

CRAFTSMAN CRIB SHEET

Weights of Bars

Steel weighs approximately 0.2833 pounds per cubic inch.

Steel weighs approximately 489.6 pounds per cubic foot.

To determine the weight per foot of steel for any size of the following sections:

Rounds

$(\text{Diameter in inches})^2 \times 2.670$
= Weight per foot in pounds

Squares

$(\text{Flat-to-flat size in inches})^2 \times 3.4$
= Weight per foot in pounds

Hexagons

$(\text{Flat to flat size in inches})^2 \times 2.9445$
= Weight per foot in pounds

Octagons

$(\text{Flat to Flat size in inches})^2 \times 2.8167$
= Weight per foot in pounds

Flats

$(\text{Width in inches} \times \text{Thickness in inches}) \times 3.4$
= Weight per foot in pounds

Aluminum

To determine the weight of aluminum, multiply the steel weight for the shape and size by 0.346.

Brass

To determine the weight of brass, multiply the steel weight for the shape and size by 1.08. ⊕

| Thickness or Diameter in inches | Round | | Hexagons | |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| | Weight per inch | Weight per foot | Weight per inch | Weight per foot |
| 1/32 | 0.0002 | 0.0026 | 0.0002 | 0.0029 |
| 1/16 | 0.0009 | 0.0104 | 0.0010 | 0.0115 |
| 3/32 | 0.0020 | 0.0235 | 0.0022 | 0.0259 |
| 1/8 | 0.0035 | 0.0417 | 0.0038 | 0.0460 |
| 5/32 | 0.0054 | 0.0652 | 0.0060 | 0.0719 |
| 3/16 | 0.0078 | 0.0939 | 0.0086 | 0.1035 |
| 7/32 | 0.0106 | 0.1278 | 0.0117 | 0.1409 |
| 1/4 | 0.0139 | 0.1669 | 0.0153 | 0.1840 |
| 9/32 | 0.0176 | 0.2112 | 0.0194 | 0.2329 |
| 5/16 | 0.0217 | 0.2607 | 0.0240 | 0.2875 |
| 11/32 | 0.0263 | 0.3155 | 0.0290 | 0.3479 |
| 3/8 | 0.0313 | 0.3755 | 0.0345 | 0.4141 |
| 13/32 | 0.0367 | 0.4407 | 0.0405 | 0.4860 |
| 7/16 | 0.0426 | 0.5111 | 0.0470 | 0.5636 |
| 15/32 | 0.0489 | 0.5867 | 0.0539 | 0.6470 |
| 1/2 | 0.0556 | 0.6675 | 0.0613 | 0.7361 |
| 17/32 | 0.0628 | 0.7535 | 0.0693 | 0.8310 |
| 7/16 | 0.0704 | 0.8448 | 0.0776 | 0.9317 |
| 19/32 | 0.0784 | 0.9413 | 0.0865 | 1.0381 |
| 5/8 | 0.0869 | 1.043 | 0.0958 | 1.150 |
| 21/32 | 0.0958 | 1.150 | 0.1057 | 1.268 |
| 11/16 | 0.1052 | 1.262 | 0.1160 | 1.392 |
| 23/32 | 0.1149 | 1.379 | 0.1268 | 1.521 |
| 3/4 | 0.1252 | 1.502 | 0.1380 | 1.656 |
| 25/32 | 0.1358 | 1.630 | 0.1498 | 1.797 |
| 13/16 | 0.1469 | 1.763 | 0.1620 | 1.944 |
| 27/32 | 0.1584 | 1.901 | 0.1747 | 2.096 |
| 7/8 | 0.1704 | 2.044 | 0.1879 | 2.254 |
| 29/32 | 0.1827 | 2.193 | 0.2015 | 2.418 |
| 15/16 | 0.1956 | 2.347 | 0.2157 | 2.588 |
| 31/32 | 0.2088 | 2.506 | 0.2303 | 2.763 |
| 1 | 0.2225 | 2.670 | 0.2454 | 2.944 |