

Bowl from a board

Build the Board

The smaller of the length or width for your board will be the maximum diameter of the bowl you intend to build. A good rule of thumb is to build the board with a thickness between $\frac{3}{4}$ " and 1".

Design Bowl:

For a 6 ring bowl, draw a 6 layer stack as shown below in figure 1. Each layer should be exactly the thickness of the board. Select a center point for your design on bottom row. Draw a line from the top ring to the bottom ring. The intersection of the top ring and the line drawn will be the diameter of the top of the bowl and bottom intersection will be the base diameter. See figure 2.



Figure 1

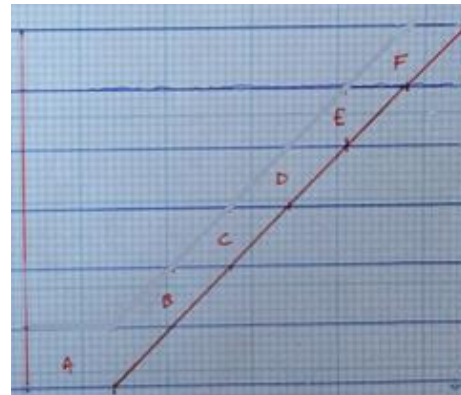


Figure 2

Using a ruler placed perpendicular to each row transfer the intersection line from the bottom of profile to top of that same row, repeat for each row. Connect inside profile using row intersection lines created in the last step; you will now see the wall thickness. See figure 3 and figure 4

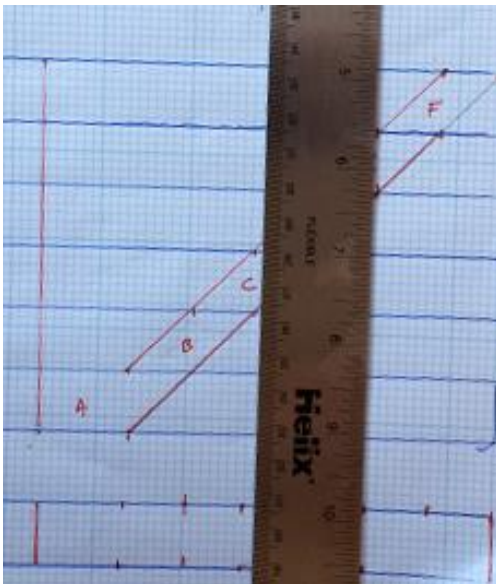


Figure 3

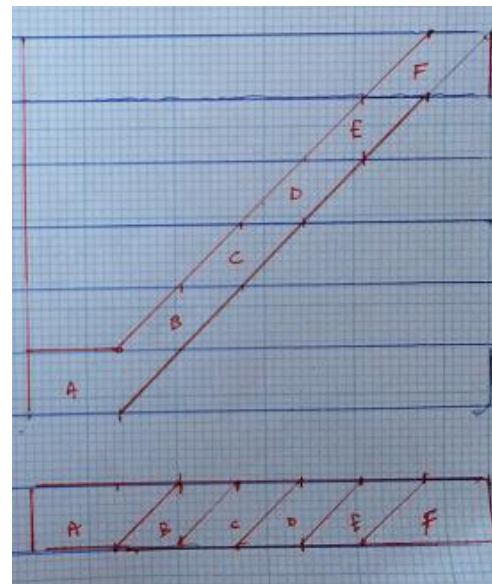


Figure 4

Place a compass to the radius of the bottom ring, then draw a circle on your square board from the center mark, draw a circle for each ring on the board, see figure 5, 6 and 7.

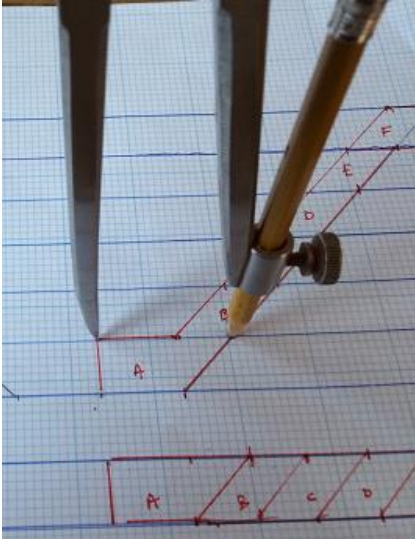


Figure 5



Figure 6

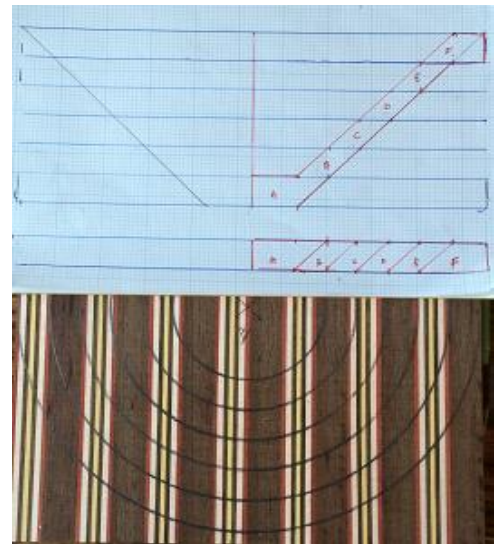


Figure 7

Next find the angle of bowl profile, see figure 8 and transfer angle to the scroll saw, see figure 9

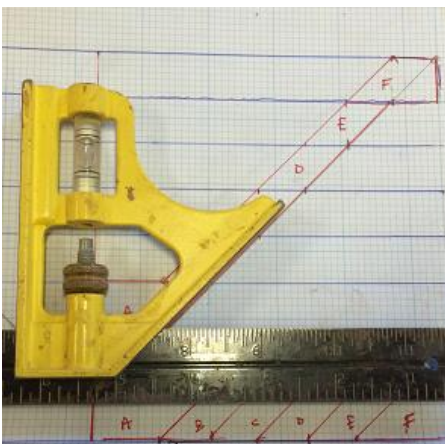


Figure 8

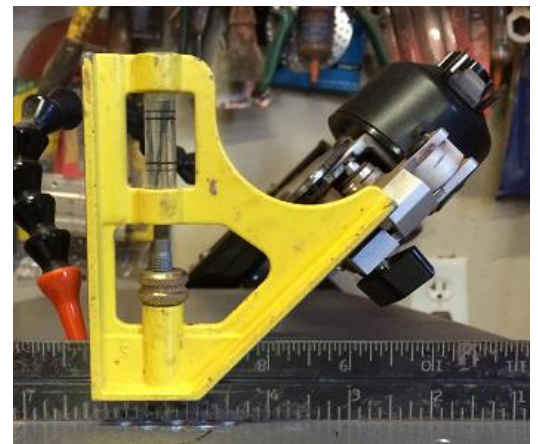


Figure 9

Next use the same angle as in figure 8 and 9, drill small hole for each row, see figure 10.

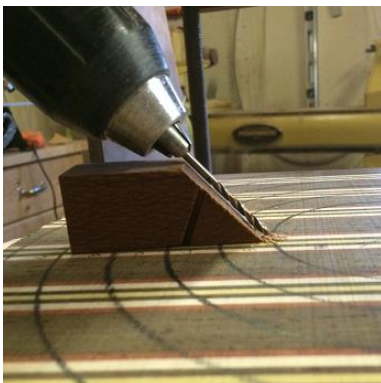


Figure 10

Cut the Rings:

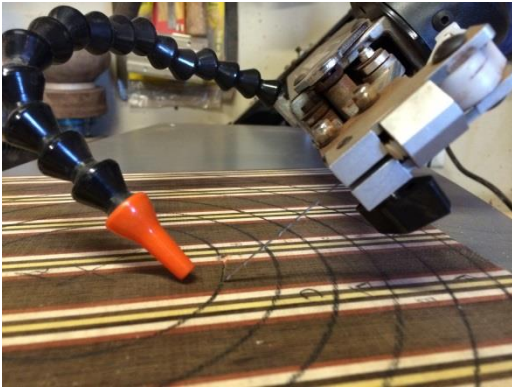


Figure 11



Figure 12

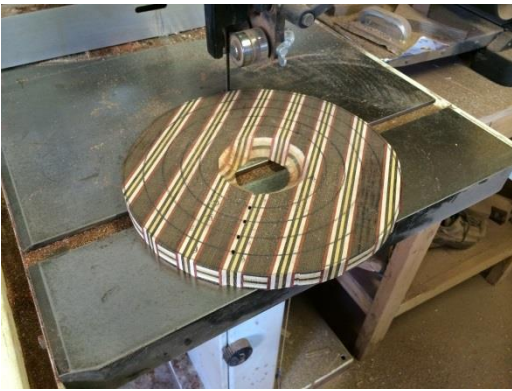


Figure 13

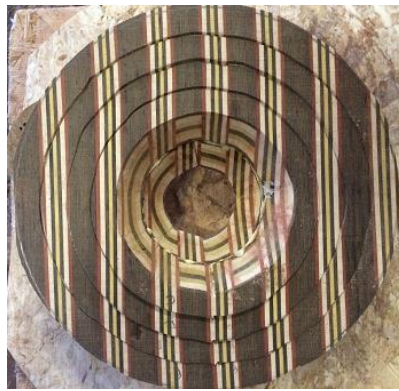


Figure 14

Glue and Stack Rings:

Glue ring 1 on to waste block, and for the rest align, glue and stack rings, see figure 15, 16 and 17



Figure 15



Figure 16



Figure 17

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