

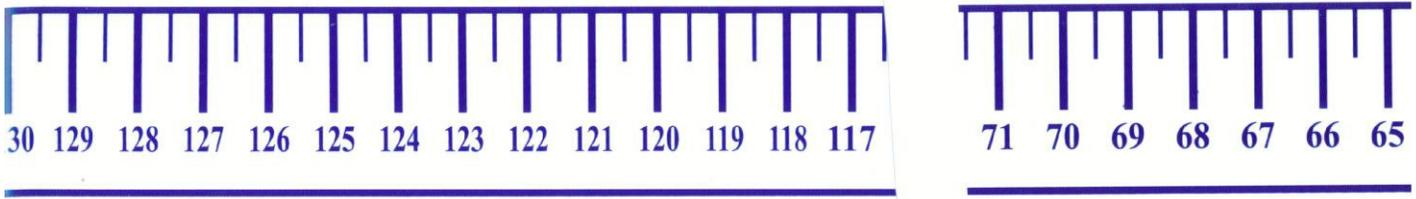
# BENDARC

## Scale Construction & Set-Up

If you need a calculating scale for your BENDARC, here's how to make one:

1. Get a thin, straight, piece of wood – 3 to 4 feet long, and number it from right to left. Start at the right end with the narrowest width bow you would ever bend – for most shops 60 to 65 inches. (see below)
2. Add a new number, moving to the left, every  $\frac{1}{2}$ ". (see below – the example below is not to scale) Continue numbering every  $\frac{1}{2}$ " left until you've completely numbered the board.
3. Coat the board with clear varnish or polyurethane to protect the scale and to keep it from warping.

**Metric users note:** Simply make your scale in centimeters instead of inches. You might start your scale at 160cm with a line every 2cm (representing 4cm) because you bend  $\frac{1}{2}$  then turn it around to bend the other half so your scale is  $\frac{1}{2}$  the normal length.



The scale uses  $\frac{1}{2}$  inch to represent each 1 inch of your finished bow.

**Here's how to calibrate your new scale to your BENDARC:**

1. Bend a piece of tubing exactly  $90^\circ$ . (straight down)
2. Have a partner hold the end of a tape measure on the outside (right) edge of the leg you just bent
3. Pull the tape measure to the left 50" and mark that spot.
4. Align the 100" point on your scale with the 50" mark you just made. (because you bend 50" and flip the bow around and bend another 50" to get a 100" wide bow) Mount the scale at that spot. (When you change forming block radius size, move the scale to align with the new radius block using this method)

This scale alignment is intended only for ARC instructions. Other bending methods may require a different scale alignment.