

Face Shield Fabrication

Materials

Plastic

Material: 0.01" Thick clear PET Film

*Almost any clear flexible material will work

Source: <https://www.mcmaster.com/8567K92>

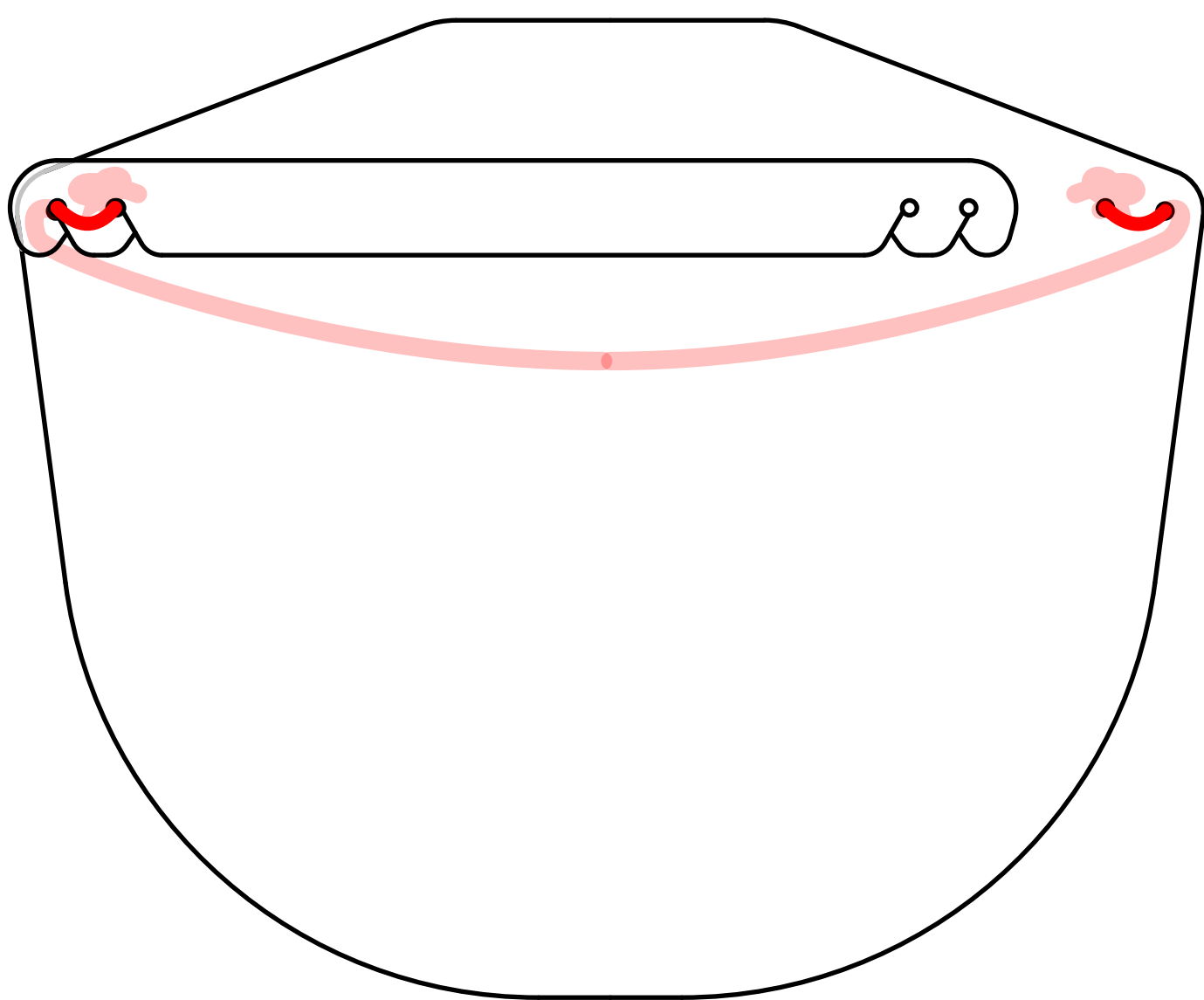
Part: Shield and Headband

Elastic

Material: 3/8" or 1/2" wide elastic band

Source: <https://www.joann.com/pellon-1%2F2in--x-144yd-spool--knit-elastic-white/15035058.html>

Part: Elastic strap

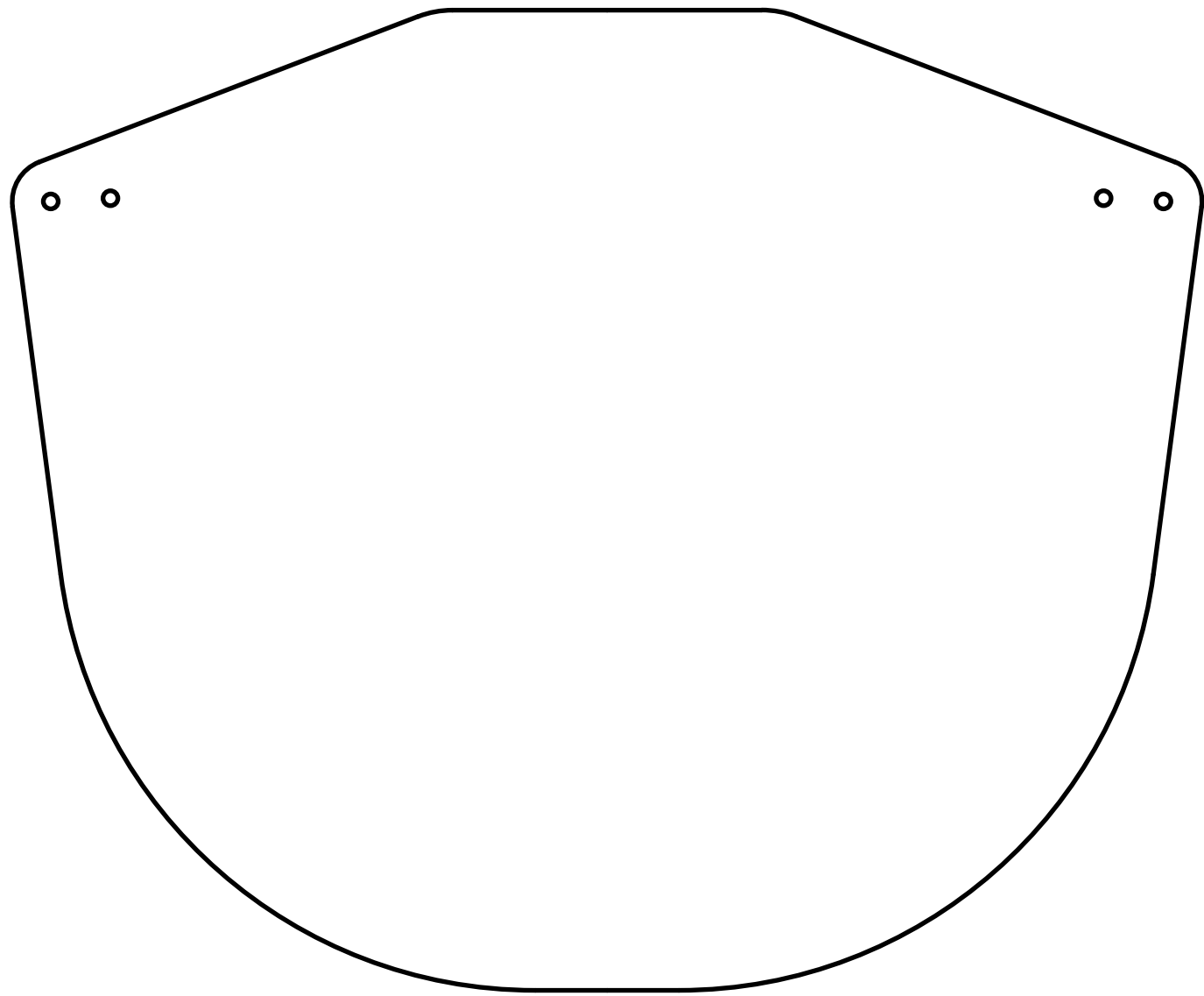


Shipping

The face shield is designed to be flat packed it should look like this when complete. The final step in assembly is completed on site when it is ready to be worn.

We recommend shipping the shields in a protective bag during shipping to keep them sterile and separating the shields with paper to keep them from scuffing.

Face Shield Fabrication



1. Cut Plastic

Cut face shield and headband shapes using the cut file patterns linked below. Two shields can be cut from 12x24, as part is tapered.

Cut Files:

<https://bit.ly/shieldcutfile>

<https://bit.ly/3agdvEP>

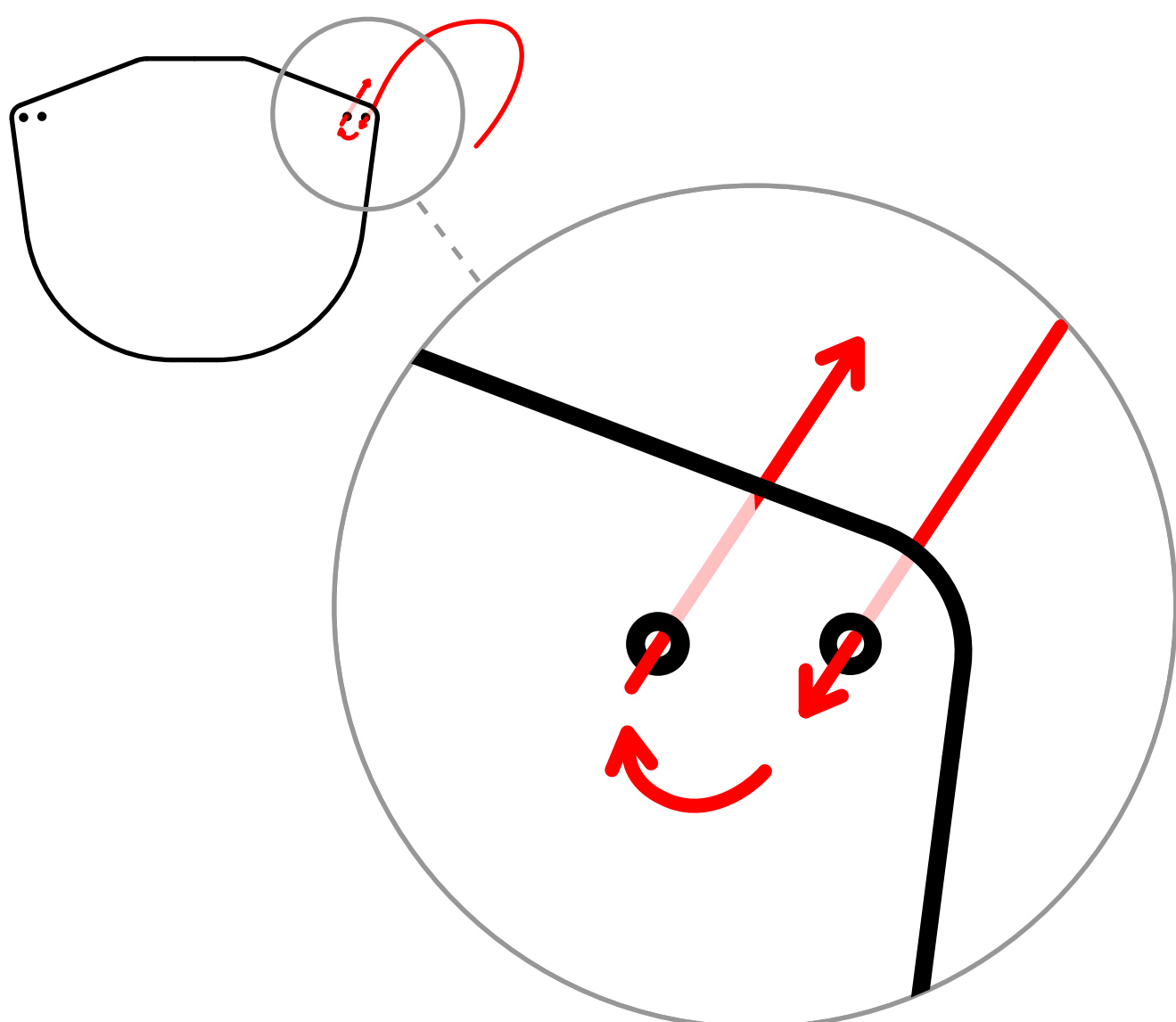
**Can be cut using almost any flat material fabrication equipment: laser cutters, rule dies, drag knife, cnc punch, or even scissors and an office hole punch.*

2. Cut Elastic

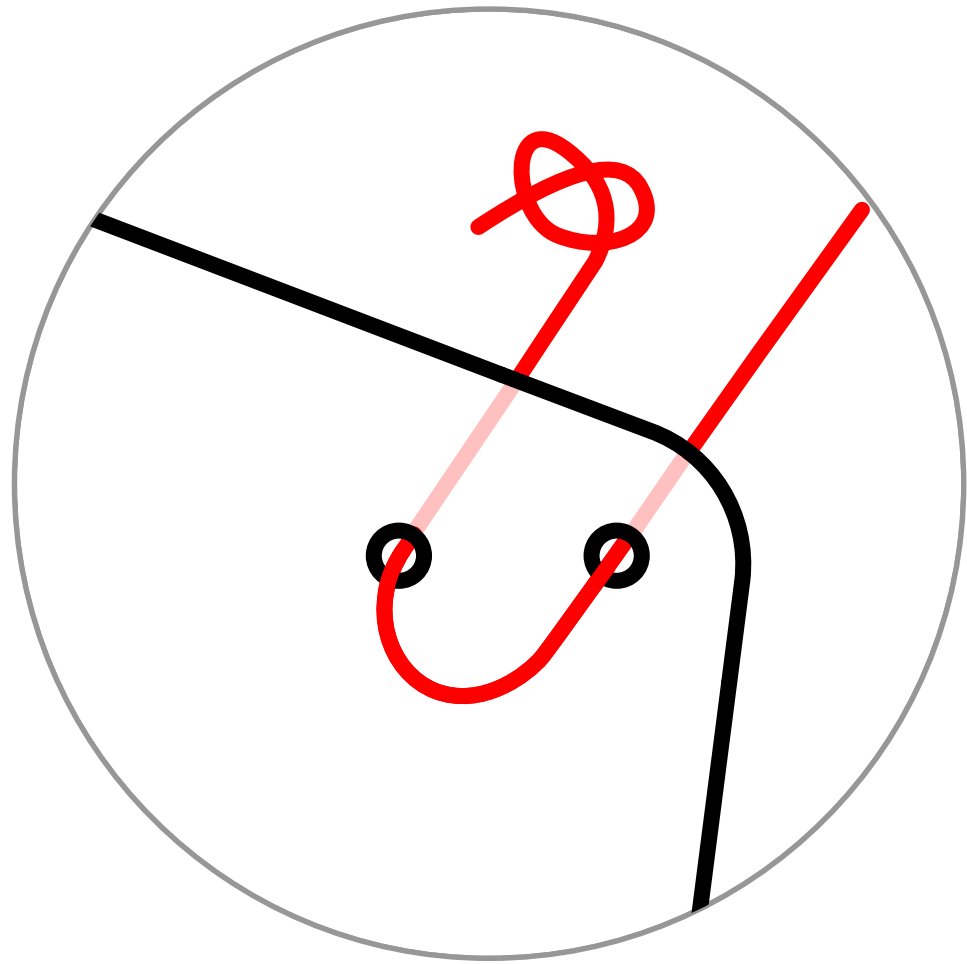
Measure and cut 16 inches of elastic. Cut ends on a 45 degree angle.

3. Feed Elastic

Feed the elastic strap through the outer hole then through the inner hole back out.

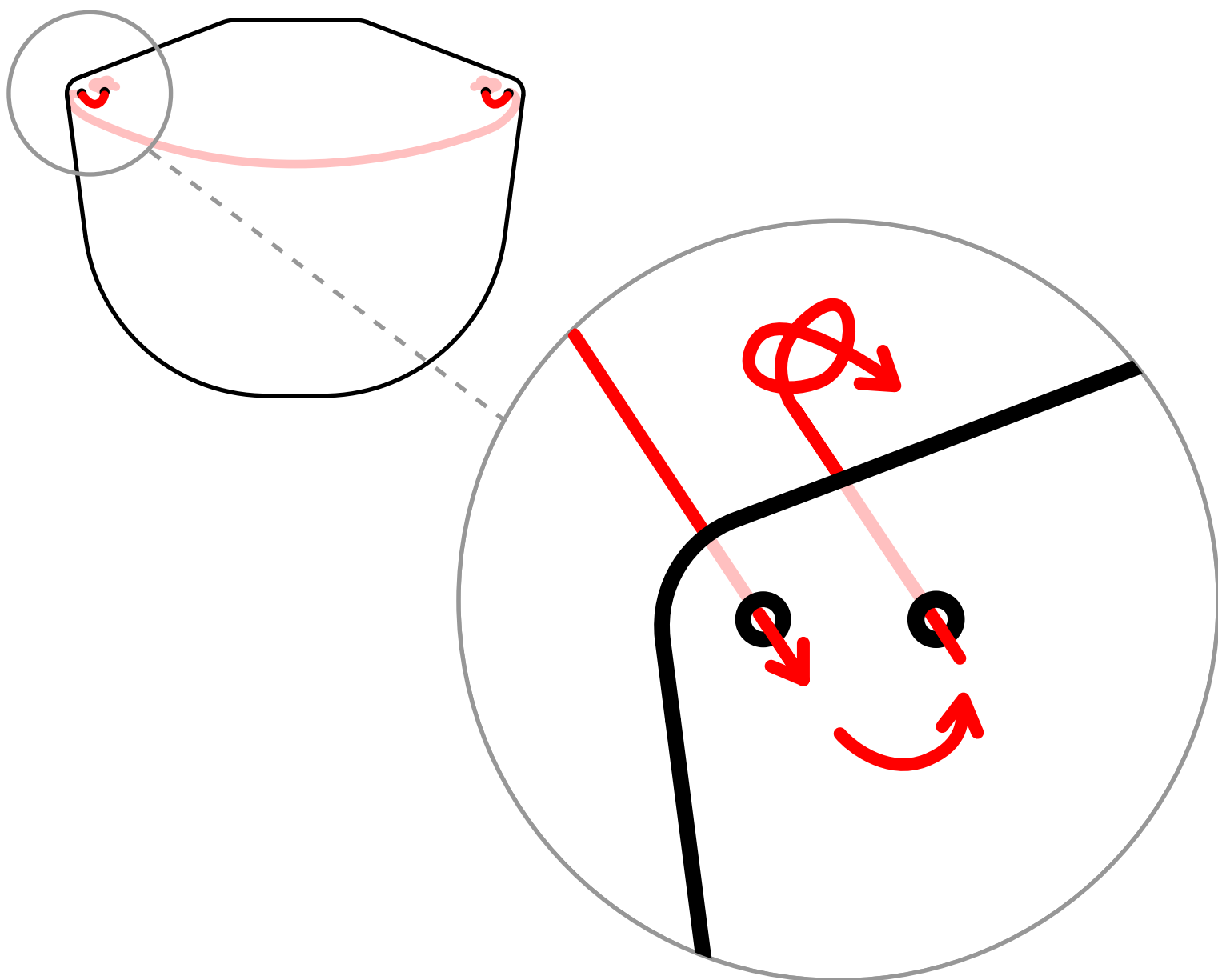


Face Shield Fabrication



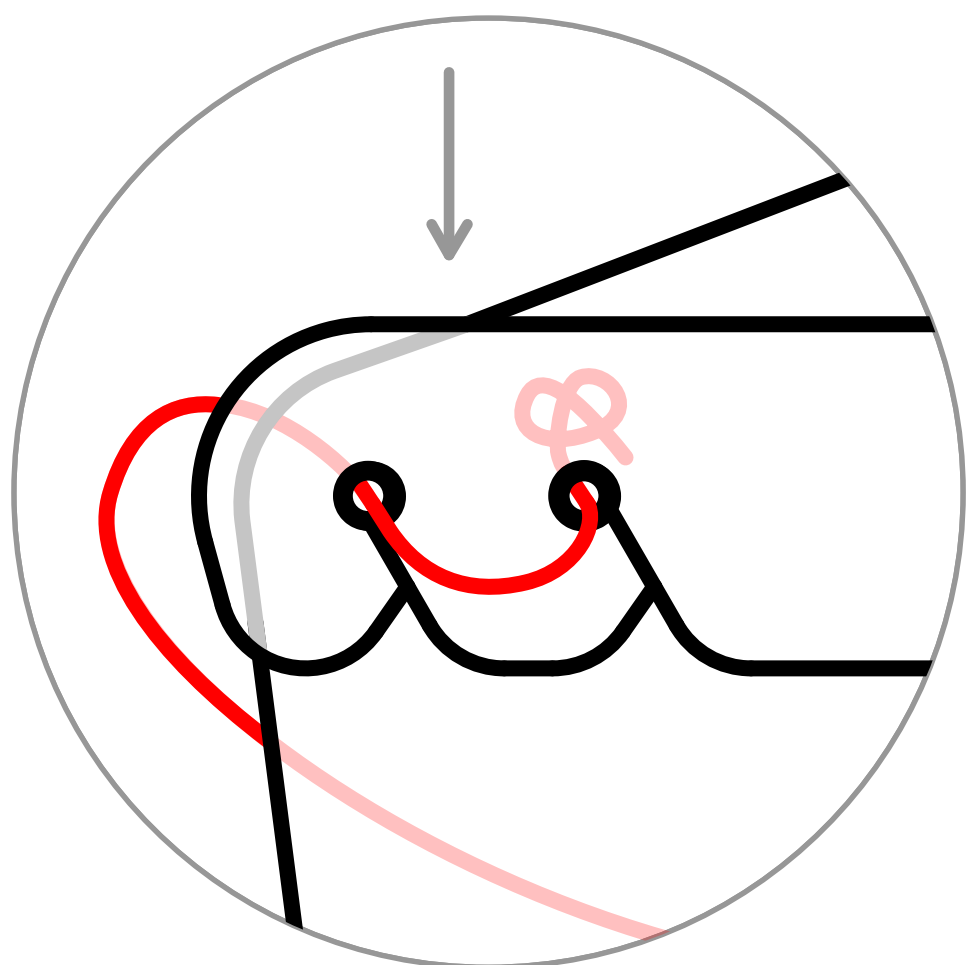
4. Knot Elastic

With the elastic fed through both holes create a knot on the short end of the elastic to secure it. Tie the knot as close to the end of the elastic as possible.



5. Feed + Knot Elastic

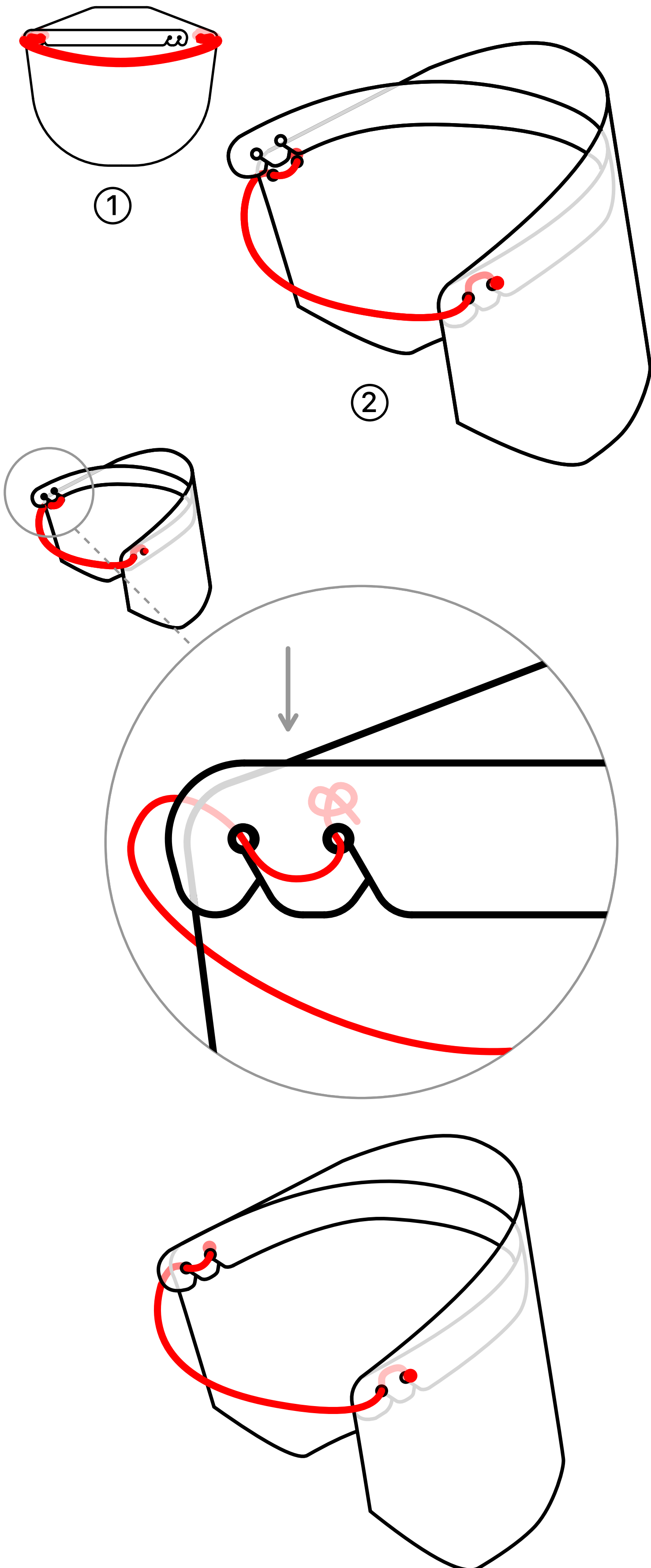
Repeat steps 3 and 4 on the holes on other side of the shield. Making sure to tie both knots on the outside of the shield.



6. Attach Headband

With slits facing down, slide the middle tab on one end of the headband through the elastic loop on the inside of the shield.

Face Shield Assembly



1. Curve Face Shield

The face shield will arrive flat with one end of the headband attached as pictured in image 1. Curve the plastic face shield and headband holding the loose end of the shield and headband together as pictured in image 2.

2. Attach Headband

With slits facing down, slide the middle tab on one end of the headband through the elastic loop on the inside of the shield.

3. Ready

Face shield should look like this when ready to wear. Slip mask over your head with elastic in the back and headband against the forehead.