

## Specifications

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- Manufactured and assembled to the tolerances indicated in the drawings
- Thickness of silver needs to suit chosen design and ensure robust construction for regular and sustained wear
- Drawings of the ring shank allow for chosen thickness of metal and required size of finished ring
- Size, shape and variety of cabochon stone identified
- Length and height of bezel calculated using given formula allowing stone to fit securely when set
- Required surface finish is achieved on shank and bezel, eg matte, satin, shiny

## Development of construction plan. to make a Cabochon Ring

1. gather required materials.
2. Cabochon. silver shank  
silver bezel.
3. make bezel to required size to fit cabochon.
4. make shank to required size of ring size.
5. solder + fit the bezel to shank.
6. fit cabochon + set.
7. Sand + polish ring.

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## Testing

- Ring shank soldered using hard solder
- Solder joints are accurate with sufficient solder to withstand expected use

After a pickle using medium solder, with flux, on inside of bezel to small pieces evenly spaced. Heating with gas the shank and ti to allow solder to flow.

This needs to be checked that it is continuous solder with no gaps is strong.

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Sanding at this stage is needed to finish off the ring

Journal

Monday 20 February Also look at [artclaynz.com](http://artclaynz.com). Grant from Fruitful Endeavours will come end of April/May.

Had been to Hettie's with the boys at the weekend, and bought 3 cabochons: a Labradorite (7x7mm), a blue moonstone (9x7mm) and a green aventurine (8x10mm).

Thursday 23 Feb.

Started to make the bezel for the stone. Formula for bezel

$$\begin{aligned}
 & \text{width} + \text{breadth of stone} \div 2 \\
 & 7 + 7 \text{ mm (14)} \div 2 \\
 & = 7 \text{ mm} \times \pi \text{ (approx 3.14...)} \\
 & = 21.98 \text{ then add 2mm as for ring} \\
 & = 23.98 \approx 24 \text{ mm}
 \end{aligned}$$

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Height 5mm

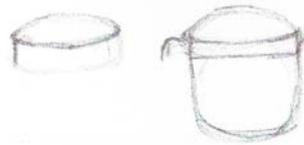
When I cut mine I don't think I could have added the extra 2mm, because it was too small and had to stretched by hammering

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Thursday 1 March

WORKING DRAWINGS.

actual shank used for Ring.



This is to fit P2 size ring.

by 1mm thick. stg.

Bezel for Ring.



by 5mm thick. stg.

This includes 2mm for tolerance.

Monday 5 March Stone got wedged at one point - be careful - file inside bezel.



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Evaluation

Finishing as I used a non precious stone and to give it a worn look I used the lime sulphur to darkening the texturing.

The photos show a somewhat non smooth bezel setting. not to pleased about. This could be improved with the chisel.

I am pleased with the ring. like wearing it. The design I feel suits the cabochons. Which is just a simple stone off the beach.

I have written down my process + how I made the ring. hopefully I will be able to include the other require ments separately.