

BAND SAW CUTTING USEFUL INFORMATION CHART

USEFUL INFORMATION

Material Diameter to Square Inch Area Conversion

| Diameter (in.) | Area (sq. in) | Diameter (in.) | Area (sq.in.) | Diameter (in.) | Area (sq. in.) |
|----------------|---------------|----------------|---------------|----------------|----------------|
| 1/2 | .20 | 7 | 38.48 | 14 | 153.9 |
| 3/4 | .44 | 7 1/2 | 44.18 | 14 1/2 | 165.1 |
| 1 | .79 | 7 3/4 | 47.17 | 14 3/4 | 170.9 |
| 1 1/4 | 1.23 | 8 | 50.26 | 15 | 176.7 |
| 1 1/2 | 1.77 | 8 1/2 | 56.74 | 15 1/2 | 188.7 |
| 1 3/4 | 2.41 | 8 3/4 | 60.13 | 15 3/4 | 194.8 |
| 2 | 3.14 | 9 | 63.62 | 16 | 201.1 |
| 2 1/4 | 3.98 | 9 1/2 | 70.88 | 16 1/2 | 213.8 |
| 2 1/2 | 4.91 | 9 3/4 | 74.66 | 16 3/4 | 220.4 |
| 2 3/4 | 8.94 | 10 | 78.5 | 17 | 222.7 |
| 3 | 7.07 | 10 1/2 | 86.6 | 17 1/2 | 240.5 |
| 3 1/2 | 9.62 | 10 3/4 | 90.8 | 17 3/4 | 247.4 |
| 3 3/4 | 11.04 | 11 | 95.0 | 18 | 254.5 |
| 4 | 12.56 | 11 1/2 | 103.9 | 18 1/2 | 268.8 |
| 4 1/2 | 15.90 | 11 3/4 | 108.4 | 18 3/4 | 276.1 |
| 4 3/4 | 17.72 | 12 | 113.1 | 19 | 283.5 |
| 5 | 19.63 | 12 1/2 | 122.7 | 19 1/2 | 298.6 |
| 5 1/2 | 23.76 | 12 3/4 | 127.7 | 19 3/4 | 306.4 |
| 5 3/4 | 25.97 | 13 | 132.7 | 20 | 314.2 |
| 6 | 28.27 | 13 1/2 | 143.1 | 20 1/2 | 330.1 |
| 6 1/2 | 33.18 | 13 3/4 | 148.5 | 20 3/4 | 338.2 |
| 6 3/4 | 35.78 | | | | |

| Band Tension Loading (PSI) | |
|----------------------------|-----------------|
| Carbon Flex Back | 20, 000-25, 000 |
| Carbon Hard Back | 25, 000-30, 000 |
| Bi-Metal | 25,000-30,000 |
| Carbide Tipped | 28, 000-35, 000 |

Determining Band Length

1. Refer to the manual that came with your saw for the specified length.
2. Or, cut a used band, stretch it out and measure it.
3. Or, set the band wheel to the center of the tension bolt and measure length "C" and the radius of the wheel: $(2 \times C) + 2 \times \text{Radius} \times 3.14$ + blade length.
4. Or, measure the circumference + $(2 \times C)$ = blade length.

