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## STRIPS AND FLATS

| SIZE IN.<br>INCHES | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|--------------------|--------------|-------------------|--------------|
| <b>1/8 x</b>       |              | <b>1/4 x</b>      |              |
| 1/2                | 0.213        | 7                 | 5.950        |
| 3/4                | 0.319        | 8                 | 6.800        |
| 1                  | 0.425        | 9                 | 7.650        |
| 1 1/4              | 0.531        | 10                | 8.500        |
| 1 1/2              | 0.638        | 12                | 10.200       |
| 2                  | 0.850        |                   |              |
| 2 1/2              | 1.060        | <b>5/16 x</b>     |              |
| 3                  | 1.275        | 1/2               | 0.531        |
| 3 1/2              | 1.488        | 3/4               | 0.797        |
| 4                  | 1.700        | 1                 | 1.063        |
| 5                  | 2.125        | 1 1/4             | 1.328        |
| 6                  | 2.550        | 1 1/2             | 1.594        |
| 8                  | 3.400        | 2                 | 2.125        |
| 10                 | 4.250        | 2 1/2             | 2.656        |
| 12                 | 5.100        | 3                 | 3.188        |
|                    |              | 3 1/2             | 3.719        |
| <b>3/16 x</b>      |              | 4                 | 4.250        |
| 1/2                | 0.319        | 5                 | 5.313        |
| 3/4                | 0.478        | 6                 | 6.375        |
| 1                  | 0.638        | 8                 | 8.500        |
| 1 1/4              | 0.797        | 10                | 10.630       |
| 1 1/2              | 0.956        | 12                | 12.750       |
| 2                  | 1.275        |                   |              |
| 2 1/2              | 1.594        | <b>3/8 x</b>      |              |
| 3                  | 1.913        | 1/2               | 0.638        |
| 3 1/2              | 2.231        | 3/4               | 0.956        |
| 4                  | 2.550        | 1                 | 1.275        |
| 4 1/2              | 2.869        | 1 1/4             | 1.594        |
| 5                  | 3.188        | 1 1/2             | 1.913        |
| 5 1/2              | 3.506        | 2                 | 2.550        |
| 6                  | 3.825        | 2 1/2             | 3.188        |
| 7                  | 4.463        | 3                 | 3.825        |
| 8                  | 5.100        | 3 1/2             | 4.460        |
| 9                  | 5.740        | 4                 | 5.100        |
| 10                 | 6.380        | 4 1/2             | 5.738        |
| 12                 | 7.650        | 5                 | 6.375        |
|                    |              | 5 1/2             | 7.013        |
| <b>1/4 x</b>       |              | 6                 | 7.650        |
| 1/2                | 0.425        | 7                 | 8.925        |
| 3/4                | 0.638        | 8                 | 10.200       |
| 1                  | 0.850        | 9                 | 11.480       |
| 1 1/4              | 1.063        | 10                | 12.750       |
| 1 1/2              | 1.275        | 12                | 15.300       |
| 2                  | 1.700        |                   |              |
| 2 1/2              | 2.125        | <b>1/2 x</b>      |              |
| 3                  | 2.550        | 3/4               | 1.275        |
| 3 1/2              | 2.975        | 1                 | 1.700        |
| 4                  | 3.400        | 1 1/4             | 2.125        |
| 4 1/2              | 3.830        | 1 1/2             | 2.550        |
| 5                  | 4.250        | 2                 | 3.400        |
| 5 1/2              | 4.675        | 2 1/2             | 4.250        |
| 6                  | 5.100        | 3                 | 5.100        |

## STRIPS AND FLATS

| SIZE IN.<br>INCHES | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|--------------------|--------------|-------------------|--------------|
| <b>1/2 x</b>       |              | <b>7/8 x</b>      |              |
| 3 1/2              | 5.950        | 1 1/4             | 3.719        |
| 4                  | 6.800        | 1 1/2             | 4.463        |
| 4 1/2              | 7.650        | 2                 | 5.950        |
| 5                  | 8.500        | 2 1/2             | 7.438        |
| 5 1/2              | 9.350        | 3                 | 8.925        |
| 6                  | 10.200       | 3 1/2             | 10.413       |
| 7                  | 11.900       | 4                 | 11.900       |
| 8                  | 13.600       | 4 1/2             | 13.390       |
| 9                  | 15.300       | 5                 | 14.880       |
| 10                 | 17.000       | 5 1/2             | 16.360       |
| 12                 | 20.400       | 6                 | 17.850       |
|                    |              | 7                 | 20.830       |
| <b>5/8 x</b>       |              | 8                 | 23.800       |
| 1                  | 2.155        | 10                | 29.750       |
| 1 1/4              | 2.656        | 12                | 35.700       |
| 1 1/2              | 3.188        |                   |              |
| 2                  | 4.250        | <b>1 x</b>        |              |
| 2 1/2              | 5.313        | 1 1/4             | 4.250        |
| 3                  | 6.375        | 1 1/2             | 5.100        |
| 3 1/2              | 7.438        | 2                 | 6.800        |
| 4                  | 8.500        | 2 1/2             | 8.500        |
| 4 1/2              | 9.563        | 3                 | 10.200       |
| 5                  | 10.625       | 3 1/2             | 11.900       |
| 5 1/2              | 11.690       | 4                 | 13.600       |
| 6                  | 12.750       | 4 1/2             | 15.300       |
| 7                  | 14.880       | 5                 | 17.000       |
| 8                  | 17.000       | 6                 | 20.400       |
| 9                  | 19.130       | 7                 | 23.800       |
| 10                 | 21.250       | 8                 | 27.200       |
| 12                 | 25.500       | 9                 | 30.630       |
|                    |              | 10                | 34.000       |
| <b>3/4 x</b>       |              | 12                | 40.840       |
| 1                  | 2.550        |                   |              |
| 1 1/4              | 3.188        | <b>1 1/4 x</b>    |              |
| 1 1/2              | 3.825        | 1 1/2             | 6.380        |
| 2                  | 5.100        | 2                 | 8.500        |
| 2 1/2              | 6.375        | 2 1/2             | 10.630       |
| 3                  | 7.650        | 3                 | 12.750       |
| 3 1/2              | 8.925        | 3 1/2             | 14.880       |
| 4                  | 10.200       | 4                 | 17.000       |
| 4 1/2              | 11.480       | 4 1/2             | 19.130       |
| 5                  | 12.750       | 5                 | 21.250       |
| 5 1/2              | 14.030       | 5 1/2             | 23.380       |
| 6                  | 15.300       | 6                 | 25.500       |
| 7                  | 17.850       | 7                 | 29.750       |
| 8                  | 20.400       | 8                 | 34.000       |
| 9                  | 22.950       | 10                | 42.500       |
| 10                 | 25.500       | 12                | 51.000       |
| 12                 | 30.600       |                   |              |
| <b>7/8 x</b>       |              | <b>1 1/2 x</b>    |              |
| 1                  | 2.975        | 2                 | 10.200       |
|                    |              | 2 1/2             | 12.750       |

## STRIPS AND FLATS

| SIZE IN.<br>INCHES | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|--------------------|--------------|-------------------|--------------|
| <b>1 1/2 x</b>     |              | <b>2 x</b>        |              |
| 3                  | 15.300       | 2 1/2             | 17.000       |
| 3 1/2              | 17.850       | 3                 | 20.400       |
| 4                  | 20.400       | 3 1/2             | 23.800       |
| 4 1/2              | 22.950       | 4                 | 27.200       |
| 5                  | 25.500       | 4 1/2             | 30.600       |
| 5 1/2              | 28.050       | 5                 | 34.000       |
| 6                  | 30.600       | 5 1/2             | 37.400       |
| 7                  | 35.700       | 6                 | 40.800       |
| 8                  | 40.800       | 7                 | 47.600       |
| 9                  | 45.900       | 8                 | 54.400       |
| 10                 | 51.000       | 9                 | 61.200       |
| 12                 | 61.200       | 10                | 68.000       |
|                    |              | 12                | 81.600       |

**All flats can be cut to customers specifications**

**Shearing, hole punching, notching services are available upon request**



# ANGLES

| SIZE IN.<br>INCHES |   |       |        | WT.<br>#/FT | WT.<br>#/20' |
|--------------------|---|-------|--------|-------------|--------------|
| 1/2                | x | 1/2   | X 1/8  | -- 0.380    | - 7.600      |
| 5/8                | x | 5/8   | X 1/8  | -- 0.480    | - 9.600      |
| 3/4                | x | 3/4   | X 1/8  | -- 0.590    | - 11.800     |
| 7/8                | x | 7/8   | X 1/8  | -- 0.700    | - 14.000     |
| 1                  | x | 5/8   | X 1/8  | -- 0.640    | - 12.800     |
| 1                  | x | 3/4   | X 1/8  | -- 0.700    | - 14.000     |
| 1                  | x | 1     | X 1/8  | -- 0.800    | - 16.000     |
|                    |   |       | X 3/16 | -- 1.160    | - 23.200     |
|                    |   |       | X 1/4  | -- 1.490    | - 29.800     |
| 1 1/8              | x | 1 1/8 | X 1/8  | -- 0.900    | - 18.000     |
| 1 1/4              | x | 1 1/4 | X 1/8  | -- 1.010    | - 20.200     |
|                    |   |       | X 3/16 | -- 1.480    | - 29.600     |
|                    |   |       | X 1/4  | -- 1.920    | - 38.400     |
| 1 3/8              | x | 7/8   | X 1/8  | -- 0.910    | - 18.200     |
|                    |   |       | X 3/16 | -- 1.320    | - 26.400     |
| 1 1/2              | x | 1 1/4 | X 3/16 | -- 1.640    | - 32.800     |
| 1 1/2              | x | 1 1/2 | X 1/8  | -- 1.230    | - 24.600     |
|                    |   |       | X 3/16 | -- 1.800    | - 36.000     |
|                    |   |       | X 1/4  | -- 2.340    | - 46.800     |
|                    |   |       | X 5/16 | -- 2.860    | - 57.200     |
|                    |   |       | X 3/8  | -- 3.350    | - 67.000     |
| 1 3/4              | x | 1 1/4 | X 1/8  | -- 1.230    | - 24.600     |
|                    |   |       | X 3/16 | -- 1.800    | - 36.000     |
|                    | x |       | X 1/4  | -- 2.340    | - 46.800     |
| 1 3/4              | x | 1 3/4 | X 1/8  | -- 1.440    | - 28.800     |
|                    |   |       | X 3/16 | -- 2.120    | - 42.400     |
|                    |   |       | X 1/4  | -- 2.770    | - 55.400     |
| 2                  | x | 1 1/4 | X 3/16 | -- 1.960    | - 39.200     |
|                    |   |       | X 1/4  | -- 2.550    | - 51.000     |
| 2                  | x | 1 1/2 | X 1/8  | -- 1.440    | - 28.800     |
|                    |   |       | X 3/16 | -- 2.120    | - 42.400     |
|                    |   |       | X 1/4  | -- 2.770    | - 55.400     |
| 2                  |   | 2     | X 1/8  | -- 1.650    | - 33.000     |
|                    |   |       | X 3/16 | -- 2.440    | - 48.800     |
|                    |   |       | X 1/4  | -- 3.190    | - 63.800     |
|                    |   |       | X 5/16 | -- 3.920    | - 78.400     |
|                    |   |       | X 3/8  | -- 4.700    | - 94.000     |
|                    |   |       | X 1/2  | -- 5.920    | - 118.400    |
| 2 1/2              | x | 1 1/2 | X 3/16 | -- 2.440    | - 48.800     |
|                    |   |       | X 1/4  | -- 3.190    | - 63.800     |
|                    |   |       | X 5/16 | -- 3.920    | - 78.400     |
| 2 1/2              | x | 2     | X 3/16 | -- 2.750    | - 55.000     |
|                    |   |       | X 1/4  | -- 3.620    | - 72.400     |
|                    |   |       | X 5/16 | -- 4.500    | - 90.000     |
|                    |   |       | X 3/8  | -- 5.300    | - 106.000    |
| 2 1/2              | x | 2 1/2 | X 3/16 | -- 3.070    | - 61.400     |
|                    |   |       | X 1/4  | -- 4.100    | - 82.000     |
|                    |   |       | X 5/16 | -- 5.000    | - 100.000    |
|                    |   |       | X 3/8  | -- 5.900    | - 118.000    |
|                    |   |       | X 1/2  | -- 7.700    | - 154.000    |
| 3                  | x | 2     | X 3/16 | -- 3.070    | - 61.000     |
|                    |   |       | X 1/4  | -- 4.100    | - 82.000     |
|                    |   |       | X 5/16 | -- 5.000    | - 100.000    |

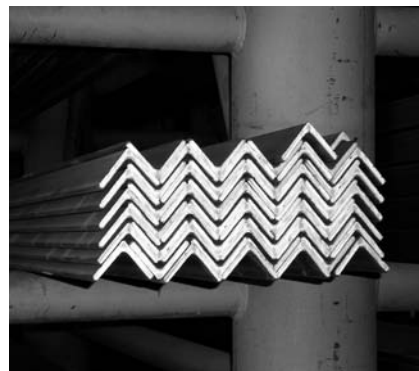
## ANGLES

| SIZE IN.<br>INCHES |   |       |        | WT.<br>#/FT | WT.<br>#/20' |
|--------------------|---|-------|--------|-------------|--------------|
| 3                  | x | 2     | X 3/8  | -- 5.900    | - 118.000    |
|                    |   |       | X 1/2  | -- 7.700    | - 154.000    |
| 3                  | x | 2 1/2 | X 1/4  | -- 4.500    | - 90.000     |
|                    |   |       | X 5/16 | -- 5.600    | - 112.000    |
|                    |   |       | X 3/8  | -- 6.600    | - 132.000    |
|                    |   |       | X 1/2  | -- 8.500    | - 170.000    |
| 3                  | x | 3     | X 3/16 | -- 3.710    | - 74.000     |
|                    |   |       | X 1/4  | -- 4.900    | - 98.000     |
|                    |   |       | X 5/16 | -- 6.100    | - 122.000    |
|                    |   |       | X 3/8  | -- 7.200    | - 144.000    |
|                    |   |       | X 1/2  | -- 9.400    | - 188.000    |
| 3 1/2              | x | 2 1/2 | X 1/4  | -- 4.900    | - 98.000     |
|                    |   |       | X 5/16 | -- 6.100    | - 122.000    |
|                    |   |       | X 3/8  | -- 7.200    | - 144.000    |
|                    |   |       | X 1/2  | -- 9.400    | - 188.000    |
| 3 1/2              | x | 3     | X 1/4  | -- 5.400    | - 108.000    |
|                    |   |       | X 5/16 | -- 6.600    | - 132.000    |
|                    |   |       | X 3/8  | -- 7.900    | - 158.000    |
|                    |   |       | X 1/2  | -- 10.200   | - 204.000    |
| 3 1/2              | x | 3 1/2 | X 1/4  | -- 5.800    | - 116.000    |
|                    |   |       | X 5/16 | -- 7.200    | - 144.000    |
|                    |   |       | X 3/8  | -- 8.500    | - 170.000    |
|                    |   |       | X 1/2  | -- 11.100   | - 222.000    |
| 4                  | x | 3     | X 1/4  | -- 5.800    | - 116.000    |
|                    |   |       | X 5/16 | -- 7.200    | - 144.000    |
|                    |   |       | X 3/8  | -- 8.500    | - 170.000    |
|                    |   |       | X 1/2  | -- 11.100   | - 222.000    |
| 4                  | x | 3 1/2 | X 1/4  | -- 6.200    | - 124.000    |
|                    |   |       | X 5/16 | -- 7.700    | - 154.000    |
|                    |   |       | X 3/8  | -- 9.100    | - 182.000    |
|                    |   |       | X 1/2  | -- 11.900   | - 238.000    |
| 4                  | x | 4     | X 1/4  | -- 6.600    | - 132.000    |
|                    |   |       | X 5/16 | -- 8.200    | - 164.000    |
|                    |   |       | X 3/8  | -- 9.800    | - 196.000    |
|                    |   |       | X 1/2  | -- 12.800   | - 256.000    |
|                    |   |       | X 5/8  | -- 15.700   | - 314.000    |
|                    |   |       | X 3/4  | -- 18.500   | - 370.000    |
| 5                  | x | 3     | X 1/4  | -- 6.600    | - 132.000    |
|                    |   |       | X 5/16 | -- 8.200    | - 164.000    |
|                    |   |       | X 3/8  | -- 9.800    | - 196.000    |
|                    |   |       | X 1/2  | -- 12.800   | - 256.000    |
| 5                  | x | 3 1/2 | X 1/4  | -- 7.000    | - 140.000    |
|                    |   |       | X 5/16 | -- 8.700    | - 174.000    |
|                    |   |       | X 3/8  | -- 10.400   | - 208.000    |
|                    |   |       | X 1/2  | -- 13.600   | - 272.000    |
|                    |   |       | X 5/8  | -- 16.800   | - 336.000    |
|                    |   |       | X 3/4  | -- 19.800   | - 396.000    |
| 5                  | x | 5     | X 5/16 | -- 10.300   | - 206.000    |
|                    |   |       | X 3/8  | -- 12.300   | - 246.000    |
|                    |   |       | X 1/2  | -- 16.200   | - 324.000    |
|                    |   |       | X 5/8  | -- 20.000   | - 400.000    |
|                    |   |       | X 3/4  | -- 23.600   | - 472.000    |
| 6                  | x | 3 1/2 | X 1/4  | -- 7.900    | - 158.000    |

## ANGLES

| SIZE IN.<br>INCHES |   |       |        | WT.<br>#/FT | WT.<br>#/20' |
|--------------------|---|-------|--------|-------------|--------------|
| 6                  | x | 3 1/2 | X 5/16 | -- 9.800    | - 196        |
|                    |   |       | X 3/8  | -- 11.700   | - 234        |
|                    |   |       | X 1/2  | -- 15.300   | - 306        |
| 6                  | x | 4     | X 5/16 | -- 10.300   | - 206        |
|                    |   |       | X 3/8  | -- 12.300   | - 246        |
|                    |   |       | X 1/2  | -- 16.200   | - 324        |
|                    |   |       | X 5/8  | -- 20.000   | - 400        |
|                    |   |       | X 3/4  | -- 23.600   | - 472        |
| 6                  | x | 6     | X 5/16 | -- 12.400   | - 248        |
|                    |   |       | X 3/8  | -- 14.900   | - 298        |
|                    |   |       | X 1/2  | -- 19.600   | - 392        |
|                    |   |       | X 5/8  | -- 24.200   | - 484        |
|                    |   |       | X 3/4  | -- 28.700   | - 574        |
| 7                  | x | 4     | X 1    | -- 37.400   | - 748        |
|                    |   |       | X 3/8  | -- 13.600   | - 272        |
|                    |   |       | X 1/2  | -- 17.900   | - 358        |
|                    |   |       | X 5/8  | -- 22.100   | - 442        |
|                    |   |       | X 3/4  | -- 26.200   | - 524        |
| 8                  | x | 4     | X 1/2  | -- 19.600   | - 392        |
|                    |   |       | X 5/8  | -- 24.200   | - 484        |
|                    |   |       | X 3/4  | -- 28.700   | - 574        |
| 8                  | x | 6     | X 1/2  | -- 23.000   | - 460        |
|                    |   |       | X 3/4  | -- 33.800   | - 676        |
|                    |   |       | X 1    | -- 44.200   | - 884        |
| 8                  | x | 8     | X 1/2  | -- 26.400   | - 528        |
|                    |   |       | X 5/8  | -- 32.700   | - 654        |
|                    |   |       | X 3/4  | -- 38.900   | - 778        |
|                    |   |       | X 1    | -- 51.000   | - 1020       |
| 9                  | x | 4     | X 1/2  | -- 21.300   | - 426        |

Steel products are stocked in 20' & 40' lengths, with special lengths available upon request.



## CHANNELS

| AISI               | A                     | B                         | C                          | Weight, Lbs. |             |             |
|--------------------|-----------------------|---------------------------|----------------------------|--------------|-------------|-------------|
| Designation        | Depth<br>in<br>Inches | Flange<br>Width<br>Inches | Web<br>Thickness<br>Inches | Per.<br>Ft.  | Per.<br>20' | Per.<br>40' |
| <b>C 3 x 3.5</b>   | 3                     | 1.375                     | 0.145                      | 3.500        | 70          | 140         |
| <b>4.1</b>         | 3                     | 1.410                     | 0.170                      | 4.100        | 82          | 164         |
| <b>5</b>           | 3                     | 1.498                     | 0.258                      | 5.000        | 100         | 200         |
| <b>6</b>           | 3                     | 1.596                     | 0.356                      | 6.000        | 120         | 240         |
| <b>C 4 x 5.4</b>   | 4                     | 1.584                     | 0.184                      | 5.400        | 108         | 216         |
| <b>6.25</b>        | 4                     | 1.647                     | 0.247                      | 6.250        | 125         | 250         |
| <b>7.25</b>        | 4                     | 1.721                     | 0.321                      | 7.250        | 145         | 290         |
| <b>C 5 x 6.7</b>   | 5                     | 1.750                     | 0.190                      | 6.700        | 134         | 268         |
| <b>9</b>           | 5                     | 1.885                     | 0.325                      | 9.000        | 180         | 360         |
| <b>C 6 x 8.2</b>   | 6                     | 1.920                     | 0.200                      | 8.200        | 164         | 328         |
| <b>10.5</b>        | 6                     | 2.034                     | 0.314                      | 10.500       | 210         | 420         |
| <b>13</b>          | 6                     | 2.157                     | 0.437                      | 13.000       | 260         | 520         |
| <b>C 7 x 9.8</b>   | 7                     | 2.090                     | 0.210                      | 9.800        | 196         | 392         |
| <b>12.25</b>       | 7                     | 2.194                     | 0.314                      | 12.250       | 245         | 490         |
| <b>14.75</b>       | 7                     | 2.299                     | 0.419                      | 14.750       | 295         | 590         |
| <b>C 8 x 11.5</b>  | 8                     | 2.260                     | 0.220                      | 11.500       | 230         | 460         |
| <b>13.75</b>       | 8                     | 2.343                     | 0.303                      | 13.750       | 275         | 550         |
| <b>18.75</b>       | 8                     | 2.527                     | 0.487                      | 18.750       | 375         | 750         |
| <b>C 9 x 13.4</b>  | 9                     | 2.433                     | 0.233                      | 13.400       | 268         | 536         |
| <b>15</b>          | 9                     | 2.485                     | 0.285                      | 15.000       | 300         | 600         |
| <b>20</b>          | 9                     | 2.648                     | 0.448                      | 20.000       | 400         | 800         |
| <b>C 10 x 15.3</b> | 10                    | 2.600                     | 0.240                      | 15.300       | 306         | 612         |
| <b>20</b>          | 10                    | 2.739                     | 0.379                      | 20.000       | 400         | 800         |
| <b>25</b>          | 10                    | 2.886                     | 0.526                      | 25.000       | 500         | 1000        |
| <b>30</b>          | 10                    | 3.033                     | 0.673                      | 30.000       | 600         | 1200        |
| <b>C 12 x 20.7</b> | 12                    | 2.942                     | 0.282                      | 20.700       | 414         | 828         |
| <b>25</b>          | 12                    | 3.047                     | 0.387                      | 25.000       | 500         | 1000        |
| <b>30</b>          | 12                    | 3.170                     | 0.510                      | 30.000       | 600         | 1200        |
| <b>C 15 x 33.9</b> | 15                    | 3.400                     | 0.400                      | 33.900       | 678         | 1356        |
| <b>40</b>          | 15                    | 3.520                     | 0.520                      | 40.000       | 800         | 1600        |
| <b>50</b>          | 15                    | 3.716                     | 0.716                      | 50.000       | 1000        | 2000        |

### MISC.CHANNELS

| AISI         | A                     | B                         | C                          | Weight, Lbs. |             |             |
|--------------|-----------------------|---------------------------|----------------------------|--------------|-------------|-------------|
| Designation  | Depth<br>in<br>Inches | Flange<br>Width<br>Inches | Web<br>Thickness<br>Inches | Per.<br>Ft.  | Per.<br>20' | Per.<br>40' |
| MC 3 x 7.1   | 3                     | 1.938                     | 0.312                      | 7.100        | 142         | 284         |
| MC 4 x 13.8  | 4                     | 2.500                     | 0.500                      | 13.800       | 276         | 552         |
| MC 6 x 12    | 6                     | 2.497                     | 0.310                      | 12.000       | 240         | 480         |
| 15.3         | 6                     | 3.500                     | 0.340                      | 15.300       | 306         | 612         |
| 16.3         | 6                     | 3.000                     | 0.375                      | 16.300       | 326         | 652         |
| 18           | 6                     | 3.504                     | 0.379                      | 18.000       | 360         | 720         |
| MC 7 x 19.1  | 7                     | 3.452                     | 0.352                      | 19.100       | 382         | 764         |
| 22.7         | 7                     | 3.603                     | 0.503                      | 22.700       | 454         | 908         |
| MC 8 x 8.5   | 8                     | 1.875                     | 0.188                      | 8.500        | 170         | 340         |
| 18.7         | 8                     | 2.978                     | 0.353                      | 18.700       | 374         | 748         |
| 20           | 8                     | 3.025                     | 0.400                      | 20.000       | 400         | 800         |
| 21.4         | 8                     | 3.450                     | 0.375                      | 21.400       | 428         | 856         |
| 22.8         | 8                     | 3.502                     | 0.427                      | 22.800       | 456         | 912         |
| MC 9 x 23.9  | 9                     | 3.450                     | 0.400                      | 23.900       | 478         | 956         |
| 25.4         | 9                     | 3.500                     | 0.450                      | 25.400       | 508         | 1016        |
| MC 10 x 6.5  | 10                    | 1.125                     | 0.150                      | 6.500        | 130         | 260         |
| 8.4          | 10                    | 1.500                     | 0.170                      | 8.400        | 168         | 336         |
| 22           | 10                    | 3.376                     | 0.312                      | 22.000       | 440         | 880         |
| 25           | 10                    | 3.405                     | 0.380                      | 25.000       | 500         | 1000        |
| 28.5         | 10                    | 3.950                     | 0.425                      | 28.500       | 570         | 1140        |
| 33.6         | 10                    | 4.100                     | 0.575                      | 33.600       | 672         | 1344        |
| MC 12 x 10.6 | 12                    | 1.500                     | 0.190                      | 10.600       | 212         | 424         |
| 31           | 12                    | 3.670                     | 0.370                      | 31.000       | 620         | 1240        |
| 35           | 12                    | 3.767                     | 0.467                      | 35.000       | 700         | 1400        |
| 37           | 12                    | 3.600                     | 0.600                      | 37.000       | 740         | 1480        |
| 45           | 12                    | 4.012                     | 0.712                      | 45.000       | 900         | 1800        |
| 50           | 12                    | 4.135                     | 0.835                      | 50.000       | 1000        | 2000        |
| MC 13 x 31.8 | 13                    | 4.000                     | 0.375                      | 31.800       | 636         | 1272        |
| 40           | 13                    | 4.185                     | 0.560                      | 40.000       | 800         | 1600        |
| 50           | 13                    | 4.412                     | 0.787                      | 50.000       | 1000        | 2000        |
| MC 18 x 42.7 | 18                    | 3.950                     | 0.450                      | 42.700       | 854         | 1708        |
| 45.8         | 18                    | 4.000                     | 0.500                      | 45.800       | 916         | 1832        |
| 51.9         | 18                    | 4.100                     | 0.600                      | 51.900       | 1038        | 2076        |
| 58           | 18                    | 4.200                     | 0.700                      | 58.000       | 1160        | 2320        |

### BAR SIZE CHANNELS

| SIZES IN INCHES |   |      |   |      | WT.<br>#/FT. | WT.<br>#/20' |
|-----------------|---|------|---|------|--------------|--------------|
| A               |   | B    |   | C    |              |              |
| 3/4             | x | 3/8  | x | 1/8  | 0.560        | - 11.20      |
| 1               | x | 3/8  | x | 1/8  | 0.680        | - 13.60      |
| 1               | x | 1/2  | x | 1/8  | 0.820        | - 16.40      |
| 1 1/4           | x | 1/2  | x | 1/8  | 1.010        | - 20.20      |
| 1 1/2           | x | 1/2  | x | 1/8  | 1.120        | - 22.40      |
| 1 1/2           | x | 9/16 | x | 3/16 | 1.440        | - 28.80      |
| 2               | x | 1/2  | x | 1/8  | 1.430        | - 28.60      |
| 2               | x | 9/16 | x | 3/16 | 1.860        | - 37.20      |
| 2               | x | 5/8  | x | 1/4  | 2.280        | - 45.60      |
| 2               | x | 1    | x | 1/8  | 1.590        | - 31.80      |
| 2               | x | 1    | x | 3/16 | 2.320        | - 46.40      |
| 2 1/2           | x | 5/8  | x | 3/16 | 2.270        | - 45.40      |

### HP SHAPES

| AISI<br>Designation | A<br>Flanges<br>in | B<br>Flanges<br>Width<br>Inches | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |      |
|---------------------|--------------------|---------------------------------|---------------------------------|--------------|------|
|                     |                    |                                 |                                 | Per.         | Per  |
|                     |                    |                                 |                                 | Ft.          | 40'  |
| HP 8 x 36           | #                  | 8.160                           | # 0.445                         | 36           | 1440 |
| HP 10 x 42          | #                  | 10.080                          | # 0.415                         | 42           | 1680 |
| x 57                | #                  | 10.230                          | # 0.565                         | 57           | 2280 |
| HP 12 x 56          | #                  | 12.050                          | # 0.435                         | 53           | 2120 |
| x 63                | #                  | 12.130                          | # 0.515                         | 63           | 2520 |
| x 74                | #                  | 12.220                          | # 0.605                         | 74           | 2960 |
| x 84                | #                  | 12.300                          | # 0.685                         | 84           | 3360 |
| HP 13 x 60          | #                  | 12.900                          | # 0.460                         | 60           | 2400 |
| x 73                | #                  | 13.010                          | # 0.565                         | 73           | 2920 |
| x 87                | #                  | 13.110                          | # 0.665                         | 87           | 3480 |
| x 100               | #                  | 13.210                          | # 0.765                         | 100          | 4000 |
| HP 14 x 73          | #                  | 14.590                          | # 0.505                         | 73           | 2920 |
| x 89                | #                  | 14.700                          | # 0.615                         | 89           | 3560 |
| x 102               | #                  | 14.790                          | # 0.705                         | 102          | 4080 |
| x 117               | #                  | 14.890                          | # 0.805                         | 117          | 4680 |

## WIDE FLANGE BEAMS

| AISI<br>Designation | A<br>Depth<br>in<br>Inches | B<br>Flanges<br>Width<br>Inches | Flange<br>Thickness | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |            |
|---------------------|----------------------------|---------------------------------|---------------------|---------------------------------|--------------|------------|
|                     |                            |                                 |                     |                                 | Per<br>Ft.   | Per<br>40' |
| <b>W 4 x 13</b>     | 4.160                      | 4.060                           | 0.345               | 0.280                           | 13           | 520        |
| <b>W 5 x 16</b>     | 5.010                      | 5.000                           | 0.360               | 0.240                           | 16           | 640        |
| <b>19</b>           | 5.150                      | 5.030                           | 0.430               | 0.270                           | 19           | 760        |
| <b>W 6 x 9</b>      | 5.900                      | 3.940                           | 0.215               | 0.170                           | 9            | 360        |
| <b>12</b>           | 6.030                      | 4.000                           | 0.280               | 0.230                           | 12           | 480        |
| <b>15</b>           | 5.990                      | 5.990                           | 0.260               | 0.230                           | 15           | 600        |
| <b>16</b>           | 6.280                      | 4.030                           | 0.405               | 0.260                           | 16           | 640        |
| <b>20</b>           | 6.200                      | 6.020                           | 0.365               | 0.260                           | 20           | 800        |
| <b>25</b>           | 6.380                      | 6.080                           | 0.455               | 0.320                           | 25           | 1000       |
| <b>W 8 x 10</b>     | 7.890                      | 3.940                           | 0.205               | 0.170                           | 10           | 400        |
| <b>13</b>           | 7.990                      | 4.000                           | 0.255               | 0.230                           | 13           | 520        |
| <b>15</b>           | 8.110                      | 4.010                           | 0.315               | 0.245                           | 15           | 600        |
| <b>18</b>           | 8.140                      | 5.250                           | 0.330               | 0.230                           | 18           | 720        |
| <b>21</b>           | 8.280                      | 5.270                           | 0.400               | 0.250                           | 21           | 840        |
| <b>24</b>           | 7.930                      | 6.490                           | 0.400               | 0.245                           | 24           | 960        |
| <b>28</b>           | 8.060                      | 6.530                           | 0.465               | 0.285                           | 28           | 1120       |
| <b>31</b>           | 8.000                      | 7.990                           | 0.435               | 0.285                           | 31           | 1240       |
| <b>35</b>           | 8.120                      | 8.020                           | 0.495               | 0.310                           | 35           | 1400       |
| <b>40</b>           | 8.250                      | 8.070                           | 0.560               | 0.360                           | 40           | 1600       |
| <b>48</b>           | 8.500                      | 8.110                           | 0.685               | 0.400                           | 48           | 1920       |
| <b>58</b>           | 8.750                      | 8.220                           | 0.810               | 0.510                           | 58           | 2320       |
| <b>67</b>           | 9.000                      | 8.280                           | 0.935               | 0.570                           | 67           | 2680       |
| <b>W 10 x 12</b>    | 9.870                      | 3.960                           | 0.210               | 0.190                           | 12           | 480        |
| <b>15</b>           | 9.990                      | 4.000                           | 0.270               | 0.230                           | 15           | 600        |
| <b>17</b>           | 10.100                     | 4.010                           | 0.330               | 0.240                           | 17           | 680        |
| <b>19</b>           | 10.200                     | 4.020                           | 0.395               | 0.250                           | 19           | 760        |
| <b>22</b>           | 10.100                     | 5.750                           | 0.360               | 0.240                           | 22           | 880        |
| <b>26</b>           | 10.300                     | 5.770                           | 0.440               | 0.260                           | 26           | 1040       |
| <b>30</b>           | 10.400                     | 5.810                           | 0.510               | 0.300                           | 30           | 1200       |
| <b>33</b>           | 9.730                      | 7.960                           | 0.435               | 0.290                           | 33           | 1320       |
| <b>39</b>           | 9.920                      | 7.980                           | 0.530               | 0.315                           | 39           | 1560       |
| <b>45</b>           | 10.100                     | 8.020                           | 0.620               | 0.350                           | 45           | 1800       |
| <b>49</b>           | 9.980                      | 10.000                          | 0.560               | 0.340                           | 49           | 1960       |
| <b>54</b>           | 10.100                     | 10.000                          | 0.615               | 0.370                           | 54           | 2160       |
| <b>60</b>           | 10.200                     | 10.100                          | 0.680               | 0.420                           | 60           | 2400       |
| <b>68</b>           | 10.400                     | 10.100                          | 0.770               | 0.470                           | 68           | 2720       |
| <b>77</b>           | 10.600                     | 10.200                          | 0.870               | 0.530                           | 77           | 3080       |
| <b>88</b>           | 10.800                     | 10.300                          | 0.990               | 0.605                           | 88           | 3520       |
| <b>100</b>          | 11.100                     | 10.300                          | 1.120               | 0.680                           | 100          | 4000       |
| <b>112</b>          | 11.400                     | 10.400                          | 1.250               | 0.755                           | 112          | 4480       |

## WIDE FLANGE BEAMS

| AISI<br>Designation | A<br>Depth<br>in<br>Inches | B<br>Flanges<br>Width<br>Inches | Flange<br>Thickness | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |            |
|---------------------|----------------------------|---------------------------------|---------------------|---------------------------------|--------------|------------|
|                     |                            |                                 |                     |                                 | Per<br>Ft.   | Per<br>40' |
| <b>W 12 x 14</b>    | 11.910                     | 3.970                           | 0.225               | 0.200                           | 14           | 560        |
| <b>16</b>           | 11.990                     | 3.990                           | 0.265               | 0.220                           | 16           | 640        |
| <b>19</b>           | 12.160                     | 4.005                           | 0.350               | 0.235                           | 19           | 760        |
| <b>22</b>           | 12.310                     | 4.030                           | 0.425               | 0.260                           | 22           | 880        |
| <b>26</b>           | 12.220                     | 6.490                           | 0.380               | 0.230                           | 26           | 1040       |
| <b>30</b>           | 12.340                     | 6.520                           | 0.440               | 0.260                           | 30           | 1200       |
| <b>35</b>           | 12.500                     | 6.560                           | 0.520               | 0.300                           | 35           | 1400       |
| <b>40</b>           | 11.940                     | 8.005                           | 0.515               | 0.295                           | 40           | 1600       |
| <b>45</b>           | 12.060                     | 8.045                           | 0.575               | 0.335                           | 45           | 1800       |
| <b>50</b>           | 12.190                     | 8.080                           | 0.640               | 0.370                           | 50           | 2000       |
| <b>53</b>           | 12.060                     | 9.995                           | 0.575               | 0.345                           | 53           | 2120       |
| <b>58</b>           | 12.190                     | 10.010                          | 0.640               | 0.360                           | 58           | 2320       |
| <b>65</b>           | 12.120                     | 12.000                          | 0.605               | 0.390                           | 65           | 2600       |
| <b>72</b>           | 12.250                     | 12.040                          | 0.670               | 0.430                           | 72           | 2880       |
| <b>79</b>           | 12.380                     | 12.080                          | 0.735               | 0.470                           | 79           | 3160       |
| <b>87</b>           | 12.530                     | 12.120                          | 0.810               | 0.515                           | 87           | 3480       |
| <b>96</b>           | 12.710                     | 12.160                          | 0.900               | 0.550                           | 96           | 3840       |
| <b>106</b>          | 12.890                     | 12.220                          | 0.990               | 0.610                           | 106          | 4240       |
| <b>120</b>          | 13.120                     | 12.320                          | 1.110               | 0.710                           | 120          | 4800       |
| <b>136</b>          | 13.410                     | 12.400                          | 1.250               | 0.790                           | 136          | 5440       |
| <b>152</b>          | 13.710                     | 12.480                          | 1.400               | 0.870                           | 152          | 6080       |
| <b>170</b>          | 14.030                     | 12.570                          | 1.560               | 0.960                           | 170          | 6800       |
| <b>190</b>          | 13.710                     | 12.670                          | 1.710               | 1.060                           | 190          | 7600       |
| <b>W 14 x 22</b>    | 13.720                     | 5.000                           | 0.335               | 0.230                           | 22           | 880        |
| <b>26</b>           | 13.910                     | 5.025                           | 0.420               | 0.255                           | 26           | 1040       |
| <b>30</b>           | 13.840                     | 6.730                           | 0.385               | 0.270                           | 30           | 1200       |
| <b>34</b>           | 13.980                     | 6.745                           | 0.455               | 0.285                           | 34           | 1360       |
| <b>38</b>           | 14.100                     | 6.770                           | 0.515               | 0.310                           | 28           | 1520       |
| <b>43</b>           | 13.660                     | 7.995                           | 0.530               | 0.305                           | 43           | 1720       |
| <b>48</b>           | 13.790                     | 8.030                           | 0.595               | 0.340                           | 48           | 1920       |
| <b>53</b>           | 13.920                     | 8.060                           | 0.660               | 0.370                           | 53           | 2120       |
| <b>61</b>           | 13.890                     | 9.995                           | 0.645               | 0.375                           | 61           | 2440       |
| <b>68</b>           | 14.040                     | 10.030                          | 0.720               | 0.415                           | 68           | 2720       |
| <b>74</b>           | 14.170                     | 10.070                          | 0.785               | 0.450                           | 74           | 2960       |
| <b>82</b>           | 14.310                     | 10.130                          | 0.855               | 0.510                           | 82           | 3280       |
| <b>90</b>           | 14.020                     | 14.520                          | 0.710               | 0.440                           | 90           | 3600       |
| <b>99</b>           | 14.160                     | 14.560                          | 0.780               | 0.485                           | 99           | 3960       |
| <b>109</b>          | 14.320                     | 14.600                          | 0.860               | 0.525                           | 109          | 4360       |
| <b>120</b>          | 14.480                     | 14.670                          | 0.940               | 0.590                           | 120          | 4800       |
| <b>132</b>          | 14.660                     | 14.720                          | 1.030               | 0.645                           | 132          | 5280       |
| <b>159</b>          | 14.980                     | 15.560                          | 1.190               | 0.745                           | 159          | 6360       |
| <b>176</b>          | 15.220                     | 15.650                          | 1.310               | 0.830                           | 176          | 7040       |
| <b>193</b>          | 15.480                     | 15.710                          | 1.440               | 0.890                           | 193          | 7720       |
| <b>211</b>          | 15.720                     | 15.800                          | 1.560               | 0.980                           | 211          | 8440       |
| <b>233</b>          | 16.040                     | 15.890                          | 1.720               | 1.070                           | 233          | 9320       |
| <b>257</b>          | 16.380                     | 15.990                          | 1.890               | 1.170                           | 257          | 10280      |
| <b>283</b>          | 16.740                     | 16.110                          | 2.070               | 1.290                           | 283          | 11320      |
| <b>311</b>          | 17.120                     | 16.230                          | 2.260               | 1.410                           | 311          | 12440      |

# **WIDE FLANGE BEAMS**

| AISI<br>Designation | A<br>Depth<br>in<br>Inches | B<br>Flanges<br>Width<br>Inches | Flange<br>Thickness | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |            |
|---------------------|----------------------------|---------------------------------|---------------------|---------------------------------|--------------|------------|
|                     |                            |                                 |                     |                                 | Per.<br>Ft.  | Per<br>40' |
| <b>W 16 x 26</b>    | 15.690                     | 5.500                           | 0.345               | 0.250                           | 26           | 1040       |
| <b>31</b>           | 15.880                     | 5.250                           | 0.440               | 0.275                           | 31           | 1240       |
| <b>36</b>           | 15.860                     | 6.985                           | 0.430               | 0.295                           | 36           | 1440       |
| <b>40</b>           | 16.010                     | 6.995                           | 0.505               | 0.305                           | 40           | 1600       |
| <b>45</b>           | 16.130                     | 7.035                           | 0.565               | 0.345                           | 45           | 4800       |
| <b>50</b>           | 16.260                     | 7.070                           | 0.630               | 0.380                           | 50           | 2000       |
| <b>57</b>           | 16.430                     | 7.120                           | 0.715               | 0.430                           | 57           | 2280       |
| <b>67</b>           | 16.330                     | 10.230                          | 0.665               | 0.395                           | 67           | 2680       |
| <b>77</b>           | 16.520                     | 10.290                          | 0.760               | 0.455                           | 77           | 3080       |
| <b>89</b>           | 16.750                     | 10.360                          | 0.875               | 0.525                           | 89           | 3560       |
| <b>100</b>          | 16.970                     | 10.420                          | 0.985               | 0.585                           | 100          | 4000       |
| <b>W 18 x 35</b>    | 17.700                     | 6.000                           | 0.425               | 0.300                           | 35           | 1400       |
| <b>40</b>           | 17.900                     | 6.015                           | 0.525               | 0.315                           | 40           | 1600       |
| <b>46</b>           | 18.060                     | 6.060                           | 0.605               | 0.360                           | 46           | 1840       |
| <b>50</b>           | 17.990                     | 7.495                           | 0.570               | 0.355                           | 50           | 2000       |
| <b>55</b>           | 18.110                     | 7.530                           | 0.630               | 0.390                           | 55           | 2200       |
| <b>60</b>           | 18.240                     | 7.555                           | 0.695               | 0.415                           | 60           | 2400       |
| <b>65</b>           | 18.350                     | 7.590                           | 0.750               | 0.450                           | 65           | 2600       |
| <b>71</b>           | 18.470                     | 7.635                           | 0.810               | 0.495                           | 71           | 2840       |
| <b>76</b>           | 18.210                     | 11.030                          | 0.680               | 0.425                           | 76           | 3040       |
| <b>86</b>           | 18.390                     | 11.090                          | 0.770               | 0.480                           | 86           | 3440       |
| <b>97</b>           | 18.590                     | 11.140                          | 0.870               | 0.535                           | 97           | 3880       |
| <b>106</b>          | 18.730                     | 11.200                          | 0.940               | 0.590                           | 106          | 4240       |
| <b>119</b>          | 18.970                     | 11.260                          | 1.060               | 0.655                           | 119          | 4760       |
| <b>W 21 x 44</b>    | 20.660                     | 6.500                           | 0.450               | 0.350                           | 44           | 1760       |
| <b>50</b>           | 20.830                     | 6.530                           | 0.535               | 0.380                           | 50           | 2000       |
| <b>57</b>           | 21.060                     | 6.555                           | 0.650               | 0.405                           | 57           | 2280       |
| <b>62</b>           | 20.990                     | 8.240                           | 0.615               | 0.400                           | 62           | 2480       |
| <b>68</b>           | 21.130                     | 8.270                           | 0.685               | 0.430                           | 68           | 2720       |
| <b>73</b>           | 21.240                     | 8.295                           | 0.740               | 0.455                           | 73           | 2920       |
| <b>83</b>           | 21.430                     | 8.355                           | 0.835               | 0.515                           | 83           | 3320       |
| <b>93</b>           | 21.620                     | 8.420                           | 0.930               | 0.580                           | 93           | 3720       |
| <b>101</b>          | 21.360                     | 12.290                          | 0.800               | 0.500                           | 101          | 4040       |
| <b>111</b>          | 21.510                     | 12.340                          | 0.875               | 0.550                           | 111          | 4440       |
| <b>122</b>          | 21.680                     | 12.390                          | 0.960               | 0.600                           | 122          | 4880       |
| <b>132</b>          | 21.830                     | 12.440                          | 1.030               | 0.650                           | 132          | 5280       |
| <b>147</b>          | 22.060                     | 12.510                          | 1.150               | 0.720                           | 147          | 5880       |
| <b>166</b>          | 22.480                     | 12.420                          | 1.360               | 0.750                           | 166          | 6640       |
| <b>W 24 x 55</b>    | 23.570                     | 7.005                           | 0.505               | 0.395                           | 55           | 2200       |
| <b>62</b>           | 23.740                     | 7.040                           | 0.590               | 0.430                           | 62           | 2480       |
| <b>68</b>           | 23.730                     | 8.965                           | 0.585               | 0.415                           | 68           | 2720       |
| <b>76</b>           | 23.920                     | 8.990                           | 0.680               | 0.440                           | 76           | 3040       |
| <b>84</b>           | 24.100                     | 9.020                           | 0.770               | 0.470                           | 84           | 3360       |
| <b>94</b>           | 24.310                     | 9.065                           | 0.875               | 0.515                           | 94           | 3760       |
| <b>104</b>          | 24.060                     | 12.750                          | 0.750               | 0.500                           | 104          | 4160       |
| <b>117</b>          | 24.260                     | 12.800                          | 0.850               | 0.550                           | 117          | 4680       |
| <b>131</b>          | 24.480                     | 12.850                          | 0.960               | 0.605                           | 131          | 5240       |
| <b>146</b>          | 24.740                     | 12.900                          | 1.090               | 0.650                           | 146          | 5840       |
| <b>162</b>          | 25.000                     | 12.950                          | 1.220               | 0.705                           | 162          | 6480       |

## WIDE FLANGE BEAMS

| AISI<br>Designation | A<br>Depth<br>in<br>Inches | B<br>Flanges<br>Width<br>Inches | Flange<br>Thickness | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |            |
|---------------------|----------------------------|---------------------------------|---------------------|---------------------------------|--------------|------------|
|                     |                            |                                 |                     |                                 | Per<br>Ft.   | Per<br>40' |
| <b>W 27 x 94</b>    | 26.920                     | 9.990                           | 0.745               | 0.490                           | 94           | 3760       |
| <b>102</b>          | 27.090                     | 10.010                          | 0.830               | 0.515                           | 102          | 4080       |
| <b>114</b>          | 27.290                     | 10.070                          | 0.930               | 0.570                           | 114          | 4560       |
| <b>146</b>          | 27.380                     | 13.960                          | 0.975               | 0.605                           | 146          | 5840       |
| <b>161</b>          | 27.590                     | 14.020                          | 1.080               | 0.660                           | 161          | 6440       |
| <b>W 30 x 99</b>    | 29.650                     | 10.450                          | 0.670               | 0.520                           | 99           | 3960       |
| <b>108</b>          | 29.830                     | 10.475                          | 0.760               | 0.545                           | 108          | 4320       |
| <b>116</b>          | 30.010                     | 10.495                          | 0.850               | 0.565                           | 116          | 4640       |
| <b>124</b>          | 30.170                     | 10.515                          | 0.930               | 0.585                           | 124          | 4960       |
| <b>132</b>          | 30.310                     | 10.545                          | 1.000               | 0.615                           | 132          | 5280       |
| <b>148</b>          | 30.670                     | 10.480                          | 1.180               | 0.650                           | 148          | 5920       |
| <b>173</b>          | 30.440                     | 14.985                          | 1.070               | 0.655                           | 173          | 6920       |
| <b>191</b>          | 30.680                     | 15.040                          | 1.190               | 0.710                           | 191          | 7640       |
| <b>211</b>          | 30.940                     | 15.105                          | 1.320               | 0.775                           | 211          | 8440       |
| <b>235</b>          | 31.300                     | 15.055                          | 1.500               | 0.830                           | 235          | 9400       |
| <b>W 33 x 118</b>   | 32.860                     | 11.480                          | 0.740               | 0.550                           | 118          | 4720       |
| <b>130</b>          | 33.090                     | 11.510                          | 0.855               | 0.580                           | 130          | 5200       |
| <b>141</b>          | 33.300                     | 11.535                          | 0.960               | 0.605                           | 141          | 5640       |
| <b>152</b>          | 33.490                     | 11.565                          | 1.060               | 0.635                           | 152          | 6080       |
| <b>169</b>          | 33.820                     | 11.500                          | 1.220               | 0.670                           | 169          | 6760       |
| <b>201</b>          | 33.680                     | 15.745                          | 1.150               | 0.715                           | 201          | 8040       |
| <b>221</b>          | 33.930                     | 15.805                          | 1.280               | 0.775                           | 221          | 8840       |
| <b>241</b>          | 34.180                     | 15.860                          | 1.400               | 0.830                           | 241          | 9640       |
| <b>263</b>          | 34.530                     | 15.805                          | 1.570               | 0.870                           | 263          | 10520      |
| <b>291</b>          | 34.840                     | 15.905                          | 1.730               | 0.960                           | 291          | 11640      |
| <b>318</b>          | 35.160                     | 15.985                          | 1.890               | 1.040                           | 318          | 12720      |
| <b>354</b>          | 35.550                     | 16.100                          | 2.090               | 1.160                           | 354          | 14160      |
| <b>W 36 x 135</b>   | 35.550                     | 11.950                          | 0.790               | 0.600                           | 135          | 5400       |
| <b>150</b>          | 35.850                     | 11.975                          | 0.940               | 0.625                           | 150          | 6000       |
| <b>160</b>          | 36.010                     | 12.000                          | 1.020               | 0.650                           | 160          | 6400       |
| <b>170</b>          | 36.170                     | 12.030                          | 1.100               | 0.680                           | 170          | 6800       |
| <b>182</b>          | 36.330                     | 12.075                          | 1.180               | 0.725                           | 182          | 7280       |
| <b>194</b>          | 36.490                     | 12.115                          | 1.260               | 0.765                           | 194          | 7760       |
| <b>210</b>          | 36.690                     | 12.180                          | 1.360               | 0.830                           | 210          | 8400       |
| <b>230</b>          | 35.900                     | 16.470                          | 1.570               | 0.760                           | 230          | 9200       |
| <b>232</b>          | 37.120                     | 12.120                          | 1.730               | 0.870                           | 232          | 9280       |
| <b>245</b>          | 36.080                     | 16.510                          | 1.260               | 0.800                           | 245          | 9800       |
| <b>256</b>          | 37.430                     | 12.215                          | 1.350               | 0.960                           | 256          | 10240      |
| <b>260</b>          | 36.260                     | 16.550                          | 1.440               | 0.840                           | 260          | 10400      |
| <b>280</b>          | 36.520                     | 16.595                          | 1.570               | 0.885                           | 280          | 11200      |
| <b>300</b>          | 36.740                     | 16.665                          | 1.680               | 0.945                           | 300          | 12000      |
| <b>328</b>          | 37.090                     | 16.630                          | 1.850               | 1.020                           | 328          | 13120      |
| <b>359</b>          | 37.400                     | 16.730                          | 2.010               | 1.120                           | 359          | 14360      |

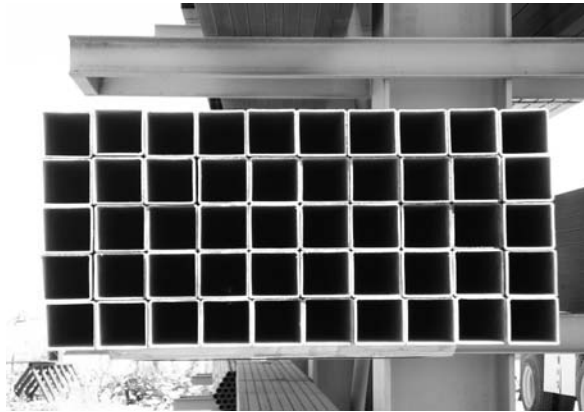
**Free delivery available to all customers within the immediate area.**

## STANDARD ("I") BEAMS

| AISI<br>Designation                  | A<br>Depth<br>in<br>Inches | B<br>Flanges<br>Width<br>Inches | C<br>Web<br>Thickness<br>Inches | Weight, Lbs. |            |             |
|--------------------------------------|----------------------------|---------------------------------|---------------------------------|--------------|------------|-------------|
|                                      |                            |                                 |                                 | Per.<br>Ft.  | Per<br>20' | Per.<br>40' |
| S 3 x 5.7<br>7.5                     | 3                          | 2.330                           | 0.170                           | 5.700        | 114        | 228         |
|                                      | 3                          | 2.509                           | 0.349                           | 7.500        | 150        | 300         |
| S 4 x 7.7<br>9.5                     | 4                          | 2.663                           | 0.193                           | 7.700        | 154        | 308         |
|                                      | 4                          | 2.796                           | 0.326                           | 9.500        | 190        | 380         |
| S 5 x 10<br>14.75                    | 5                          | 3.004                           | 0.214                           | 10.000       | 200        | 400         |
|                                      | 5                          | 3.284                           | 0.494                           | 14.750       | 295        | 590         |
| S 6 x 12.5<br>17.25                  | 6                          | 3.332                           | 0.232                           | 12.500       | 250        | 500         |
|                                      | 6                          | 3.565                           | 0.465                           | 17.250       | 345        | 690         |
| S 7 x 15.3<br>20                     | 7                          | 3.620                           | 0.252                           | 15.300       | 306        | 612         |
|                                      | 7                          | 3.860                           | 0.450                           | 20.000       | 400        | 800         |
| S 8 x 18.4<br>23                     | 8                          | 4.001                           | 0.271                           | 18.400       | 368        | 736         |
|                                      | 8                          | 4.171                           | 0.441                           | 23.000       | 460        | 920         |
| S 10 x 25.4<br>35                    | 10                         | 4.661                           | 0.311                           | 25.400       | 508        | 1016        |
|                                      | 10.000                     | 4.944                           | 0.594                           | 35.000       | 700        | 1400        |
| S 12 x 31.8<br>35<br>40.8<br>50      | 12.000                     | 5.000                           | 0.350                           | 31.800       | 636        | 1272        |
|                                      | 12.000                     | 5.078                           | 0.428                           | 35.000       | 700        | 1400        |
|                                      | 12.000                     | 5.252                           | 0.462                           | 40.800       | 816        | 1632        |
|                                      | 12.000                     | 5.477                           | 0.687                           | 50.000       | 1000       | 2000        |
| S 15 x 42.9<br>50                    | 15.000                     | 5.501                           | 0.411                           | 42.900       | 858        | 1716        |
|                                      | 15.000                     | 5.640                           | 0.550                           | 50.000       | 1000       | 2000        |
| S 18 x 54.7<br>70                    | 18.000                     | 6.001                           | 0.461                           | 54.700       | 1094       | 2188        |
|                                      | 18.000                     | 6.251                           | 0.711                           | 70.000       | 1400       | 2800        |
| S 20 x 66<br>75<br>86<br>96          | 20.000                     | 6.255                           | 0.505                           | 66.000       | 1320       | 2640        |
|                                      | 20.000                     | 6.385                           | 0.635                           | 75.000       | 1500       | 3000        |
|                                      | 20.000                     | 7.060                           | 0.660                           | 86.000       | 1720       | 2440        |
|                                      | 20.000                     | 7.200                           | 0.800                           | 96.000       | 1920       | 3840        |
| S 24 x 80<br>90<br>100<br>106<br>121 | 24.000                     | 7.000                           | 0.500                           | 80.000       | 1600       | 3200        |
|                                      | 24.000                     | 7.125                           | 0.625                           | 90.000       | 1800       | 3600        |
|                                      | 24.000                     | 7.245                           | 0.745                           | 100.000      | 2000       | 4000        |
|                                      | 24.500                     | 7.870                           | 0.620                           | 106.000      | 2120       | 4240        |
|                                      | 24.500                     | 8.050                           | 0.800                           | 121.000      | 2420       | 4840        |

**Call regarding:**

**Size and grades not listed**





### Tube gauge thickness to decimals

Gauge    thickness

**10 ga. .134**

**11 ga. .120**

**12 ga. .109**

**13ga. .095**

**14 ga. .083**

**15 ga. .072**

**16 ga. .065**

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## SQUARE TUBE

| SIZE IN.<br>INCHES     | WT.<br>#/FT. | SIZE IN<br>INCHES      | WT.<br>#/FT. |
|------------------------|--------------|------------------------|--------------|
| <b>3/8 x 3/8 x</b>     |              | <b>1 1/4 x 1 1/4 x</b> |              |
| 18 ga.                 | 0.217        | 16 ga.                 | 1.040        |
| 16 ga.                 | 0.274        | 14 ga.                 | 1.310        |
|                        |              | 13 ga.                 | 1.490        |
| <b>1/2 x 1/2 x</b>     |              | 12 ga.                 | 1.690        |
| 20 ga.                 | 0.221        | 1/8 (11 ga)            | 1.840        |
| 18 ga.                 | 0.300        | 3/16                   | 2.610        |
| 16 ga.                 | 0.384        |                        |              |
|                        |              | <b>1 1/2 x 1 1/2 x</b> |              |
| <b>5/8 x 5/8 x</b>     |              | 20 ga.                 | 0.697        |
| 20 ga.                 | 0.280        | 18 ga.                 | 0.967        |
| 18 ga.                 | 0.300        | 16 ga.                 | 1.260        |
| 16 ga.                 | 0.495        | 14 ga.                 | 1.590        |
| 14 ga.                 | 0.611        | 13 ga.                 | 1.810        |
|                        |              | 12 ga.                 | 2.060        |
| <b>3/4 x 3/4 x</b>     |              | 1/8 (11 ga)            | 2.250        |
| 20 ga.                 | 0.340        | 3/16                   | 3.040        |
| 18 ga.                 | 0.467        |                        |              |
| 16 ga.                 | 0.605        | <b>1 3/4 x 1 3/4 x</b> |              |
| 14 ga.                 | 0.753        | 20 ga.                 | 0.816        |
| 1/8 (11 ga)            | 1.020        | 18 ga.                 | 1.130        |
|                        |              | 16 ga.                 | 1.490        |
| <b>7/8 x 7/8 x</b>     |              | 14 ga.                 | 1.880        |
| 20 ga.                 | 0.399        | 13 ga.                 | 2.130        |
| 18 ga.                 | 0.550        | 12 ga.                 | 2.430        |
| 16 ga.                 | 0.716        | 1/8 (11 ga)            | 2.660        |
| 14 ga.                 | 0.894        |                        |              |
| 13 ga.                 | 1.010        | <b>2 x 2 x</b>         |              |
|                        |              | 16 ga.                 | 1.710        |
| <b>1 x 1 x</b>         |              | 14 ga.                 | 2.160        |
| 20 ga.                 | 0.459        | 13 ga.                 | 2.460        |
| 18 ga.                 | 0.633        | 12 ga.                 | 2.800        |
| 16 ga.                 | 0.826        | 1/8 (11 ga)            | 3.060        |
| 15 ga.                 | 0.909        | 3/16                   | 4.320        |
| 14 ga.                 | 1.030        | 1/4                    | 5.410        |
| 13 ga.                 | 1.160        |                        |              |
| 12 ga.                 | 1.320        | <b>2 1/4 x 2 1/4 x</b> |              |
| 1/8 (11 ga)            | 1.430        | 16 ga.                 | 1.930        |
|                        |              | 14 ga.                 | 2.440        |
| <b>1 1/8 x 1 1/8 x</b> |              | 13 ga.                 | 2.780        |
| 20 ga.                 | 0.518        | 12 ga.                 | 3.170        |
| 18 ga.                 | 0.717        | 1/8 (11 ga)            | 3.470        |
| 16 ga.                 | 0.937        |                        |              |
| 14 ga.                 | 1.170        | <b>2 1/2 x 2 1/2 x</b> |              |
| 13 ga.                 | 1.330        | 16 ga.                 | 2.150        |
| 12 ga.                 | 1.500        | 14 ga.                 | 2.720        |
| 1/8 (11 ga)            | 1.640        | 13 ga.                 | 3.100        |
|                        |              | 12 ga.                 | 3.540        |
| <b>1 1/4 x 1 1/4 x</b> |              | 1/8 (11 ga)            | 3.880        |
| 20 ga.                 | 0.578        | 3/16                   | 5.590        |
| 18 ga.                 | 0.800        | 1/4                    | 7.110        |

## SQUARE TUBE

| SIZE IN.<br>INCHES     | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|------------------------|--------------|-------------------|--------------|
| <b>3 x 3 x</b>         |              | <b>6 x 6 x</b>    |              |
| 16 ga.                 | 2.590        | 5/16              | 23.300       |
| 14 ga.                 | 3.290        | 3/8               | 27.400       |
| 13 ga.                 | 3.750        | 1/2               | 35.200       |
| 12 ga.                 | 4.280        |                   |              |
| 1/8 (11 ga)            | 4.700        | <b>7 x 7 x</b>    |              |
| 3/16                   | 6.870        | 3/16              | 17.000       |
| 1/4                    | 8.810        | 1/4               | 22.400       |
| 5/16                   | 10.500       | 5/16              | 27.500       |
|                        |              | 3/8               | 32.500       |
| <b>3 1/4 x 3 1/4 x</b> |              | 1/2               | 42.000       |
| 14 ga.                 | 3.570        |                   |              |
| 13 ga.                 | 4.070        | <b>8 x 8 x</b>    |              |
| 12 ga.                 | 4.650        | 3/16              | 19.600       |
| 11 ga.                 | 5.100        | 1/4               | 25.800       |
| 1/8 (11 ga)            | 7.510        | 5/16              | 31.800       |
|                        |              | 3/8               | 37.600       |
| <b>3 1/2 x 3 1/2 x</b> |              | 1/2               | 48.800       |
| 14 ga.                 | 3.850        | 5/8               | 59.300       |
| 13 ga.                 | 4.390        |                   |              |
| 12 ga.                 | 5.020        | <b>9 x 9 x</b>    |              |
| 1/8 (11 ga)            | 5.510        | 3/16              | 22.100       |
| 3/16                   | 8.150        | 1/4               | 29.200       |
| 1/4                    | 10.500       | 5/16              | 36.100       |
| 5/16                   | 12.700       | 3/8               | 42.700       |
|                        |              | 1/2               | 55.600       |
| <b>4 x 4 x</b>         |              |                   |              |
| 14 ga.                 | 4.420        | <b>10 x 10 x</b>  |              |
| 1/8 (11ga)             | 6.330        | 3/16              | 24.700       |
| 3/16                   | 9.420        | 1/4               | 32.600       |
| 1/4                    | 12.200       | 5/16              | 40.300       |
| 5/16                   | 14.800       | 3/8               | 47.900       |
| 3/8                    | 17.200       | 1/2               | 62.400       |
| 1/2                    | 21.600       | 5/8               | 76.300       |
|                        |              |                   |              |
| <b>4 1/2 x 4 1/2 x</b> |              | <b>12 x 12 x</b>  |              |
| 3/16                   | 10.700       | 3/16              | 29.800       |
| 1/4                    | 13.900       | 1/4               | 39.400       |
|                        |              | 5/16              | 48.800       |
| <b>5 x 5 x</b>         |              | 3/8               | 58.100       |
| 3/16                   | 11.900       | 1/2               | 76.000       |
| 1/4                    | 15.600       |                   |              |
| 5/16                   | 19.000       | <b>14 x 14 x</b>  |              |
| 3/8                    | 22.300       | 5/16              | 57.300       |
| 1/2                    | 28.400       | 3/8               | 68.300       |
|                        |              | 1/2               | 89.600       |
| <b>5 1/2 x 5 1/2 x</b> |              |                   |              |
| 3/16                   | 13.200       | <b>16 x 16 x</b>  |              |
| 1/4                    | 17.300       | 5/16              | 65.800       |
| 5/16                   | 21.200       | 3/8               | 78.500       |
| 3/8                    | 24.900       | 1/2               | 103.300      |
|                        |              |                   |              |
| <b>6 x 6 x</b>         |              |                   |              |
| 3/16                   | 14.500       |                   |              |
| 1/4                    | 19.000       |                   |              |

## RECTANGULAR TUBE

| SIZE IN.<br>INCHES     | WT.<br>#/FT. | SIZE IN<br>INCHES      | WT.<br>#/FT. |
|------------------------|--------------|------------------------|--------------|
| <b>3/4 x 1/2 x</b>     |              | <b>2 1/2 x 1 1/2 x</b> |              |
| 16 ga.                 | 0.495        | 12 ga.                 | 2.800        |
| <b>1 x 1/2 x</b>       |              | 1/8 (11 ga.)           | 3.060        |
| 16 ga.                 | 0.605        | 3/16                   | 4.490        |
| <b>1 1/4 x 1/2 x</b>   |              | 1/4                    | 5.400        |
| 16 ga.                 | 0.716        | <b>3 x 1 x</b>         |              |
| <b>1 1/2 x 3/4 x</b>   |              | 16 ga.                 | 1.710        |
| 16 ga.                 | 0.937        | 14 ga.                 | 2.160        |
| 1/8 (11 ga.)           | 1.640        | 13 ga.                 | 2.460        |
| <b>1 1/2 x 1 x</b>     |              | 12 ga.                 | 2.800        |
| 18 ga.                 | 0.800        | 1/8 (11 ga.)           | 3.060        |
| 16 ga.                 | 1.040        | <b>3 x 1 1/2 x</b>     |              |
| 14 ga.                 | 1.310        | 16 ga.                 | 1.930        |
| <b>13 ga.</b>          | 1.490        | 14 ga.                 | 2.440        |
| 12 ga.                 | 1.690        | 13 ga.                 | 2.780        |
| 1/8 (11 ga.)           | 1.840        | 12 ga.                 | 3.170        |
| <b>2 x 1 x</b>         |              | 1/8 (11 ga.)           | 3.470        |
| 16 ga.                 | 1.260        | 3/16                   | 5.070        |
| 14 ga.                 | 1.600        | <b>3 x 2 x</b>         |              |
| 13 ga.                 | 1.810        | 16 ga.                 | 2.150        |
| 12 ga.                 | 2.060        | 14 ga.                 | 2.720        |
| 1/8 (11 ga.)           | 2.250        | 13 ga.                 | 3.100        |
| <b>2 x 1 1/4 x</b>     |              | 12 ga.                 | 3.540        |
| 16 ga.                 | 1.370        | 1/8 (11 ga.)           | 3.880        |
| 14 ga.                 | 1.740        | 3/16                   | 5.590        |
| 13 ga.                 | 1.970        | 1/4                    | 7.110        |
| 12 ga.                 | 2.240        | <b>3 x 2 1/2 x</b>     |              |
| 1/8 (11 ga.)           | 2.450        | 16 ga.                 | 2.370        |
| <b>2 x 1 1/2 x</b>     |              | 14 ga.                 | 3.010        |
| 16 ga.                 | 1.490        | 13 ga.                 | 3.430        |
| 14 ga.                 | 1.880        | 12 ga.                 | 3.910        |
| 13 ga.                 | 2.130        | 1/8 (11 ga.)           | 4.290        |
| 12 ga.                 | 2.430        | <b>3 1/2 x 1 x</b>     |              |
| 1/8 (11 ga.)           | 2.660        | 16 ga.                 | 1.930        |
| <b>2 1/2 x 1 x</b>     |              | 14 ga.                 | 2.440        |
| 16 ga.                 | 1.490        | 13 ga.                 | 2.780        |
| 14 ga.                 | 1.880        | 12 ga.                 | 3.170        |
| 13 ga.                 | 2.130        | 1/8 (11 ga.)           | 3.470        |
| 12 ga.                 | 2.430        | <b>3 1/2 x 1 1/2 x</b> |              |
| 1/8 (11 ga.)           | 2.660        | 16 ga.                 | 2.150        |
| <b>2 1/2 x 1 1/2 x</b> |              | 14 ga.                 | 2.720        |
| 16 ga.                 | 1.710        | 13 ga.                 | 3.100        |
| 14 ga.                 | 2.160        | 12 ga.                 | 3.540        |
| 13 ga.                 | 2.460        | 1/8 (11 ga.)           | 3.880        |

## RECTANGULAR TUBE

| SIZE IN.<br>INCHES     | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|------------------------|--------------|-------------------|--------------|
| <b>3 1/2 x 2 1/2 x</b> |              | <b>5 x 3 x</b>    |              |
| 16 ga.                 | 2.590        | 3/8               | 17.200       |
| 14 ga.                 | 3.290        | 1/2               | 21.600       |
| 13 ga.                 | 3.750        |                   |              |
| 12 ga.                 | 4.280        | <b>5 x 4 x</b>    |              |
| 1/8 ( 11 ga)           | 4.700        | 3/16              | 10.700       |
|                        |              | 1/4               | 13.900       |
| <b>4 x 1 1/2 x</b>     |              | 3/8               | 19.820       |
| 16 ga.                 | 2.370        | <b>6 x 2 x</b>    |              |
| 14 ga.                 | 3.010        | 3/16              | 9.420        |
| 13 ga.                 | 3.430        | 1/4               | 12.200       |
| 12 ga.                 | 3.910        | 5/16              | 14.800       |
| 1/8 ( 11 ga)           | 4.290        |                   |              |
|                        |              | <b>6 x 3 x</b>    |              |
| <b>4 x 2 x</b>         |              | 1/8 (11 ga)       | 7.150        |
| 16 ga.                 | 2.590        | 3/16              | 10.700       |
| 14 ga.                 | 3.290        | 1/4               | 13.900       |
| 13 ga.                 | 3.750        | 3/8               | 19.800       |
| 12 ga.                 | 4.280        |                   |              |
| 1/8 ( 11ga)            | 4.700        | <b>6 x 4 x</b>    |              |
| 3/16                   | 6.870        | 3/16              | 11.900       |
| 1/4                    | 8.810        | 1/4               | 15.600       |
| 3/8                    | 12.160       | 5/16              | 19.000       |
|                        |              | 3/8               | 22.300       |
| <b>4 x 2 1/2 x</b>     |              | 1/2               | 28.400       |
| 14 ga.                 | 3.570        |                   |              |
| 13 ga.                 | 4.060        | <b>7 x 4 x</b>    |              |
| 12 ga.                 | 4.650        | 3/16              | 13.200       |
| 1/8 (11 ga)            | 5.100        | 1/4               | 17.300       |
|                        |              | 5/16              | 21.200       |
| <b>4 x 3 x</b>         |              | 3/8               | 24.900       |
| 14 ga.                 | 3.850        |                   |              |
| 13 ga.                 | 4.390        | <b>7 x 5 x</b>    |              |
| 12 ga.                 | 5.020        | 3/16              | 14.500       |
| 1/8 (11ga)             | 5.510        | 1/4               | 19.000       |
| 3/16                   | 8.150        | 5/16              | 23.300       |
| 1/4                    | 10.500       | 3/8               | 27.400       |
| 5/16                   | 12.700       | 1/2               | 35.200       |
|                        |              |                   |              |
| <b>5 x 2 x</b>         |              | <b>8 x 2 x</b>    |              |
| 12 ga.                 | 5.020        | 3/16              | 11.900       |
| 1/8 (11 ga)            | 5.510        | 1/4               | 15.600       |
| 3/16                   | 8.150        | 5/16              | 19.000       |
| 1/4                    | 10.500       | 3/8               | 22.300       |
|                        |              |                   |              |
| <b>5 x 2 1/2 x</b>     |              | <b>8 x 3 x</b>    |              |
| 12 ga.                 | 5.390        | 3/16              | 13.200       |
| 1/8 (11 ga)            | 5.920        | 1/4               | 17.300       |
|                        |              | 5/16              | 21.200       |
| <b>5 x 3 x</b>         |              | 3/8               | 24.900       |
| 1/8 (11 ga)            | 6.330        |                   |              |
| 3/16                   | 9.420        |                   |              |
| 1/4                    | 12.200       |                   |              |
| 5/16                   | 14.800       |                   |              |

## RECTANGULAR TUBE

| SIZE IN.<br>INCHES | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|--------------------|--------------|-------------------|--------------|
| <b>8 x 4 x</b>     |              | <b>10 x 5 x</b>   |              |
| 3/16               | 14.500       | 5/16              | 29.700       |
| 1/4                | 19.000       |                   |              |
| 5/16               | 23.300       | <b>10 x 6 x</b>   |              |
| 3/8                | 27.400       | 3/16              | 19.600       |
| 1/2                | 35.200       | 1/4               | 25.800       |
|                    |              | 5/16              | 31.800       |
| <b>8 x 6 x</b>     |              | 3/8               | 37.600       |
| 3/16               | 17.000       | 1/2               | 48.800       |
| 1/4                | 22.400       |                   |              |
| 5/16               | 27.500       | <b>10 x 8 x</b>   |              |
| 3/8                | 32.500       | 3/16              | 22.100       |
| 1/2                | 42.000       | 1/4               | 29.200       |
|                    |              | 5/16              | 36.100       |
| <b>9 x 3 x</b>     |              | 3/8               | 42.700       |
| 3/16               | 14.500       | 1/2               | 55.600       |
| 1/4                | 19.000       |                   |              |
| 5/16               | 23.300       | <b>12 x 2 x</b>   |              |
| 3/8                | 27.400       | 3/16              | 17.000       |
|                    |              | 1/4               | 22.400       |
| <b>9 x 5 x</b>     |              | 5/16              | 27.500       |
| 3/16               | 17.000       |                   |              |
| 1/4                | 19.000       | <b>12 x 3 x</b>   |              |
| 5/16               | 23.300       | 3/16              | 18.300       |
| 3/8                | 27.400       | 1/4               | 24.100       |
|                    |              | 5/16              | 29.700       |
| <b>9 x 7 x</b>     |              |                   |              |
| 3/16               | 17.000       | <b>12 x 4 x</b>   |              |
| 1/4                | 22.400       | 3/16              | 19.600       |
| 5/16               | 27.500       | 1/4               | 25.800       |
| 3/8                | 32.500       | 5/16              | 31.800       |
|                    |              | 3/8               | 37.600       |
| <b>10 x 2 x</b>    |              | 1/2               | 48.800       |
| 3/16               | 14.500       |                   |              |
| 1/4                | 19.000       | <b>12 x 6 x</b>   |              |
| 5/16               | 23.300       | 3/16              | 22.100       |
| 3/8                | 27.400       | 1/4               | 29.200       |
|                    |              | 5/16              | 36.100       |
| <b>10 x 3 x</b>    |              | 3/8               | 42.700       |
| 3/16               | 15.800       | 1/2               | 55.600       |
| 1/4                | 20.700       |                   |              |
| 5/16               | 25.400       | <b>12 x 8 x</b>   |              |
|                    |              | 3/16              | 24.700       |
| <b>10 x 4 x</b>    |              | 1/4               | 32.600       |
| 3/16               | 17.000       | 5/16              | 40.300       |
| 1/4                | 22.400       | 3/8               | 47.900       |
| 5/16               | 27.500       | 1/2               | 62.400       |
| 3/8                | 32.500       |                   |              |
| 1/2                | 42.000       | <b>14 x 4 x</b>   |              |
|                    |              | 3/16              | 22.100       |
| <b>10 x 5 x</b>    |              | 1/4               | 29.200       |
| 3/16               | 18.300       | 5/16              | 36.100       |
| 1/4                | 24.100       | 3/8               | 42.700       |

## RECTANGULAR TUBE

| SIZE IN.<br>INCHES | WT.<br>#/FT. | SIZE IN<br>INCHES | WT.<br>#/FT. |
|--------------------|--------------|-------------------|--------------|
| <b>14 x 4 x</b>    |              | <b>16 x 12 x</b>  |              |
| 1/2                | 55.600       | 5/16              | 52.300       |
|                    |              | 3/8               | 68.300       |
| <b>14 x 6 x</b>    |              | 1/2               | 89.600       |
| 1/4                | 32.600       | <b>18 x 6 x</b>   |              |
| 5/16               | 40.300       | 1/4               | 39.400       |
| 3/8                | 47.900       | 5/16              | 48.800       |
| 1/2                | 62.400       | 3/8               | 58.100       |
|                    |              | 1/2               | 76.000       |
| <b>14 x 10 x</b>   |              | <b>20 x 4 x</b>   |              |
| 5/16               | 48.800       | 5/16              | 48.800       |
| 3/8                | 58.100       | 3/8               | 58.100       |
| 1/2                | 76.000       | 1/2               | 76.000       |
| <b>16 x 4 x</b>    |              | <b>20 x 8 x</b>   |              |
| 5/16               | 40.300       | 5/16              | 57.300       |
| 3/8                | 47.900       | 3/8               | 68.300       |
| 1/2                | 62.400       | 1/2               | 89.600       |
| <b>16 x 8 x</b>    |              | <b>20 x 12 x</b>  |              |
| 5/16               | 48.800       | 5/16              | 65.800       |
| 3/8                | 58.100       | 3/8               | 78.500       |
| 1/2                | 76.000       | 1/2               | 103.300      |

## ROUND TUBE

| SIZE IN.<br>INCHES    | WT.<br>#/FT. | SIZE IN<br>INCHES       | WT.<br>#/FT. |
|-----------------------|--------------|-------------------------|--------------|
| <b>3/4" OD x</b>      |              | <b>1 1/2" OD x</b>      |              |
| 16 ga                 | 0.476        | 16 ga                   | 0.996        |
| 14 ga                 | 0.591        | 14 ga                   | 1.256        |
|                       |              | 11 ga                   | 1.769        |
| <b>1" OD x</b>        |              | <b>1.660" OD x</b>      |              |
| 16 ga                 | 0.649        | 14 ga                   | 1.398        |
| 14ga                  | 0.813        | 11 ga                   | 1.974        |
| 11 ga                 | 1.128        |                         |              |
| <b>1.050" OD x</b>    |              | <b>1 1/4" P.S. tube</b> | 2.270        |
| 16 ga                 | 0.684        |                         |              |
| 14 ga                 | 0.857        | <b>1.900" OD x</b>      |              |
| 11 ga                 | 1.192        | 14 ga                   | 1.611        |
| <b>3/4" P.S. tube</b> | 1.130        | 11 ga                   | 2.281        |
|                       |              | <b>1 1/2" P.S. tube</b> | 2.720        |
| <b>1 1/4" OD x</b>    |              | <b>2" OD x</b>          |              |
| 16 ga                 | 0.823        | 14 ga                   | 1.699        |
| 14 ga                 | 1.034        | 11 ga                   | 2.409        |
| 11 ga                 | 1.448        |                         |              |

P.S. indicates schedule 40 pipe  
size tube.

## PIPE

| Nominal<br>Pipe size<br>Inches | Outside<br>Diameter<br>Inches | Inside<br>Diameter<br>Inches | Schedule      | Wall<br>Thickness<br>Inches | Wt.<br>#/Ft. |
|--------------------------------|-------------------------------|------------------------------|---------------|-----------------------------|--------------|
| <b>1/8</b>                     | 0.405                         | 0.269                        | <b>40</b>     | 0.068                       | 0.245        |
|                                |                               | 0.215                        | <b>80</b>     | 0.095                       | 0.315        |
| <b>1/4</b>                     | 0.540                         | 0.364                        | <b>40</b>     | 0.088                       | 0.425        |
|                                |                               | 0.302                        | <b>80</b>     | 0.119                       | 0.535        |
| <b>3/8</b>                     | 0.675                         | 0.493                        | <b>40</b>     | 0.091                       | 0.568        |
|                                |                               | 0.423                        | <b>80</b>     | 0.126                       | 0.739        |
| <b>1/2</b>                     | 0.840                         | 0.622                        | <b>40</b>     | 0.109                       | 0.851        |
|                                |                               | 0.546                        | <b>80</b>     | 0.147                       | 1.088        |
|                                |                               | 0.466                        | <b>160</b>    | 0.187                       | 1.304        |
| <b>3/4</b>                     | 1.050                         | 0.252                        | <b>xx-Hvy</b> | 0.294                       | 1.714        |
|                                |                               | 0.824                        | <b>40</b>     | 0.113                       | 1.131        |
|                                |                               | 0.742                        | <b>80</b>     | 0.154                       | 1.474        |
|                                |                               | 0.614                        | <b>160</b>    | 0.218                       | 1.937        |
| <b>1</b>                       | 1.315                         | 0.434                        | <b>xx-Hvy</b> | 0.308                       | 2.441        |
|                                |                               | 1.049                        | <b>40</b>     | 0.133                       | 1.679        |
|                                |                               | 0.957                        | <b>80</b>     | 0.179                       | 2.172        |
|                                |                               | 0.815                        | <b>160</b>    | 0.250                       | 2.844        |
| <b>1 1/4</b>                   | 1.660                         | 0.599                        | <b>xx-Hvy</b> | 0.358                       | 3.659        |
|                                |                               | 1.380                        | <b>40</b>     | 0.140                       | 2.273        |
|                                |                               | 1.278                        | <b>80</b>     | 0.191                       | 2.997        |
|                                |                               | 1.160                        | <b>160</b>    | 0.250                       | 3.765        |
| <b>1 1/2</b>                   | 1.900                         | 0.896                        | <b>xx-Hvy</b> | 0.382                       | 5.214        |
|                                |                               | 1.610                        | <b>40</b>     | 0.145                       | 2.718        |
|                                |                               | 1.500                        | <b>80</b>     | 0.200                       | 3.631        |
|                                |                               | 1.338                        | <b>160</b>    | 0.281                       | 4.859        |
| <b>2</b>                       | 2.375                         | 1.100                        | <b>xx-Hvy</b> | 0.400                       | 6.408        |
|                                |                               | 2.067                        | <b>40</b>     | 0.154                       | 3.653        |
|                                |                               | 1.939                        | <b>80</b>     | 0.218                       | 5.022        |
|                                |                               | 1.689                        | <b>160</b>    | 0.343                       | 7.444        |
| <b>2 1/2</b>                   | 2.875                         | 1.503                        | <b>xx-Hvy</b> | 0.436                       | 9.029        |
|                                |                               | 2.469                        | <b>40</b>     | 0.203                       | 5.793        |
|                                |                               | 2.323                        | <b>80</b>     | 0.276                       | 7.661        |
|                                |                               | 2.125                        | <b>160</b>    | 0.375                       | 10.010       |
| <b>3</b>                       | 3.500                         | 1.771                        | <b>xx-Hvy</b> | 0.552                       | 13.690       |
|                                |                               | 3.068                        | <b>40</b>     | 0.216                       | 7.580        |
|                                |                               | 2.900                        | <b>80</b>     | 0.300                       | 10.250       |
|                                |                               | 2.624                        | <b>160</b>    | 0.438                       | 14.320       |
| <b>3 1/2</b>                   | 4.000                         | 2.300                        | <b>xx-Hvy</b> | 0.600                       | 18.580       |
|                                |                               | 3.548                        | <b>40</b>     | 0.226                       | 9.110        |
|                                |                               | 3.364                        | <b>80</b>     | 0.318                       | 12.510       |
|                                |                               | 2.728                        | <b>xx-Hvy</b> | 0.636                       | 22.850       |
| <b>4</b>                       | 4.500                         | 4.026                        | <b>40</b>     | 0.237                       | 10.790       |
|                                |                               | 3.826                        | <b>80</b>     | 0.337                       | 14.980       |
|                                |                               | 3.624                        | <b>120</b>    | 0.438                       | 19.000       |
|                                |                               | 3.438                        | <b>160</b>    | 0.531                       | 22.520       |
| <b>5</b>                       | 5.563                         | 3.152                        | <b>xx-Hvy</b> | 0.674                       | 27.540       |
|                                |                               | 5.047                        | <b>40</b>     | 0.258                       | 14.620       |
|                                |                               | 4.813                        | <b>80</b>     | 0.375                       | 20.780       |
|                                |                               | 4.563                        | <b>120</b>    | 0.500                       | 27.040       |
|                                |                               | 4.313                        | <b>160</b>    | 0.625                       | 32.960       |
|                                |                               | 4.063                        | <b>xx-Hvy</b> | 0.750                       | 38.550       |

## PIPE

| Nominal<br>Pipe size<br>Inches | Outside<br>Diameter<br>Inches | Inside<br>Diameter<br>Inches | Schedule | Wall<br>Thickness<br>Inches | Wt.<br>#/Ft. |
|--------------------------------|-------------------------------|------------------------------|----------|-----------------------------|--------------|
| 6                              | 6.625                         | 6.125                        | --       | 0.250                       | 17.020       |
|                                |                               | 6.056                        | 40       | 0.280                       | 18.970       |
|                                |                               | 5.761                        | 80       | 0.432                       | 28.570       |
|                                |                               | 5.501                        | 120      | 0.562                       | 36.390       |
|                                |                               | 5.189                        | 160      | 0.718                       | 45.300       |
|                                |                               | 4.897                        | xx-Hvy.  | 0.864                       | 53.160       |
| 8                              | 8.626                         | 8.250                        | --       | 0.188                       | 16.940       |
|                                |                               | 8.125                        | 20       | 0.250                       | 22.360       |
|                                |                               | 8.071                        | 30       | 0.277                       | 24.700       |
|                                |                               | 7.981                        | 40       | 0.322                       | 28.550       |
|                                |                               | 7.813                        | 60       | 0.406                       | 35.640       |
|                                |                               | 7.625                        | 80       | 0.500                       | 43.390       |
|                                |                               | 7.439                        | 100      | 0.593                       | 50.870       |
|                                |                               | 7.189                        | 120      | 0.718                       | 60.630       |
|                                |                               | 7.001                        | 140      | 0.812                       | 67.760       |
|                                |                               | 6.875                        | xx-Hvy.  | 0.875                       | 72.420       |
|                                |                               | 6.813                        | 160      | 0.906                       | 74.690       |
| 10                             | 10.750                        | 10.375                       | --       | 0.188                       | 21.210       |
|                                |                               | 10.250                       | 20       | 0.250                       | 28.040       |
|                                |                               | 10.136                       | 30       | 0.307                       | 34.240       |
|                                |                               | 10.020                       | 40       | 0.365                       | 40.480       |
| 10                             | 10.750                        | 9.750                        | 60       | 0.500                       | 54.740       |
|                                |                               | 9.564                        | 80       | 0.593                       | 64.330       |
|                                |                               | 9.314                        | 100      | 0.718                       | 76.930       |
|                                |                               | 9.064                        | 120      | 0.843                       | 89.200       |
|                                |                               | 8.750                        | 140      | 1.000                       | 104.100      |
|                                |                               | 8.500                        | 160      | 1.125                       | 115.700      |
| 12                             | 12.750                        | 12.250                       | 20       | 0.250                       | 33.380       |
|                                |                               | 12.090                       | 30       | 0.330                       | 43.770       |
|                                |                               | 12.000                       | std      | 0.375                       | 49.560       |
|                                |                               | 11.940                       | 40       | 0.406                       | 53.530       |
|                                |                               | 11.750                       | x-Hvy    | 0.500                       | 65.420       |
|                                |                               | 11.630                       | 60       | 0.562                       | 73.160       |
|                                |                               | 11.380                       | 80       | 0.687                       | 88.510       |
|                                |                               | 11.060                       | 100      | 0.843                       | 107.200      |
|                                |                               | 10.750                       | 120      | 1.000                       | 125.500      |
|                                |                               | 10.500                       | 140      | 1.125                       | 139.700      |
| 14                             | 14.000                        | 10.130                       | 160      | 1.312                       | 160.300      |
|                                |                               | 13.500                       | 10       | 0.250                       | 36.710       |
|                                |                               | 13.360                       | 20       | 0.312                       | 45.680       |
|                                |                               | 13.250                       | 30       | 0.375                       | 54.570       |
|                                |                               | 13.130                       | 40       | 0.437                       | 63.370       |
|                                |                               | 13.000                       | x-Hvy    | 0.500                       | 72.090       |
|                                |                               | 12.810                       | 60       | 0.593                       | 84.910       |
|                                |                               | 12.500                       | 80       | 0.750                       | 106.100      |
|                                |                               | 12.130                       | 100      | 0.937                       | 130.700      |
|                                |                               | 11.810                       | 120      | 1.093                       | 150.700      |
|                                |                               | 11.500                       | 140      | 1.250                       | 170.200      |
|                                |                               | 11.190                       | 160      | 1.406                       | 189.100      |
| 16                             | 16.000                        | 15.500                       | 10       | 0.250                       | 42.050       |
|                                |                               | 15.380                       | 20       | 0.312                       | 52.360       |
|                                |                               | 15.250                       | 30       | 0.375                       | 62.580       |
|                                |                               | 15.000                       | 40       | 0.500                       | 82.770       |

## PIPE

| Nominal<br>Pipe size<br>Inches | Outside<br>Diameter<br>Inches | Inside<br>Diameter<br>Inches | Schedule | Wall<br>Thickness<br>Inches | Wt.<br>#/Ft. |
|--------------------------------|-------------------------------|------------------------------|----------|-----------------------------|--------------|
| 16                             | 16.000                        | 14.750                       | --       | 0.625                       | 102.600      |
|                                |                               | 14.690                       | 60       | 0.656                       | 107.500      |
|                                |                               | 13.310                       | 80       | 0.843                       | 136.500      |
|                                |                               | 13.940                       | 100      | 1.031                       | 164.800      |
|                                |                               | 13.560                       | 120      | 1.218                       | 192.300      |
|                                |                               | 13.130                       | 140      | 1.437                       | 223.500      |
|                                |                               | 12.810                       | 160      | 1.593                       | 245.100      |
| 18                             | 18.000                        | 17.500                       | 10       | 0.250                       | 47.390       |
|                                |                               | 17.250                       | std.     | 0.375                       | 70.590       |
|                                |                               | 17.120                       | 30       | 0.438                       | 82.150       |
|                                |                               | 17.000                       | x-Hvy    | 0.500                       | 93.450       |
|                                |                               | 16.870                       | 40       | 0.562                       | 104.800      |
|                                |                               | 16.500                       | 60       | 0.750                       | 138.200      |
|                                |                               | 16.130                       | 80       | 0.937                       | 170.800      |
|                                |                               | 15.690                       | 100      | 1.156                       | 208.000      |
|                                |                               | 15.250                       | 120      | 1.375                       | 244.100      |
|                                |                               | 14.880                       | 140      | 1.562                       | 274.200      |
|                                |                               | 14.440                       | 160      | 1.781                       | 308.500      |
| 20                             | 20.000                        | 19.500                       | 10       | 0.250                       | 52.730       |
|                                |                               | 19.250                       | 20       | 0.375                       | 78.600       |
|                                |                               | 19.000                       | 30       | 0.500                       | 104.100      |
|                                |                               | 18.810                       | 40       | 0.583                       | 122.900      |
|                                |                               | 17.940                       | 80       | 1.031                       | 208.900      |
|                                |                               | 17.440                       | 100      | 1.280                       | 256.100      |
|                                |                               | 17.000                       | 120      | 1.500                       | 296.400      |
|                                |                               | 16.500                       | 140      | 1.750                       | 341.100      |
|                                |                               | 16.060                       | 160      | 1.968                       | 379.000      |
| 22                             | 22.000                        | 21.500                       | 10       | 0.250                       | 58.070       |
|                                |                               | 21.250                       | 20       | 0.375                       | 86.610       |
|                                |                               | 21.000                       | 30       | 0.500                       | 114.800      |
|                                |                               | 20.250                       | 60       | 0.875                       | 197.400      |
|                                |                               | 19.750                       | 80       | 1.125                       | 250.800      |
|                                |                               | 19.250                       | 100      | 1.375                       | 302.900      |
|                                |                               | 18.750                       | 120      | 1.625                       | 353.600      |
|                                |                               | 18.250                       | 140      | 1.875                       | 403.300      |
|                                |                               | 17.750                       | 160      | 2.125                       | 451.100      |
| 24                             | 24.000                        | 23.500                       | 10       | 0.250                       | 63.410       |
|                                |                               | 23.250                       | 20       | 0.375                       | 94.620       |
|                                |                               | 23.000                       | x-Hvy    | 0.500                       | 125.500      |
|                                |                               | 22.880                       | 30       | 0.562                       | 140.800      |
|                                |                               | 22.630                       | 40       | 0.687                       | 171.200      |
|                                |                               | 22.060                       | 60       | 0.968                       | 238.100      |
|                                |                               | 21.560                       | 80       | 1.218                       | 296.400      |
|                                |                               | 20.940                       | 100      | 1.531                       | 367.400      |
|                                |                               | 20.380                       | 120      | 1.812                       | 429.400      |
|                                |                               | 19.880                       | 140      | 2.062                       | 483.100      |
|                                |                               | 19.310                       | 160      | 2.343                       | 541.900      |
| 30                             | 30.000                        | 29.500                       |          | 0.250                       | 79.430       |
|                                |                               | 29.250                       | std.     | 0.375                       | 118.600      |
|                                |                               | 29.000                       | 20       | 0.500                       | 157.500      |
|                                |                               | 28.750                       | 30       | 0.625                       | 196.100      |
|                                |                               | 28.500                       |          | 0.750                       | 234.300      |
|                                |                               | 28.250                       |          | 0.875                       | 272.200      |

## PIPE

| Nominal<br>Pipe size<br>Inches | Outside<br>Diameter<br>Inches | Inside<br>Diameter<br>Inches | Schedule | Wall<br>Thickness<br>Inches | Wt.<br>#/Ft. |
|--------------------------------|-------------------------------|------------------------------|----------|-----------------------------|--------------|
| 36                             | 36.000                        | 35.500                       |          | 0.250                       | 95.450       |
|                                |                               | 35.250                       |          | 0.375                       | 142.700      |
|                                |                               | 35.000                       | 20       | 0.500                       | 189.600      |
|                                |                               | 34.750                       | 30       | 0.625                       | 236.100      |
|                                |                               | 34.500                       | 40       | 0.750                       | 282.400      |
|                                |                               | 34.250                       |          | 0.875                       | 328.200      |
| 42                             | 42.000                        | 34.000                       |          | 1.000                       | 373.800      |
|                                |                               | 41.250                       | std      | 0.375                       | 166.700      |
|                                |                               | 41.000                       | 20       | 0.500                       | 221.600      |
|                                |                               | 40.750                       | 30       | 0.625                       | 276.200      |
|                                |                               | 40.500                       | 40       | 0.750                       | 330.400      |
|                                |                               | 40.250                       |          | 0.875                       | 384.300      |
| 48                             | 48.000                        | 40.000                       |          | 1.000                       | 437.900      |
|                                |                               | 47.250                       |          | 0.375                       | 190.700      |
|                                |                               | 47.000                       |          | 0.500                       | 253.600      |
|                                |                               | 46.500                       |          | 0.750                       | 378.500      |
|                                |                               | 46.250                       |          | 0.875                       | 440.400      |
|                                |                               | 46.000                       |          | 1.000                       | 501.900      |

**Sch 40 & Sch 80 is stocked in 21' lengths. Other lengths and sizes are available**



## ROUNDS

| Size in<br>Inches | Wt.<br>#/Ft. | Wt.<br>#/20' | Size in<br>Inches | Wt.<br>#/Ft. | Wt.<br>#/20' |
|-------------------|--------------|--------------|-------------------|--------------|--------------|
| 1/8               | 0.0418       | 0.8353       | 3 1/2             | 32.71        | 654.8        |
| 3/16              | 0.094        | 1.879        | 3 9/16            | 33.92        | 678.4        |
| 1/4               | 0.1671       | 3.341        | 3 5/8             | 35.12        | 702.5        |
| 5/16              | 0.261        | 5.22         | 3 11/16           | 36.35        | 726.9        |
| 3/8               | 0.3759       | 7.517        | 3 3/4             | 37.59        | 751.7        |
| 7/16              | 0.5116       | 10.23        | 3 13/16           | 38.81        | 776.2        |
| 1/2               | 0.6682       | 13.36        | 3 7/8             | 40.14        | 802.7        |
| 9/16              | 0.8457       | 16.91        | 3 15/16           | 41.44        | 828.8        |
| 5/8               | 1.044        | 20.88        | 4                 | 42.77        | 855.3        |
| 11/16             | 1.263        | 25.27        | 4 1/16            | 44.07        | 881.4        |
| 3/4               | 1.504        | 30.07        | 4 1/8             | 45.48        | 909.6        |
| 13/16             | 1.765        | 35.29        | 4 3/16            | 46.87        | 937.4        |
| 7/8               | 2.046        | 40.93        | 4 1/4             | 48.28        | 965.6        |
| 15/16             | 2.349        | 46.98        | 4 5/16            | 49.71        | 994.2        |
| 1                 | 2.673        | 53.46        | 4 3/8             | 51.16        | 1023         |
| 1 1/16            | 3.017        | 60.35        | 4 7/16            | 52.63        | 1053         |
| 1 1/8             | 3.383        | 67.66        | 4 1/2             | 54.13        | 1083         |
| 1 3/16            | 3.769        | 75.38        | 4 9/16            | 55.64        | 1113         |
| 1 1/4             | 4.176        | 83.53        | 4 5/8             | 57.18        | 1143         |
| 1 5/16            | 4.604        | 92.09        | 4 11/16           | 58.73        | 1175         |
| 1 3/8             | 5.053        | 101.1        | 4 3/4             | 60.31        | 1206         |
| 1 7/16            | 5.523        | 110.5        | 4 13/16           | 61.85        | 1237         |
| 1 1/2             | 6.014        | 120.3        | 4 7/8             | 63.52        | 1270         |
| 1 9/16            | 6.526        | 130.5        | 4 15/16           | 65.16        | 1303         |
| 1 5/8             | 7.058        | 141.2        | 5                 | 66.82        | 1336         |
| 1 11/16           | 7.612        | 152.2        | 5 1/8             | 70.21        | 1404         |
| 1 3/4             | 8.186        | 163.7        | 5 1/4             | 73.67        | 1473         |
| 1 13/16           | 8.781        | 175.6        | 5 5/16            | 75.44        | 1509         |
| 1 7/8             | 9.397        | 187.9        | 5 3/8             | 77.22        | 1544         |
| 1 15/16           | 10.03        | 200.7        | 5 7/16            | 79.03        | 1581         |
| 2                 | 10.69        | 213.8        | 5 1/2             | 80.86        | 1617         |
| 2 1/16            | 11.37        | 227.4        | 5 5/8             | 84.57        | 1691         |
| 2 1/8             | 12.07        | 241.4        | 5 3/4             | 88.37        | 1767         |
| 2 3/16            | 12.79        | 255.8        | 5 7/8             | 92.26        | 1845         |
| 2 1/4             | 13.53        | 270.6        | 5 15/16           | 94.23        | 1885         |
| 2 5/16            | 14.29        | 285.9        | 6                 | 96.22        | 1924         |
| 2 3/8             | 15.08        | 301.5        | 6 1/8             | 100.3        | 2005         |
| 2 7/16            | 15.88        | 317.6        | 6 1/4             | 104.4        | 2088         |
| 2 1/2             | 16.71        | 334.1        | 6 3/8             | 108.6        | 2172         |
| 2 9/16            | 17.55        | 351          | 6 1/2             | 112.9        | 2259         |
| 2 5/8             | 18.42        | 368.4        | 7                 | 131          | 2619         |
| 2 11/16           | 19.31        | 386.1        | 7 1/4             | 140.5        | 2810         |
| 2 3/4             | 20.21        | 404.3        | 7 1/2             | 150.4        | 3007         |
| 2 13/16           | 21.14        | 422.9        | 7 3/4             | 160.5        | 3211         |
| 2 7/8             | 22.09        | 441.9        | 8                 | 171.1        | 3421         |
| 2 15/16           | 23.06        | 461.3        | 8 1/2             | 193.1        | 3862         |
| 3                 | 24.06        | 481.1        | 9                 | 216.5        | 4330         |
| 3 1/16            | 25.07        | 501.4        | 9 1/2             | 241.2        | 4824         |
| 3 1/8             | 26.1         | 522          | 10                | 267.3        | 5346         |
| 3 3/16            | 27.16        | 543.1        | 10 1/2            | 294.7        | 5894         |
| 3 1/4             | 28.23        | 564.6        | 11                | 323.4        | 6468         |
| 3 5/16            | 29.33        | 586.6        | 11 1/2            | 353.5        | 7070         |
| 3 3/8             | 30.45        | 608.9        | 12                | 384.9        | 7698         |
| 3 7/16            | 31.58        | 631.7        |                   |              |              |

## SQUARES

| Size in<br>Inches | Wt.<br>#/Ft. | Wt.<br>#/12' | Size in<br>Inches | Wt.<br>#/Ft. | Wt.<br>#/12' |
|-------------------|--------------|--------------|-------------------|--------------|--------------|
| 1/8               | 0.0531       | 0.6381       | 1 1/2             | 7.657        | 91.89        |
| 3/16              | 0.1196       | 1.436        | 1 9/16            | 8.309        | 99.71        |
| 1/4               | 0.2127       | 2.552        | 1 5/8             | 8.987        | 107.8        |
| 5/16              | 0.3323       | 3.988        | 1 3/4             | 10.42        | 125.1        |
| 3/8               | 0.4786       | 5.743        | 1 7/8             | 11.96        | 143.6        |
| 7/16              | 0.6514       | 7.817        | 2                 | 13.61        | 163.4        |
| 1/2               | 0.8508       | 10.21        | 2 1/8             | 15.37        | 184.4        |
| 9/16              | 1.077        | 12.92        | 2 1/4             | 17.23        | 206.7        |
| 5/8               | 1.329        | 15.95        | 2 3/8             | 19.2         | 230.4        |
| 11/16             | 1.609        | 19.30        | 2 1/2             | 21.27        | 255.2        |
| 3/4               | 1.914        | 22.97        | 2 5/8             | 23.45        | 281.4        |
| 13/16             | 2.247        | 26.96        | 2 3/4             | 25.74        | 308.8        |
| 7/8               | 2.606        | 31.27        | 3                 | 30.63        | 367.5        |
| 15/16             | 2.991        | 35.89        | 3 1/4             | 35.95        | 431.4        |
| 1                 | 3.403        | 40.84        | 3 1/2             | 41.69        | 500.3        |
| 1 1/16            | 3.842        | 46.10        | 3 3/4             | 47.86        | 574.3        |
| 1 1/8             | 4.307        | 51.69        | 4                 | 54.45        | 653.4        |
| 1 3/16            | 4.799        | 57.59        | 4 1/2             | 68.91        | 827          |
| 1 1/4             | 5.318        | 63.18        | 5                 | 85.08        | 1021         |
| 1 5/16            | 5.863        | 70.35        | 5 1/2             | 102.9        | 1235         |
| 1 3/8             | 6.434        | 77.21        | 6                 | 122.5        | 1470         |
| 1 7/16            | 7.032        | 84.39        |                   |              |              |

**Call on us for your special grades of round and square bar.**



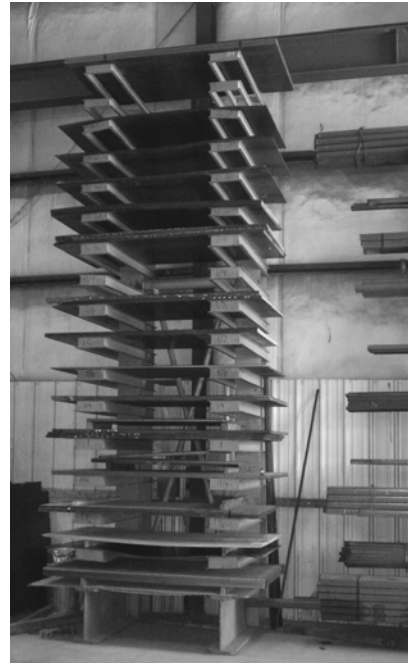
## HOT ROLLED SHEETS

| Width<br>and<br>Length                            | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length                          | Estimated<br>Wt. per<br>sheet |
|---------------------------------------------------|-------------------------------|-------------------------------------------------|-------------------------------|
| <b><u>10 ga. (.1345")</u></b><br>5.625 # / Sq Ft. |                               | <b><u>12 ga (.1046")</u></b><br>4.375 # / Sq Ft |                               |
| 48 x 96                                           | 180                           | 48 x 144                                        | 210                           |
| 48 x 120                                          | 225                           | 48 x 240                                        | 350                           |
| 48 x 144                                          | 270                           |                                                 |                               |
| 48 x 240                                          | 450                           | 60 x 96                                         | 175                           |
|                                                   |                               | 60 x 120                                        | 218.8                         |
| 60 x 96                                           | 225                           | 60 x 144                                        | 262.5                         |
| 60 x 120                                          | 281.3                         | 60 x 240                                        | 437.5                         |
| 60 x 144                                          | 337.5                         |                                                 |                               |
| 60 x 240                                          | 562.5                         | 72 x 96                                         | 210                           |
|                                                   |                               | 72 x 120                                        | 262.5                         |
| 72 x 96                                           | 270                           | 72 x 144                                        | 315                           |
| 72 x 120                                          | 337.5                         | 72 x 240                                        | 525                           |
| 72 x 144                                          | 405                           |                                                 |                               |
| 72 x 240                                          | 675                           | <b><u>14 ga (.0747")</u></b><br>3.125 # / Sq Ft |                               |
| <b><u>11 ga (.1196")</u></b><br>5.0 # / Sq Ft.    |                               | 48 x 96                                         | 100                           |
| 48 x 96                                           | 160                           | 48 x 120                                        | 125                           |
| 48 x 120                                          | 200                           | 48 x 144                                        | 150                           |
| 48 x 144                                          | 240                           |                                                 |                               |
| 48 x 240                                          | 400                           | 60 x 96                                         | 125                           |
|                                                   |                               | 60 x 120                                        | 156.3                         |
| 60 x 96                                           | 200                           | 60 x 144                                        | 187.5                         |
| 60 x 120                                          | 250                           |                                                 |                               |
| 60 x 144                                          | 300                           | 72 x 96                                         | 150                           |
| 60 x 240                                          | 500                           | 72 x 120                                        | 187.5                         |
|                                                   |                               | 72 x 144                                        | 225                           |
| 72 x 96                                           | 240                           | <b><u>16 ga (.0598")</u></b><br>2.5 # / Sq Ft   |                               |
| 72 x 120                                          | 300                           | 48 x 96                                         | 80                            |
| 72 x 144                                          | 360                           | 48 x 120                                        | 100                           |
| 72 x 240                                          | 600                           | 48 x 144                                        | 120                           |
| <b><u>12 ga (.1046")</u></b><br>4.375 # / Sq. Ft. |                               |                                                 |                               |
| 48 x 96                                           | 140                           | 60 x 96                                         | 100                           |
| 48 x 120                                          | 175                           | 60 x 120                                        | 125                           |
|                                                   |                               | 60 x 144                                        | 150                           |

## COLD ROLLED SHEETS

| Width<br>and<br>Length                        | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length                        | Estimated<br>Wt. per<br>sheet |
|-----------------------------------------------|-------------------------------|-----------------------------------------------|-------------------------------|
| <b><u>16 ga (.0598")</u></b><br>2.5 # / Sq Ft |                               | <b><u>18 ga (.0478")</u></b><br>2.0 # / Sq Ft |                               |
| 48 x 96                                       | 80                            | 48 x 96                                       | 64                            |
| 48 x 120                                      | 100                           | 48 x 120                                      | 80                            |
| 48 x 144                                      | 120                           | <b><u>20 ga (.0359")</u></b><br>1.5 # / Sq Ft |                               |
| 60 x 96                                       | 100                           | 48 x 96                                       | 48                            |
| 60 x 120                                      | 125                           | 48 x 120                                      | 60                            |
| 60 x 144                                      | 150                           |                                               |                               |

**Sheets may be leveled or sheared to meet  
your special requirements. Call on us for your  
forming needs.**



## PLATE

| Width<br>and<br>Length | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length | Estimated<br>Wt. per<br>sheet |
|------------------------|-------------------------------|------------------------|-------------------------------|
| <u>3/16</u>            | <u>7.66 # / Sq Ft</u>         | <u>5/16</u>            | <u>12.76 # / Sq Ft</u>        |
| 48 x 96                | 245                           | 60 x 96                | 510                           |
| 48 x 120               | 306                           | 60 x 120               | 638                           |
| 48 x 144               | 368                           | 60 x 144               | 766                           |
| 48 x 240               | 613                           | 60 x 240               | 1276                          |
| 60 x 96                | 306                           | 72 x 96                | 612                           |
| 60 x 120               | 383                           | 72 x 120               | 766                           |
| 60 x 144               | 460                           | 72 x 144               | 919                           |
| 60 x 240               | 766                           | 72 x 240               | 1531                          |
| 72 x 96                | 368                           | 96 x 96                | 817                           |
| 72 x 120               | 460                           | 96 x 120               | 1021                          |
| 72 x 144               | 552                           | 96 x 144               | 1225                          |
| 72 x 240               | 919                           | 96 x 240               | 2042                          |
| 96 x 96                | 490                           | <u>3/8</u>             | <u>15.32 # / Sq Ft</u>        |
| 96 x 120               | 613                           | 48 x 96                | 490                           |
| 96 x 144               | 735                           | 48 x 120               | 613                           |
| 96 x 240               | 1226                          | 48 x 144               | 735                           |
| <u>1/4</u>             | <u>10.21 # / Sq Ft</u>        | 48 x 240               | 1226                          |
| 48 x 96                | 327                           | 60 x 96                | 613                           |
| 48 x 120               | 408                           | 60 x 120               | 766                           |
| 48 x 144               | 490                           | 60 x 144               | 919                           |
| 48 x 240               | 817                           | 60 x 240               | 1532                          |
| 60 x 96                | 408                           | 72 x 96                | 735                           |
| 60 x 120               | 511                           | 72 x 120               | 919                           |
| 60 x 144               | 613                           | 72 x 144               | 1103                          |
| 60 x 240               | 1021                          | 72 x 240               | 1838                          |
| 72 x 96                | 490                           | 96 x 96                | 980                           |
| 72 x 120               | 613                           | 96 x 120               | 1226                          |
| 72 x 144               | 735                           | 96 x 144               | 1471                          |
| 72 x 240               | 1225                          | 96 x 240               | 2451                          |
| 96 x 96                | 653                           | <u>1/2</u>             | <u>20.42 # / Sq Ft</u>        |
| 96 x 120               | 817                           | 48 x 96                | 653                           |
| 96 x 144               | 980                           | 48 x 120               | 817                           |
| 96 x 240               | 1634                          | 48 x 144               | 980                           |
| <u>5/16</u>            | <u>12.76 # / Sq Ft</u>        | 48 x 240               | 1634                          |
| 48 x 96                | 408                           | 60 x 96                | 817                           |
| 48 x 120               | 510                           | 60 x 120               | 1021                          |
| 48 x 144               | 612                           | 60 x 144               | 1225                          |
| 48 x 240               | 1021                          | 60 x 240               | 2042                          |

## PLATE

| Width<br>and<br>Length | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length | Estimated<br>Wt. per<br>sheet |
|------------------------|-------------------------------|------------------------|-------------------------------|
| <u>1/2</u>             | <u>20.42 # / Sq Ft</u>        | <u>3/4</u>             | <u>30.63 # / Sq Ft</u>        |
| 72 x 96                | 980                           | 96 x 96                | 1960                          |
| 72 x 120               | 1225                          | 96 x 120               | 2450                          |
| 72 x 144               | 1470                          | 96 x 144               | 2940                          |
| 72 x 240               | 2450                          | 96 x 240               | 4901                          |
| 96 x 96                | 1307                          | <u>1</u>               | <u>40.84 # / Sq Ft</u>        |
| 96 x 120               | 1634                          | 48 x 96                | 1307                          |
| 96 x 144               | 1960                          | 48 x 120               | 1634                          |
| 96 x 240               | 3267                          | 48 x 144               | 1960                          |
| <u>5/8</u>             | <u>25.53 # / Sq Ft</u>        | 48 x 240               | 3267                          |
| 48 x 96                | 817                           | 60 x 96                | 1634                          |
| 48 x 120               | 1021                          | 60 x 120               | 2042                          |
| 48 x 144               | 1225                          | 60 x 144               | 2450                          |
| 48 x 240               | 2042                          | 60 x 240               | 4084                          |
| 60 x 96                | 1021                          | 72 x 96                | 1960                          |
| 60 x 120               | 1277                          | 72 x 120               | 2450                          |
| 60 x 144               | 1532                          | 72 x 144               | 2940                          |
| 60 x 240               | 2553                          | 72 x 240               | 4901                          |
| 72 x 96                | 1225                          | 96 x 96                | 2614                          |
| 72 x 120               | 1532                          | 96 x 120               | 3267                          |
| 72 x 144               | 1838                          | 96 x 144               | 3921                          |
| 72 x 240               | 3064                          | 96 x 240               | 6534                          |
| 96 x 96                | 1634                          | <u>1 1/4</u>           | <u>51.05 # / Sq Ft</u>        |
| 96 x 120               | 2042                          | 48 x 96                | 1634                          |
| 96 x 144               | 2451                          | 48 x 120               | 2042                          |
| 96 x 240               | 4085                          | 48 x 144               | 2450                          |
| <u>3/4</u>             | <u>30.63 # / Sq Ft</u>        | 48 x 240               | 4084                          |
| 48 x 96                | 980                           | 60 x 96                | 2042                          |
| 48 x 120               | 1225                          | 60 x 120               | 2553                          |
| 48 x 144               | 1470                          | 60 x 144               | 3063                          |
| 48 x 240               | 2450                          | 60 x 240               | 5105                          |
| 60 x 96                | 1225                          | 72 x 96                | 2450                          |
| 60 x 120               | 1532                          | 72 x 120               | 3063                          |
| 60 x 144               | 1838                          | 72 x 144               | 3676                          |
| 60 x 240               | 3063                          | 72 x 240               | 6126                          |
| 72 x 96                | 1470                          | 96 x 96                | 3267                          |
| 72 x 120               | 1838                          | 96 x 120               | 4084                          |
| 72 x 144               | 2205                          | 96 x 144               | 4901                          |
| 72 x 240               | 3676                          | 96 x 240               | 8168                          |

## PLATE

| Width<br>and<br>Length | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length | Estimated<br>Wt. per<br>sheet |
|------------------------|-------------------------------|------------------------|-------------------------------|
| <u>1 1/2</u>           | <u>61.26 # / Sq Ft</u>        | <u>2</u>               | <u>81.68 # / SqFt</u>         |
| 48 x 96                | 1960                          | 60 x 96                | 3267                          |
| 48 x 120               | 2450                          | 60 x 120               | 4084                          |
| 48 x 144               | 2940                          | 60 x 144               | 4901                          |
| 48 x 240               | 4901                          | 60 x 240               | 8168                          |
| 60 x 96                | 2450                          | 72 x 96                | 3921                          |
| 60 x 120               | 3063                          | 72 x 120               | 4901                          |
| 60 x 144               | 3676                          | 72 x 144               | 5881                          |
| 60 x 240               | 6126                          | 72 x 240               | 9802                          |
| 72 x 96                | 2940                          | 96 x 96                | 5228                          |
| 72 x 120               | 3676                          | 96 x 120               | 6534                          |
| 72 x 144               | 4411                          | 96 x 144               | 7841                          |
| 72 x 240               | 7351                          | 96 x 240               | 13069                         |
| 96 x 96                | 3921                          | <u>2 1/4</u>           | <u>91.90 # / Sq Ft</u>        |
| 96 x 120               | 4901                          | 48 x 96                | 2941                          |
| 96 x 144               | 5881                          | 48 x 120               | 3676                          |
| 96 x 240               | 9802                          | 48 x 144               | 4411                          |
| <u>1 3/4</u>           | <u>71.47 #/ Sq Ft</u>         | 48 x 240               | 7352                          |
| 48 x 96                | 2287                          | 60 x 96                | 3676                          |
| 48 x 120               | 2859                          | 60 x 120               | 4595                          |
| 48 x 144               | 3431                          | 60 x 144               | 5514                          |
| 48 x 240               | 5718                          | 60 x 240               | 9191                          |
| 60 x 96                | 2859                          | 72 x 96                | 4411                          |
| 60 x 120               | 3574                          | 72 x 120               | 5514                          |
| 60 x 144               | 4288                          | 72 x 144               | 6617                          |
| 60 x 240               | 7147                          | 72 x 240               | 11028                         |
| 72 x 96                | 3431                          | 96 x 96                | 5882                          |
| 72 x 120               | 4288                          | 96 x 120               | 7352                          |
| 72 x 144               | 5146                          | 96 x 144               | 8822                          |
| 72 x 240               | 8576                          | 96 x 240               | 14704                         |
| 96 x 96                | 4574                          | <u>2 1/2</u>           | <u>102.10 #/ Sq Ft</u>        |
| 96 x 120               | 5718                          | 48 x 96                | 3267                          |
| 96 x 144               | 6861                          | 48 x 120               | 4884                          |
| 96 x 240               | 11435                         | 48 x 144               | 4901                          |
| <u>2</u>               | <u>81.68 # / Sq Ft</u>        | 48 x 240               | 8168                          |
| 48 x 96                | 2614                          | 60 x 96                | 4084                          |
| 48 x 120               | 3267                          | 60 x 120               | 5105                          |
| 48 x 144               | 3921                          | 60 x 144               | 6126                          |
| 48 x 240               | 6534                          | 60 x 240               | 10210                         |

## PLATE

| Width<br>and<br>Length | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length | Estimated<br>Wt. per<br>sheet |
|------------------------|-------------------------------|------------------------|-------------------------------|
| <u>2 1/2</u>           | <u>102.10 # / Sq Ft</u>       | <u>3</u>               | <u>122.52 # / Sq Ft</u>       |
| 72 x 96                | 4901                          | 96 x 240               | 19600                         |
| 72 x 120               | 6126                          |                        |                               |
| 72 x 144               | 7351                          | 3 1/2"                 | 142.94 # / Sq Ft              |
| 72 x 240               | 12252                         | 4"                     | 163.36 # / Sq Ft              |
|                        |                               | 4 1/2"                 | 183.78 # / Sq Ft              |
| 96 x 96                | 6534                          | 5"                     | 204.20 # / Sq Ft              |
| 96 x 120               | 8168                          | 5 1/2"                 | 224.62 # / Sq Ft              |
| 96 x 144               | 9802                          | 6"                     | 245.04 # / Sq Ft              |
| 96 x 240               | 16336                         | 6 1/2"                 | 265.46 # / Sq Ft              |
|                        |                               | 7"                     | 285.88 # / Sq Ft              |
| <u>3</u>               | <u>122.52 # / Sq Ft</u>       | 7 1/2"                 | 306.30 # / Sq Ft              |
| 48 x 96                | 3920                          | 8"                     | 326.72 # / Sq Ft              |
| 48 x 120               | 4900                          | 8 1/2"                 | 347.14 # / Sq Ft              |
| 48 x 144               | 5880                          | 9"                     | 367.56 # / Sq Ft              |
| 48 x 240               | 9800                          | 9 1/2"                 | 387.98 # / Sq Ft              |
|                        |                               | 10"                    | 408.40 # / Sq Ft              |
| 60 x 96                | 4900                          |                        |                               |
| 60 x 120               | 6125                          |                        |                               |
| 60 x 144               | 7350                          |                        |                               |
| 60 x 240               | 12250                         |                        |                               |
| 72 x 96                | 5880                          |                        |                               |
| 72 x 120               | 7350                          |                        |                               |
| 72 x 144               | 8820                          |                        |                               |
| 72 x 240               | 14700                         |                        |                               |
| 96 x 96                | 7840                          |                        |                               |
| 96 x 120               | 9800                          |                        |                               |

**Inquire on special grades, applications, and your fabricating and burning needs. GSC is a major distribuor of AR400, AR 500, and A514**



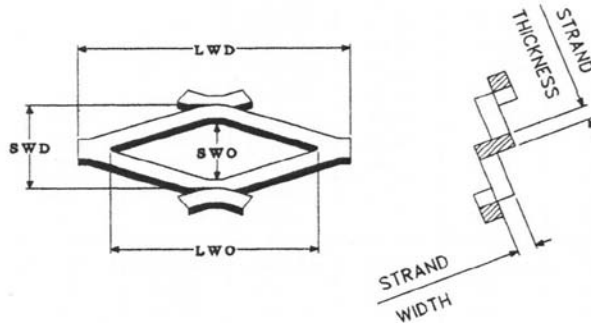
## DECK PLATES

| Width<br>and<br>Length | Estimated<br>Wt. per<br>Sheet | Width<br>and<br>Length | Estimated<br>Wt. per<br>sheet |
|------------------------|-------------------------------|------------------------|-------------------------------|
| <u>16 ga</u>           | 3.0 # / Sq Ft                 | <u>3/16</u>            | 8.71 # / Sq Ft                |
| 48 x 96                | 96                            | 60 x 120               | 436                           |
| 48 x 120               | 120                           | 60 x 144               | 523                           |
|                        |                               | 60 x 240               | 871                           |
| <u>14 ga</u>           | 3.75 # / Sq Ft                | 72 x 96                | 418                           |
| 48 x 96                | 120                           | 72 x 120               | 523                           |
| 48 x 120               | 150                           | 72 x 144               | 627                           |
| <u>12 ga</u>           | 5.25 # / Sq Ft                | 96 x 240               | 1394                          |
| 48 x 96                | 168                           | <u>1/4</u>             | 11.26 # / Sq Ft               |
| 48 x 120               | 210                           | 48 x 96                | 360                           |
| 48 x 144               | 252                           | 48 x 120               | 450                           |
| 60 x 96                | 210                           | 48 x 144               | 541                           |
| 60 x 120               | 263                           | 48 x 240               | 901                           |
| 60 x 144               | 315                           | 60 x 96                | 450                           |
| <u>1/8</u>             | 6.16 # / Sq Ft                | 60 x 120               | 563                           |
| 48 x 96                | 197                           | 60 x 144               | 676                           |
| 48 x 120               | 246                           | 60 x 240               | 1126                          |
| 48 x 144               | 296                           | 72 x 120               | 676                           |
| 48 x 240               | 493                           | 72 x 144               | 811                           |
| 60 x 96                | 246                           | 72 x 240               | 1351                          |
| 60 x 96                | 308                           | 96 x 240               | 1802                          |
| 60 x 144               | 370                           | <u>3/8</u>             | 16.37 # / Sq Ft               |
| 60 x 240               | 616                           | 48 x 96                | 524                           |
| 72 x 96                | 296                           | 48 x 120               | 655                           |
| 72 x 120               | 370                           | 48 x 144               | 786                           |
| 72 x 144               | 443                           | 60 x 120               | 819                           |
| 72 x 240               | 739                           | 60 x 144               | 982                           |
| <u>3/16</u>            | 8.71 # / Sq Ft                | <u>1/2</u>             | 21.47 # / Sq Ft               |
| 48 x 96                | 279                           | 48 x 96                | 687                           |
| 48 x 120               | 348                           | 48 x 120               | 859                           |
| 48 x 144               | 418                           | 48 x 144               | 1031                          |
| 48 x 240               | 697                           |                        |                               |
| 60 x 96                | 348                           |                        |                               |

## EXPANDED METAL

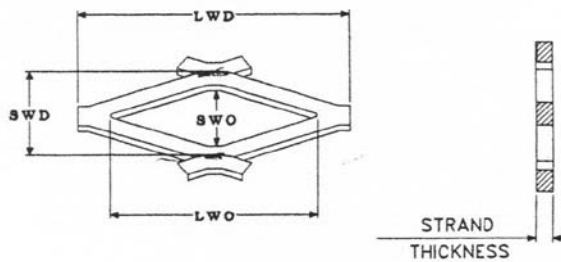
### STANDARD EXPANDED METAL -

Standard Expanded Metal is a finished product as it comes from the press after having been die cut and expanded. Illustration shows that the strands and bonds form a sharp angle to the original plane of the solid sheet.



### FLATTENED EXPANDED METAL -

Flattened Expanded Metal is standard expanded metal which has been cold rolled leaving a flat, smooth surface.



|     |       |                                                         |
|-----|-------|---------------------------------------------------------|
| SWD | ----- | Short way of diamond, measured center to center of bond |
| SWO | ----- | Short way of opening                                    |
| LWD | ----- | Long way of diamond, measured center to center of bond  |
| LWO | ----- | Long way of opening                                     |

### STANDARD (RAISED) EXPANDED METAL

| Style      | Wt.<br>Per<br>Sq.<br>Ft. | SWO  | LWO  | SWD   | LWD   | size of<br>strands<br>in inches |           |
|------------|--------------------------|------|------|-------|-------|---------------------------------|-----------|
|            |                          |      |      |       |       | width                           | thickness |
| 1/4 - 20   | 0.86                     | 0.17 | 0.72 | 0.250 | 1.000 | .073                            | .036      |
| 1/4 - 18   | 1.14                     | 0.17 | 0.72 | 0.250 | 1.000 | .073                            | .048      |
| 1/2 - 20   | 0.43                     | 0.44 | 0.94 | 0.500 | 1.200 | .072                            | .036      |
| 1/2 - 18   | 0.70                     | 0.44 | 0.94 | 0.500 | 1.200 | .088                            | .048      |
| 1/2 - 16   | 0.86                     | 0.38 | 0.94 | 0.500 | 1.200 | .806                            | .060      |
| 1/2 - 13   | 1.47                     | 0.31 | 0.94 | 0.500 | 1.200 | .096                            | .092      |
| 3/4 - 16   | 0.54                     | 0.81 | 1.75 | 0.920 | 2.000 | .099                            | .060      |
| 3/4 - 13   | 0.80                     | 0.75 | 1.69 | 0.920 | 2.000 | .096                            | .092      |
| 3/4 - 10   | 1.20                     | 0.75 | 1.63 | 0.920 | 2.000 | .144                            | .092      |
| 3/4 - 9    | 1.80                     | 0.69 | 1.56 | 0.920 | 2.000 | .148                            | .134      |
| 1 - 16     | 0.44                     | 1.00 | 2.06 | 1.090 | 2.400 | .096                            | .060      |
| 1 1/2 - 18 | 0.20                     | 1.31 | 2.63 | 1.330 | 3.000 | .067                            | .048      |
| 1 1/2 - 16 | 0.40                     | 1.25 | 2.63 | 1.330 | 3.000 | .107                            | .060      |
| 1 1/2 - 13 | 0.60                     | 1.19 | 2.50 | 1.330 | 3.000 | .104                            | .092      |
| 1 1/2 - 10 | 0.79                     | 1.19 | 2.50 | 1.330 | 3.000 | .137                            | .092      |
| 1 1/2 - 9  | 1.20                     | 1.13 | 2.38 | 1.330 | 3.000 | .142                            | .134      |
| 1 1/2 - 6  | 2.50                     | 1.00 | 2.31 | 1.330 | 3.000 | .201                            | .198      |
| 2 - 10     | 0.68                     | 1.63 | 3.44 | 1.850 | 4.000 | .164                            | .092      |
| 2 - 9      | 0.90                     | 1.56 | 3.38 | 1.850 | 4.000 | .149                            | .134      |

### FLATTENED EXPANDED METAL

| Style      | Wt.<br>Per<br>Sq.<br>Ft. | SWO  | LWO  | SWD   | LWD   | size of<br>strands<br>in inches |           |
|------------|--------------------------|------|------|-------|-------|---------------------------------|-----------|
|            |                          |      |      |       |       | width                           | thickness |
| 1/4 - 20   | 0.83                     | 0.09 | 0.69 | 0.260 | 1.030 | 0.086                           | 0.030     |
| 1/4 - 18   | 1.11                     | 0.09 | 0.69 | 0.260 | 1.030 | 0.086                           | 0.040     |
| 1/2 - 20   | 0.40                     | 0.38 | 1.00 | 0.500 | 1.260 | 0.07                            | 0.029     |
| 1/2 - 18   | 0.66                     | 0.28 | 1.00 | 0.500 | 1.260 | 0.109                           | 0.039     |
| 1/2 - 16   | 0.82                     | 0.25 | 1.00 | 0.500 | 1.260 | 0.103                           | 0.500     |
| 1/2 - 13   | 1.40                     | 0.25 | 1.00 | 0.500 | 1.260 | 0.122                           | 0.070     |
| 3/4 - 16   | 0.51                     | 0.75 | 1.75 | 0.920 | 2.100 | 0.115                           | 0.048     |
| 3/4 - 14   | 0.63                     | 0.69 | 1.81 | 0.920 | 2.120 | 0.119                           | 0.061     |
| 3/4 - 13   | 0.75                     | 0.69 | 1.78 | 0.920 | 2.100 | 0.119                           | 0.070     |
| 3/4 - 9    | 1.71                     | 0.56 | 1.69 | 0.920 | 2.120 | 0.164                           | 0.120     |
| 1 - 16     | 0.41                     | 0.88 | 2.25 | 1.090 | 2.560 | 0.115                           | 0.048     |
| 1 1/2 - 16 | 0.38                     | 1.06 | 2.75 | 1.330 | 3.200 | 0.123                           | 0.048     |
| 1 1/2 - 14 | 0.46                     | 1.06 | 2.75 | 1.330 | 3.200 | 0.138                           | 0.060     |
| 1 1/2 - 13 | 0.57                     | 1.06 | 2.75 | 1.330 | 3.200 | 0.138                           | 0.070     |
| 1 1/2 - 9  | 1.14                     | 1.00 | 2.56 | 1.330 | 3.200 | 0.175                           | 0.110     |

## EXPANDED METAL GRATING

| Style<br>and lbs.<br>/ Sq ft. | SWO   | LWO  | SWD   | LWD   | size of<br>strands<br>in inches |           |
|-------------------------------|-------|------|-------|-------|---------------------------------|-----------|
|                               |       |      |       |       | width                           | thickness |
| 2 lb.                         | 1.000 | 3.60 | 1.330 | 5.330 | .235                            | .135      |
| 3 lb.                         | 0.938 | 3.44 | 1.333 | 5.330 | .026                            | .183      |
| 3.14 lb.                      | 1.625 | 4.88 | 2.000 | 6.000 | .308                            | .250      |
| 4 lb.                         | 0.938 | 3.44 | 1.333 | 5.330 | .297                            | .215      |
| 4.27 lb.                      | 1.000 | 2.88 | 1.412 | 4.000 | .297                            | .250      |
| 5 lb.                         | 0.813 | 3.38 | 1.333 | 5.330 | .327                            | .250      |
| 6.25 lb.                      | 0.813 | 3.38 | 1.412 | 5.330 | .347                            | .312      |
| 7 lb.                         | 0.813 | 3.38 | 1.412 | 5.330 | .338                            | .312      |

**Inquire on perforated metal, walkways, and ladder rungs. Call us for your special grating needs.**



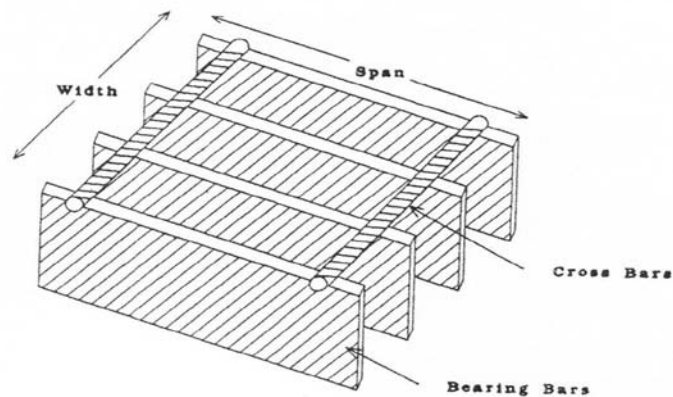
## REBAR

| Size  | Bar # | Wt. / Ft. | Wt. 20' |
|-------|-------|-----------|---------|
| 3/8   | 3     | 0.376     | 7.52    |
| 1/2   | 4     | 0.688     | 13.36   |
| 5/8   | 5     | 1.043     | 20.86   |
| 3/4   | 6     | 1.502     | 30.04   |
| 7/8   | 7     | 2.044     | 40.88   |
| 1     | 8     | 2.670     | 53.4    |
| 1 1/8 | 9     | 3.400     | 68      |
| 1 1/4 | 10    | 4.303     | 86.06   |
| 1 3/8 | 11    | 5.313     | 106.26  |

## BAR GRATE

| Bearing bars           | Type<br>19 W 4 | Type<br>19 W 2 | Type<br>15 W 4 | Type<br>15 W 2 |
|------------------------|----------------|----------------|----------------|----------------|
| Weight Per Square Foot |                |                |                |                |
| 3/4 x 1/8              | 4.00           | 4.60           | 4.80           | 5.50           |
| 3/4 x 3/16             | 5.60           | 6.30           | 6.90           | 7.50           |
| 1 x 1/8                | 5.10           | 5.70           | 6.20           | 6.90           |
| 1 x 3/16               | 7.30           | 8.00           | 9.00           | 9.60           |
| 1 1/4 x 1/8            | 6.10           | 6.80           | 7.50           | 8.20           |
| 1 1/4 x 3/16           | 8.90           | 9.60           | 11.10          | 11.70          |
| 1 1/2 x 1/8            | 7.30           | 7.90           | 9.00           | 9.60           |
| 1 1/2 x 3/16           | 10.60          | 11.20          | 13.10          | 13.80          |
| 1 3/4 x 3/16           | 12.20          | 12.90          | 15.20          | 15.80          |
| 2 1/4 x 3/16           | 15.40          | 16.10          | 19.20          | 19.90          |
| 2 1/2 x 3/16           | 17.10          | 17.70          | 21.30          | 22.00          |

Specify painted black, galvanized or mill finish, serrated or non serrated.



## ROUND MECHANICAL TUBE

| Seamless        |              |      |               | Dom         |              |      |                |
|-----------------|--------------|------|---------------|-------------|--------------|------|----------------|
| Electric Welded |              |      |               | C.D. Welded |              |      |                |
| O.D.            | Wall<br>Dec. | I.D. | Wt.<br># / Ft | O.D.        | Wall<br>Dec. | I.D. | Wt.<br># / Ft. |
| 1/8 x           | .0220        | .081 | .0242         | 3/8 x       | .049         | .277 | .1706          |
|                 | .0280        | .069 | .0290         |             | .058         | .259 | .1964          |
|                 | .0350        | .055 | .0336         |             | .065         | .245 | .2152          |
|                 | .0490        | .027 | .0398         |             | .072         | .231 | .2330          |
| 5/32 x          | .0280        | .100 | .0383         | 13/32 x     | .083         | .209 | .2588          |
|                 | .0320        | .092 | .0424         |             | .095         | .185 | .2841          |
| 3/16 x          | .0220        | .144 | .0390         |             | .109         | .157 | .3097          |
|                 | .0280        | .132 | .0478         |             | .125         | .125 | .3338          |
|                 | .0320        | .124 | .0533         |             | .134         | .107 | .3449          |
|                 | .0350        | .118 | .0572         | 7/16 x      | .065         | .276 | .2367          |
| 7/32 x          | .0420        | .104 | .0655         |             | .083         | .240 | .2863          |
|                 | .0490        | .090 | .0727         |             | .095         | .216 | .3155          |
|                 | .0580        | .072 | .0805         |             | .022         | .394 | .0977          |
|                 | .0650        | .058 | .0854         |             | .025         | .388 | .1103          |
| 1/4 x           | .0220        | .175 | .0463         | 1/2 x       | .028         | .382 | .1226          |
|                 | .0280        | .163 | .0571         |             | .032         | .374 | .1388          |
|                 | .0350        | .149 | .0688         |             | .035         | .368 | .1506          |
|                 | .0490        | .121 | .0890         |             | .049         | .340 | .2036          |
| 9/32 x          | .0650        | .089 | .1069         | 17/32 x     | .058         | .322 | .2354          |
|                 | .0220        | .206 | .0536         |             | .065         | .308 | .2589          |
|                 | .0250        | .200 | .0601         |             | .083         | .272 | .3147          |
|                 | .0280        | .194 | .0664         |             | .095         | .248 | .3480          |
| 5/16 x          | .0320        | .186 | .0745         | 9/16 x      | .109         | .220 | .3830          |
|                 | .0350        | .180 | .0804         |             | .125         | .188 | .4179          |
|                 | .0420        | .166 | .0933         |             | .134         | .170 | .4351          |
|                 | .0490        | .152 | .1052         |             | .022         | .456 | .1123          |
| 3/8 x           | .0580        | .134 | .1189         | 17/32 x     | .028         | .444 | .1411          |
|                 | .0650        | .120 | .1284         |             | .032         | .436 | .1599          |
|                 | .0830        | .084 | .1480         |             | .035         | .430 | .1738          |
|                 | .0950        | .060 | .1573         |             | .042         | .416 | .2054          |
| 11/32 x         | .0490        | .183 | .1214         | 9/16 x      | .049         | .402 | .2360          |
|                 | .0220        | .269 | .0684         |             | .058         | .384 | .2738          |
|                 | .0250        | .263 | .0769         |             | .065         | .370 | .3020          |
|                 | .0280        | .257 | .0852         |             | .072         | .356 | .3291          |
| 3/4 x           | .0320        | .249 | .0960         | 1 1/8 x     | .083         | .334 | .3696          |
|                 | .0350        | .243 | .1039         |             | .095         | .310 | .4109          |
|                 | .0420        | .229 | .1216         |             | .109         | .282 | .4552          |
|                 | .0490        | .215 | .1382         |             | .120         | .260 | .4870          |
| 7/8 x           | .0580        | .197 | .1580         | 1 1/2 x     | .125         | .250 | .5006          |
|                 | .0650        | .183 | .1722         |             | .134         | .232 | .5238          |
|                 | .0830        | .147 | .2039         |             | .156         | .188 | .5731          |
|                 | .0950        | .123 | .2212         |             | .188         | .124 | .6264          |
| 1 1/8 x         | .1090        | .095 | .2375         | 1 3/4 x     | .065         | .401 | .3235          |
|                 | .1200        | .073 | .2473         |             | .083         | .365 | .3971          |
|                 | .1250        | .063 | .2510         |             | .125         | .281 | .5420          |
|                 | .0320        | .280 | .1066         |             | .022         | .519 | .1270          |
| 1 1/2 x         | .0220        | .331 | .0829         | 2 x         | .025         | .513 | .1436          |
|                 | .0280        | .319 | .1038         |             | .028         | .507 | .1600          |
|                 | .0320        | .311 | .1172         |             | .032         | .499 | .1815          |
|                 | .0350        | .305 | .1271         |             | .035         | .493 | .1974          |
| 1 3/4 x         | .0420        | .291 | .1494         |             | .049         | .465 | .2690          |
|                 |              |      |               |             |              |      |                |

## ROUND MECHANICAL TUBE

| Seamless        |              |      |                | Dom         |              |      |                |
|-----------------|--------------|------|----------------|-------------|--------------|------|----------------|
| Electric Welded |              |      |                | C.D. Welded |              |      |                |
| O.D.            | Wall<br>Dec. | I.D. | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D. | Wt.<br># / Ft. |
| 9/16 x          | .065         | .433 | .3457          | 3/4 x       | .083         | .584 | .5913          |
|                 | .083         | .397 | .4255          |             | .095         | .560 | .6646          |
|                 | .095         | .373 | .4748          |             | .109         | .532 | .7462          |
|                 | .109         | .345 | .5285          |             | .120         | .510 | .8074          |
|                 | .120         | .323 | .5677          |             | .125         | .500 | .8344          |
|                 | .125         | .313 | .5847          |             | .134         | .482 | .8816          |
|                 | .134         | .295 | .6140          |             | .156         | .438 | .9897          |
|                 | .156         | .251 | .6781          |             | .172         | .406 | 1.0620         |
| 5/8 x           | .188         | .187 | .7529          | 13/16 x     | .188         | .374 | 1.1280         |
|                 | .022         | .581 | .1417          |             | .219         | .312 | 1.2420         |
|                 | .025         | .575 | .1602          |             | .250         | .250 | 1.3350         |
|                 | .028         | .569 | .1785          |             | .028         | .757 | .2347          |
|                 | .032         | .561 | .2027          |             | .035         | .743 | .2908          |
|                 | .035         | .555 | .2205          |             | .049         | .715 | .3998          |
|                 | .049         | .527 | .3014          |             | .058         | .697 | .4677          |
|                 | .058         | .509 | .3512          |             | .065         | .683 | .5193          |
|                 | .065         | .495 | .3888          |             | .083         | .647 | .6471          |
|                 | .072         | .481 | .4252          |             | .095         | .623 | .7285          |
|                 | .083         | .459 | .4805          |             | .109         | .595 | .8195          |
|                 | .095         | .435 | .5377          |             | .120         | .573 | .8881          |
|                 | .109         | .407 | .6007          |             | .125         | .563 | .9185          |
|                 | .120         | .385 | .6472          |             | .134         | .545 | .9717          |
|                 | .125         | .375 | .6675          |             | .156         | .501 | 1.0950         |
|                 | .134         | .357 | .7027          |             | .188         | .437 | 1.2550         |
|                 | .156         | .313 | .7814          | 27/32 x     | .219         | .375 | 1.3890         |
|                 | .188         | .249 | .8774          |             | .250         | .313 | 1.5030         |
|                 | .219         | .187 | .9496          |             | .109         | .626 | .8556          |
|                 | .250         | .125 | 1.0010         |             | .156         | .532 | 1.1460         |
|                 | .095         | .466 | .5692          | 7/8 x       | .022         | .831 | .2004          |
|                 | .025         | .638 | .1770          |             | .028         | .819 | .2533          |
|                 | .028         | .632 | .1974          |             | .032         | .811 | .2881          |
|                 | .032         | .624 | .2242          |             | .035         | .805 | .3140          |
|                 | .049         | .590 | .3344          |             | .049         | .777 | .4323          |
|                 | .058         | .572 | .3902          |             | .058         | .759 | .5061          |
|                 | .065         | .558 | .4325          |             | .065         | .745 | .5623          |
|                 | .083         | .522 | .5363          |             | .072         | .731 | .6175          |
|                 | .095         | .498 | .6017          |             | .083         | .709 | .7021          |
|                 | .109         | .470 | .6740          |             | .095         | .685 | .7914          |
|                 | .120         | .448 | .7279          |             | .109         | .657 | .8917          |
|                 | .125         | .438 | .7516          |             | .120         | .635 | .9676          |
|                 | .134         | .420 | .7928          |             | .125         | .625 | 1.0010         |
|                 | .156         | .376 | .8864          |             | .134         | .607 | 1.0610         |
|                 | .188         | .312 | 1.0040         |             | .156         | .563 | 1.1980         |
|                 | .219         | .250 | 1.0970         |             | .188         | .499 | 1.3790         |
| 3/4 x           | .022         | .706 | .1711          |             | .219         | .437 | 1.5340         |
|                 | .028         | .694 | .2159          |             | .250         | .375 | 1.6690         |
|                 | .035         | .680 | .2673          |             | .281         | .313 | 1.7830         |
|                 | .049         | .652 | .3668          |             | .313         | .249 | 1.8790         |
|                 | .058         | .634 | .4287          |             |              |      |                |
|                 | .065         | .620 | .4755          |             |              |      |                |
|                 | .072         | .606 | .5214          |             |              |      |                |
|                 |              |      |                |             |              |      |                |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |               | Dom         |              |       |                |
|-----------------|--------------|-------|---------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |               | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 15/16 x         | .035         | .868  | .3375         | 1 1/8 x     | .022         | 1.080 | .2592          |
|                 | .049         | .840  | .4652         |             | .028         | 1.070 | .3280          |
|                 | .065         | .808  | .6060         |             | .035         | 1.060 | .4074          |
|                 | .083         | .772  | .7579         |             | .049         | 1.030 | .5631          |
|                 | .095         | .748  | .8553         |             | .058         | 1.010 | .6609          |
|                 | .109         | .720  | .9651         |             | .065         | .995  | .7359          |
|                 | .120         | .698  | 1.0480        |             | .083         | .959  | .9237          |
|                 | .125         | .688  | 1.0850        |             | .095         | .935  | 1.0450         |
|                 | .134         | .670  | 1.1510        |             | .109         | .907  | 1.1830         |
|                 | .156         | .626  | 1.3030        |             | .120         | .885  | 1.2880         |
|                 | .188         | .562  | 1.5060        |             | .125         | .875  | 1.3350         |
|                 | .219         | .500  | 1.6820        |             | .134         | .857  | 1.4180         |
|                 | .250         | .438  | 1.8370        |             | .156         | .813  | 1.6140         |
|                 |              |       |               |             | .172         | .781  | 1.7510         |
| 1 x             | .028         | .944  | .2907         | 1 3/16 x    | .188         | .749  | 1.8810         |
|                 | .032         | .936  | .3308         |             | .219         | .687  | 2.1190         |
|                 | .035         | .930  | .3607         |             | .250         | .625  | 2.3360         |
|                 | .049         | .902  | .4977         |             | .281         | .563  | 2.5330         |
|                 | .058         | .884  | .5835         |             | .313         | .499  | 2.7140         |
|                 | .065         | .870  | .6491         |             | .375         | .375  | 3.0040         |
|                 | .072         | .856  | .7136         | 1 1/4 x     | .028         | 1.130 | .3469          |
|                 | .083         | .834  | .8129         |             | .032         | 1.120 | .3951          |
|                 | .095         | .810  | .9182         |             | .035         | 1.120 | .4310          |
|                 | .109         | .782  | 1.0370        |             | .049         | 1.090 | .5961          |
|                 | .120         | .760  | 1.1280        |             | .065         | 1.060 | .7796          |
|                 | .125         | .750  | 1.1680        |             | .083         | 1.020 | .9795          |
|                 | .134         | .732  | 1.2390        |             | .095         | .998  | 1.1090         |
|                 | .156         | .688  | 1.4060        |             | .125         | .938  | 1.4190         |
|                 | .172         | .656  | 1.5210        |             | .156         | .876  | 1.7190         |
|                 | .180         | .640  | 1.5760        |             | .188         | .812  | 2.0080         |
|                 | .188         | .624  | 1.6300        |             | .219         | .750  | 2.2660         |
|                 | .219         | .562  | 1.8270        |             | .250         | .688  | 2.5050         |
|                 | .250         | .500  | 2.0030        |             | .313         | .562  | 2.9250         |
|                 | .281         | .438  | 2.1580        | 1 1/16 x    | .028         | 1.190 | .3654          |
|                 | .313         | .374  | 2.2970        |             | .035         | 1.180 | .4542          |
|                 | .344         | .312  | 2.4100        |             | .049         | 1.150 | .6285          |
|                 | .375         | .250  | 2.5030        |             | .058         | 1.130 | .7384          |
| 1 1/16 x        | .028         | 1.010 | .3095         |             | .065         | 1.120 | .8226          |
|                 | .035         | .993  | .3843         |             | .083         | 1.080 | 1.0350         |
|                 | .049         | .965  | .5306         |             | .095         | 1.060 | 1.1720         |
|                 | .065         | .933  | .6928         |             | .109         | 1.030 | 1.3280         |
|                 | .083         | .897  | .8687         |             | .120         | 1.010 | 1.4480         |
|                 | .095         | .873  | .9821         |             | .125         | 1.000 | 1.5020         |
|                 | .109         | .845  | 1.1110        |             | .134         | .982  | 1.5970         |
|                 | .120         | .823  | 1.2090        |             | .156         | .938  | 1.8230         |
|                 | .125         | .813  | 1.2520        |             | .188         | .874  | 2.1320         |
|                 | .134         | .795  | 1.3300        |             | .219         | .812  | 2.4110         |
|                 | .156         | .751  | 1.5110        |             | .250         | .750  | 2.6700         |
|                 | .188         | .687  | 1.7570        |             | .281         | .688  | 2.9080         |
|                 | .219         | .625  | 1.9740        |             | .313         | .624  | 3.1320         |
|                 | .250         | .563  | 2.1710        |             | .344         | .562  | 3.3290         |
|                 | .313         | .437  | 2.5070        |             | .375         | .500  | 3.5040         |
|                 | .375         | .313  | 2.7550        |             | .438         | .374  | 3.7980         |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |               | Dom             |              |       |                |
|-----------------|--------------|-------|---------------|-----------------|--------------|-------|----------------|
| Electric Welded |              |       |               | C.D. Welded     |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft | O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| <b>1 5/16 x</b> | .035         | 1.240 | .4777         | <b>1 3/8 x</b>  | .156         | 1.060 | 2.0310         |
|                 | .058         | .120  | .7774         |                 | .172         | 1.030 | 2.2100         |
|                 | .065         | 1.180 | .8664         |                 | .188         | .999  | 2.3830         |
|                 | .083         | 1.150 | 1.0900        |                 | .219         | .937  | 2.7040         |
|                 | .095         | 1.120 | 1.2360        |                 | .250         | .875  | 3.0040         |
|                 | .109         | 1.100 | 1.4020        |                 | .281         | .813  | 3.2830         |
|                 | .120         | 1.070 | 1.5290        |                 | .313         | .749  | 3.5500         |
|                 | .125         | 1.060 | 1.5860        |                 | .375         | .625  | 4.0050         |
|                 | .134         | 1.050 | 1.6870        | <b>1 7/16 x</b> | .035         | 1.370 | .5244          |
|                 | .148         | 1.020 | 1.8410        |                 | .065         | 1.310 | .9531          |
|                 | .156         | 1.000 | 1.9280        |                 | .083         | 1.270 | 1.2010         |
|                 | .188         | .937  | 2.2590        |                 | .095         | 1.250 | 1.3630         |
|                 | .219         | .875  | 2.5590        |                 | .120         | 1.200 | 1.6890         |
|                 | .250         | .813  | 2.8380        |                 | .125         | 1.190 | 1.7530         |
|                 | .281         | .751  | 3.0970        |                 | .134         | 1.170 | 1.8660         |
|                 | .313         | .687  | 3.3430        |                 | .156         | 1.130 | 2.1360         |
|                 | .375         | .563  | 3.7570        |                 | .188         | 1.060 | 2.5100         |
| <b>1 3/8 x</b>  | .028         | 1.320 | .4028         |                 | .219         | 1.000 | 2.8510         |
|                 | .035         | 1.310 | .5009         |                 | .250         | .938  | 3.1720         |
|                 | .049         | 1.280 | .6939         | <b>1 1/2 x</b>  | .028         | 1.440 | .4402          |
|                 | .058         | 1.260 | .8158         |                 | .035         | 1.430 | .5476          |
|                 | .065         | 1.250 | .9094         |                 | .049         | 1.400 | .7593          |
|                 | .083         | 1.210 | 1.1450        |                 | .058         | 1.380 | .8932          |
|                 | .095         | 1.190 | 1.2990        |                 | .065         | 1.370 | .9962          |
|                 | .109         | 1.160 | 1.4740        |                 | .083         | 1.330 | 1.2560         |
|                 | .120         | 1.140 | 1.6080        |                 | .095         | 1.310 | 1.4260         |
|                 | .125         | 1.130 | 1.6690        |                 | .109         | 1.280 | 1.6190         |
|                 | .134         | 1.110 | 1.7760        |                 | .120         | 1.260 | 1.7690         |



## ROUND MECHANICAL TUBE

| Seamless         |              |       |                | Dom              |              |       |                |
|------------------|--------------|-------|----------------|------------------|--------------|-------|----------------|
| Electric Welded  |              |       |                | C.D. Welded      |              |       |                |
| O.D.             | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.             | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| <b>1 1/2 x</b>   | .134         | 1.230 | 1.9550         | <b>1 3/4 x</b>   | .035         | 1.680 | .6411          |
|                  | .156         | 1.190 | 2.2390         |                  | .049         | 1.650 | .8902          |
|                  | .188         | 1.120 | 2.6340         |                  | .065         | 1.620 | 1.1700         |
|                  | .219         | 1.060 | 2.9960         |                  | .083         | 1.580 | 1.4780         |
|                  | .250         | 1.000 | 3.3380         |                  | .095         | 1.560 | 1.6790         |
|                  | .281         | .938  | 3.6580         |                  | .109         | 1.530 | 1.9100         |
|                  | .313         | .874  | 3.9680         |                  | .120         | 1.510 | 2.0890         |
|                  | .344         | .812  | 4.2470         |                  | .125         | 1.500 | 2.1690         |
|                  | .375         | .750  | 4.5060         |                  | .134         | 1.480 | 2.3130         |
|                  | .438         | .624  | 4.9680         |                  | .156         | 1.440 | 2.6560         |
|                  | .500         | .500  | 5.3400         |                  | .188         | 1.370 | 3.1360         |
|                  |              |       |                |                  | .219         | 1.310 | 3.5810         |
| <b>1 9/16 x</b>  | .035         | 1.490 | .5712          |                  | .250         | 1.250 | 4.0050         |
|                  | .065         | 1.430 | 1.0400         | <b>1 13/16 x</b> | .281         | 1.190 | 4.4090         |
|                  | .095         | 1.370 | 1.4890         |                  | .313         | 1.120 | 4.8040         |
|                  | .109         | 1.350 | 1.6930         |                  | .375         | 1.000 | 5.5070         |
|                  | .120         | 1.320 | 1.8490         |                  | .438         | .874  | 6.1370         |
|                  | .125         | 1.310 | 1.9200         |                  | .500         | .750  | 6.6750         |
|                  | .134         | 1.300 | 2.0450         |                  | .563         | .624  | 7.1370         |
|                  | .156         | 1.250 | 2.3440         |                  | .625         | .500  | 7.5090         |
|                  | .188         | 1.190 | 2.7610         |                  | .125         | 1.560 | 2.2540         |
|                  | .250         | 1.060 | 3.5060         |                  | .156         | 1.500 | 2.7610         |
|                  | .313         | .937  | 4.1790         |                  | .188         | 1.440 | 3.2630         |
|                  | .375         | .813  | 4.7580         |                  | .250         | 1.310 | 4.1730         |
| <b>1 5/8 x</b>   | .035         | 1.560 | .5943          | <b>1 7/8 x</b>   | .035         | 1.810 | .6878          |
|                  | .049         | 1.530 | .8248          |                  | .049         | 1.780 | .9556          |
|                  | .058         | 1.510 | .9707          |                  | .065         | 1.750 | 1.2570         |
|                  | .065         | 1.500 | 1.0830         |                  | .083         | 1.710 | 1.5890         |
|                  | .083         | 1.460 | 1.3670         |                  | .095         | 1.690 | 1.8060         |
|                  | .095         | 1.440 | 1.5520         |                  | .109         | 1.660 | 2.0560         |
|                  | .109         | 1.410 | 1.7650         |                  | .120         | 1.640 | 2.2490         |
|                  | .120         | 1.390 | 1.9290         |                  | .125         | 1.630 | 2.3360         |
|                  | .125         | 1.380 | 2.0030         |                  | .134         | 1.610 | 2.4920         |
|                  | .134         | 1.360 | 2.1340         |                  | .156         | 1.560 | 2.8640         |
|                  | .156         | 1.310 | 2.4480         |                  | .188         | 1.500 | 3.3870         |
|                  | .172         | 1.280 | 2.6690         |                  | .219         | 1.440 | 3.8730         |
| <b>1 11/16 x</b> | .188         | 1.250 | 2.8850         |                  | .250         | 1.380 | 4.3390         |
|                  | .219         | 1.190 | 3.2890         | <b>1 15/16 x</b> | .281         | 1.310 | 4.7840         |
|                  | .250         | 1.130 | 3.6710         |                  | .313         | 1.250 | 5.2220         |
|                  | .281         | 1.060 | 4.0340         |                  | .375         | 1.130 | 6.0080         |
|                  | .313         | .999  | 4.3860         |                  | .438         | .999  | .6722          |
|                  | .375         | .875  | 5.0060         |                  | .500         | .875  | 7.3430         |
|                  | .438         | .749  | 5.5530         |                  | .563         | .749  | 7.8890         |
|                  | .500         | .625  | 6.0080         |                  | .125         | 1.690 | 2.4200         |
|                  | .065         | 1.560 | 1.1270         |                  | .156         | 1.630 | 2.9690         |
|                  | .125         | 1.440 | 2.0870         |                  | .219         | 1.500 | 4.0210         |
|                  | .156         | 1.380 | 2.5520         |                  | .250         | 1.440 | 4.5070         |
|                  | .188         | 1.310 | 3.0120         |                  | .375         | 1.190 | 6.2600         |
|                  | .250         | 1.190 | 3.8400         |                  |              |       |                |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |                | Dom         |              |       |                |
|-----------------|--------------|-------|----------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 2 x             | .035         | 1.930 | .7345          | 2 1/4 x     | .035         | 2.180 | .8280          |
|                 | .049         | 1.900 | 1.0210         |             | .049         | 2.150 | 1.1520         |
|                 | .065         | 1.870 | 1.3430         |             | .065         | 2.120 | 1.5170         |
|                 | .083         | 1.830 | 1.6990         |             | .083         | 2.080 | 1.9210         |
|                 | .095         | 1.810 | 1.9330         |             | .095         | 2.060 | 2.1870         |
|                 | .109         | 1.780 | 2.2010         |             | .109         | 2.030 | 2.4920         |
|                 | .120         | 1.760 | 2.4090         |             | .120         | 2.010 | 2.7300         |
|                 | .125         | 1.750 | 2.5030         |             | .125         | 2.000 | 2.8370         |
|                 | .134         | 1.730 | 2.6710         |             | .134         | 1.980 | 3.0280         |
|                 | .156         | 1.690 | 3.0720         |             | .156         | 1.940 | 3.4890         |
|                 | .180         | 1.640 | 3.4990         |             | .188         | 1.870 | 4.1400         |
|                 | .188         | 1.620 | 3.6380         |             | .219         | 1.810 | 4.7500         |
|                 | .219         | 1.560 | 4.1660         |             | .250         | 1.750 | 5.3400         |
|                 | .250         | 1.500 | 4.6730         |             | .281         | 1.690 | 5.9090         |
|                 | .281         | 1.440 | 5.1590         |             | .313         | 1.620 | 6.4750         |
|                 | .313         | 1.370 | 5.6390         |             | .344         | 1.560 | 7.0030         |
|                 | .344         | 1.310 | 6.0840         |             | .375         | 1.500 | 7.5090         |
|                 | .375         | 1.250 | 6.5080         |             | .406         | 1.440 | 7.9960         |
|                 | .438         | 1.120 | 7.3070         |             | .438         | 1.370 | 8.4760         |
|                 | .500         | 1.000 | 8.0100         |             | .500         | 1.250 | 9.3450         |
|                 | .563         | .874  | 8.6410         |             | .563         | 1.120 | 10.1400        |
|                 | .625         | .750  | 9.1780         |             | .625         | 1.000 | 10.8500        |
|                 | .750         | .500  | 10.0100        |             | .750         | .750  | 12.0200        |
| 2 1/16 x        | .156         | 1.750 | 3.1770         | 2 5/16 x    | .188         | 1.940 | 4.2670         |
|                 | .188         | 1.690 | 3.7650         |             | .250         | 1.810 | 5.5080         |
|                 | .250         | 1.560 | 4.8410         | 2 3/8 x     | .049         | 2.280 | 1.2170         |
|                 | .313         | 1.440 | 5.8500         |             | .065         | 2.250 | 1.6040         |
| 2 1/8 x         | .035         | 2.060 | .7812          |             | .083         | 2.210 | 2.0320         |
|                 | .049         | 2.030 | 1.0860         |             | .095         | 2.190 | 2.3130         |
|                 | .065         | 1.990 | 1.4300         |             | .120         | 2.140 | 2.8900         |
|                 | .083         | 1.960 | 1.8100         |             | .125         | 2.130 | 3.0040         |
|                 | .095         | 1.940 | 2.0600         |             | .156         | 2.060 | 3.6970         |
|                 | .120         | 1.890 | 2.5700         |             | .188         | 2.000 | 4.3910         |
|                 | .125         | 1.880 | 2.6700         |             | .219         | 1.940 | 5.0430         |
|                 | .156         | 1.810 | 3.2810         |             | .250         | 1.880 | 5.6740         |
|                 | .188         | 1.750 | 3.8890         |             | .281         | 1.810 | 6.2840         |
|                 | .219         | 1.690 | 4.4580         |             | .313         | 1.750 | 6.8930         |
|                 | .250         | 1.630 | 5.0060         |             | .375         | 1.630 | 8.0100         |
|                 | .281         | 1.560 | 5.5340         |             | .438         | 1.500 | 9.0610         |
|                 | .313         | 1.500 | 6.0570         |             | .500         | 1.380 | 10.0100        |
|                 | .375         | 1.380 | 7.0090         |             | .563         | 1.250 | 10.9000        |
|                 | .438         | 1.250 | 7.8920         |             | .625         | 1.130 | 11.6800        |
|                 | .500         | 1.130 | 8.6780         |             | .750         | .875  | 13.0200        |
|                 | .563         | .999  | 9.3920         | 2 7/16 x    | .250         | 1.940 | 5.8420         |
|                 | .625         | .875  | 10.0100        |             | .049         | 2.400 | 1.2830         |
| 2 3/16 x        | .120         | 1.950 | 2.6500         | 2 1/2 x     | .065         | 2.370 | 1.6900         |
|                 | .125         | 1.940 | 2.7540         |             | .083         | 2.330 | 2.1430         |
|                 | .250         | 1.690 | 5.1750         |             | .095         | 2.310 | 2.4400         |
|                 |              |       |                |             | .109         | 2.280 | 2.7830         |
|                 |              |       |                |             | .120         | 2.260 | 3.0500         |
|                 |              |       |                |             | .125         | 2.250 | 3.1710         |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |                | Dom         |              |       |                |
|-----------------|--------------|-------|----------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 2 1/2 x         |              |       |                | 2 3/4 x     |              |       |                |
|                 | .134         | 2.230 | 3.3860         |             | .563         | 1.620 | 13.1500        |
|                 | .156         | 2.190 | 3.9050         |             | .625         | 1.500 | 14.1800        |
|                 | .180         | 2.140 | 4.4600         |             | .688         | 1.370 | 15.1500        |
|                 | .188         | 2.120 | 4.6420         |             | .750         | 1.250 | 16.0200        |
|                 | .219         | 2.060 | 5.3350         |             | .875         | 1.000 | 17.5200        |
|                 | .250         | 2.000 | 6.0080         |             | 1.000        | .750  | 18.6900        |
|                 | .281         | 1.940 | 6.6590         | 2 7/8 x     |              |       |                |
|                 | .313         | 1.870 | 7.3110         |             | .065         | 2.750 | 1.9510         |
|                 | .344         | 1.810 | 7.9210         |             | .083         | 2.710 | 2.4750         |
|                 | .375         | 1.750 | 8.5110         |             | .095         | 2.690 | 2.8210         |
|                 | .438         | 1.620 | 9.6460         |             | .120         | 2.640 | 3.5310         |
|                 | .500         | 1.500 | 10.6800        |             | .125         | 2.630 | 3.6710         |
|                 | .563         | 1.370 | 11.6500        |             | .156         | 2.560 | 4.5300         |
|                 | .625         | 1.250 | 12.5200        |             | .180         | 2.520 | 5.1810         |
|                 | .750         | 1.000 | 14.0200        |             | .188         | 2.500 | 5.3950         |
| 2 9/16 x        |              |       |                |             | .219         | 2.440 | 6.2120         |
|                 | .250         | 2.060 | 6.1760         |             | .250         | 2.380 | 7.0090         |
| 2 5/8 x         |              |       |                |             | .281         | 2.310 | 7.7850         |
|                 | .049         | 2.530 | 1.3480         |             | .313         | 2.250 | 8.5640         |
|                 | .065         | 2.500 | 1.7770         |             | .375         | 2.130 | 10.0100        |
|                 | .083         | 2.460 | 2.2530         |             | .438         | 2.000 | 11.4000        |
|                 | .095         | 2.440 | 2.5670         |             | .500         | 1.880 | 12.6800        |
|                 | .109         | 2.410 | 2.9290         |             | .563         | 1.750 | 13.9000        |
|                 | .120         | 2.390 | 3.2100         |             | .625         | 1.630 | 15.0200        |
|                 | .125         | 2.380 | 3.3380         |             | .750         | 1.380 | 17.0200        |
|                 | .156         | 2.310 | 4.1140         | 3 x         |              |       |                |
|                 | .180         | 2.270 | 4.7000         |             | .049         | 2.900 | 1.5440         |
|                 | .188         | 2.250 | 4.8930         |             | .065         | 2.870 | 2.0380         |
|                 | .219         | 2.190 | 5.6270         |             | .083         | 2.830 | 2.5860         |
|                 | .250         | 2.130 | 6.3410         |             | .095         | 2.810 | 2.9470         |
|                 | .281         | 2.060 | 7.0350         |             | .109         | 2.780 | 3.3660         |
|                 | .313         | 2.000 | 7.7290         |             | .120         | 2.760 | 3.6910         |
|                 | .375         | 1.880 | 9.0110         |             | .125         | 2.750 | 3.8380         |
|                 | .438         | 1.750 | 10.2300        |             | .134         | 2.730 | 4.1020         |
|                 | .500         | 1.630 | 11.3500        |             | .156         | 2.690 | 4.7380         |
| 2 3/4 x         |              |       |                |             | .180         | 2.640 | 5.4210         |
|                 | .563         | 1.500 | 12.4000        |             | .188         | 2.620 | 5.6460         |
|                 | .625         | 1.380 | 13.3500        |             | .219         | 2.560 | 6.5050         |
|                 | .049         | 2.650 | 1.4140         |             | .250         | 2.500 | 7.3430         |
|                 | .065         | 2.620 | 1.8640         |             | .281         | 2.440 | 8.1600         |
|                 | .083         | 2.580 | 2.3640         |             | .313         | 2.370 | 8.9820         |
|                 | .095         | 2.560 | 2.6940         |             | .344         | 2.310 | 9.7580         |
|                 | .120         | 2.510 | 3.3710         |             | .375         | 2.250 | 10.5100        |
|                 | .125         | 2.500 | 3.5040         |             | .438         | 2.120 | 11.9800        |
|                 | .134         | 2.480 | 3.7440         |             | .500         | 2.000 | 13.3500        |
|                 | .156         | 2.440 | 4.3220         |             | .563         | 1.870 | 14.6500        |
|                 | .188         | 2.370 | 5.1440         |             | .625         | 1.750 | 15.8500        |
|                 | .219         | 2.310 | 5.9200         |             | .688         | 1.620 | 16.9900        |
|                 | .250         | 2.250 | 6.6750         |             | .750         | 1.500 | 18.0200        |
|                 | .281         | 2.190 | 7.4100         |             | .875         | 1.250 | 19.8600        |
|                 | .313         | 2.120 | 8.1470         |             | 1.000        | 1.000 | 21.3600        |
|                 | .344         | 2.060 | 8.8400         | 3 1/16 x    |              |       |                |
|                 | .375         | 2.000 | 9.5120         |             | .250         | 2.560 | 7.5110         |
|                 | .438         | 1.870 | 10.8200        |             | .313         | 2.440 | 9.1930         |
|                 | .500         | 1.750 | 12.0200        |             | .375         | 2.310 | 10.7700        |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |                | Dom            |              |       |                |
|-----------------|--------------|-------|----------------|----------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded    |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.           | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| <b>3 1/8 x</b>  | .065         | 3.000 | 2.1240         | <b>3 1/2 x</b> | .180         | 3.140 | 6.3820         |
|                 | .095         | 2.940 | 3.0740         |                | .188         | 3.120 | 6.5000         |
|                 | .120         | 2.890 | 3.8510         |                | .219         | 3.060 | 7.6740         |
|                 | .125         | 2.880 | 4.0050         |                | .250         | 3.000 | 8.6780         |
|                 | .188         | 2.750 | 5.8970         |                | .281         | 2.940 | 9.6610         |
|                 | .219         | 2.680 | 6.7970         |                | .313         | 2.870 | 10.6500        |
|                 | .250         | .263  | 7.6760         |                | .344         | 2.810 | 11.5900        |
|                 | .313         | 2.500 | 9.4000         |                | .375         | 2.750 | 12.5200        |
|                 | .375         | 2.380 | 11.0100        |                | .438         | 2.620 | 14.3200        |
|                 | .438         | 2.250 | 12.5700        |                | .500         | 2.500 | 16.0200        |
|                 | .500         | 2.130 | 14.0200        |                | .563         | 2.370 | 17.6600        |
|                 | .563         | 2.000 | 15.4000        |                | .625         | 2.250 | 19.1900        |
|                 | .625         | 1.880 | 16.6900        |                | .750         | 2.000 | 22.0300        |
|                 | .750         | 1.630 | 19.0200        |                | .875         | 1.750 | 24.5300        |
|                 | .875         | 1.380 | 21.0300        |                | 1.000        | 1.500 | 26.7000        |
| <b>3 1/4 x</b>  | .065         | 3.120 | 2.2110         | <b>3 5/8 x</b> | .065         | 3.490 | 2.4710         |
|                 | .095         | 3.060 | 3.2010         |                | .120         | 3.390 | 4.4920         |
|                 | .120         | 3.010 | 4.0110         |                | .125         | 3.380 | 4.6730         |
|                 | .125         | 3.000 | 4.1720         |                | .188         | 3.250 | 6.9010         |
|                 | .134         | 2.980 | 4.4590         |                | .250         | 3.130 | 9.0110         |
|                 | .156         | 2.940 | 5.1550         |                | .313         | 3.000 | 11.0700        |
|                 | .188         | 2.870 | 6.1480         |                | .375         | 2.880 | 13.0200        |
|                 | .219         | 2.810 | 7.0890         |                | .438         | 2.750 | 14.9100        |
|                 | .250         | 2.750 | 8.0100         |                | .500         | 2.630 | 16.6900        |
|                 | .281         | 2.690 | 8.9100         |                | .563         | 2.500 | 18.4100        |
|                 | .313         | 2.620 | 9.8180         |                | .625         | 2.380 | 20.0300        |
|                 | .344         | 2.560 | 10.6800        |                | .750         | 2.130 | 23.0300        |
|                 | .375         | 2.500 | 11.5100        | <b>3 3/4 x</b> | .065         | 3.620 | 2.5580         |
|                 | .438         | 2.370 | 13.1500        |                | .095         | 3.560 | 3.7080         |
|                 | .500         | 2.250 | 14.6900        |                | .120         | 3.510 | 4.6520         |
|                 | .563         | 2.120 | 16.1600        |                | .125         | 3.500 | 4.8390         |
|                 | .625         | 2.000 | 17.5200        |                | .134         | 3.480 | 5.1750         |
|                 | .750         | 1.750 | 20.0300        |                | .188         | 3.370 | 7.1520         |
|                 | .875         | 1.500 | 22.1900        |                | .219         | 3.310 | 8.2590         |
|                 | 1.000        | 1.250 | 24.0300        |                | .250         | 3.250 | 9.3450         |
| <b>3 3/8 x</b>  | .125         | 3.130 | 4.3390         |                | .313         | 3.120 | 11.4900        |
|                 | .188         | 3.000 | 6.3990         |                | .344         | 3.060 | 12.5100        |
|                 | .250         | 2.880 | 8.3440         |                | .375         | 3.000 | 13.5200        |
|                 | .313         | 2.750 | 10.2400        |                | .438         | 2.870 | 15.4900        |
|                 | .375         | 2.630 | 12.0200        |                | .500         | 2.750 | 17.3600        |
|                 | .438         | 2.500 | 13.7400        |                | .563         | 2.620 | 19.1600        |
|                 | .500         | 2.380 | 15.3500        |                | .625         | 2.500 | 20.8600        |
|                 | .625         | 2.130 | 18.3600        |                | .688         | 2.370 | 22.5000        |
|                 | .750         | 1.880 | 21.0300        |                | .750         | 2.250 | 24.0300        |
| <b>3 1/2 x</b>  | .049         | 3.400 | 1.8060         |                | .875         | 2.000 | 26.8700        |
|                 | .065         | 3.370 | 2.3850         |                | 1.000        | 1.750 | 29.3700        |
|                 | .083         | 3.330 | 3.0290         | <b>3 7/8 x</b> | .125         | 3.630 | 5.0060         |
|                 | .095         | 3.310 | 3.4550         |                | .188         | 3.500 | 7.4030         |
|                 | .120         | 3.260 | 4.3320         |                | .250         | 3.380 | 9.6790         |
|                 | .125         | 3.250 | 4.5060         |                | .313         | 3.250 | 11.9100        |
|                 | .134         | 3.230 | 4.8170         |                | .375         | 3.130 | 14.0200        |
|                 | .156         | 3.190 | 5.5710         |                | .438         | 3.000 | 16.0800        |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |                | Dom         |              |       |                |
|-----------------|--------------|-------|----------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 3 7/8 x         | .500         | 2.890 | 18.0200        | 4 1/4 x     | 1.130        | 2.000 | 37.5500        |
|                 | .625         | 2.630 | 21.6900        |             | 1.250        | 1.170 | 40.0500        |
|                 | .750         | 2.380 | 25.0300        | 4 3/8 x     | .188         | 4.000 | 8.4070         |
| 4 X             | .065         | 3.870 | 2.7320         |             | .250         | 3.890 | 11.0100        |
|                 | .083         | 3.830 | 3.4720         |             | .313         | 3.750 | 13.5800        |
|                 | .095         | 3.810 | 3.9620         |             | .375         | 3.630 | 16.0200        |
|                 | .109         | 3.780 | 4.5300         |             | .500         | 3.380 | 20.6900        |
|                 | .120         | 3.760 | 4.9730         |             | .625         | 3.130 | 25.0300        |
|                 | .125         | 3.750 | 5.1730         |             | .750         | 2.890 | 29.0400        |
|                 | .134         | 3.730 | 5.5330         | 4 1/2 x     | .065         | 4.370 | 3.0790         |
|                 | .156         | 3.690 | 6.4040         |             | .083         | 4.330 | 3.9150         |
|                 | .180         | 3.640 | 7.3440         |             | .095         | 4.310 | 4.4690         |
|                 | .188         | 3.620 | 7.6540         |             | .120         | 4.260 | 5.6130         |
|                 | .219         | 3.560 | 8.8440         |             | .125         | 4.250 | 5.8410         |
|                 | .250         | 3.500 | 10.0100        |             | .134         | 4.230 | 6.2480         |
|                 | .281         | 3.440 | 11.1600        |             | .156         | 4.190 | 7.2380         |
|                 | .313         | 3.370 | 12.3300        |             | .180         | 4.140 | 8.3050         |
|                 | .375         | 3.250 | 14.5200        |             | .188         | 4.120 | 8.6580         |
|                 | .438         | 3.120 | 16.6600        |             | .219         | 4.060 | 10.0100        |
|                 | .500         | 3.000 | 18.6900        |             | .250         | 4.000 | 11.3500        |
|                 | .563         | 2.870 | 20.6700        |             | .313         | 3.870 | 14.0000        |
|                 | .625         | 2.750 | 22.5300        |             | .375         | 3.750 | 16.5200        |
|                 | .688         | 2.620 | 24.3400        |             | .438         | 3.620 | 19.0000        |
|                 | .750         | 2.500 | 26.0300        |             | .500         | 3.500 | 21.3600        |
|                 | .875         | 2.250 | 29.2000        |             | .563         | 3.370 | 23.6700        |
|                 | 1.000        | 2.000 | 32.0400        |             | .625         | 3.250 | 25.8700        |
|                 | 1.130        | 1.750 | 34.5400        |             | .688         | 3.120 | 28.0100        |
|                 | 1.250        | 1.500 | 36.7100        |             | .750         | 3.000 | 30.0400        |
| 4 1/8 x         | .188         | 3.750 | 7.9050         |             | .875         | 2.750 | 33.8800        |
|                 | .250         | 3.630 | 10.3500        | 4 5/8 x     | 1.000        | 2.500 | 37.3800        |
|                 | .313         | 3.500 | 12.7400        |             | 1.130        | 2.250 | 40.5500        |
|                 | .375         | 3.380 | 15.0200        |             | 1.250        | 2.000 | 43.3900        |
|                 | .438         | 3.250 | 17.2500        |             | 1.500        | 1.500 | 48.0600        |
|                 | .500         | 3.120 | 19.3600        | 4 3/4 x     | .188         | 4.250 | 8.9090         |
| 4 1/4 x         | .065         | 4.120 | 2.9050         |             | .250         | 4.120 | 11.6800        |
|                 | .095         | 4.060 | 4.2160         |             | .313         | 4.000 | 14.4100        |
|                 | .120         | 4.010 | 5.2930         |             | .375         | 3.890 | 17.0200        |
|                 | .125         | 4.000 | 5.5070         |             | .500         | 3.630 | 22.0300        |
|                 | .156         | 3.940 | 6.8210         |             | .625         | 3.380 | 26.7000        |
|                 | .180         | 3.890 | 7.8240         |             | .750         | 3.130 | 31.0400        |
|                 | .188         | 3.870 | 8.1560         | 4 3/4 x     | .120         | 4.510 | 5.9340         |
|                 | .250         | 3.750 | 10.6800        |             | .125         | 4.500 | 6.1740         |
|                 | .313         | 3.620 | 13.1600        |             | .188         | 4.370 | 9.1600         |
|                 | .344         | 3.560 | 14.3500        |             | .250         | 4.250 | 12.0200        |
|                 | .375         | 3.500 | 15.5200        |             | .313         | 4.120 | 14.8300        |
|                 | .438         | 3.370 | 17.8300        |             | .375         | 4.000 | 17.5200        |
|                 | .500         | 3.250 | 20.0300        |             | .438         | 3.870 | 20.1700        |
|                 | .625         | 3.000 | 24.2000        |             | .500         | 3.750 | 22.7000        |
|                 | .688         | 2.870 | 26.1700        |             | .563         | 3.620 | 25.1800        |
|                 | .750         | 2.750 | 28.0400        |             | .625         | 3.500 | 27.5300        |
|                 | .875         | 2.500 | 31.5400        |             | .750         | 3.250 | 32.0400        |
|                 | 1.000        | 2.250 | 34.7100        |             |              |       |                |

## ROUND MECHANICAL TUBE

| Seamless        |              |       |                | Dom         |              |       |                |
|-----------------|--------------|-------|----------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 4 3/4 x         | .875         | 3.000 | 36.2100        | 5 1/2 x     | .313         | 4.870 | 17.3400        |
|                 | 1.000        | 2.750 | 40.0500        |             | .375         | 4.750 | 20.5300        |
|                 | 1.250        | 2.250 | 46.7300        |             | .438         | 4.620 | 23.6800        |
| 4 7/8 x         | .500         | 4.500 | 26.7000        | 5 5/8 x     | .625         | 4.500 | 32.5400        |
|                 | .188         | 4.380 | 12.3500        |             | .750         | 4.000 | 38.0500        |
|                 | .250         | 4.130 | 18.0200        |             | .875         | 3.750 | 43.2200        |
| 5 x             | .438         | 4.000 | 20.7600        | 5 3/4 x     | 1.000        | 3.500 | 48.0600        |
|                 | .500         | .389  | 23.3600        |             | 1.250        | 3.000 | 56.7400        |
|                 | .750         | 3.380 | 33.0400        |             | 1.500        | 2.500 | 64.0800        |
| 5 1/8 x         | .065         | 4.870 | 3.4260         | 6 x         | .313         | 5.000 | 17.7600        |
|                 | .083         | 4.830 | 4.3590         |             | .375         | 4.890 | 21.0300        |
|                 | .120         | 4.760 | 6.2540         |             | .500         | 4.630 | 27.3700        |
| 5 1/4 x         | .125         | 4.750 | 6.5080         | 6 1/4 x     | .625         | 4.380 | 33.3800        |
|                 | .180         | 4.640 | 9.2660         |             | .125         | 5.500 | 7.5090         |
|                 | .188         | 4.620 | 9.6620         |             | .188         | 5.370 | 11.1700        |
| 5 3/8 x         | .250         | 4.500 | 12.6800        |             | .250         | 5.250 | 14.6900        |
|                 | .313         | 4.370 | 15.6700        |             | .313         | 5.120 | 18.1800        |
|                 | .375         | 4.250 | 18.5200        | 6 1/2 x     | .375         | 5.000 | 21.5300        |
| 5 1/2 x         | .438         | 4.120 | 21.3400        |             | .500         | 4.750 | 28.0400        |
|                 | .500         | 4.000 | 24.0300        |             | .625         | 4.500 | 34.2100        |
| 5 5/8 x         | .563         | 3.870 | 26.6800        | 6 3/4 x     | .750         | 4.250 | 40.0500        |
|                 | .625         | 3.750 | 29.2000        |             | .875         | 4.000 | 45.5600        |
|                 | .750         | 3.500 | 34.0400        |             | 1.000        | 3.750 | 50.7300        |
| 5 3/4 x         | .875         | 3.250 | 38.5500        | 7 x         | .065         | 5.870 | 4.1200         |
|                 | 1.000        | 3.000 | 42.7200        |             | .083         | 5.830 | 5.2450         |
|                 | 1.130        | 2.750 | 46.5600        |             | .120         | 5.760 | 7.5360         |
| 5 7/8 x         | 1.250        | 2.500 | 50.0600        | 7 1/4 x     | .125         | 5.750 | 7.8430         |
|                 | 1.500        | 2.000 | 56.0700        |             | .134         | 5.730 | 8.3950         |
|                 | .313         | 4.500 | 16.0900        |             | .180         | 5.640 | 11.1900        |
| 6 x             | .375         | 4.380 | 19.0200        | 7 1/2 x     | .188         | 5.620 | 11.6700        |
|                 | .500         | 4.130 | 24.7000        |             | .250         | 5.500 | 15.3500        |
|                 | .625         | 3.890 | 30.0400        |             | .313         | 5.370 | 19.0100        |
| 6 1/8 x         | 1.000        | 3.130 | 44.0600        |             | .375         | 5.250 | 22.5300        |
|                 | .125         | 5.000 | 6.8420         | 7 3/4 x     | .500         | 5.000 | 29.3700        |
|                 | .188         | 4.870 | 10.1600        |             | .563         | 4.870 | 32.6900        |
| 6 1/4 x         | .250         | 4.750 | 13.3500        |             | .625         | 4.750 | 35.8800        |
|                 | .313         | 4.620 | 16.5000        | 8 x         | .750         | 4.500 | 42.0500        |
|                 | .375         | 4.500 | 19.5200        |             | .875         | 4.250 | 47.8900        |
| 6 3/8 x         | .500         | 4.250 | 25.3700        |             | 1.000        | 4.000 | 53.4000        |
|                 | .625         | 4.000 | 30.8700        | 8 1/4 x     | 1.250        | 3.500 | 63.4100        |
|                 | .750         | 3.750 | 36.0500        |             | 1.500        | 3.000 | 72.0900        |
| 6 1/2 x         | .875         | 3.500 | 40.8800        |             | .125         | 6.000 | 8.1770         |
|                 | 1.000        | 3.250 | 45.3900        |             | .188         | 5.870 | 12.1700        |
|                 | 1.250        | 2.750 | 53.4000        | 8 1/2 x     | .250         | 5.750 | 16.0200        |
| 6 3/4 x         | .188         | 5.000 | 10.4100        |             | .313         | 5.620 | 19.8500        |
|                 | .065         | 5.370 | 3.7730         |             | .375         | 5.500 | 23.5300        |
|                 | .120         | 5.260 | 6.8950         | 9 x         | .500         | 5.250 | 30.7100        |
| 6 7/8 x         | .125         | 5.250 | 7.1760         |             | .625         | 5.000 | 37.5500        |
|                 | .188         | 5.120 | 10.6700        |             | .750         | 4.750 | 44.0600        |
|                 |              |       |                |             | .875         | 4.500 | 50.2300        |

## ROUND MECHANICAL TUBE

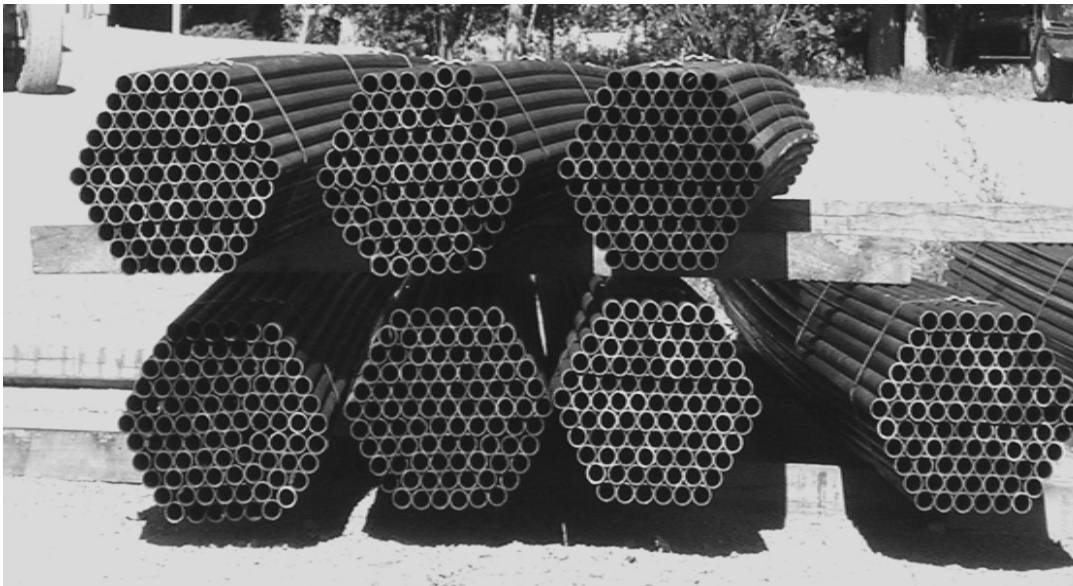
| Seamless        |              |       |                | Dom         |              |       |                |
|-----------------|--------------|-------|----------------|-------------|--------------|-------|----------------|
| Electric Welded |              |       |                | C.D. Welded |              |       |                |
| O.D.            | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.  | Wt.<br># / Ft. |
| 6 1/4 x         | 1.000        | 4.250 | 56.0700        | 7 1/2 x     | 1.250        | 5.000 | 83.4400        |
| 6 1/2 x         | .134         | 6.230 | 9.1110         |             | 1.500        | 4.500 | 96.1200        |
|                 | .188         | 6.120 | 12.6700        | 7 3/4 x     | .250         | 7.250 | 20.0300        |
|                 | .250         | 6.000 | 16.6900        |             | .375         | 7.000 | 29.5400        |
|                 | .375         | 5.750 | 24.5300        |             | .500         | 6.750 | 38.7200        |
|                 | .500         | 5.500 | 32.0400        |             | .625         | 6.500 | 47.5600        |
|                 | .625         | 5.250 | 39.2200        |             | .750         | 6.250 | 56.0700        |
|                 | .750         | 5.000 | 46.0600        |             | 1.000        | 5.750 | 72.0900        |
|                 | .875         | 4.750 | 52.5700        | 8 x         | .058         | 7.880 | 4.9200         |
|                 | 1.000        | 4.500 | 58.7400        |             | .072         | 7.860 | 6.0960         |
|                 | 1.250        | 4.000 | 70.0900        |             | .109         | 7.780 | 9.1860         |
|                 | 1.500        | 3.500 | 80.1000        |             | .125         | 7.750 | 10.5100        |
| 6 5/8 x         | .125         | 6.380 | 8.6780         |             | .134         | 7.730 | 11.2600        |
|                 | .188         | 6.250 | 12.9200        |             | .188         | 7.620 | 15.6900        |
|                 | .313         | 6.000 | 21.1000        |             | .250         | 7.500 | 20.6900        |
| 6 3/4 x         | .250         | 6.250 | 17.3600        |             | .375         | 7.250 | 30.5400        |
|                 | .375         | 6.000 | 25.5300        |             | .500         | 7.000 | 40.0500        |
|                 | .500         | 5.750 | 33.3800        |             | .625         | 6.750 | 49.2300        |
|                 | .625         | 5.500 | 40.8800        |             | .750         | 6.500 | 58.0700        |
|                 | .750         | 5.250 | 48.0600        |             | 1.000        | 6.000 | 74.7600        |
|                 | .875         | 5.000 | 54.9000        |             | 1.130        | 5.750 | 82.6000        |
|                 | 1.000        | 4.750 | 61.4100        |             | 1.250        | 5.500 | 90.1100        |
| 7 x             | .058         | 6.880 | 4.3000         |             | 1.500        | 5.000 | 104.1000       |
|                 | .072         | 6.860 | 5.3270         |             | 2.000        | 4.000 | 128.2000       |
|                 | .125         | 6.750 | 9.1780         | 8 1/4 x     | .250         | 7.750 | 21.3600        |
|                 | .188         | 6.620 | 13.6800        |             | .500         | 7.250 | 41.3900        |
|                 | .250         | 6.500 | 18.0200        |             | .625         | 7.000 | 50.9000        |
|                 | .375         | 6.250 | 26.5300        |             | .750         | 6.750 | 60.0800        |
|                 | .500         | 6.000 | 34.7100        |             | .875         | 6.500 | 68.9200        |
|                 | .625         | 5.750 | 42.5500        |             | 1.000        | 6.250 | 77.4300        |
|                 | .750         | 5.500 | 50.0600        | 8 1/2 x     | .250         | 8.000 | 22.0300        |
|                 | 1.000        | 5.000 | 64.0800        |             | .375         | 7.750 | 32.5400        |
|                 | 1.250        | 4.500 | 76.7600        |             | .500         | 7.500 | 42.7200        |
|                 | 1.500        | 4.000 | 88.1100        |             | .625         | 7.250 | 52.5700        |
|                 | 1.890        | 3.250 | 102.6000       |             | .750         | 7.000 | 62.0800        |
|                 | 2.000        | 3.000 | 106.8000       |             | 1.000        | 6.500 | 80.1000        |
| 7 1/4 x         | .188         | 6.870 | 14.1800        |             | 1.250        | 6.000 | 96.7900        |
|                 | .250         | 6.750 | 18.6900        |             | 1.500        | 5.500 | 112.1000       |
|                 | .375         | 6.500 | 27.5300        |             | 2.000        | 4.000 | 128.2000       |
|                 | .500         | 6.250 | 36.0500        | 8 5/8 x     | .109         | 8.410 | 9.9140         |
|                 | .625         | 6.000 | 44.2200        |             | .125         | 8.380 | 11.3500        |
|                 | .750         | 5.750 | 52.0700        |             | .134         | 8.360 | 12.1500        |
|                 | 1.000        | 5.250 | 66.7500        | 8 3/4 x     | .375         | 8.000 | 33.5400        |
| 7 1/2 x         | .250         | 7.000 | 19.3600        |             | .750         | 7.250 | 64.0800        |
|                 | .375         | 6.750 | 28.5400        |             | 1.000        | 6.750 | 82.7700        |
|                 | .500         | 6.500 | 37.3800        |             | 1.500        | 5.750 | 116.1000       |
|                 | .625         | 6.250 | 45.8900        | 9 x         | .250         | 8.500 | 23.3600        |
|                 | .750         | 6.000 | 54.0700        |             | .500         | 8.000 | 45.3900        |
|                 | 1.000        | 5.500 | 69.4200        |             |              |       |                |

## ROUND MECHANICAL TUBE

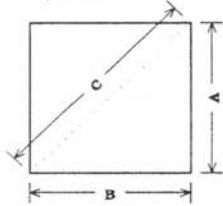
| Seamless        |              |        |                | Dom         |              |        |                |
|-----------------|--------------|--------|----------------|-------------|--------------|--------|----------------|
| Electric Welded |              |        |                | C.D. Welded |              |        |                |
| O.D.            | Wall<br>Dec. | I.D.   | Wt.<br># / Ft. | O.D.        | Wall<br>Dec. | I.D.   | Wt.<br># / Ft. |
| 9 x             | 1.000        | 7.000  | 85.4400        | 10 3/4 x    | 1.250        | 8.250  | 126.8000       |
|                 | 1.250        | 6.500  | 103.5000       |             | 1.500        | 7.750  | 148.2000       |
|                 | 1.500        | 6.000  | 120.2000       | 11 x        | .500         | 10.000 | 56.0700        |
|                 | 2.000        | 5.000  | 149.5000       |             | .750         | 9.500  | 82.1000        |
| 9 1/4 x         | .500         | 8.250  | 46.7300        |             | 1.000        | 9.000  | 106.8000       |
|                 | .625         | 8.000  | 57.5700        |             | 1.500        | 8.000  | 152.2000       |
|                 | .750         | 7.750  | 68.0900        |             | 2.000        | 7.000  | 192.2000       |
|                 | 1.000        | 7.250  | 88.1100        | 11 1/4 x    | .750         | 9.750  | 84.1100        |
| 9 1/2 x         | .250         | 9.000  | 24.7000        | 11 1/2 x    | .750         | 10.000 | 86.1100        |
|                 | .375         | 8.750  | 36.5500        |             | 1.000        | 9.500  | 112.1000       |
|                 | .500         | 8.500  | 48.0600        |             | 1.500        | 8.500  | 160.2000       |
|                 | .625         | 8.250  | 59.2400        | 11 3/4 x    | .500         | 10.800 | 60.0800        |
|                 | .750         | 8.000  | 70.0900        |             | .750         | 10.300 | 88.1100        |
|                 | 1.000        | 7.500  | 90.7800        |             | 1.000        | 9.750  | 114.8000       |
|                 | 1.130        | 7.250  | 100.6000       |             | .250         | 11.500 | 31.3700        |
|                 | 1.500        | 6.500  | 128.2000       | 12 x        | .500         | 11.000 | 61.4100        |
| 9 3/4 x         | 2.000        | 5.500  | 160.2000       |             | .750         | 10.500 | 90.1100        |
|                 | .250         | 9.250  | 25.3700        |             | .750         | 10.500 | 90.1100        |
|                 | .500         | 8.750  | 49.4000        |             | 1.000        | 10.000 | 117.5000       |
|                 | .750         | 8.250  | 72.0900        |             | 1.250        | 9.500  | 143.5000       |
|                 | 1.000        | 7.750  | 93.4500        |             | 1.500        | 9.000  | 168.2000       |
|                 | 1.500        | 6.750  | 132.2000       |             | 1.750        | 8.500  | 191.6000       |
| 10 x            | .072         | 9.860  | 7.6340         |             | 2.000        | 8.000  | 213.6000       |
|                 | .109         | 9.780  | 11.5100        |             | 2.500        | 7.000  | 253.7000       |
|                 | .134         | 9.730  | 14.1200        |             | 3.000        | 6.000  | 288.4000       |
|                 | .188         | 9.620  | 19.7000        | 12 1/4 x    | .250         | 11.800 | 32.0600        |
|                 | .250         | 9.500  | 26.0300        |             | .500         | 11.380 | 62.7500        |
|                 | .375         | 9.250  | 38.5500        |             | .750         | 10.800 | 92.1200        |
|                 | .500         | 9.000  | 50.7300        |             | 1.000        | 10.300 | 120.2000       |
|                 | .750         | 8.500  | 74.0900        |             | 1.250        | 9.800  | 146.9000       |
|                 | 1.000        | 8.000  | 96.1200        |             | 1.500        | 9.250  | 172.2000       |
|                 | 1.130        | 7.750  | 106.6000       |             | 1.750        | 8.750  | 196.2000       |
|                 | 1.250        | 7.500  | 116.8000       |             | 2.000        | 8.250  | 218.9000       |
|                 | 1.500        | 7.000  | 136.2000       | 12 1/2 x    | .500         | 11.500 | 64.0800        |
|                 | 2.000        | 6.000  | 170.9000       |             | .750         | 11.000 | 94.1200        |
| 10 1/14 x       | 1.500        | 7.250  | 140.2000       |             | 1.000        | 10.500 | 122.8000       |
|                 | .250         | 10.000 | 27.3700        |             | 1.250        | 10.000 | 150.2000       |
| 10 1/2 x        | .375         | 9.750  | 40.5500        |             | 1.500        | 9.500  | 176.2000       |
|                 | .500         | 9.500  | 53.4000        |             | 1.750        | 9.000  | 200.9000       |
|                 | .750         | 9.000  | 78.1000        |             | 2.000        | 8.500  | 224.3000       |
|                 | 1.000        | 8.500  | 101.5000       |             | 2.250        | 8.000  | 246.3000       |
|                 | 1.250        | 8.000  | 123.5000       | 13 x        | 1.000        | 11.000 | 128.2000       |
|                 | 1.500        | 7.500  | 144.2000       |             | 1.500        | 10.000 | 184.2000       |
| 10 3/4 x        | .375         | 10.000 | 41.5500        |             | 2.000        | 9.000  | 235.0000       |
|                 | .500         | 9.750  | 54.7400        |             | 2.500        | 8.000  | 280.4000       |
|                 | 1.000        | 8.750  | 104.1000       |             | 3.000        | 7.000  | 320.4000       |
|                 | 1.130        | 8.500  | 115.6000       |             |              |        |                |

## ROUND MECHANICAL TUBE

| Seamless<br>Electric Welded |              |        |               | Dom<br>C.D. Welded |              |        |                |
|-----------------------------|--------------|--------|---------------|--------------------|--------------|--------|----------------|
| O.D.                        | Wall<br>Dec. | I.D.   | Wt.<br># / Ft | O.D                | Wall<br>Dec. | I.D.   | Wt.<br># / Ft. |
| 14 x                        | 1.000        | 12.000 | 138.800       | 15 x               | 2.000        | 11.000 | 277.700        |
|                             | 1.500        | 11.000 | 200.300       |                    | 2.500        | 10.000 | 333.800        |
|                             | 2.000        | 10.000 | 256.300       |                    | 3.000        | 9.000  | 384.500        |
|                             | 2.250        | 9.500  | 282.400       | 16 x               | 1.000        | 14.000 | 160.200        |
|                             | 2.500        | 9.000  | 307.100       |                    | 1.500        | 13.000 | 232.200        |
|                             | 3.000        | 8.000  | 352.400       |                    | 2.000        | 12.000 | 299.000        |
| 15 x                        | 1.000        | 13.000 | 149.500       |                    | 2.500        | 11.000 | 360.500        |
|                             | 1.500        | 12.000 | 216.300       |                    | 3.000        | 10.000 | 416.500        |
|                             | 1.750        | 11.500 | 247.600       |                    | 3.500        | 9.000  | 467.300        |
|                             |              |        |               |                    | 4.000        | 8.000  | 512.600        |



### SQUARE



A = Length of side  
B = Length of side  
C = Diagonal distance across corners

$$A = B$$

$$B = A$$

$$A = C \times .707$$

$$B = C \times .707$$

$$A = \sqrt{\text{Area}}$$

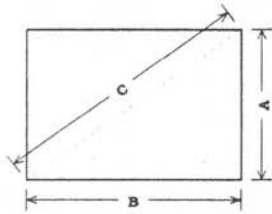
$$B = \sqrt{\text{Area}}$$

$$C = A \times 1.414$$

$$C = B \times 1.414 \quad \text{Area} = A \times B$$

$$\text{Perimeter} = A + A + B + B$$

### RECTANGLE



A = Length of short side  
B = Length of long side  
C = Diagonal distance across corners

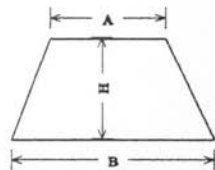
$$A = \text{Area} \div B \quad B = \text{Area} \div A$$

$$A = \sqrt{C^2 - B^2} \quad B = \sqrt{C^2 - A^2}$$

$$C = \sqrt{A^2 + B^2} \quad \text{Area} = A \times B$$

$$\text{Perimeter} = A + A + B + B$$

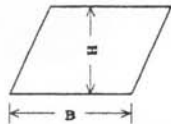
### TRAPEZOID



A = Length of short horizontal side  
B = Length of long horizontal side  
H = Vertical height

$$\text{Area} = \frac{A + B}{2} \times H$$

### PARALLELOGRAM



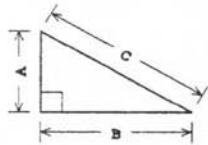
B = Length of horizontal sides  
H = Vertical height

$$B = \text{Area} \div H$$

$$H = \text{Area} \div B$$

$$\text{Area} = B \times H$$

### RIGHT TRIANGLE



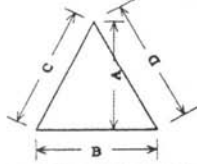
A = Vertical height  
B = Base  
C = Hypotenuse

$$A = \sqrt{C^2 - B^2} \quad \text{Area} = B \times 1/2 A$$

$$B = \sqrt{C^2 - A^2}$$

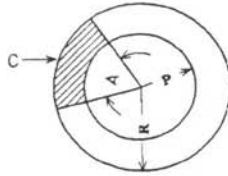
$$C = \sqrt{A^2 + B^2}$$

OBLIQUE  
TRIANGLE



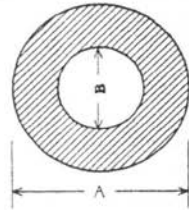
A = Vertical height  
B = Base  
C = Length of sloping side  
D = Length of sloping side  
Area =  $B \times 1/2A$

AREA OF A SECTION  
OF A CIRCULAR RING



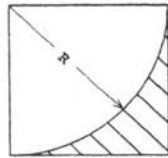
A = Angle of section  
C = Area of circular section  
P = Inside radius  
R = Outside radius  
 $C = A \times .00873 \times (R^2 - P^2)$

AREA OF A FLAT  
CIRCULAR RING OR  
GASKET



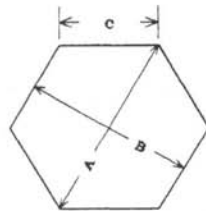
A = Outside diameter  
B = Inside diameter  
Area =  $(A^2 - B^2) \times .7854$

AREA OF A FILLET



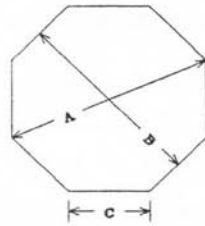
A = Area  
R = Radius  
 $A = .2146 \times R^2$

REGULAR HEXAGON



A = Distance across corners  
B = Distance across flats  
C = Length of sides  
  
 $A = B \times 1.1547$   
 $A = C \times 2.000$   
  
 $B = A \times .86603$   
 $B = C \times 1.7320$   
  
 $C = A \times .50000$   
 $C = B \times .57735$   
  
Area =  $A^2 \times .6495$   
Area =  $B^2 \times .866$   
Area =  $C^2 \times 4.828$

# REGULAR OCTAGON



A = Distance across corners  
B = Distance across flats  
C = Length of side

$$A = B \times 1.0824$$

$$A = C \times 2.6131$$

$$B = A \times .92388$$

$$B = C \times 2.4142$$

$$C = A \times .38268$$

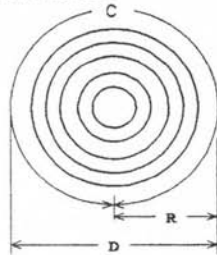
$$C = B \times .41421$$

$$\text{Area} = A^2 \times .707$$

$$\text{Area} = B^2 \times .828$$

$$\text{Area} = C^2 \times 4.828$$

# SPHERES



A = Area of surface  
C = Circumference  
D = Diameter  
R = Radius  
V = Volume

$$A = R^2 \times 12.566$$

$$A = C \times D$$

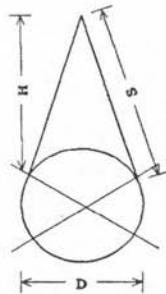
$$A = D^2 \times 3.1416$$

$$D = \sqrt{\frac{A}{3.1416}}$$

$$V = D^3 \times .5236$$

$$V = R^3 \times 4.189$$

# CONE



A = Area of base  
C = Circumference of base  
D = Diameter of base  
H = Vertical height  
S = Slant height  
V = Volume  
L = Surface area of tapered portion

$$A = D^2 \times .7854$$

$$A = \frac{3 \times V}{H}$$

$$D = \sqrt{\frac{V}{H \times .2615}}$$

$$D = 2 \sqrt{S^2 - H^2}$$

$$H = \sqrt{S^2 - (.5 \times D)^2}$$

$$H = \frac{V}{D^2 \times .2615}$$

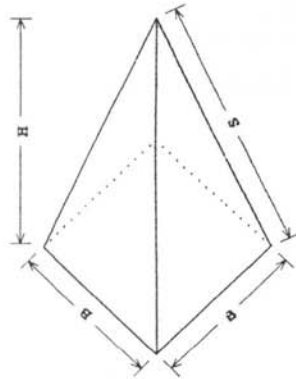
$$L = C \times S \times .5$$

$$C = D \times 3.1416$$

$$S = \sqrt{(.5 \times D)^2 + H^2}$$

$$V = A \times H \times .333$$

### SQUARE PYRAMID



A = Area of base  
 B = Length of side of base  
 H = Vertical height  
 L = Lateral surface  
 S = Slant height  
 V = Volume

$$A = B^2$$

$$A = \frac{3 \times V}{H}$$

$$B = \sqrt{\frac{3 \times V}{H}}$$

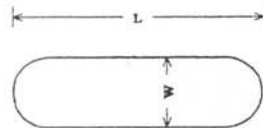
$$H = \frac{3 \times V}{B^2}$$

$$L = B \times S \times 2$$

$$S = \sqrt{(.5 \times B)^2 + H^2}$$

$$V = B^2 \times H \times .333$$

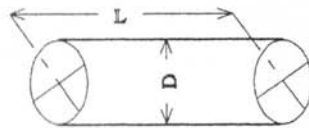
### SEMICIRCULAR SURFACE



L = Length  
 W = Width

$$\text{Area} = [W^2 \times .7854] + [(L - W) \times W]$$

### CYLINDER



D = Diameter  
 L = Length  
 V = Volume

$$V = D^2 \times .7854 \times L$$

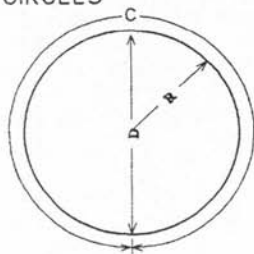
$$L = \frac{V}{D^2 \times .7854}$$

$$D = \sqrt{\frac{V}{L \times .7854}}$$

### EQUILATERAL TRIANGLE

$$\text{Area} = .433 \times \text{Base}$$

# CIRCLES



To Find Radius

$$\begin{aligned} R &= C \div 6.2832 \\ R &= C \times .15915 \\ R &= D \div 2 \\ R &= D \times .5 \\ R &= .564 \times \sqrt{A} \end{aligned}$$

To Find Area

$$\begin{aligned} A &= D^2 \times .7854 \\ A &= R^2 \times 3.1416 \\ A &= C^2 \times .0796 \\ A &= C \times D \times .25 \end{aligned}$$

A = Area  
D = Diameter  
R = Radius  
C = Circumference

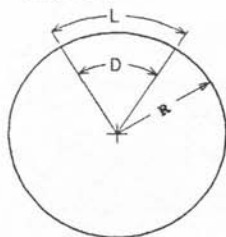
To Find Circumference

$$\begin{aligned} C &= D \times 3.1416 \\ C &= R \times 6.2832 \\ C &= 3.54 \times \sqrt{A} \end{aligned}$$

To Find Diameter

$$\begin{aligned} D &= C \times .3183 \\ D &= C \div 3.1416 \\ D &= \sqrt{A \times 1.2732} \\ D &= \sqrt{\frac{A}{.7854}} \\ D &= 2 \sqrt{\frac{A}{3.1416}} \\ D &= 2 \sqrt{A \times .3183} \end{aligned}$$

# CIRCULAR SECTOR



To Find Area

$$\begin{aligned} A &= .00872 \times D \times R^2 \\ A &= L \times R \times .5 \\ A &= \frac{L \times R}{2} \end{aligned}$$

$$A = D \times \text{Area of circle} \times .00278$$

$$D = \frac{57.3 \times L}{R}$$

A = Area of sector  
D = Degrees of sector  
L = Length of arc  
R = Radius of sector

To Find Radius

$$\begin{aligned} R &= \frac{L}{.01745 \times D} \\ R &= \sqrt{\frac{A}{.00872 \times D}} \end{aligned}$$

$$R = \frac{57.3 \times L}{D}$$

To Find Length of Arc

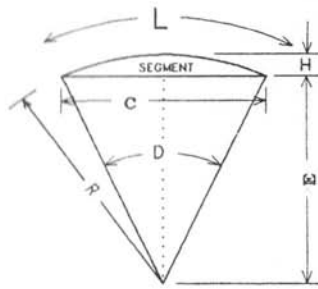
$$L = D \times R \times .01745$$

To Find Degrees of Sector

$$D = \frac{A}{.00812 \times R^2}$$

$$D = \frac{L}{.01745 \times R}$$

# SEGMENT



A = Area of circular sector  
 B = Area of triangles  
 C = Chord length  
 D = Degrees of sector  
 E = Height of triangles  
 G = Area of segment  
 H = Height of segment  
 L = Length of arc  
 R = Radius of sector

## Area of Segment

$$G = (.5 \times R \times L) - (.5 \times E \times C)$$

$$G = A - B$$

## Height of Segment

$$H = R - (.5 \times \sqrt{4 \times R^2 - C^2})$$

$$H = R - E$$

## Triangle Height

$$E = R - H$$

## Area of Sector

$$A = .5 \times R \times L$$

## Length of Arc

$$L = D \times R \times .01745$$

## Area of Triangles

$$B = E \times C \times .5$$

## Chord Length

$$C = 2\sqrt{R^2 - E^2}$$

## Radius Length

$$R = \frac{L}{.1745 \times D}$$

A gallon of water contains 231 cubic inches and weighs approximately 8.33 lbs.

A cubic foot of water contains 7 1/2 gallons, 1728 cubic inches, and weighs 62 1/2 lbs.

Doubling the diameter of a pipe increases its capacity four times.

# DECIMAL EQUIVALENTS

| Fractional<br>Inch | Dec.<br>Equiv. | MM    | Fractional<br>Inch | Dec.<br>Equiv. | MM    |
|--------------------|----------------|-------|--------------------|----------------|-------|
| 1/64---            | .0156---       | .397  | 33/64-             | .5156--        | 13.09 |
| 1/32----           | .0313---       | .794  | 17/32----          | .5313---       | 13.49 |
| 3/64----           | .0469---       | 1.191 | 35/64-             | .5469--        | 13.89 |
| 1/16-----          | .0625---       | 1.588 | 9/16-----          | .5625---       | 14.29 |
| 5/64----           | .0781---       | 1.984 | 37/64-             | .5781--        | 14.68 |
| 3/32----           | .0938---       | 2.381 | 19/32----          | .5938---       | 15.08 |
| 7/64----           | .1094---       | 2.778 | 39/64-             | .6094--        | 15.48 |
| 1/8-----           | .1250---       | 3.175 | 5/8-----           | .6250---       | 15.88 |
| 9/64----           | .1406---       | 3.572 | 41/64-             | .6406--        | 16.27 |
| 5/32----           | .1563---       | 3.970 | 21/32----          | .6563---       | 16.67 |
| 11/64-             | .1719--        | 4.366 | 43/64-             | .6719--        | 17.07 |
| 3/16-----          | .1875---       | 4.700 | 11/16----          | .6875---       | 17.46 |
| 13/64-             | .2031--        | 5.159 | 45/64-             | .7031--        | 17.86 |
| 7/32----           | .2188---       | 5.556 | 23/32----          | .7188---       | 18.26 |
| 15/64-             | .2344--        | 5.953 | 47/64-             | .7344--        | 18.65 |
| 1/4-----           | .2500---       | 6.350 | 3/4-----           | .7500---       | 19.05 |
| 17/64-             | .2656--        | 6.747 | 49/64-             | .7656--        | 19.45 |
| 9/32----           | .2813---       | 7.144 | 25/32----          | .7813---       | 19.84 |
| 19/64-             | .2969--        | 7.541 | 51/64-             | .7969--        | 20.24 |
| 5/16-----          | .3125---       | 7.937 | 13/16----          | .8125---       | 20.64 |
| 21/64-             | .3281--        | 8.337 | 53/64-             | .8281--        | 21.03 |
| 11/32----          | .3438---       | 8.731 | 27/32----          | .8438---       | 21.43 |
| 23/64-             | .3594--        | 9.128 | 55/64-             | .8594--        | 21.83 |
| 3/8-----           | .3750---       | 9.525 | 7/8-----           | .8750---       | 22.23 |
| 25/64-             | .3906--        | 9.922 | 57/64-             | .8906--        | 22.62 |
| 13/32----          | .4063---       | 10.31 | 29/32----          | .9063---       | 23.02 |
| 27/64-             | .4219--        | 10.72 | 59/64-             | .9219--        | 23.42 |
| 7/16-----          | .4375---       | 11.11 | 15/16----          | .9375---       | 23.81 |
| 29/64-             | .4531--        | 11.51 | 61/64-             | .9531--        | 24.21 |
| 15/32----          | .4688---       | 11.91 | 31/32----          | .9688---       | 24.61 |
| 31/64-             | .4844--        | 12.30 | 63/64-             | .9844--        | 25.00 |
| 1/2-----           | .5000---       | 12.70 | 1-----             | 1-----         | 25.40 |

# CONVERSION TABLE

| Inches | Decimal<br>of a ft. | Inches | Decimal<br>of a ft. | Inches | Decimal<br>of a ft. |
|--------|---------------------|--------|---------------------|--------|---------------------|
| 0"     | 1/16 .005           | 4"     | 1/16 .339           | 8"     | 1/16 .672           |
|        | 1/8 .010            |        | 1/8 .344            |        | 1/8 .677            |
|        | 3/16 .016           |        | 3/16 .349           |        | 3/16 .682           |
|        | 1/4 .021            |        | 1/4 .354            |        | 1/4 .689            |
|        | 5/16 .026           |        | 5/16 .359           |        | 5/16 .693           |
|        | 3/8 .031            |        | 3/8 .365            |        | 3/8 .698            |
|        | 7/16 .036           |        | 7/16 .370           |        | 7/16 .703           |
|        | 1/2 .042            |        | 1/2 .375            |        | 1/2 .708            |
|        | 9/16 .047           | .333   | 9/16 .380           | .666   | 9/16 .714           |
|        | 5/8 .052            |        | 5/8 .385            |        | 5/8 .719            |
|        | 11/16 .057          |        | 11/16 .391          |        | 11/16 .724          |
|        | 3/4 .063            |        | 3/4 .396            |        | 3/4 .729            |
|        | 13/16 .068          |        | 13/16 .401          |        | 13/16 .734          |
|        | 7/8 .073            |        | 7/8 .406            |        | 7/8 .740            |
|        | 15/16 .078          |        | 15/16 .411          |        | 15/16 .745          |
| 1"     | 1/16 .089           | 5"     | 1/16 .422           | 9"     | 1/16 .755           |
|        | 1/8 .094            |        | 1/8 .427            |        | 1/8 .760            |
|        | 3/16 .099           |        | 3/16 .432           |        | 3/16 .766           |
|        | 1/4 .104            |        | 1/4 .438            |        | 1/4 .771            |
|        | 5/16 .109           |        | 5/16 .443           |        | 5/16 .776           |
|        | 3/8 .115            |        | 3/8 .448            |        | 3/8 .781            |
|        | 7/16 .120           |        | 7/16 .453           |        | 7/16 .786           |
|        | 1/2 .125            |        | 1/2 .458            |        | 1/2 .792            |
| .083   | 9/16 .130           | .416   | 9/16 .464           | .750   | 9/16 .797           |
|        | 5/8 .135            |        | 5/8 .469            |        | 5/8 .802            |
|        | 11/16 .141          |        | 11/16 .474          |        | 11/16 .807          |
|        | 3/4 .146            |        | 3/4 .479            |        | 3/4 .813            |
|        | 13/16 .151          |        | 13/16 .484          |        | 13/16 .818          |
|        | 7/8 .156            |        | 7/8 .490            |        | 7/8 .823            |
|        | 15/16 .161          |        | 15/16 .495          |        | 15/16 .828          |
| 2"     | 1/16 .172           | 6"     | 1/16 .505           | 10"    | 1/16 .839           |
|        | 1/8 .177            |        | 1/8 .510            |        | 1/8 .844            |
|        | 3/16 .182           |        | 3/16 .516           |        | 3/16 .849           |
|        | 1/4 .188            |        | 1/4 .521            |        | 1/4 .854            |
|        | 5/16 .193           |        | 5/16 .526           |        | 5/16 .859           |
|        | 3/8 .198            |        | 3/8 .531            |        | 3/8 .865            |
|        | 7/16 .203           |        | 7/16 .536           |        | 7/16 .870           |
|        | 1/2 .208            |        | 1/2 .542            |        | 1/2 .875            |
| .166   | 9/16 .214           | .500   | 9/16 .547           | .833   | 9/16 .880           |
|        | 5/8 .219            |        | 5/8 .552            |        | 5/8 .885            |
|        | 11/16 .224          |        | 11/16 .557          |        | 11/16 .891          |
|        | 3/4 .229            |        | 3/4 .563            |        | 3/4 .896            |
|        | 13/16 .234          |        | 13/16 .568          |        | 13/16 .901          |
|        | 7/8 .240            |        | 7/8 .573            |        | 7/8 .906            |
|        | 15/16 .245          |        | 15/16 .578          |        | 15/16 .911          |
| 3"     | 1/16 .255           | 7"     | 1/16 .589           | 11"    | 1/16 .922           |
|        | 1/8 .260            |        | 1/8 .594            |        | 1/8 .927            |
|        | 3/16 .266           |        | 3/16 .599           |        | 3/16 .932           |
|        | 1/4 .271            |        | 1/4 .604            |        | 1/4 .938            |
|        | 5/16 .276           |        | 5/16 .609           |        | 5/16 .943           |
|        | 3/8 .281            |        | 3/8 .615            |        | 3/8 .948            |
|        | 7/16 .286           |        | 7/16 .620           |        | 7/16 .953           |
|        | 1/2 .292            |        | 1/2 .625            |        | 1/2 .958            |
| .250   | 9/16 .297           | .583   | 9/16 .630           | .916   | 9/16 .964           |
|        | 5/8 .302            |        | 5/8 .635            |        | 5/8 .969            |
|        | 11/16 .307          |        | 11/16 .641          |        | 11/16 .974          |
|        | 3/4 .313            |        | 3/4 .646            |        | 3/4 .979            |
|        | 13/16 .318          |        | 13/16 .651          |        | 13/16 .984          |
|        | 7/8 .323            |        | 7/8 .656            |        | 7/8 .990            |
|        | 15/16 .323          |        | 15/16 .661          |        | 15/16 .995          |