

Cassinger Segmented Circle Template

By following these simple instructions, this template will assist in the construction and glue-up of segmented rings.

Decide the diameter of your ring and choose either an 8 segmented or 16 segmented ring. The template is designed to assist in both sizes of segments. If your desired finished piece is to be a large piece, it is suggested you use the 16 side of the template and if you want a small piece, for example a 6" circle, use the template side with 8 segments. Listed here are instructions for a 6" ring with 8 segments.

Cut 8 segments using the dimensions and angle labeled on the template. To achieve the angle listed (45° or 22.5°) cut each end of each piece at half that angle. The lengths listed indicate the dimension of the longer side of the piece, from "A" to "C" on the illustration below. Remember to number your pieces 1 through 8 as you cut them.

When you have your pieces cut to the proper angle and length, simply lay them on the template lining up "A", "B", "C", & "D" (see illustration). No matter how carefully you saw, you will have to do some sanding, a disc sander works best. Make sure the pieces line up exactly on the lines.

When the #1 piece lines up properly, go to the #2 piece and sand it until it matches "A", "B", "C", & "D". Fit the sanded piece #1 together with the sanded piece #2 until there are absolutely no gaps. When #1 and #2 fit perfectly, use double-faced tape and tape the #2 piece to the template. Continue until you reach the #7 piece.

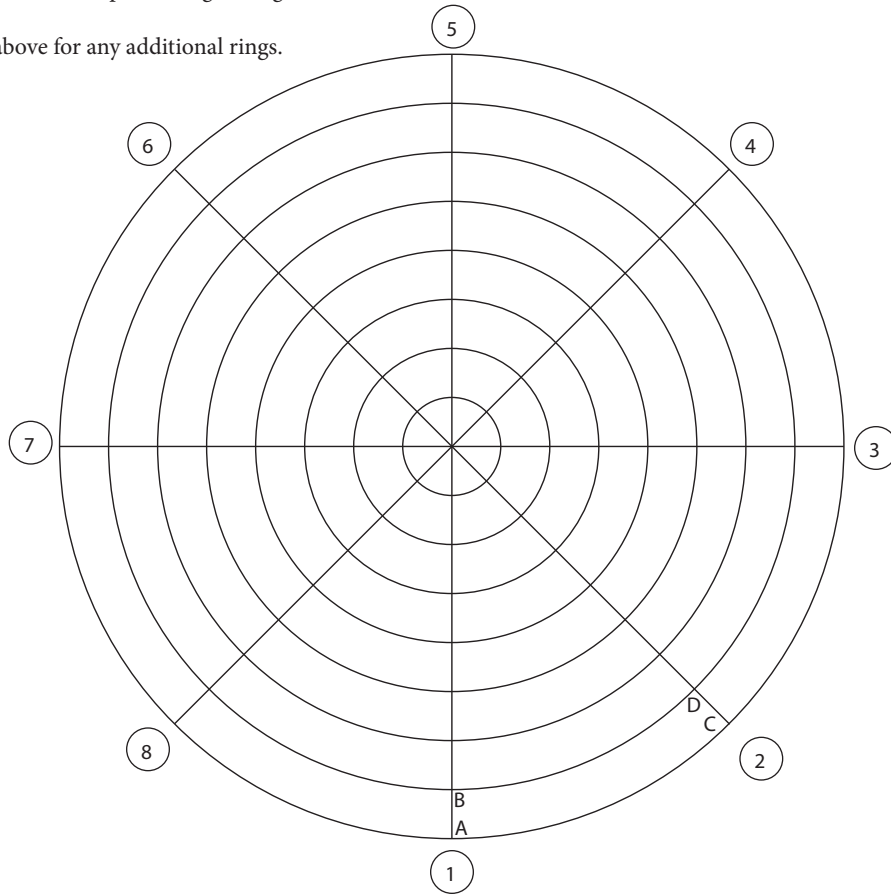
When you have 7 of the pieces taped to the template, it is now time to glue. Make sure you remove the pieces from the template and glue them in the sequence that you sanded and taped them to the template.

When the 7 pieces are glued into a ring, place the ring back on the template to make sure it is lined up perfectly. Now, it is time to sand the #8 piece to fit into the circle.

When completely glued, simply lay your glued ring on the template. Place a compass on the center point of the template and draw a 6" circle on your ring. Then round the outside edges by sanding to the mark you have made with your compass.

Once that is complete, run the completed ring through a drum sander.

Continue as described above for any additional rings.



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