |
|-------|--------|--------|
| 5 | 17.000 | 340.00 |
| 5-1/2 | 18.700 | 374.00 |
| 6 | 20.400 | 408.00 |
| 7 | 23.800 | 476.00 |
| 8 | 27.200 | 544.00 |

1-1/8 Inch

| | | |
|---|--------|--------|
| 2 | 7.650 | 153.00 |
| 3 | 11.480 | 229.60 |
| 4 | 15.300 | 306.00 |
| 5 | 19.130 | 382.60 |
| 6 | 22.950 | 459.00 |

1-1/4 Inch

| | | |
|-------|--------|--------|
| 1-1/2 | 6.375 | 127.50 |
| 1-3/4 | 7.438 | 148.80 |
| 2 | 8.500 | 170.00 |
| 2-1/4 | 9.563 | 191.30 |
| 2-1/2 | 10.630 | 212.40 |
| 2-3/4 | 11.690 | 233.80 |
| 3 | 12.750 | 255.00 |
| 3-1/4 | 13.810 | 276.20 |
| 3-1/2 | 14.870 | 297.40 |
| 4 | 17.000 | 340.00 |
| 4-1/2 | 19.120 | 382.40 |
| 5 | 21.250 | 425.00 |
| 5-1/2 | 23.370 | 467.40 |
| 6 | 25.500 | 510.00 |
| 7 | 29.750 | 595.00 |
| 8 | 34.000 | 680.00 |

Ask your salesman for custom sheared widths.

Size (inches) **Weight in Pounds**
Per ft. /20 ft.

1-1/2 Inch

| | | |
|-------|-------|--------|
| 2 | 10.20 | 204.00 |
| 2-1/4 | 11.48 | 229.60 |
| 2-1/2 | 12.75 | 255.00 |
| 2-3/4 | 14.03 | 280.60 |
| 3 | 15.30 | 306.00 |
| 3-1/2 | 17.85 | 357.00 |
| 4 | 20.40 | 408.00 |
| 4-1/2 | 22.95 | 459.00 |
| 5 | 25.50 | 510.00 |
| 5-1/2 | 28.05 | 561.00 |
| 6 | 30.60 | 612.00 |
| 7 | 35.70 | 714.00 |
| 8 | 40.80 | 816.00 |

1-3/4 Inch

| | | |
|-------|-------|--------|
| 2 | 11.90 | 238.00 |
| 2-1/2 | 14.88 | 297.60 |
| 3 | 17.85 | 357.00 |
| 3-1/2 | 20.83 | 416.60 |
| 4 | 23.80 | 476.00 |
| 4-1/2 | 26.78 | 535.60 |
| 5 | 29.75 | 595.00 |
| 5-1/2 | 32.73 | 654.60 |
| 6 | 35.70 | 714.00 |

Standard Lengths:
Hot Rolled 20 ft.
Cold Finished 12 ft.

Size (inches) **Weight in Pounds**
Per ft. /20 ft.

2 Inch

| | | |
|-------|-------|---------|
| 2-1/2 | 17.00 | 340.00 |
| 3 | 20.40 | 408.00 |
| 3-1/2 | 23.80 | 476.00 |
| 4 | 27.20 | 544.00 |
| 4-1/2 | 30.60 | 612.00 |
| 5 | 34.00 | 680.00 |
| 6 | 40.80 | 816.00 |
| 7 | 47.60 | 952.00 |
| 8 | 54.40 | 1088.00 |

2-1/2 Inch

| | | |
|-------|-------|---------|
| 3 | 25.50 | 510.00 |
| 3-1/2 | 29.75 | 595.00 |
| 4 | 34.00 | 680.00 |
| 4-1/2 | 38.25 | 765.00 |
| 5 | 42.50 | 850.00 |
| 6 | 51.00 | 1020.00 |
| 8 | 68.00 | 1360.00 |

3 Inch

| | | |
|-------|-------|---------|
| 4 | 40.80 | 816.00 |
| 4-1/2 | 45.90 | 918.00 |
| 5 | 51.00 | 1020.00 |
| 6 | 61.20 | 1224.00 |
| 8 | 81.60 | 1632.00 |

Flat Bars wider than 8" are classified as Universal Mill Plates (see page 25).

Flat Bars thinner than 1/4" are classified as Strips (see page 21).

UNIVERSAL MILL PLATES

Wider widths are available flame cut



Also available galvanized.

| Size in Inches Thickness x Width | Weight in Pounds Per ft. | Weight in Pounds /20 ft. | Size in Inches Thickness x Width | Weight in Pounds Per ft. | Weight in Pounds /20 ft. |
|-------------------------------------|-----------------------------|-----------------------------|-------------------------------------|-----------------------------|-----------------------------|
| 1/4 x 9 | 7.65 | 153.0 | 3/4 x 9 | 22.95 | 459.0 |
| x 10 | 8.50 | 170.0 | x 10 | 25.50 | 510.0 |
| x 11* | 9.35 | 187.0 | x 12 | 30.60 | 612.0 |
| x 12 | 10.20 | 204.0 | | | |
| | | | 7/8 x 10 | 29.75 | 595.0 |
| 5/16 x 9 | 9.56 | 191.2 | x 12 | 35.70 | 714.0 |
| x 10 | 10.63 | 212.6 | | | |
| x 12 | 12.75 | 255.0 | 1 x 9 | 30.60 | 612.0 |
| | | | x 10 | 34.00 | 680.0 |
| 3/8 x 9 | 11.48 | 229.6 | x 12 | 40.80 | 816.0 |
| x 10 | 12.75 | 255.0 | | | |
| x 11* | 14.03 | 280.6 | 1-1/4 x 9 | 38.25 | 765.0 |
| x 12 | 15.30 | 306.0 | x 10 | 42.50 | 850.0 |
| | | | x 12 | 51.00 | 1020.0 |
| 1/2 x 9 | 15.30 | 306.0 | | | |
| x 10 | 17.00 | 340.0 | 1-1/2 x 10 | 51.00 | 1020.0 |
| x 11* | 18.70 | 374.0 | x 12 | 61.20 | 1224.0 |
| x 12 | 20.40 | 408.0 | | | |
| | | | 2 x 9 | 61.20 | 1224.0 |
| 5/8 x 9 | 19.13 | 382.6 | x 10 | 68.00 | 1360.0 |
| x 10 | 21.25 | 425.0 | x 12 | 81.60 | 1632.0 |
| x 11 | 23.40 | 468.0 | | | |
| x 12 | 25.50 | 510.0 | | | |

* Also available in 25 Ft.





PLATE

Also available galvanized

| Thick. (inches) | Weight in Pounds | | Thick. (inches) | Weight in Pounds | | Thick. (inches) | Weight in Pounds | |
|--------------------|------------------|------------|--------------------|------------------|------------|--------------------|------------------|------------|
| | Square In. | Square Ft. | | Square In. | Square Ft. | | Square In. | Square Ft. |
| 3/16 | 0.0532 | 7.66 | 1-5/8 | 0.4609 | 66.36 | 5 | 1.4180 | 204.19 |
| 1/4 | 0.0709 | 10.21 | 1-3/4 | 0.4963 | 71.47 | 5-1/2 | 1.5598 | 224.61 |
| 5/16 | 0.0886 | 12.76 | 1-7/8 | 0.5318 | 76.57 | 6 | 1.7016 | 245.03 |
| 3/8 | 0.1064 | 15.31 | 2 | 0.5672 | 81.68 | 6-1/2 | 1.8434 | 265.45 |
| 7/16 | 0.1241 | 17.87 | 2-1/8 | 0.6027 | 86.78 | 7 | 1.9852 | 285.87 |
| 1/2 | 0.1418 | 20.42 | 2-1/4 | 0.6381 | 91.89 | 7-1/2 | 2.1270 | 306.29 |
| 9/16 | 0.1595 | 22.97 | 2-1/2 | 0.7090 | 102.10 | 8 | 2.2688 | 326.71 |
| 5/8 | 0.1773 | 25.52 | 2-3/4 | 0.7799 | 112.31 | 8-1/2 | 2.4106 | 347.13 |
| 11/16 | 0.1950 | 28.08 | 3 | 0.8508 | 122.52 | 9 | 2.5524 | 367.55 |
| 3/4 | 0.2127 | 30.63 | 3-1/4 | 0.9217 | 132.72 | 10 | 2.8360 | 408.38 |
| 7/8 | 0.2481 | 35.73 | 3-1/2 | 0.9926 | 142.93 | 12 | 3.4032 | 490.06 |
| 1 | 0.2836 | 40.84 | 3-3/4 | 1.0635 | 153.14 | | | |
| 1-1/8 | 0.3191 | 45.94 | 4 | 1.1344 | 163.35 | | | |
| 1-1/4 | 0.3545 | 51.05 | 4-1/4 | 1.2053 | 173.56 | | | |
| 1-3/8 | 0.3900 | 56.16 | 4-1/2 | 1.2762 | 183.77 | | | |
| 1-1/2 | 0.4254 | 61.26 | | | | | | |

Formula to calculate weight of plate:

Length (inches) x Width (inches) x Thickness (decimal) x .2836

We can furnish plates cut to your lengths
and with holes burned or punched if required.



PLATE

Most common sizes

Also available galvanized.

| Size (inches) | Size (inches) | Size (inches) | Size (inches) |
|------------------|------------------|------------------|------------------|
| 48 x 96 | 60 x 96 | 72 x 96 | 96 x 240 |
| 48 x 120 | 60 x 120 | 72 x 120 | 96 x 480 |
| 48 x 144 | 60 x 144 | 72 x 144 | 120 x 240 |
| 48 x 240 | 60 x 240 | 72 x 240 | 120 x 480 |

Ask your salesperson for other sizes.

FLOOR PLATE

Also available galvanized



| Size/Thickness (inches) | Weight in Pounds | | Size/Thickness (inches) | Weight in Pounds | |
|----------------------------|------------------|------------|----------------------------|------------------|------------|
| | Square in. | Square ft. | | Square in. | Square ft. |
| 14 gauge | 0.0260 | 3.75 | 5/16 | 0.0959 | 13.81 |
| 12 gauge | 0.0365 | 5.25 | 3/8 | 0.1137 | 16.37 |
| 1/8 | 0.0427 | 6.15 | 1/2 | 0.1491 | 21.47 |
| 3/16 | 0.0605 | 8.71 | 3/4 | 0.2200 | 31.68 |
| 1/4 | 0.0782 | 11.26 | | | |

SHEETS

Hot rolled, cold rolled, galvanized and P&O



| Sheet Size (inches) | Weight per Sheet | | Sheet Size (inches) | Weight per Sheet | |
|------------------------|------------------|-------------------------------|------------------------|------------------|-------------------------------|
| | (lbs.) Plain | Galvanized | | (lbs.) Plain | Galvanized |
| 7 Gauge | | | 60 x 96 | 275.00 | — |
| Plain: | Thick: 0.1793" | Wt: 7.5 lbs/ft ² | 60 x 120 | 343.75 | — |
| 48 x 96 | 240.00 | — | 60 x 144 | 412.50 | — |
| 48 x 120 | 300.00 | — | 60 x 240 | 687.50 | — |
| 48 x 144 | 360.00 | — | | | |
| 48 x 240 | 600.00 | — | 72 x 96 | 330.00 | — |
| | | | 72 x 120 | 412.50 | — |
| 60 x 96 | 300.00 | — | 72 x 144 | 495.00 | — |
| 60 x 120 | 375.00 | — | 72 x 240 | 825.00 | — |
| 60 x 144 | 450.00 | — | | | |
| 60 x 240 | 750.00 | — | 10 Gauge | | |
| | | | Plain: | Thick: 0.1345" | Wt: 5.625 lbs/ft ² |
| 72 x 96 | 360.00 | — | Galv.: | Thick: 0.1382" | Wt: 5.781 lbs/ft ² |
| 72 x 120 | 450.00 | — | 48 x 96 | 180.00 | 184.99 |
| 72 x 144 | 540.00 | — | 48 x 120 | 225.00 | 231.24 |
| 72 x 240 | 900.00 | — | 48 x 144 | 270.00 | 277.48 |
| | | | 48 x 240 | 450.00 | 462.48 |
| 8 Gauge | | | | | |
| Plain: | Thick: 0.1644" | Wt: 6.875 lbs/ft ² | 60 x 96 | 225.00 | 231.24 |
| 48 x 96 | 220.00 | — | 60 x 120 | 281.25 | 289.05 |
| 48 x 120 | 275.00 | — | 60 x 144 | 337.50 | 346.86 |
| 48 x 144 | 330.00 | — | 60 x 240 | 562.50 | 578.10 |
| 48 x 240 | 550.00 | — | | | |
| | | | 72 x 96 | 270.00 | — |
| | | | 72 x 120 | 337.50 | — |
| | | | 72 x 144 | 405.00 | — |
| | | | 72 x 240 | 675.00 | — |



SHEETS

Hot rolled, cold rolled, galvanized and P&O

| Sheet Size (inches) | Weight per Sheet | |
|------------------------|------------------|------------|
| | (lbs.) Plain | Galvanized |

11 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.1196" | Wt: 5.0 lbs/ft ² |
| Galv.: | Thick: 0.1233" | Wt: 5.156 lbs/ft ² |

| | | |
|----------|--------|--------|
| 48 x 96 | 160.00 | 164.99 |
| 48 x 120 | 200.00 | 206.24 |
| 48 x 144 | 240.00 | 247.49 |
| 60 x 96 | 200.00 | 206.24 |
| 60 x 120 | 250.00 | 257.80 |
| 60 x 144 | 300.00 | 309.36 |
| 60 x 240 | 500.00 | 515.60 |
| 72 x 96 | 240.00 | — |
| 72 x 120 | 300.00 | — |
| 72 x 144 | 360.00 | — |
| 72 x 240 | 600.00 | — |

12 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.1046" | Wt: 4.375 lbs/ft ² |
| Galv.: | Thick: 0.1084" | Wt: 4.531 lbs/ft ² |

| | | |
|----------|--------|--------|
| 48 x 96 | 140.00 | 144.99 |
| 48 x 120 | 175.00 | 181.24 |
| 48 x 144 | 210.00 | 217.49 |
| 60 x 96 | 175.00 | 181.24 |
| 60 x 120 | 218.75 | 226.55 |
| 60 x 144 | 262.50 | 271.86 |
| 60 x 240 | 437.50 | 453.10 |
| 72 x 96 | 210.00 | — |
| 72 x 120 | 262.50 | — |
| 72 x 144 | 315.00 | — |
| 72 x 240 | 525.00 | — |

14 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.0747" | Wt: 3.125 lbs/ft ² |
| Galv.: | Thick: 0.0785" | Wt: 3.281 lbs/ft ² |

| | | |
|----------|--------|--------|
| 48 x 96 | 100.00 | 104.99 |
| 48 x 120 | 125.00 | 131.24 |
| 48 x 144 | 150.00 | 157.49 |
| 48 x 144 | 150.00 | 157.49 |

| Sheet Size (inches) | Weight per Sheet | |
|------------------------|------------------|------------|
| | (lbs.) Plain | Galvanized |

14 Gauge (continued)

| | | |
|----------|--------|--------|
| 60 x 96 | 125.00 | 131.24 |
| 60 x 120 | 156.25 | 164.05 |
| 60 x 144 | 187.50 | 196.86 |
| 72 x 96 | 150.00 | — |
| 72 x 120 | 187.50 | — |
| 72 x 144 | 225.00 | — |

16 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.0598" | Wt: 2.5 lbs/ft ² |
| Galv.: | Thick: 0.0635" | Wt: 2.656 lbs/ft ² |

| | | |
|----------|--------|--------|
| 48 x 96 | 80.00 | 84.99 |
| 48 x 120 | 100.00 | 106.24 |
| 48 x 144 | 120.00 | 127.49 |
| 60 x 96 | 100.00 | 106.24 |
| 60 x 120 | 125.00 | 132.80 |
| 60 x 144 | 150.00 | 159.36 |

18 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.0478" | Wt: 2.0 lbs/ft ² |
| Galv.: | Thick: 0.0516" | Wt: 2.156 lbs/ft ² |

| | | |
|----------|--------|--------|
| 36 x 96 | 48.00 | 51.74 |
| 36 x 120 | 60.00 | 64.68 |
| 36 x 144 | 72.00 | 77.62 |
| 48 x 96 | 64.00 | 68.99 |
| 48 x 120 | 80.00 | 86.24 |
| 48 x 144 | 96.00 | 103.49 |
| 60 x 96 | 80.00 | — |
| 60 x 120 | 100.00 | — |
| 60 x 144 | 120.00 | — |

20 Gauge

| | | |
|--------|----------------|-------------------------------|
| Plain: | Thick: 0.0359" | Wt: 1.5 lbs/ft ² |
| Galv.: | Thick: 0.0396" | Wt: 1.656 lbs/ft ² |

| | | |
|----------|-------|-------|
| 36 x 96 | 36.00 | 39.74 |
| 36 x 120 | 45.00 | 49.68 |
| 36 x 144 | 54.00 | 59.62 |

FLOOR PLATES

Also available galvanized



Size
(inches)

Weight in Pounds
Square in. Square ft.

20 Gauge (continued)

| | | |
|----------|-------|-------|
| 48 x 96 | 48.00 | 52.99 |
| 48 x 120 | 60.00 | 66.24 |
| 48 x 144 | 72.00 | 79.49 |

22 Gauge

Plain: Thick: 0.0299" Wt: 1.25 lbs/ft²
Galv.: Thick: 0.0336" Wt: 1.406 lbs/ft²

| | | |
|----------|-------|-------|
| 36 x 96 | 30.00 | 33.74 |
| 36 x 120 | 37.50 | 42.18 |
| 36 x 144 | 45.00 | 50.61 |

| | | |
|----------|-------|-------|
| 48 x 96 | 40.00 | 44.99 |
| 48 x 120 | 50.00 | 56.24 |
| 48 x 144 | 60.00 | 67.48 |

24 Gauge

Plain: Thick: 0.0239" Wt: 1.0 lbs/ft²
Galv.: Thick: 0.0276" Wt: 1.156 lbs/ft²

| | | |
|----------|-------|-------|
| 36 x 96 | 24.00 | 27.74 |
| 36 x 120 | 30.00 | 34.68 |

| | | |
|----------|-------|-------|
| 48 x 96 | 32.00 | 36.99 |
| 48 x 120 | 40.00 | 46.24 |

Size
(inches)

Weight in Pounds
Square in. Square ft.

26 Gauge

Plain: Thick: 0.0179" Wt: 0.750 lbs/ft²
Galv.: Thick: 0.0217" Wt: 0.906 lbs/ft²

| | | |
|----------|-------|-------|
| 36 x 96 | 18.00 | 21.74 |
| 36 x 120 | 22.50 | 27.18 |

28 Gauge

Plain: Thick: 0.0149" Wt: 0.625 lbs/ft²
Galv.: Thick: 0.0187" Wt: 0.781 lbs/ft²

| | | |
|----------|-------|-------|
| 36 x 96 | 15.00 | 18.74 |
| 36 x 120 | 18.75 | 23.43 |

30 Gauge

Galv.: Thick: 0.0157" Wt: 0.657 lbs/ft²

| | | |
|----------|---|-------|
| 36 x 96 | — | 15.77 |
| 36 x 120 | — | 19.71 |

| | | |
|----------|---|-------|
| 48 x 120 | — | 26.28 |
|----------|---|-------|

We can furnish sheets sheared to your requirements. Some sizes stocked in Galvannealed (paint grip).



SQUARE TUBE

Also available galvanized

Size
(inches)

Thickness
(gauge) (inches)

Weight
(lbs./ft.)

1/2 x 1/2 16 0.065 .384

3/4 x 3/4 16 0.065 .605
14 0.083 .753

1 x 1 16 0.065 .822
15 0.072 .909
14 0.083 1.035
12 0.109 1.320
11 0.120 1.436

Size
(inches)

Thickness
(gauge) (inches)

Weight
(lbs./ft.)

1-1/4 x 1-1/4 16 0.065 1.047
14 0.083 1.317
12 0.109 1.691
11 0.120 1.844
10 0.1345 2.030
3/16 0.188 2.400

Larger sizes available, please inquire. See our hardware catalog for tubing accessories.



SQUARE TUBE

Also available galvanized

| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) | Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) |
|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|
| 1-1/2 x 1-1/2 | 16 | 0.065 | 1.268 | 4 x 4 (cont.) | 5/16 | 0.312 | 14.83 |
| | 14 | 0.083 | 1.599 | | 3/8 | 0.375 | 17.27 |
| | 12 | 0.109 | 2.062 | | 1/2 | 0.500 | 21.63 |
| | 11 | 0.120 | 2.252 | 4-1/2 x 4-1/2 | 1/8 | 0.125 | 7.31 |
| | 10 | 0.145 | 2.330 | | 3/16 | 0.188 | 10.70 |
| | 3/16 | 0.188 | 3.040 | | 1/4 | 0.250 | 13.91 |
| 1/4 | 0.250 | 4.110 | 5/16 | | 0.312 | 16.96 | |
| | | | 3/8 | | 0.375 | 19.82 | |
| 1-3/4 x 1-3/4 | 14 | 0.083 | 1.880 | 5 x 5 | 1/8 | 0.125 | 8.16 |
| | 11 | 0.120 | 2.660 | | 3/16 | 0.188 | 11.97 |
| 2 x 2 | 16 | 0.065 | 1.710 | | 1/4 | 0.250 | 15.62 |
| | 14 | 0.083 | 2.164 | | 5/16 | 0.312 | 19.08 |
| | 12 | 0.109 | 2.802 | | 3/8 | 0.375 | 22.37 |
| | 11 | 0.120 | 3.05 | 1/2 | 0.500 | 28.43 | |
| | 3/16 | 0.188 | 4.32 | 6 x 6 | 3/16 | 0.188 | 14.53 |
| | 1/4 | 0.250 | 5.41 | | 1/4 | 0.250 | 19.02 |
| 2-1/2 x 2-1/2 | 14 | 0.083 | 2.73 | | 5/16 | 0.312 | 23.34 |
| | 11 | 0.120 | 3.90 | | 3/8 | 0.375 | 27.48 |
| | 3/16 | 0.188 | 5.59 | | 1/2 | 0.500 | 35.24 |
| | 1/4 | 0.250 | 7.11 | 5/8 | 0.625 | 42.30 | |
| 3 x 3 | 14 | 0.083 | 3.29 | 7 x 7 | 3/16 | 0.188 | 17.08 |
| | 11 | 0.120 | 4.75 | | 1/4 | 0.250 | 22.42 |
| | 3/16 | 0.188 | 6.87 | | 5/16 | 0.312 | 27.59 |
| | 1/4 | 0.250 | 8.81 | | 3/8 | 0.375 | 32.58 |
| | 5/16 | 0.312 | 10.58 | | 1/2 | 0.500 | 42.05 |
| 3-1/2 x 3-1/2 | 3/8 | 0.375 | 12.17 | 5/8 | 0.625 | 50.8 | |
| | 11 | 0.120 | 5.61 | 8 x 8 | 3/16 | 0.188 | 19.63 |
| | 3/16 | 0.188 | 8.15 | | 1/4 | 0.250 | 25.82 |
| | 1/4 | 0.250 | 10.51 | | 5/16 | 0.312 | 31.84 |
| | 5/16 | 0.312 | 12.70 | | 3/8 | 0.375 | 37.69 |
| 3/8 | 0.375 | 14.72 | 1/2 | | 0.550 | 48.85 | |
| 4 x 4 | 14 | 0.083 | 4.42 | 5/8 | 0.625 | 59.32 | |
| | 11 | 0.120 | 6.46 | | | | |
| | 3/16 | 0.188 | 9.42 | | | | |
| | 1/4 | 0.250 | 12.21 | | | | |

SQUARE TUBE

Also available galvanized



| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) | Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) |
|----------------|-------------------|--------------------|-------------------|----------------|-------------------|--------------------|-------------------|
| 10 x 10 | 3/16 | 0.188 | 24.73 | 14 x 14 | 5/16 | 0.312 | 57.36 |
| | 1/4 | 0.250 | 32.63 | | 3/8 | 0.375 | 68.31 |
| | 5/16 | 0.312 | 40.35 | | 1/2 | 0.500 | 89.68 |
| | 3/8 | 0.375 | 47.90 | | 5/8 | 0.625 | 110.36 |
| | 1/2 | 0.500 | 62.46 | 16 x 16 | 5/16 | 0.312 | 65.87 |
| | 5/8 | 0.625 | 76.33 | | 3/8 | 0.375 | 78.52 |
| | | | 1/2 | | 0.500 | 103.30 | |
| 12 x 12 | 1/4 | 0.250 | 39.43 | 5/8 | 0.625 | 127.37 | |
| | 5/16 | 0.312 | 48.86 | | | | |
| | 3/8 | 0.375 | 58.10 | | | | |
| | 1/2 | 0.500 | 76.07 | | | | |
| | 5/8 | 0.625 | 93.34 | | | | |

Larger sizes available, please inquire. See our hardware catalog for tubing accessories.

RECTANGULAR TUBE

Also available galvanized



| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) | Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) | |
|----------------------|-------------------|--------------------|-------------------|----------------------|-------------------|--------------------|-------------------|------|
| 1-1/2 x 1 | 16 | 0.065 | 1.047 | 3 x 1-1/2 | 16 | 0.065 | 1.932 | |
| | 14 | 0.083 | 1.317 | | 14 | 0.083 | 2.45 | |
| | 11 | 0.120 | 1.844 | | 11 | 0.120 | 3.48 | |
| | | | 3/16 | | 0.188 | 4.96 | | |
| 2 x 1 | 16 | 0.065 | 1.268 | 3 x 2 | 14 | 0.083 | 2.73 | |
| | 14 | 0.083 | 1.599 | | 11 | 0.120 | 3.90 | |
| | 11 | 0.120 | 2.252 | | 3/16 | 0.188 | 5.59 | |
| | | | 1/4 | | 0.250 | 7.11 | | |
| 2 x 1-1/4 | 14 | 0.083 | 1.741 | 5/16 | 0.312 | 8.45 | | |
| | 11 | 0.120 | 2.456 | 3-1/2 x 1-1/2 | 14 | 0.083 | 2.73 | |
| 2 x 1-1/2 | 11 | 0.120 | 2.66 | | 4 x 2 | 14 | 0.083 | 3.29 |
| | 14 | 0.083 | 1.882 | | | 11 | 0.120 | 4.75 |
| 2-1/2 x 1-1/2 | 14 | 0.083 | 2.164 | 3/16 | | 0.188 | 6.87 | |
| | 11 | 0.120 | 3.05 | 1/4 | | 0.250 | 8.81 | |
| | 3/16 | 0.188 | 4.32 | 5/16 | | 0.312 | 10.58 | |
| | 1/4 | 0.250 | 5.41 | 3/8 | | 0.375 | 12.17 | |
| 3 x 1 | 16 | 0.065 | 1.71 | | | | | |
| | 14 | 0.083 | 2.164 | | | | | |
| | 11 | 0.120 | 3.05 | | | | | |

Other sizes are available, please inquire.

RECTANGULAR TUBE

Also available galvanized



| Size (inches) | Thickness (gauge) (inches) | | Weight (lbs./ft.) |
|------------------|-------------------------------|-------|----------------------|
| 4 x 3 | 11 | 0.120 | 5.61 |
| | 3/16 | 0.188 | 8.15 |
| | 1/4 | 0.250 | 10.51 |
| | 5/16 | 0.312 | 12.70 |
| | 3/8 | 0.375 | 14.72 |
| 5 x 2 | 11 | 0.120 | 5.61 |
| | 3/16 | 0.188 | 8.15 |
| | 1/4 | 0.250 | 10.51 |
| | 5/16 | 0.312 | 12.70 |
| 5 x 3 | 11 | 0.120 | 6.46 |
| | 3/16 | 0.188 | 9.42 |
| | 1/4 | 0.250 | 12.21 |
| | 5/16 | 0.312 | 14.83 |
| | 3/8 | 0.375 | 17.27 |
| | 1/2 | 0.500 | 21.63 |
| 5 x 4 | 3/16 | 0.188 | 10.70 |
| | 1/4 | 0.250 | 13.91 |
| | 5/16 | 0.312 | 16.96 |
| | 3/8 | 0.375 | 19.82 |
| 6 x 2 | 11 | 0.120 | 6.46 |
| | 3/16 | 0.188 | 9.42 |
| | 1/4 | 0.250 | 12.21 |
| | 5/16 | 0.312 | 14.83 |
| | 3/8 | 0.375 | 17.27 |
| 6 x 3 | 3/16 | 0.188 | 10.70 |
| | 1/4 | 0.250 | 13.91 |
| | 5/16 | 0.312 | 16.96 |
| | 3/8 | 0.375 | 19.82 |
| | 1/2 | 0.500 | 25.03 |
| 6 x 4 | 3/16 | 0.188 | 11.97 |
| | 1/4 | 0.250 | 15.62 |
| | 5/16 | 0.312 | 19.08 |
| | 3/8 | 0.375 | 22.37 |
| | 1/2 | 0.500 | 28.43 |
| 7 x 3 | 3/16 | 0.188 | 11.97 |
| | 1/4 | 0.250 | 15.62 |

| Size (inches) | Thickness (gauge) (inches) | | Weight (lbs./ft.) |
|----------------------|-------------------------------|-------|----------------------|
| 7 x 3 (cont.) | 5/16 | 0.312 | 19.08 |
| | 3/8 | 0.375 | 22.37 |
| 7 x 4 | 3/16 | 0.188 | 13.25 |
| | 1/4 | 0.250 | 17.32 |
| | 5/16 | 0.312 | 21.21 |
| 7 x 5 | 3/8 | 0.375 | 24.93 |
| | 3/16 | 0.188 | 14.53 |
| 7 x 5 | 1/4 | 0.250 | 19.02 |
| | 5/16 | 0.312 | 23.34 |
| | 3/8 | 0.375 | 27.48 |
| | 1/2 | 0.500 | 35.24 |
| | 3/16 | 0.188 | 11.97 |
| 8 x 2 | 1/4 | 0.250 | 15.62 |
| | 3/8 | 0.375 | 22.37 |
| | 3/16 | 0.188 | 13.25 |
| 8 x 3 | 1/4 | 0.250 | 17.32 |
| | 5/16 | 0.312 | 21.21 |
| | 3/8 | 0.375 | 24.93 |
| | 1/2 | 0.500 | 31.84 |
| | 3/16 | 0.188 | 14.53 |
| 8 x 4 | 1/4 | 0.250 | 19.02 |
| | 5/16 | 0.312 | 23.34 |
| | 3/8 | 0.375 | 27.48 |
| | 1/2 | 0.500 | 35.24 |
| | 5/8 | 0.625 | 42.30 |
| | 3/16 | 0.188 | 17.08 |
| 8 x 6 | 1/4 | 0.250 | 22.42 |
| | 5/16 | 0.312 | 27.59 |
| | 3/8 | 0.375 | 32.58 |
| | 1/2 | 0.500 | 42.05 |
| 10 x 2 | 3/16 | 0.188 | 14.53 |
| | 1/4 | 0.250 | 19.02 |
| 10 x 4 | 3/16 | 0.188 | 17.08 |
| | 1/4 | 0.250 | 22.42 |



RECTANGULAR TUBE

Also available galvanized

| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) | Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) |
|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|
| 10 x 4 (cont.) | 5/16 | 0.312 | 27.59 | 12 x 8 (cont.) | 3/8 | 0.375 | 47.90 |
| | 3/8 | 0.375 | 32.58 | | 1/2 | 0.500 | 62.46 |
| | 1/2 | 0.500 | 42.05 | | 5/8 | 0.625 | 76.33 |
| 10 x 5 | 3/16 | 0.188 | 18.35 | 12 x 10 | 1/4 | 0.250 | 36.03 |
| | 1/4 | 0.250 | 24.12 | | 5/16 | 0.312 | 44.60 |
| | 5/16 | 0.312 | 29.72 | | 3/8 | 0.375 | 53.00 |
| | 3/8 | 0.375 | 35.13 | | 1/2 | 0.500 | 69.27 |
| 10 x 6 | 3/16 | 0.188 | 19.63 | 14 x 6 | 1/4 | 0.250 | 32.63 |
| | 1/4 | 0.250 | 25.82 | | 5/16 | 0.312 | 40.35 |
| | 5/16 | 0.312 | 31.84 | | 3/8 | 0.375 | 47.90 |
| | 3/8 | 0.375 | 37.69 | | 1/2 | 0.500 | 62.46 |
| | 1/2 | 0.500 | 48.85 | 5/8 | 0.625 | 76.33 | |
| | 5/8 | 0.625 | 59.32 | 14 x 10 | 5/16 | 0.312 | 48.86 |
| 10 x 8 | 3/16 | 0.188 | 22.18 | | 3/8 | 0.375 | 58.10 |
| | 1/4 | 0.250 | 29.29 | | 1/2 | 0.500 | 76.07 |
| | 5/16 | 0.312 | 36.38 | | 5/8 | 0.625 | 93.34 |
| | 3/8 | 0.375 | 42.79 | 16 x 8 | 5/16 | 0.312 | 48.86 |
| | 1/2 | 0.500 | 55.66 | | 3/8 | 0.375 | 58.10 |
| | 5/8 | 0.625 | 67.82 | | 1/2 | 0.500 | 76.07 |
| 12 x 2 | 3/16 | 0.188 | 17.08 | | 5/8 | 0.625 | 93.34 |
| | 1/4 | 0.250 | 22.42 | 16 x 12 | 5/16 | 0.312 | 57.36 |
| | 3/8 | 0.375 | 32.58 | | 3/8 | 0.375 | 68.31 |
| | 12 x 4 | 3/16 | 0.188 | | 19.63 | 1/2 | 0.500 |
| 1/4 | | 0.250 | 25.82 | | 5/8 | 0.625 | 110.36 |
| 5/16 | | 0.312 | 31.84 | 18 x 6 | 1/4 | 0.250 | 39.43 |
| 3/8 | | 0.375 | 37.69 | | 5/16 | 0.312 | 48.86 |
| 1/2 | | 0.500 | 48.85 | | 3/8 | 0.375 | 58.10 |
| 5/8 | | 0.625 | 59.32 | | 1/2 | 0.500 | 76.07 |
| 12 x 6 | 3/16 | 0.188 | 22.18 | 5/8 | 0.625 | 93.34 | |
| | 1/4 | 0.250 | 29.23 | 20 x 8 | 5/16 | 0.312 | 57.36 |
| | 5/16 | 0.312 | 36.10 | | 3/8 | 0.375 | 68.31 |
| | 3/8 | 0.375 | 42.79 | | 1/2 | 0.500 | 89.68 |
| | 1/2 | 0.500 | 55.66 | | 5/8 | 0.625 | 110.36 |
| | 5/8 | 0.625 | 67.82 | 20 x 12 | 5/16 | 0.312 | 65.87 |
| 12 x 8 | 3/16 | 0.188 | 24.73 | | 3/8 | 0.375 | 78.52 |
| | 1/4 | 0.250 | 32.63 | | 1/2 | 0.500 | 103.30 |
| | 5/16 | 0.312 | 40.35 | | 5/8 | 0.625 | 127.37 |



ROUND TUBE

Also available galvanized

| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) |
|------------------|----------------------|-----------------------|----------------------|
| 5/8 | 18 | 0.049 | .301 |
| | 16 | 0.065 | .389 |
| 3/4 | 16 | 0.065 | .476 |
| | 14 | 0.083 | .591 |
| | 11 | 0.120 | .807 |
| 1 | 16 | 0.065 | .649 |
| | 14 | 0.083 | .813 |
| | 11 | 0.120 | 1.128 |
| 1-1/8 | 16 | 0.065 | .736 |
| | 11 | 0.120 | 1.288 |
| 1-1/4 | 16 | 0.065 | .823 |
| | 11 | 0.120 | 1.448 |
| 1-3/8 | 16 | 0.065 | .909 |
| 1-1/2 | 16 | 0.065 | .996 |
| | 14 | 0.083 | 1.256 |
| | 12 | 0.102 | 1.619 |
| | 13 | 0.095 | 1.426 |
| | 3/16 | 0.188 | 2.634 |
| 1.66 | 14 | 0.083 | 1.367 |

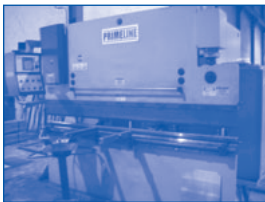
| Size (inches) | Thickness (gauge) | Thickness (inches) | Weight (lbs./ft.) |
|------------------|----------------------|-----------------------|----------------------|
| 1-3/4 | 16 | 0.065 | 1.170 |
| | 13 | 0.095 | 1.679 |
| | 11 | 0.120 | 2.089 |
| 1.90 | 16 | 0.065 | 1.257 |
| | 14 | 0.083 | 1.589 |
| 2 | 16 | 0.065 | 1.343 |
| | 14 | 0.083 | 1.699 |
| | 11 | 0.120 | 2.409 |
| 2-1/4 | 16 | 0.065 | 1.517 |
| | 11 | 0.120 | 2.730 |
| 3 | 16 | 0.065 | 2.037 |
| | 11 | 0.120 | 3.691 |
| | 1/4 | 0.250 | 7.343 |
| 3-1/4 | 1/4 | 0.250 | 8.010 |
| 3-1/2 | 16 | 0.065 | 2.385 |
| 4 | 16 | 0.065 | 2.732 |
| | 11 | 0.120 | 4.973 |
| 6 | 11 | 0.120 | 7.536 |
| | 7 | 0.188 | 11.190 |

PROCESSING CAPABILITIES

Steel Services

These photos show just some of the advanced equipment available to furnish you with material cut, processed, and ready for fabrication.

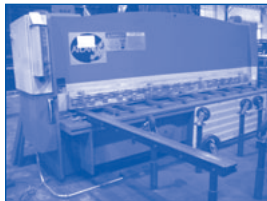
Our capabilities include sawing, shearing, flame cutting, slitting, blanking, punching, forming, cylinder rolling, welding and grinding.



Punch



Shear



Brake



Saw



Hi-Def Plasma

Other Services Include:

Plate and Structural Blast and Paint Line



STEEL PIPE

Dimensions and Weights

Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) |
|--------------------------|--------------------|-----------------|----------------------|-------------------|-------------------|
| 1/8 | 0.405 | 10S | 0.049 | 0.307 | 0.1863 |
| | | 40 40S Std. | 0.068 | 0.269 | 0.2447 |
| | | 80 80S Ex. Hvy. | 0.095 | 0.215 | 0.3145 |
| 1/4 | 0.540 | 10S | 0.065 | 0.410 | 0.3297 |
| | | 40 40S Std. | 0.088 | 0.364 | 0.4248 |
| | | 80 80S Ex. Hvy. | 0.119 | 0.302 | 0.5351 |
| 3/8 | 0.675 | 10S | 0.065 | 0.545 | 0.4235 |
| | | 40 40S Std. | 0.091 | 0.493 | 0.5676 |
| | | 80 80S Ex. Hvy. | 0.126 | 0.423 | 0.7388 |
| 1/2 | 0.840 | 5S | 0.065 | 0.710 | 0.5383 |
| | | 10S | 0.083 | 0.674 | 0.6710 |
| | | 40 40S Std. | 0.109 | 0.622 | 0.8510 |
| | | 80 80S Ex. Hvy. | 0.147 | 0.546 | 1.088 |
| | | 160 XX Hvy. | 0.187 | 0.466 | 1.304 |
| 3/4 | 1.050 | 5S | 0.065 | 0.920 | 0.6838 |
| | | 40 40S Std. | 0.113 | 0.824 | 1.131 |
| | | 80 80S Ex. Hvy. | 0.154 | 0.742 | 1.474 |
| | | 160 | 0.218 | 0.614 | 1.937 |
| | | XX Hvy. | 0.308 | 0.434 | 2.441 |
| 1 | 1.315 | 10S | 0.109 | 1.097 | 1.404 |
| | | 40 40S Std. | 0.133 | 1.049 | 1.679 |
| | | 80 80S Ex. Hvy. | 0.179 | 0.957 | 2.172 |
| | | 160 | 0.250 | 0.815 | 2.844 |
| | | XX Hvy. | 0.358 | 0.599 | 3.659 |
| 1-1/4 | 1.660 | 5S | 0.065 | 1.530 | 1.107 |
| | | 10S | 0.109 | 1.442 | 1.806 |
| | | 40 40S Std. | 0.140 | 1.380 | 2.273 |
| | | 80 80S Ex. Hvy. | 0.191 | 1.278 | 2.997 |
| | | 160 | 0.250 | 1.160 | 3.765 |
| XX Hvy. | 0.382 | 0.896 | 5.214 | | |

STEEL PIPE

Dimensions and Weights



Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) |
|--------------------------|--------------------|-----------------|----------------------|-------------------|-------------------|
| 1-1/2 | 1.900 | 10S | 0.109 | 1.682 | 2.085 |
| | | 40 40S Std. | 0.145 | 1.610 | 2.718 |
| | | 80 80S Ex. Hvy. | 0.200 | 1.500 | 3.631 |
| | | 160 | 0.281 | 1.338 | 4.859 |
| | | XX Hvy. | 0.400 | 1.100 | 6.408 |
| 2 | 2.375 | 5S | 0.065 | 2.245 | 1.604 |
| | | 10S | 0.109 | 2.157 | 2.638 |
| | | 40 40S Std. | 0.154 | 2.067 | 3.653 |
| | | 80 80S Ex. Hvy. | 0.218 | 1.939 | 5.022 |
| | | 160 | 0.343 | 1.689 | 7.444 |
| | | XX Hvy. | 0.436 | 1.503 | 9.029 |
| 2-1/2 | 2.875 | 5S | 0.083 | 2.709 | 2.475 |
| | | 10S | 0.120 | 2.635 | 3.531 |
| | | 40 40S Std. | 0.203 | 2.469 | 5.793 |
| | | 80 80S Ex. Hvy. | 0.276 | 2.323 | 7.661 |
| | | 160 | 0.375 | 2.125 | 10.01 |
| | | XX Hvy. | 0.552 | 1.771 | 13.69 |
| 3 | 3.500 | 10S | 0.120 | 3.260 | 4.332 |
| | | 40 40S Std. | 0.216 | 3.068 | 7.576 |
| | | 80 80S Ex. Hvy. | 0.300 | 2.900 | 10.25 |
| | | 160 | 0.438 | 2.624 | 14.32 |
| | | XX Hvy. | 0.600 | 2.300 | 18.58 |
| 3-1/2 | 4.000 | 5S | 0.083 | 3.834 | 3.472 |
| | | 10S | 0.120 | 3.760 | 4.973 |
| | | 40 40S Std. | 0.226 | 3.548 | 9.109 |
| | | 80 80S Ex. Hvy. | 0.318 | 3.364 | 12.50 |



STEEL PIPE

Dimensions and Weights

Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) |
|--------------------------|--------------------|-----------------|----------------------|-------------------|-------------------|
| 4 | 4.500 | 5S | 0.083 | 4.334 | 3.915 |
| | | 10S | 0.120 | 4.260 | 5.613 |
| | | 40 40S Std. | 0.237 | 4.026 | 10.79 |
| | | 80 80S Ex. Hvy. | 0.337 | 3.826 | 14.98 |
| | | 120 | 0.438 | 3.624 | 19.00 |
| | | 160 | 0.531 | 3.438 | 22.51 |
| | | XX Hvy. | 0.674 | 3.152 | 27.54 |
| 5 | 5.563 | 5S | 0.109 | 5.345 | 6.349 |
| | | 10S | 0.134 | 5.295 | 7.770 |
| | | 40 40S Std. | 0.258 | 5.047 | 14.62 |
| | | 80 80S Ex. Hvy. | 0.375 | 4.813 | 20.78 |
| | | 120 | 0.500 | 4.563 | 27.04 |
| | | 160 | 0.625 | 4.313 | 32.96 |
| | | XX Hvy. | 0.750 | 4.063 | 38.55 |
| 6 | 6.625 | 5S | 0.109 | 6.407 | 7.585 |
| | | 10S | 0.134 | 6.357 | 9.289 |
| | | 40 40S Std. | 0.280 | 6.056 | 18.97 |
| | | 80 80 Ex. Hvy. | 0.432 | 5.761 | 28.57 |
| | | 120 | 0.562 | 5.491 | 36.39 |
| | | 160 | 0.718 | 5.189 | 45.30 |
| | | XX Hvy. | 0.864 | 4.897 | 53.16 |
| 8 | 8.625 | 5S | 0.109 | 8.407 | 9.914 |
| | | 10S | 0.148 | 8.329 | 13.40 |
| | | 20 | 0.250 | 8.125 | 22.36 |
| | | 30 | 0.277 | 8.071 | 24.70 |
| | | 40 40S Std. | 0.322 | 7.981 | 28.55 |
| | | 60 | 0.406 | 7.813 | 35.64 |
| | | 80 80S Ex. Hvy. | 0.500 | 7.625 | 43.39 |
| | | 100 | 0.593 | 7.439 | 50.89 |
| | | 120 | 0.718 | 7.189 | 60.93 |
| | | 140 | 0.812 | 7.001 | 67.76 |
| | | XX Hvy. | 0.875 | 6.875 | 72.42 |
| | | 160 | 0.906 | 6.813 | 74.69 |

STEEL PIPE

Dimensions and Weights



Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) | |
|--------------------------|--------------------|-----------------|----------------------|-------------------|-------------------|--------|
| 10 | 10.750 | 5S | 0.134 | 10.482 | 15.19 | |
| | | | 0.165 | 10.420 | 18.70 | |
| | | | 0.250 | 10.250 | 28.04 | |
| | | 30 | 40S Std. | 0.307 | 10.136 | 34.24 |
| | | | | 0.365 | 10.020 | 40.48 |
| | | 60 | Ex. Hvy. | 0.500 | 9.750 | 54.74 |
| | | | | 0.593 | 9.564 | 64.33 |
| | | 100 | XX | 0.718 | 9.224 | 76.93 |
| | | | | 0.843 | 9.064 | 89.20 |
| | | 120 | XX | 1.000 | 8.750 | 104.1 |
| | | | | 1.125 | 8.500 | 115.7 |
| | | 12 | 12.750 | 5S | 0.165 | 12.420 |
| 0.180 | 12.390 | | | | 24.20 | |
| 0.250 | 12.250 | | | | 33.38 | |
| 30 | 40S Std. | | | 0.330 | 12.090 | 43.77 |
| | | | | 0.375 | 12.000 | 49.56 |
| 40 | 80S Ex. Hvy. | | | 0.406 | 11.938 | 53.53 |
| | | | | 0.500 | 11.750 | 65.42 |
| 60 | 80S Ex. Hvy. | | | 0.562 | 11.626 | 73.16 |
| | | | | 0.687 | 11.376 | 88.51 |
| 100 | XX | | | 0.843 | 11.064 | 107.2 |
| | | | | 1.000 | 10.750 | 125.5 |
| 120 | XX | | | 1.000 | 10.750 | 125.5 |
| | | | | 1.125 | 10.500 | 139.7 |
| 140 | XX | | | 1.125 | 10.500 | 139.7 |
| | | 1.312 | 10.126 | 160.3 | | |
| 14 | 14.000 | 10 | 0.250 | 13.500 | 36.71 | |
| | | | 0.312 | 13.376 | 45.68 | |
| | | | 0.375 | 13.250 | 54.57 | |
| | | 30 | Std. | 0.438 | 13.124 | 63.37 |
| | | | | 0.500 | 13.000 | 72.09 |
| | | 60 | Ex. Hvy. | 0.593 | 12.814 | 84.91 |
| | | | | 0.750 | 12.500 | 106.1 |
| | | 100 | XX | 0.937 | 12.126 | 130.7 |
| | | | | 1.093 | 11.814 | 150.7 |
| | | 120 | XX | 1.093 | 11.814 | 150.7 |
| | | | | 1.250 | 11.500 | 170.2 |
| | | 140 | XX | 1.250 | 11.500 | 170.2 |
| 1.406 | 11.188 | | | 189.1 | | |
| 160 | XX | 1.406 | 11.188 | 189.1 | | |
| | | 1.406 | 11.188 | 189.1 | | |



STEEL PIPE

Dimensions and Weights

Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) |
|-----------------------------|-----------------------|--------------------|-------------------------|----------------------|----------------------|
| 16 | 16.000 | 10 | 0.250 | 15.500 | 42.05 |
| | | 20 | 0.312 | 15.376 | 52.36 |
| | | 30 Std. | 0.375 | 15.250 | 62.58 |
| | | 40 Ex. Hvy. | 0.500 | 15.000 | 82.77 |
| | | 60 | 0.656 | 14.688 | 107.5 |
| | | 80 | 0.843 | 14.314 | 136.5 |
| | | 100 | 1.031 | 13.938 | 164.8 |
| | | 120 | 1.218 | 13.564 | 192.3 |
| | | 140 | 1.438 | 13.124 | 223.5 |
| | | 160 | 1.593 | 12.814 | 245.1 |
| 18 | 18.000 | 10 | 0.250 | 17.500 | 47.39 |
| | | 20 | 0.312 | 17.376 | 59.03 |
| | | Std. | 0.375 | 17.250 | 70.59 |
| | | 30 | 0.438 | 17.124 | 82.06 |
| | | Ex. Hvy. | 0.500 | 17.000 | 93.45 |
| | | 40 | 0.562 | 16.876 | 104.8 |
| | | 60 | 0.750 | 16.500 | 138.2 |
| | | 80 | 0.937 | 16.126 | 170.8 |
| | | 100 | 1.156 | 15.688 | 208.0 |
| | | 120 | 1.375 | 15.250 | 244.1 |
| 140 | 1.562 | 14.876 | 274.2 | | |
| 160 | 1.781 | 14.438 | 308.5 | | |
| 20 | 20.000 | 10 | 0.250 | 19.500 | 52.73 |
| | | 20 Std. | 0.375 | 19.250 | 78.60 |
| | | 30 Ex. Hvy. | 0.500 | 19.000 | 104.1 |
| | | 40 | 0.593 | 18.814 | 122.9 |
| | | 60 | 0.812 | 18.376 | 166.4 |
| | | 80 | 1.031 | 17.938 | 208.9 |
| | | 100 | 1.281 | 17.438 | 256.1 |
| | | 120 | 1.500 | 17.000 | 296.4 |
| | | 140 | 1.750 | 16.500 | 341.1 |
| | | 160 | 1.968 | 16.064 | 379.0 |

STEEL PIPE

Dimensions and Weights



Also available galvanized.

| Nominal Pipe Sizes (in.) | Outside Dia. (in.) | I.P.S. Schedule | Wall Thickness (in.) | Inside Dia. (in.) | Weight (lbs./ft.) |
|--------------------------|--------------------|-----------------|----------------------|-------------------|-------------------|
| 24 | 24.000 | 10 | 0.250 | 23.500 | 63.41 |
| | | 20 Std. | 0.375 | 23.250 | 94.62 |
| | | Ex. Hvy. | 0.500 | 23.000 | 125.5 |
| | | 30 | 0.562 | 22.876 | 140.8 |
| | | 40 | 0.687 | 22.626 | 171.2 |
| | | 60 | 0.968 | 22.064 | 238.1 |
| | | 80 | 1.218 | 21.564 | 296.4 |
| | | 100 | 1.531 | 20.938 | 367.4 |
| | | 120 | 1.812 | 20.376 | 429.4 |
| 30 | 30.000 | 10 | 0.312 | 29.376 | 98.9 |
| | | Std. | 0.375 | 29.250 | 118.7 |
| | | 20 Ex. Hvy. | 0.500 | 29.000 | 157.5 |
| | | 30 | 0.625 | 28.750 | 196.1 |
| 36 | 36.000 | Std. | 0.375 | 35.250 | 142.7 |
| | | Ex. Hvy. | 0.500 | 35.000 | 189.6 |
| 38 | 38.000 | | 0.312 | 37.367 | 125.58 |
| | | | 0.375 | 37.250 | 150.69 |
| | | | 0.500 | 37.000 | 200.25 |
| 40 | 40.000 | | 0.312 | 39.376 | 132.25 |
| | | | 0.375 | 39.250 | 158.70 |
| | | | 0.500 | 39.000 | 210.93 |
| 42 | 42.000 | | 0.312 | 41.376 | 138.91 |
| | | | 0.375 | 41.250 | 166.71 |
| | | | 0.500 | 41.000 | 221.61 |



PERFORATED METAL

Ask your sales person for more information



STD. EXPANDED METAL

See page 43 for flattened expanded metal



Also available in aluminum, stainless steel and galvanized.

| Size - Style (inches) (number) | Weight per 100 ft ² (lbs.) | Center to Center of Bond (inches) | | Size of Opening (inches) | | Size of Strands (inches) | | Overall Thickness (inches) |
|--------------------------------------|---|--------------------------------------|----------|-----------------------------|----------|-----------------------------|--------|----------------------------------|
| | | A Width | B Length | C Width | D Length | Width | Thick. | |
| 3/16 - No. 24 | 50 | 0.200 | 0.50 | 0.166 | 0.437 | 0.050 | 0.024 | 0.086 |
| 3/16 - No. 22 | 62 | 0.200 | 0.50 | 0.166 | 0.437 | 0.050 | 0.030 | 0.088 |
| 3/16 - No. 20 | 75 | 0.200 | 0.50 | 0.166 | 0.437 | 0.050 | 0.036 | 0.090 |
| 1/4 - No. 20 | 86 | 0.255 | 1.00 | 0.172 | 0.719 | 0.073 | 0.036 | 0.125 |
| 1/4 - No. 18 | 114 | 0.255 | 1.00 | 0.172 | 0.719 | 0.073 | 0.048 | 0.125 |
| 1/2 - No. 20 | 43 | 0.500 | 1.20 | 0.438 | 0.938 | 0.072 | 0.036 | 0.124 |
| 1/2 - No. 18 | 70 | 0.500 | 1.20 | 0.438 | 0.938 | 0.088 | 0.048 | 0.155 |
| 1/2 - No. 16 | 86 | 0.500 | 1.20 | 0.375 | 0.938 | 0.086 | 0.060 | 0.157 |
| 1/2 - No. 13 | 147 | 0.500 | 1.20 | 0.313 | 0.938 | 0.096 | 0.092 | 0.182 |
| 3/4 - No. 16 | 54 | 0.923 | 2.00 | 0.813 | 1.750 | 0.099 | 0.060 | 0.186 |
| 3/4 - No. 13 | 80 | 0.923 | 2.00 | 0.750 | 1.688 | 0.096 | 0.092 | 0.195 |
| 3/4 - No. 10 | 120 | 0.923 | 2.00 | 0.750 | 1.625 | 0.144 | 0.092 | 0.282 |
| 3/4 - No. 9 | 180 | 0.923 | 2.00 | 0.688 | 1.563 | 0.148 | 0.134 | 0.300 |
| 1 - No. 16 | 44 | 1.090 | 2.40 | 1.000 | 2.063 | 0.096 | 0.060 | 0.182 |
| 1-1/2 - No. 18 | 20 | 1.330 | 3.00 | 1.313 | 2.625 | 0.067 | 0.048 | 0.140 |
| 1-1/2 - No. 16 | 40 | 1.330 | 3.00 | 1.250 | 2.625 | 0.107 | 0.060 | 0.211 |
| 1-1/2 - No. 13 | 60 | 1.330 | 3.00 | 1.188 | 2.500 | 0.104 | 0.092 | 0.215 |
| 1-1/2 - No. 10 | 79 | 1.330 | 3.00 | 1.188 | 2.500 | 0.137 | 0.092 | 0.289 |
| 1-1/2 - No. 9 | 120 | 1.330 | 3.00 | 1.125 | 2.375 | 0.142 | 0.134 | 0.295 |
| 1-1/2 - No. 6 | 250 | 1.330 | 3.00 | 1.000 | 2.313 | 0.201 | 0.198 | 0.425 |
| 2 - No. 10 | 68 | 1.850 | 4.00 | 1.625 | 3.438 | 0.164 | 0.092 | 0.312 |
| 2 - No. 9 | 90 | 1.850 | 4.00 | 1.563 | 3.375 | 0.149 | 0.134 | 0.325 |



EXPANDED METAL GRATING

Standard size sheet is 4 ft. x 8 ft.



Also available in aluminum, stainless steel and galvanized.

| Size - Style (inches) (number) | Weight per 100 ft ² (lbs.) | Center to Center of Bond (inches) | | Size of Opening (inches) | | Size of Strands (inches) | | Overall Thickness (inches) |
|--------------------------------------|---|--------------------------------------|----------|-----------------------------|----------|-----------------------------|--------|----------------------------------|
| | | A Width | B Length | C Width | D Length | Width | Thick. | |
| 3 lb. | 300 | 1.333 | 5.33 | 0.938 | 3.438 | 0.261 | 0.183 | 0.500 |
| 3.14 lb. | 314 | 2.000 | 6.00 | 1.625 | 4.875 | 0.308 | 0.250 | 0.562 |
| 4 lb. | 400 | 1.333 | 5.33 | 0.938 | 3.438 | 0.297 | 0.215 | 0.625 |
| 4.27 lb. | 427 | 1.412 | 4.00 | 1.000 | 2.875 | 0.297 | 0.250 | 0.625 |
| 5 lb. | 500 | 1.333 | 5.333 | 0.813 | 3.375 | 0.327 | 0.250 | 0.625 |
| 6.25 lb. | 625 | 1.412 | 5.33 | 0.813 | 3.375 | 0.347 | 0.312 | 0.750 |
| 7 lb. | 700 | 1.412 | 5.33 | 0.813 | 3.375 | 0.388 | 0.312 | 0.750 |



FLATTENED EXPANDED METAL

Standard size sheet is 4 ft. x 8 ft.



Also available in aluminum, stainless steel and galvanized.

| Size - Style (inches) (number) | Weight per 100 ft ² (lbs.) | Center to Center of Bond (inches) | | Size of Opening (inches) | | Size of Strands (inches) | | Overall Thickness (inches) |
|--------------------------------------|---|--------------------------------------|----------|-----------------------------|----------|-----------------------------|--------|----------------------------------|
| | | A Width | B Length | C Width | D Length | Width | Thick. | |
| 3/16 - No. 24 | 48 | 0.200 | 0.52 | 0.085 | 0.459 | 0.057 | 0.019 | 0.019 |
| 3/16 - No. 22 | 60 | 0.200 | 0.52 | 0.085 | 0.459 | 0.057 | 0.024 | 0.024 |
| 3/16 - No. 20 | 72 | 0.200 | 0.52 | 0.085 | 0.459 | 0.057 | 0.029 | 0.029 |
| 1/4 - No. 20 | 83 | 0.255 | 1.03 | 0.094 | 0.688 | 0.086 | 0.030 | 0.030 |
| 1/4 - No. 18 | 111 | 0.255 | 1.03 | 0.094 | 0.688 | 0.086 | 0.040 | 0.040 |
| 1/2 - No. 20 | 40 | 0.500 | 1.26 | 0.375 | 1.000 | 0.070 | 0.029 | 0.029 |
| 1/2 - No. 18 | 66 | 0.500 | 1.26 | 0.281 | 1.000 | 0.109 | 0.039 | 0.039 |
| 1/2 - No. 16 | 82 | 0.500 | 1.26 | 0.250 | 1.000 | 0.103 | 0.050 | 0.050 |
| 1/2 - No. 13 | 140 | 0.500 | 1.26 | 0.250 | 1.000 | 0.122 | 0.070 | 0.070 |
| 3/4 - No. 16 | 51 | 0.923 | 2.10 | 0.750 | 1.750 | 0.115 | 0.048 | 0.048 |
| 3/4 - No. 14 | 63 | 0.923 | 2.12 | 0.688 | 1.813 | 0.119 | 0.061 | 0.061 |
| 3/4 - No. 13 | 75 | 0.923 | 2.10 | 0.688 | 1.782 | 0.119 | 0.070 | 0.070 |
| 3/4 - No. 9 | 171 | 0.923 | 2.12 | 0.563 | 1.688 | 0.164 | 0.120 | 0.120 |
| 1 - No. 16 | 41 | 1.090 | 2.56 | 0.875 | 2.250 | 0.115 | 0.048 | 0.048 |
| 1-1/2 - No. 16 | 38 | 1.330 | 3.20 | 1.063 | 2.750 | 0.123 | 0.048 | 0.048 |
| 1-1/2 - No. 14 | 46 | 1.330 | 3.20 | 1.063 | 2.750 | 0.138 | 0.060 | 0.060 |
| 1-1/2 - No. 13 | 57 | 1.330 | 3.20 | 1.063 | 2.750 | 0.138 | 0.070 | 0.070 |
| 1-1/2 - No. 9 | 111 | 1.330 | 3.20 | 1.000 | 2.563 | 0.175 | 0.110 | 0.110 |

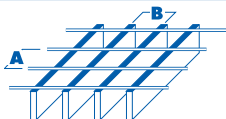
Standard sheet size is 4'x8'. Other sizes are available.



BAR GRATING

Smooth or Serrated, Welded

Also available in aluminum, stainless steel and galvanized.



Typical Dimensions

| A | B |
|-------------------------------|--------|
| 4 | 1-3/16 |
| Standard space pattern (19W4) | |

Standard Sheet Sizes

| |
|----------------|
| 2 ft. x 20 ft. |
| 2 ft. x 24 ft. |
| 3 ft. x 24 ft. |
| 3 ft. x 30 ft. |

Other patterns are available. We can furnish this product fabricated to your requirements.

| Bearing Bar Size (in.) | Weight Per ft ² |
|------------------------|----------------------------|
| 3/4 x 1/8 | 3.9 |
| 3/4 x 3/16 | 5.5 |
| 1 x 1/8 | 4.9 |
| 1 x 3/16 std. | 7.1 |
| 1 x 1/4 | 9.2 |

| Bearing Bar Size (in.) | Weight Per ft ² |
|------------------------|----------------------------|
| 1-1/4 x 1/8 | 6.0 |
| 1-1/4 x 3/16* | 8.7 |
| 1-1/4 x 1/4 | 11.4 |
| 1-1/2 x 1/8 | 7.1 |
| 1-1/2 x 3/16 | 10.3 |
| 1-1/2 x 1/4 | 13.5 |

| Bearing Bar Size (in.) | Weight Per ft ² |
|------------------------|----------------------------|
| 1-3/4 x 3/16 | 12.1 |
| 1-3/4 x 1/4 | 15.7 |
| 2 x 3/16 | 13.8 |
| 2 x 1/4 | 18.1 |
| 2-1/4 x 3/16 | 14.8 |
| 2-1/4 x 1/4 | 20.0 |

| Bearing Bar Size (in.) | Weight Per ft ² |
|------------------------|----------------------------|
| 2-1/2 x 3/16 | 17.0 |
| 2-1/2 x 1/4 | 22.1 |

* Standard Size

We stock friction and saddle bar grating clips.



STAINLESS STEEL ANGLES

Type 304-316, 20 ft. random length



| Size (inches) | | | Weight Per ft. (lbs.) |
|---------------|-------|------|-----------------------|
| A | B | C | |
| 3/4 | 3/4 | 1/8 | 0.59 |
| 1 | 1 | 1/8 | 0.80 |
| 1 | 1 | 3/16 | 1.160 |
| 1-1/4 | 1-1/4 | 1/8 | 1.010 |
| 1-1/4 | 1-1/4 | 3/16 | 1.480 |
| 1-1/2 | 1-1/2 | 1/8 | 1.230 |
| 1-1/2 | 1-1/2 | 3/16 | 1.800 |
| 1-1/2 | 1-1/2 | 1/4 | 2.340 |

| Size (inches) | | | Weight Per ft. (lbs.) |
|---------------|-------|------|-----------------------|
| A | B | C | |
| 2 | 2 | 1/8 | 1.650 |
| 2 | 2 | 3/16 | 2.44 |
| 2 | 2 | 1/4 | 3.190 |
| 2-1/2 | 2-1/2 | 3/16 | 3.070 |
| 2-1/2 | 2-1/2 | 1/4 | 4.100 |
| 3 | 3 | 1/4 | 4.90 |
| 4 | 4 | 1/4 | 6.60 |



STAINLESS STEEL FLATS

Type 304-316, 12 ft. random length



| Thick. (inches) | Width (inches) | Weight Per ft. (lbs.) | Thick. (inches) | Width (inches) | Weight Per ft. (lbs.) | Thick. (inches) | Width (inches) | Weight Per ft. (lbs.) |
|-----------------|----------------|-----------------------|-----------------|----------------|-----------------------|-----------------|----------------|-----------------------|
| 1/8 | 1 | 0.425 | 3/16 | 3 | 1.913 | 3/8 | 1 | 1.275 |
| 1/8 | 1-1/4 | 0.531 | 3/16 | 4 | 2.550 | 3/8 | 1-1/4 | 1.594 |
| 1/8 | 1-1/2 | 0.638 | | | | 3/8 | 1-1/2 | 1.913 |
| 1/8 | 2 | 0.850 | 1/4 | 1 | 0.850 | 3/8 | 2 | 2.550 |
| 1/8 | 2-1/2 | 1.063 | 1/4 | 1-1/4 | 1.063 | 3/8 | 2-1/2 | 3.188 |
| 1/8 | 3 | 1.275 | 1/4 | 1-1/2 | 1.275 | 3/8 | 3 | 3.825 |
| 1/8 | 4 | 1.700 | 1/4 | 2 | 1.700 | 3/8 | 4 | 5.100 |
| | | | 1/4 | 2 | 1.700 | 3/8 | 6 | 7.650 |
| 3/16 | 1 | 0.638 | 1/4 | 2-1/2 | 2.125 | | | |
| 3/16 | 1-1/4 | 0.797 | 1/4 | 3 | 2.550 | 1/2 | 1 | 1.700 |
| 3/16 | 1-1/2 | 0.956 | 1/4 | 4 | 3.400 | 1/2 | 1-1/2 | 2.550 |
| 3/16 | 2 | 1.275 | 1/4 | 6 | 5.100 | 1/2 | 2 | 3.400 |
| 3/16 | 2-1/2 | 1.594 | | | | 1/2 | 3 | 5.100 |
| | | | | | | 1/2 | 4 | 6.800 |



STAINLESS STEEL CHANNEL

Type 304, 20 ft. random length



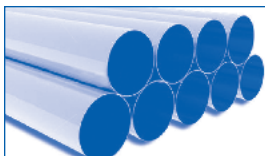
| A | Size (inches) B | C | Weight Per ft. (lbs.) | A | Size (inches) B | C | Weight Per ft. (lbs.) |
|-------|--------------------|-----|-----------------------|---|--------------------|-------|-----------------------|
| 1-1/2 | 3/4 | 1/8 | 1.200 | 3 | 1-1/2 | 1/4 | 4.750 |
| 2 | 1 | 1/8 | 1.530 | 4 | 1-3/4 | 1/4 | 6.690 |
| 2 | 1 | 1/4 | 3.150 | 6 | 1.9 | 0.343 | 8.300 |

STAINLESS STEEL PIPE (SCH. 40)

Type 304-316, 20 ft. random length



| Nominal Pipe Size (inches) | Weight Per ft. (lbs) | O.D. (inches) | Wall Thick. (in) | Nominal Pipe Size (inches) | Weight Per ft. (lbs) | O.D. (inches) | Wall Thick. (in) |
|----------------------------|----------------------|---------------|------------------|----------------------------|----------------------|---------------|------------------|
| 1/2 | 0.851 | 0.840 | 0.109 | 1 | 1.679 | 1.315 | 0.133 |
| 3/4 | 1.131 | 1.050 | 0.113 | 1-1/4 | 2.273 | 1.660 | 0.140 |
| | | | | 1-1/2 | 2.718 | 1.990 | 0.145 |
| | | | | 2 | 3.653 | 2.375 | 0.154 |
| | | | | 2-1/2 | 5.793 | 2.875 | 0.203 |
| | | | | 3 | 7.576 | 3.500 | 0.216 |
| | | | | 4 | 10.89 | 4.500 | 0.237 |





STAINLESS STEEL PLATE

Type 304-316

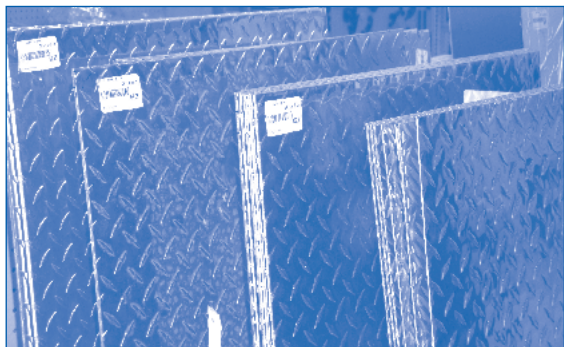
| Thickness (inches) | | Weight Per ft ² (lbs.) | Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------------|---------|--------------------------------------|--------------------|---------|--------------------------------------|
| Fractional | Decimal | | Fractional | Decimal | |
| 3/16 | 0.188 | 8.58 | 1/2 | 0.500 | 21.66 |
| 1/4 | 0.250 | 11.16 | 5/8 | 0.625 | 26.83 |
| 5/16 | 0.312 | 13.75 | 3/4 | 0.750 | 32.12 |
| 3/8 | 0.375 | 16.50 | 1 | 1.00 | 42.67 |



STAINLESS STEEL FLOOR PLATE

Type 304

| Thickness (inches) | Weight Per ft ² (lbs.) | Thickness (inches) | Weight Per ft ² (lbs.) | Thickness (inches) | Weight Per ft ² (lbs.) |
|-----------------------|--------------------------------------|-----------------------|--------------------------------------|-----------------------|--------------------------------------|
| 1/8 | 6.15 | 3/16 | 8.70 | 1/4 | 11.25 |



STAINLESS STEEL SHEETS

Type 304-316

| Thickness | | Weight Per ft ² (lbs.) | Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------|-------|--------------------------------------|--------------------|---------|--------------------------------------|
| Decimal (in) | Gauge | | Fractional | Decimal | |
| 0.0235 | 24 | 0.987 | 0.0751 | 14 | 3.154 |
| 0.0293 | 22 | 1.231 | 0.1054 | 12 | 4.427 |
| 0.0355 | 20 | 1.491 | 0.1200 | 11 | 5.040 |
| 0.0480 | 18 | 2.016 | 0.1350 | 10 | 5.670 |
| 0.0595 | 16 | 2.499 | | | |

STAINLESS STEEL ROUND BAR

Type 304, 12 ft. random length



| Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------------|---------|--------------------------------------|
| Fractional | Decimal | |
| 3/16 | 0.188 | 0.09 |
| 1/4 | 0.250 | 0.17 |
| 5/16 | 0.312 | 0.26 |
| 3/8 | 0.375 | 0.38 |
| 1/2 | 0.500 | 0.67 |
| 5/8 | 0.625 | 1.04 |
| 3/4 | 0.750 | 1.50 |

| Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------------|---------|--------------------------------------|
| Fractional | Decimal | |
| 1 | 1.000 | 2.67 |
| 1-1/8 | 1.125 | 3.38 |
| 1-1/4 | 1.250 | 4.17 |
| 1-1/2 | 1.500 | 6.01 |
| 1-3/4 | 1.750 | 8.178 |
| 2 | 2.000 | 10.68 |
| 2-1/4 | 2.250 | 13.52 |

STAINLESS STEEL SQUARE BAR

Type 304, 12 ft. random length



| Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------------|---------|--------------------------------------|
| Fractional | Decimal | |
| 3/16 | 0.188 | 0.120 |
| 1/4 | 0.250 | 0.213 |
| 5/16 | 0.312 | 0.332 |
| 3/8 | 0.375 | 0.478 |

| Thickness (inches) | | Weight Per ft ² (lbs.) |
|--------------------|---------|--------------------------------------|
| Fractional | Decimal | |
| 1/2 | 0.500 | 0.850 |
| 5/8 | 0.625 | 1.328 |
| 3/4 | 0.750 | 1.913 |
| 1 | 1.0 | 3.400 |

STAINLESS STEEL SQUARE TUBE

Type 304, 20 ft. random length



| Size (inches) | Wall Thickness (gauge) | Wall Thickness (inches) | Weight (lbs./ft.) |
|------------------|---------------------------|----------------------------|----------------------|
| 1 | 16 | 0.065 | 0.827 |
| 1 | 11 | 0.120 | 1.436 |
| 1-1/4 | 16 | 0.065 | 1.050 |
| 1-1/4 | 11 | 0.120 | 1.844 |
| 1-1/2 | 16 | 0.065 | 1.270 |
| 1-1/2 | 11 | 0.120 | 2.255 |

| Size (inches) | Wall Thickness (gauge) | Wall Thickness (inches) | Weight (lbs./ft.) |
|------------------|---------------------------|----------------------------|----------------------|
| 2 | 16 | 0.065 | 1.710 |
| 2 | 11 | 0.120 | 3.068 |
| 3 | 11 | 0.120 | 4.700 |
| 4 | 11 | 0.120 | 6.26 |



6061-T6 ALUM. ANGLES

Structural, 25 ft. length



| A x B x C Sizes (inches) | Weight in Pounds Per ft. /25 ft. | |
|-----------------------------|-------------------------------------|-------|
| 1/2 x 1/2 x 1/8 | 0.128 | 3.20 |
| 3/4 x 3/4 x 1/8 | 0.201 | 5.03 |
| 1 x 1 x 1/8 | 0.275 | 6.88 |
| 1 x 1 x 3/16 | 0.400 | 10.00 |
| 1 x 1 x 1/4 | 0.514 | 12.85 |
| 1-1/4 x 1-1/4 x 1/8 | 0.343 | 8.58 |
| 1-1/4 x 1-1/4 x 3/16 | 0.510 | 12.75 |
| 1-1/4 x 1-1/4 x 1/4 | 0.656 | 16.40 |
| 1-1/2 x 1-1/2 x 1/8 | 0.423 | 10.58 |
| 1-1/2 x 1-1/2 x 3/16 | 0.619 | 15.48 |
| 1-1/2 x 1-1/2 x 1/4 | 0.809 | 20.23 |
| 1-1/2 x 1-1/2 x 3/8 | 1.176 | 29.40 |
| 1-3/4 x 1-3/4 x 1/8 | 0.497 | 12.43 |
| 1-3/4 x 1-3/4 x 3/16 | 0.731 | 18.28 |
| 1-3/4 x 1-3/4 x 1/4 | 0.956 | 23.90 |
| 1-3/4 x 1-3/4 x 5/16 | 1.171 | 29.28 |
| 1-3/4 x 1-3/4 x 3/8 | 1.378 | 34.45 |
| 2 x 2 x 1/8 | 0.577 | 14.43 |
| 2 x 2 x 3/16 | 0.850 | 21.25 |
| 2 x 2 x 1/4 | 1.110 | 27.75 |
| 2 x 2 x 5/16 | 1.364 | 34.10 |
| 2 x 2 x 3/8 | 1.606 | 40.15 |

| A x B x C Sizes (inches) | Weight in Pounds Per ft. /25 ft. | |
|-----------------------------|-------------------------------------|--------|
| 2-1/2 x 2-1/2 x 1/8 | 0.724 | 18.10 |
| 2-1/2 x 2-1/2 x 3/16 | 1.070 | 26.75 |
| 2-1/2 x 2-1/2 x 1/4 | 1.404 | 35.10 |
| 2-1/2 x 2-1/2 x 5/16 | 1.729 | 43.23 |
| 2-1/2 x 2-1/2 x 3/8 | 2.047 | 51.18 |
| 3 x 3 x 3/16 | 1.275 | 31.88 |
| 3 x 3 x 1/4 | 1.684 | 42.10 |
| 3 x 3 x 5/16 | 2.082 | 52.05 |
| 3 x 3 x 3/8 | 2.474 | 61.85 |
| 3 x 3 x 1/2 | 3.227 | 80.68 |
| 3-1/2 x 3-1/2 x 1/4 | 1.989 | 49.73 |
| 3-1/2 x 3-1/2 x 5/16 | 2.461 | 61.53 |
| 3-1/2 x 3-1/2 x 3/8 | 2.926 | 73.15 |
| 3-1/2 x 3-1/2 x 1/2 | 3.826 | 95.65 |
| 4 x 4 x 1/4 | 2.283 | 57.08 |
| 4 x 4 x 5/16 | 2.829 | 70.73 |
| 4 x 4 x 3/8 | 3.366 | 84.15 |
| 4 x 4 x 1/2 | 4.414 | 110.35 |
| 4 x 4 x 5/8 | 5.425 | 135.63 |
| 5 x 5 x 3/8 | 4.237 | 105.93 |
| 5 x 5 x 1/2 | 5.578 | 139.45 |
| 6 x 6 x 3/8 | 5.119 | 127.98 |
| 6 x 6 x 1/2 | 6.754 | 168.85 |
| 6 x 6 x 5/8 | 8.352 | 208.80 |
| 8 x 8 x 1/2 | 9.141 | 228.53 |
| 8 x 8 x 3/4 | 13.478 | 336.95 |



6061-T6 ALUM. CHANNELS

Structural, American Std. 25 ft. length



| A x B x C Sizes (inches) | Weight in Pounds Per ft. /25 ft. | |
|-----------------------------|-------------------------------------|--------|
| 3 x 1.410 x 0.170 | 1.417 | 35.43 |
| 3 x 1.498 x 0.258 | 1.729 | 43.23 |
| 3 x 1.596 x 0.356 | 2.074 | 51.85 |
| 4 x 1.580 x 0.180 | 1.846 | 46.15 |
| 4 x 1.647 x 0.247 | 2.161 | 54.03 |
| 4 x 1.720 x 0.320 | 2.504 | 62.60 |
| 5 x 1.750 x 0.190 | 2.316 | 57.90 |
| 5 x 1.885 x 0.325 | 3.108 | 77.70 |
| 5 x 2.032 x 0.472 | 3.975 | 99.38 |
| 6 x 1.920 x 0.200 | 2.826 | 70.65 |
| 6 x 1.945 x 0.225 | 3.002 | 75.05 |
| 6 x 2.034 x 0.314 | 3.631 | 90.78 |
| 6 x 2.157 x 0.437 | 4.498 | 112.45 |
| 7 x 2.110 x 0.230 | 3.541 | 88.53 |
| 7 x 2.194 x 0.314 | 4.232 | 105.80 |

| A x B x C Sizes (inches) | Weight in Pounds Per ft. /25 ft. | |
|-----------------------------|-------------------------------------|--------|
| 8 x 2.290 x 0.250 | 4.252 | 106.30 |
| 8 x 2.343 x 0.303 | 4.751 | 118.78 |
| 8 x 2.435 x 0.395 | 5.617 | 140.43 |
| 8 x 2.527 x 0.487 | 6.484 | 162.10 |
| 9 x 2.430 x 0.230 | 4.604 | 115.10 |
| 9 x 2.648 x 0.448 | 6.911 | 172.78 |
| 10 x 2.600 x 0.240 | 5.278 | 131.95 |
| 10 x 2.739 x 0.379 | 6.915 | 172.88 |
| 10 x 2.886 x 0.526 | 8.641 | 216.03 |
| 12 x 2.960 x 0.300 | 7.411 | 185.28 |
| 12 x 3.047 x 0.387 | 8.639 | 215.98 |
| 12 x 3.170 x 0.510 | 10.374 | 259.35 |
| 15 x 3.400 x 0.400 | 11.708 | 292.70 |



6061-T6 ALUM. ROUND BAR

12 ft. length

| Diameter (inches) | Weight in Pounds | |
|----------------------|------------------|---------|
| | Per ft. | /25 ft. |
| 1/8 | 0.014 | 0.17 |
| 3/16 | 0.032 | 0.38 |
| 7/32 | 0.044 | 0.53 |
| 1/4 | 0.058 | 0.70 |
| 5/16 | 0.090 | 1.08 |
| 3/8 | 0.130 | 1.56 |
| 7/16 | 0.177 | 2.12 |
| 1/2 | 0.230 | 2.76 |
| 9/16 | 0.292 | 3.50 |
| 5/8 | 0.360 | 4.32 |
| 3/4 | 0.519 | 6.23 |
| 7/8 | 0.706 | 8.47 |
| 1 | 0.923 | 11.08 |
| 1-1/8 | 1.168 | 14.02 |
| 1-1/4 | 1.442 | 17.30 |
| 1-5/16 | 1.590 | 19.08 |
| 1-3/8 | 1.745 | 20.94 |
| 1-7/16 | 1.907 | 22.88 |
| 1-1/2 | 2.076 | 24.91 |
| 1-5/8 | 2.436 | 29.23 |
| 1-3/4 | 2.826 | 33.91 |
| 1-13/16 | 3.031 | 36.37 |
| 1-7/8 | 3.244 | 38.93 |

| Diameter (inches) | Weight in Pounds | |
|----------------------|------------------|---------|
| | Per ft. | /25 ft. |
| 2 | 3.691 | 44.29 |
| 2-1/8 | 4.166 | 49.99 |
| 2-1/4 | 4.671 | 56.05 |
| 2-1/2 | 5.767 | 69.20 |
| 2-5/8 | 6.358 | 76.30 |
| 2-3/4 | 6.978 | 83.74 |
| 3 | 8.304 | 99.65 |
| 3-1/4 | 9.746 | 116.95 |
| 3-1/2 | 11.303 | 135.64 |
| 3-5/8 | 12.140 | R/L |
| 3-3/4 | 12.975 | R/L |
| 4 | 14.763 | R/L |
| 4-1/4 | 16.666 | R/L |
| 4-1/2 | 18.684 | R/L |
| 5 | 23.067 | R/L |
| 5-1/2 | 27.999 | R/L |
| 6 | 33.217 | R/L |
| 6-1/2 | 38.983 | R/L |
| 7 | 45.212 | R/L |
| 7-1/2 | 51.901 | R/L |
| 8 | 59.051 | R/L |

6061-T6511 RECTANGULAR ALUMINUM BARS



Extruded – 12 Foot Lengths. Other Sizes are available – please inquire.

| Size (inches) | Weight in Pounds | | Size (inches) | Weight in Pounds | |
|------------------|------------------|------------|------------------|------------------|------------|
| | Per ft. | Per Length | | Per ft. | Per Length |
| 1/8 x 1/2 | 0.074 | 0.89 | 3/8 x 4 | 1.764 | 21.17 |
| 1/8 x 5/8 | 0.092 | 1.10 | 3/8 x 6 | 2.646 | 31.75 |
| 1/8 x 3/4 | 0.110 | 1.32 | 1/2 x 3/4 | 0.441 | 5.29 |
| 1/8 x 1 | 0.147 | 1.76 | 1/2 x 1 | 0.588 | 7.06 |
| 1/8 x 1-1/4 | 0.184 | 2.21 | 1/2 x 1-1/4 | 0.735 | 8.82 |
| 1/8 x 1-1/2 | 0.221 | 2.65 | 1/2 x 1-1/2 | 0.882 | 10.58 |
| 1/8 x 2 | 0.294 | 3.53 | 1/2 x 1-3/4 | 1.029 | 12.35 |
| 3/16 x 3/4 | 0.166 | 1.99 | 1/2 x 2 | 1.176 | 14.11 |
| 3/16 x 1 | 0.221 | 2.65 | 1/2 x 2-1/2 | 1.470 | 17.64 |
| 3/16 x 1-1/4 | 0.275 | 3.30 | 1/2 x 3 | 1.764 | 21.17 |
| 3/16 x 1-1/2 | 0.331 | 3.97 | 1/2 x 4 | 2.352 | 28.22 |
| 3/16 x 2 | 0.441 | 5.29 | 1/2 x 6 | 3.528 | 42.34 |
| 1/4 x 1/2 | 0.147 | 1.76 | 5/8 x 3/4 | 0.551 | 6.61 |
| 1/4 x 3/4 | 0.221 | 2.65 | 5/8 x 1 | 0.735 | 8.82 |
| 1/4 x 1 | 0.294 | 3.53 | 5/8 x 1-1/4 | 0.918 | 11.02 |
| 1/4 x 1-1/4 | 0.368 | 4.42 | 5/8 x 1-1/2 | 1.103 | 13.24 |
| 1/4 x 1-1/2 | 0.441 | 5.29 | 5/8 x 2 | 1.470 | 17.64 |
| 1/4 x 1-3/4 | 0.515 | 6.18 | 3/4 x 1 | 0.882 | 10.58 |
| 1/4 x 2 | 0.588 | 7.06 | 3/4 x 1-1/4 | 1.103 | 13.24 |
| 1/4 x 2-1/2 | 0.735 | 8.82 | 3/4 x 1-1/2 | 1.323 | 15.88 |
| 1/4 x 3 | 0.882 | 10.50 | 3/4 x 2 | 1.764 | 21.17 |
| 1/4 x 4 | 1.176 | 14.11 | 3/4 x 2-1/2 | 2.205 | 26.46 |
| 5/16 x 3/4 | 0.275 | 3.30 | 3/4 x 3 | 2.646 | 31.75 |
| 5/16 x 1 | 0.368 | 4.42 | 3/4 x 3-1/2 | 3.087 | 37.04 |
| 5/16 x 1-1/4 | 0.460 | 5.52 | 3/4 x 4 | 3.528 | 42.34 |
| 5/16 x 1-1/2 | 0.551 | 6.61 | 3/4 x 6 | 5.292 | 63.50 |
| 5/16 x 2 | 0.735 | 8.82 | 1 x 1-1/4 | 1.470 | 17.64 |
| 3/8 x 1/2 | 0.221 | 2.65 | 1 x 1-1/2 | 1.764 | 21.17 |
| 3/8 x 3/4 | 0.330 | 3.96 | 1 x 2 | 2.352 | 28.22 |
| 3/8 x 1 | 0.441 | 5.29 | 1 x 2-1/2 | 2.940 | 35.28 |
| 3/8 x 1-1/4 | 0.551 | 6.61 | 1 x 3 | 3.528 | 42.34 |
| 3/8 x 1-1/2 | 0.661 | 7.93 | 1 x 4 | 4.704 | 56.45 |
| 3/8 x 2 | 0.882 | 10.58 | 1 x 6 | 7.056 | 84.67 |
| 3/8 x 3 | 1.323 | 15.88 | | | |



3003-H14 & 5052-H32 ALUM. SHEETS - MILL FINISH

| Size (inches) Thk. x Width x Length | Weight in Pounds | |
|--|----------------------|-----------|
| | Per ft. ² | Per Sheet |
| 0.032 x 48 x 96 | 0.447 | 14.30 |
| 0.032 x 48 x 120 | 0.447 | 17.88 |
| 0.032 x 48 x 144 | 0.447 | 21.46 |
| 0.040 x 48 x 96 | 0.559 | 17.89 |
| 0.040 x 48 x 120 | 0.559 | 22.36 |
| 0.040 x 48 x 144 | 0.559 | 26.83 |
| 0.050 x 48 x 96 | 0.698 | 22.34 |
| 0.050 x 48 x 120 | 0.698 | 27.92 |
| 0.050 x 48 x 144 | 0.698 | 33.50 |
| 0.063 x 48 x 96 | 0.880 | 28.16 |
| 0.063 x 48 x 120 | 0.880 | 35.20 |
| 0.063 x 48 x 144 | 0.880 | 42.24 |

| Size (inches) Thk. x Width x Length | Weight in Pounds | |
|--|----------------------|-----------|
| | Per ft. ² | Per Sheet |
| 0.080 x 48 x 96 | 1.117 | 35.74 |
| 0.080 x 48 x 144 | 1.117 | 53.62 |
| 0.090 x 48 x 96 | 1.257 | 40.22 |
| 0.090 x 48 x 144 | 1.257 | 60.34 |
| 0.100 x 48 x 96 | 1.397 | 44.70 |
| 0.100 x 48 x 120 | 1.397 | 55.88 |
| 0.100 x 48 x 144 | 1.397 | 67.06 |
| 0.125 x 48 x 96 | 1.746 | 55.87 |
| 0.125 x 48 x 120 | 1.746 | 69.84 |
| 0.125 x 48 x 144 | 1.746 | 83.81 |
| 0.190 x 48 x 144 | 2.654 | 127.39 |

ALUMINUM PLATES

Available in various alloys



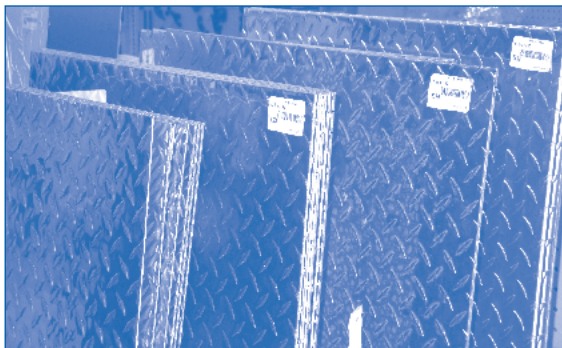
| Thickness (inches) | Weight Per ft. ² (lbs.) | Size (inches) | Width (inches) | Weight Per ft. ² (lbs.) | Size (inches) | Width (inches) | Weight Per ft. ² (lbs.) |
|-----------------------|---------------------------------------|------------------|-------------------|---------------------------------------|------------------|-------------------|---------------------------------------|
| 1/4 | 3.528 | 1 | | 14.11 | 3 | | 42.34 |
| 5/16 | 4.417 | | 1-1/4 | 17.64 | | 3-1/2 | 49.39 |
| 3/8 | 5.292 | | 1-1/2 | 21.17 | 4 | | 56.45 |
| 1/2 | 7.056 | | 1-3/4 | 24.70 | | 4-1/2 | 63.50 |
| 5/8 | 8.820 | 2 | | 28.22 | 5 | | 70.56 |
| 3/4 | 10.584 | | 2-1/4 | 31.75 | 6 | | 84.6 |
| 7/8 | 12.315 | | 2-1/2 | 35.28 | | | |

3003 ALUMINUM DIAMOND TREAD PLATES



C = Thickness A = Width B = Length

| Size (inches) C x A x B | Weight in Pounds Per ft. | Weight in Pounds Per Plate | Size (inches) C x A x B | Weight in Pounds Per ft. | Weight in Pounds Per Plate |
|----------------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|
| 0.063 x 48 x 96 | 1.010 | 32.00 | 0.125 x 48 x 96 | 2.000 | 64.00 |
| 0.063 x 48 x 192 | 1.010 | 65.00 | 0.125 x 48 x 120 | 2.000 | 80.00 |
| 0.100 x 48 x 96 | 1.600 | 51.00 | 0.125 x 48 x 192 | 2.000 | 128.00 |
| 0.100 x 48 x 192 | 1.600 | 102.40 | 0.1875 x 48 x 96 | 2.823 | 90.00 |
| | | | 0.1875 x 48 x 192 | 2.823 | 181.00 |



6061-T6 ALUMINUM DIAMOND TREAD PLATES



C = Thickness A = Width B = Length

| Size (inches) C x A x B | Weight in Pounds Per ft. | Weight in Pounds Per Plate | Size (inches) C x A x B | Weight in Pounds Per ft. | Weight in Pounds Per Plate |
|----------------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|
| 0.100 x 48 x 192 | 1.600 | 102.40 | 0.250 x 48 x 96 | 3.900 | 125.00 |
| 0.125 x 48 x 192 | 2.000 | 128.00 | 0.250 x 48 x 192 | 3.900 | 249.60 |
| 0.125 x 60 x 192 | 2.000 | 160.00 | 0.250 x 60 x 192 | 3.900 | 312.00 |
| 0.188 x 48 x 192 | 3.000 | 192.00 | 0.375 x 48 x 192 | 5.600 | 358.40 |
| 0.188 x 60 x 192 | 3.000 | 240.00 | 0.375 x 60 x 192 | 5.600 | 448.00 |
| | | | 0.500 x 60 x 192 | 7.300 | 584.00 |

6063-T52 ALUM. SQUARE TUBE



21 ft, 1" length

| Size (inches) | Weight in Pounds | |
|----------------------|------------------|------------|
| | Per ft. | Per length |
| 3/4 x 3/4 x .065 | 0.201 | 4.237 |
| 3/4 x 3/4 x .125 | 0.368 | 7.758 |
| 1 x 1 x .065 | 0.274 | 5.776 |
| 1 x 1 x .125 | 0.516 | 10.878 |
| 1-1/4 x 1-1/4 x .125 | 0.662 | 13.902 |

| Size (inches) | Weight in Pounds | |
|----------------------|------------------|------------|
| | Per ft. | Per length |
| 1-1/2 x 1-1/2 x .065 | 0.428 | 9.023 |
| 1-1/2 x 1-1/2 x .125 | 0.810 | 17.077 |
| 2 x 2 x .125 | 1.103 | 23.254 |
| 3 x 3 x .125 | 1.971 | 41.400 |
| 4 x 4 x .120 | 2.279 | 47.859 |



RECTANGULAR ALUM. TUBE



21 ft, 1" length, Many other sizes available

| Size (inches) | Weight in Pounds | |
|----------------------|------------------|------------|
| | Per ft. | Per length |
| 1 x 2 x .125 | 0.809 | 17.07 |
| 1 x 3 x .125 | 1.103 | 23.26 |
| 1 x 4 x .125 | 1.397 | 29.45 |
| 1-1/4 x 2-1/2 x .125 | 1.029 | 21.70 |
| 1-1/2 x 2 x .125 | 0.956 | 20.16 |
| 1-1/2 x 3 x .125 | 1.339 | 28.12 |

| Size (inches) | Weight in Pounds | |
|----------------------|------------------|------------|
| | Per ft. | Per length |
| 1-3/4 x 2-1/4 x .125 | 1.103 | 23.26 |
| 1-3/4 x 3 x .125 | 1.323 | 27.89 |
| 1-3/4 x 4 x .125 | 1.617 | 34.09 |
| 1-3/4 x 4-1/2 x .125 | 1.764 | 37.19 |
| 1-3/4 x 5 x .125 | 1.911 | 40.29 |
| 2 x 3 x .125 | 1.397 | 24.95 |
| 2 x 3 x .250 | 2.646 | 55.57 |
| 2 x 4 x .125 | 1.690 | 33.80 |
| 2 x 5 x .125 | 1.985 | 41.85 |



6061-T6 ALUMINUM PIPE

20 ft. length

| Nominal Sizes (in.) | I.P.S. Schedule | O.D. (inches) | I.D. (inches) | Wall Thk. (in.) | Weight in Pounds | |
|------------------------|--------------------|------------------|------------------|--------------------|-------------------|------------|
| | | | | | Per Linear ft. | Per Length |
| 1/8 | Sch 40 | 0.405 | 0.269 | 0.068 | 0.085 | 1.70 |
| 1/4 | Sch 40 | 0.540 | 0.364 | 0.088 | 0.147 | 2.94 |
| 3/8 | Sch 40 | 0.675 | 0.493 | 0.091 | 0.196 | 3.92 |
| 1/2 | Sch 40 | 0.840 | 0.622 | 0.109 | 0.294 | 5.88 |
| 3/4 | Sch 40 | 1.050 | 0.824 | 0.113 | 0.391 | 7.82 |
| 1 | Sch 40 | 1.315 | 1.049 | 0.133 | 0.581 | 11.62 |
| 1 | Sch 80 | 1.315 | .957 | 0.179 | 0.751 | 15.02 |
| 1-1/4 | Sch 40 | 1.660 | 1.380 | 0.140 | 0.786 | 15.72 |
| 1-1/4 | Sch 80 | 1.660 | 1.278 | 0.191 | 1.037 | 20.74 |
| 1-1/2 | Sch 40 | 1.900 | 1.610 | 0.145 | 0.940 | 18.80 |
| 1-1/2 | Sch 80 | 1.900 | 1.500 | 0.200 | 1.256 | 25.12 |
| 2 | Sch 40 | 2.375 | 2.067 | 0.154 | 1.264 | 25.28 |
| 2 | Sch 80 | 2.375 | 1.939 | 0.218 | 1.737 | 34.74 |
| 2-1/2 | Sch 40 | 2.875 | 2.469 | 0.203 | 2.004 | 40.08 |
| 2-1/2 | Sch 80 | 2.875 | 2.323 | 0.276 | 2.650 | 53.00 |
| 3 | Sch 40 | 3.500 | 3.068 | 0.216 | 2.621 | 52.42 |
| 3 | Sch 80 | 3.500 | 2.900 | 0.300 | 3.547 | 70.94 |
| 3-1/2 | Sch 40 | 4.000 | 3.548 | 0.226 | 3.151 | 63.02 |
| 3-1/2 | Sch 80 | 4.000 | 3.364 | 0.318 | 4.326 | 86.52 |
| 4 | Sch 40 | 4.500 | 4.026 | 0.237 | 3.733 | 74.66 |
| 4 | Sch 80 | 4.500 | 3.826 | 0.337 | 5.183 | 103.66 |
| 5 | Sch 40 | 5.563 | 5.047 | 0.258 | 5.057 | 101.14 |
| 5 | Sch 80 | 5.563 | 4.813 | 0.375 | 7.188 | 143.76 |
| 6 | Sch 40 | 6.625 | 6.065 | 0.280 | 6.564 | 131.28 |
| 6 | Sch 80 | 6.625 | 5.761 | 0.432 | 9.884 | 197.68 |
| 8 | Sch 40 | 8.625 | 7.981 | 0.322 | 9.878 | 197.56 |
| 8 | Sch 80 | 8.625 | 7.625 | 0.500 | 15.010 | 300.20 |
| 10 | Sch 40 | 10.750 | 10.020 | 0.365 | 14.000 | 280.00 |
| 12 | Sch 40 | 12.750 | 12.000 | 0.375 | 17.140 | 342.80 |

METRIC CONVERSION FACTORS

Metric to English

kilograms x 2.2046 = pounds

kilograms ÷ 907.2 = tons (2000 lbs.)

millimeters x 0.03937 = inches

or millimeters ÷ 25.4 = inches

meters x 39.37 = inches

meters x 3.281 = feet

meters x 1.094 = yards

sq. millimeters x 0.00155 = sq. inches

or sq. millimeters ÷ 645.16 = sq. inches

English to Metric

pounds ÷ 2.2046 = kilograms (kg)

tons (2000 lbs.) x 907.2 = kilograms (kg)

inches ÷ 0.03937 = millimeters (mm)

or inches x 25.4 = millimeters (mm)

inches ÷ 39.37 = meters (m)

feet ÷ 3.281 = meters (m)

yards ÷ 1.094 = meters (m)

sq. inches ÷ 0.00155 = sq. millimeters

or sq. inches x 645.16 = sq. millimeters

ENGLISH AND METRIC EQUIVALENTS

Weights

1 pound (1 lb.) = 453.6 grams, or = 0.4536 kilograms (kg)

1 pound per foot (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. foot = 305.15 grams, or = 0.30515 kilograms per sq. meter (kg/m²)

1 kilogram (kg) = 2.2046 pounds

1 kilogram per meter = 0.67197 pounds per foot

1 metric ton (1000 kg) = 2204.6 pounds, or = 1.10231 net tons, or = 0.98421 gross tons

Measures

1 inch (in.) = 25.40 millimeters (mm)

1 sq. inch (in.²) = 645.16 sq. millimeters

1 sq. foot (ft.²) = 0.092903 square meter

1 millimeter (mm) = 0.03937 inch

1 sq. millimeter (mm²) = 0.00155 sq. inch

1 meter (m) = 3.2808 ft., or = 1.09361 yds.

1 sq. meter (m²) = 10.7639 sq. feet,

or = 1.196 sq. yards

Temperature

Celsius (formerly called the centigrade scale)

$tC = (tF - 32) \div 1.8$ or

$tF = (1.8 \times tC) + 32$

tC = temperature (Celsius) in degrees

tF = temperature (Fahrenheit) in degrees

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 4 times;
Tripling diameter increases area 9 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 (Hypotenuse) = square root of sum of squares of width and length

Triangle Area = base x 1/2 of perpendicular height

Hexagon (equal sides and angles)

Area = square of distance across flats x .866 or square of side x 2.598
Side = 1/2 of diagonal or 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 (side² x 6)
Volume = cube of side (side³)
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 (not including base) = perimeter of base x 1/2 slant height
Volume = area of base x 1/3 perpendicular height

SIMPLE STEEL WEIGHT FORMULAS

There are two methods for deriving weight of steel products. Nominal weights are based on the theoretical weight of steel taken as 40.80 pounds per square foot, 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.

Bar Weight Formulas

Rounds Diameter (inches) squared x 2.67 = Weight (pounds) per lineal foot

Squares Diameter (inches) squared x 3.4 = Weight (pounds) per lineal foot

Hexagons* Diameter (inches) squared x 2.945 = Weight (pounds) per lineal foot

Octagons* Diameter (inches) squared x 2.817 = Weight (pounds) per lineal foot

* The diameters of squares, hexagons and octagons are measured across the flats.

Flats, Plates and Strip Weight Formulas

Flats, Plate and Strip Thickness (inches) x width (inches) x 3.4 = Weight (pounds) per lineal foot

Thickness (inches) x width (inches) x 0.2836 = Weight (pounds) per lineal inch

Plate Circles Diameter (inches) squared x thickness (inches) x 0.2225 = Weight (pounds) of plate

Sheet and Coil Weight Formulas

Sheet Thickness (inches) x width (inches) x 3.485 = Weight (pounds) per lineal foot
or Thickness (inches) x width (inches) x 0.2904 = Weight (pounds) per lineal inch

Sheet Circles Diameter (inches) squared x thickness (inches) x 0.228

Coils Outside diameter (inches) squared - inside diameter (inches) squared x 0.2223 = Weight (pounds) per inch of width

Tubing Weight Formulas

Round Tube $10.68 \times (D - t) \times t =$ Weight (pounds) per lineal foot

Square Tube $13.6 \times (D - t) \times t =$ Weight (pounds) per lineal foot

Rectangular Tube $13.6 \times [(D1 + D2 - t) \div 2] \times t =$ Weight (pounds) per lineal foot

t = Nominal wall thickness (inches), D = Outside diameter (inches)

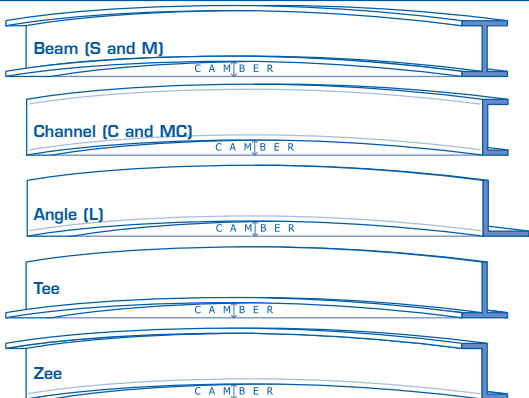
DECIMAL EQUIVALENTS

Of Fractional Parts of an Inch

| Fractional Inches | Decimal Inches | Decimal Millimeters | Fractional Inches | Decimal Inches | Decimal Millimeters |
|-------------------|----------------|---------------------|-------------------|----------------|---------------------|
| 1/64 | 0.015625 | 0.39688 | 33/64 | 0.515625 | 13.09690 |
| 1/32 | 0.03125 | 0.79375 | 1/32 | 0.53125 | 13.49378 |
| 3/64 | 0.046875 | 1.19063 | 35/64 | 0.546875 | 13.89065 |
| 1/16 | 0.0625 | 1.58750 | 9/16 | 0.5625 | 14.28753 |
| 5/64 | 0.078125 | 1.98438 | 37/64 | 0.578125 | 14.68440 |
| 3/32 | 0.09375 | 2.38125 | 19/32 | 0.59375 | 15.08128 |
| 7/64 | 0.109375 | 2.77813 | 39/64 | 0.609375 | 15.47816 |
| 1/8 | 0.1250 | 3.17501 | 5/8 | 0.6250 | 15.87503 |
| 9/64 | 0.140625 | 3.57188 | 41/64 | 0.640625 | 16.27191 |
| 5/32 | 0.15625 | 3.96876 | 21/32 | 0.65625 | 16.66875 |
| 11/64 | 0.171875 | 4.36563 | 43/64 | 0.671875 | 17.06566 |
| 3/16 | 0.1875 | 4.76251 | 11/16 | 0.6875 | 17.46253 |
| 13/64 | 0.203125 | 5.15939 | 45/64 | 0.703125 | 17.85941 |
| 7/32 | 0.21875 | 5.55626 | 23/32 | 0.71875 | 18.25629 |
| 15/64 | 0.234375 | 5.95314 | 47/64 | 0.734375 | 18.65136 |
| 1/4 | 0.2500 | 6.35001 | 3/4 | 0.7500 | 19.05004 |
| 17/64 | 0.265625 | 6.74689 | 49/64 | 0.765625 | 19.44691 |
| 9/32 | 0.28125 | 7.14376 | 25/32 | 0.78125 | 19.84379 |
| 19/64 | 0.296875 | 7.54064 | 51/64 | 0.796875 | 20.24067 |
| 5/16 | 0.3125 | 7.93752 | 13/16 | 0.8125 | 20.63754 |
| 21/64 | 0.328125 | 8.33439 | 53/64 | 0.828125 | 21.03442 |
| 11/32 | 0.34375 | 8.73127 | 27/32 | 0.84375 | 21.43129 |
| 23/64 | 0.359375 | 9.12814 | 55/64 | 0.859375 | 21.82817 |
| 3/8 | 0.3750 | 9.52502 | 7/8 | 0.8750 | 22.22504 |
| 25/64 | 0.390625 | 9.92189 | 57/64 | 0.890625 | 22.62192 |
| 13/32 | 0.40625 | 10.31877 | 29/32 | 0.90625 | 23.01880 |
| 27/64 | 0.421875 | 10.71565 | 59/64 | 0.921875 | 23.41567 |
| 7/16 | 0.4375 | 11.11252 | 15/16 | 0.9375 | 23.81255 |
| 29/64 | 0.453125 | 11.50940 | 61/64 | 0.953125 | 24.20942 |
| 15/32 | 0.46875 | 11.90627 | 31/32 | 0.96875 | 24.60630 |
| 31/64 | 0.484375 | 12.30315 | 63/64 | 0.984375 | 25.00318 |
| 1/2 | 0.5000 | 12.70003 | 1 | 1.0000 | 25.40005 |

PERMITTED VARIATIONS IN STRAIGHTNESS

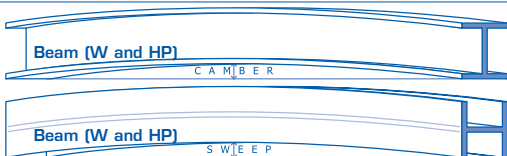
For S, M, C, MC, L, T, Z, and Bulb Angle Shapes



Positions for Measuring Camber Shapes

| Variable | Nominal Size ^A | Permitted Variation | ^A Greatest cross-sectional dimension. |
|----------|---------------------------|--|--|
| Camber | Under 3" | 1/4" in any 5', or 1/4" x (total length in feet ÷ 5) | |
| Camber | 3" and Over | 1/8" x (total length in feet ÷ 5) | |
| Sweep | All | Due to the extreme variations in flexibility of these shapes, permitted variations for sweep are subject to negotiations between the manufacturer and the purchaser for the individual sections. | |

For W and HP Shapes



Positions for Measuring Camber and Sweep for W and HP Shapes

| Variable | Permitted Variation |
|------------------|---|
| Camber and Sweep | 1/8" x (total length in feet ÷ 10) ^B |

When certain sections^C with a flange width approximately equal to depth are specified in the order for use as columns.

| | |
|-------------------|--|
| Up to 45' Lengths | 1/8" x (total length in feet ÷ 10) but not over 3/8" |
| Over 45' Lengths | 3/8" + [1/8" x (total length in feet - 45) ÷ 10] |

^BSections with flange width less than 6", permitted variation for sweep = 1/8" x (total length in feet ÷ 5).

^CApplies to: 8" deep sections 31 lbs./ft. and heavier 12" deep sections 65 lbs./ft. and heavier
10" deep sections 49 lbs./ft. and heavier 14" deep sections 90 lbs./ft. and heavier

For other sections specified in the order for use as columns, the permitted variation is subject to negotiation with manufacturer.

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