

## SMALL PIPE REEDS WORKSHOP - NOTES

Materials: Brass tubing for staples 5.26mm OD

Yoghurt cup plastic – there may be a triangle with a "6" in it on the bottom. (Müller reis)

Other types may work as well

Tying in cord or multiple strands of dental floss

Dimensions

Blades\*\*

To be cut as per the profile of original Blades from Workshop

Staples: \*\*

There is only one length for all Keys

Acceptable Tolerance of the Staple length is 24.8 mm to 25mm

It would be beneficial to make a Mandrel/ \*\*Former from a Steel Nail or Pin. Create this by filing to Shape and create the required Oval Shape

- 1) Cut blades as required to correct profile, lightly sand long edges to ensure that they are smooth after cutting to shape. Use a stanley knife or similar to cut the blades out.
- 2) Place both blades together and secure with (dental-)elastic band and squeeze and \*\*crease slightly at angle end to help shape the sound box.
- 3) Insert Staple into angle ends and secure by tying the blades to the staple \*\* Must be VERY TIGHT\*\* check overall lengths to suit Key of A- Bb - C or D

4) Leave Blades Overnight **\*\*IMPORTANT\*\***

5) Final finished Tied lengths of blades and Staple is:

\*\*For key of A = 47.7mm

\*\*For key of Bb = 48mm

\*\*For key of C = 48mm

\*\*For key of D = 48mm

6) Sand the blades approximately 12mm/14mm from Blown end of reed blades using 180 grit sandingpaper.

Check dimensions throughout this process and that the tying string is still tight

Also check the position of the Elastic Band is above the Staple by approximately 3mm

7) Hold Blades securely and Wrap the blades with PTFE "Gas Tape" ensuring that the edges are sealed .

8) Check overall dimensions to suit the Key required, also Blow through the reed and more Sanding will be required until the reed produces a clear pitch,

9) Check the reed in a Chanter and alter the PTFE Tape to adjust the final pitch  
Move the tape 0.5- 1 mm \*\*Up the blades if pitch is Flat or \*\*Down if sharp.

10) When Mouth blowing you will always create a slightly sharper pitch so if chanter is D + 20% then try it in your Pipes and it should be D

There will be small interval variations, and this can be corrected by Taping the affected notes.