

HAPPYSHIELD

Manual Creasing: Straight Line Method



CENTRE FOR
NATURAL
MATERIAL
INNOVATION

<https://happyshield.github.io>

Headband

Elastic Strap
(20-30x350)mm

Strap Holder

Transparent Plastic sheet
(30x33x0.5) mm

Shield

Transparent Plastic sheet
(297x315x0.5) mm

Second fold

First fold

Flat



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

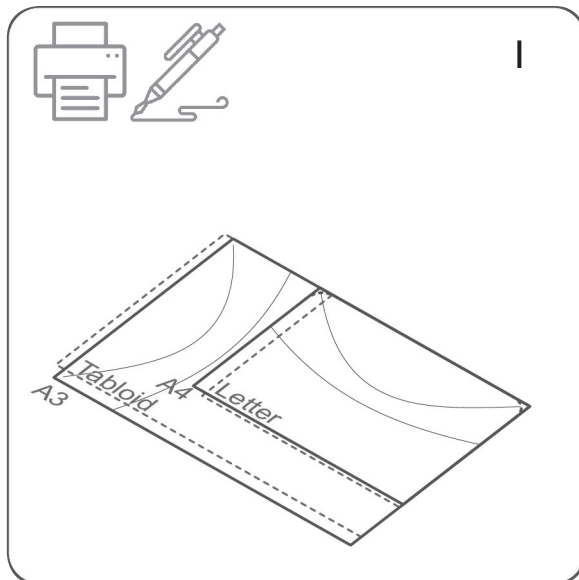
CREATE CHANGE



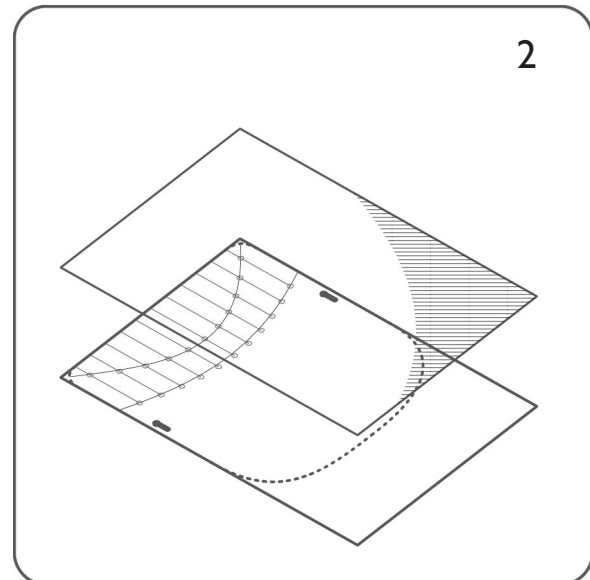
UNIVERSITY OF
CAMBRIDGE
Department of Architecture



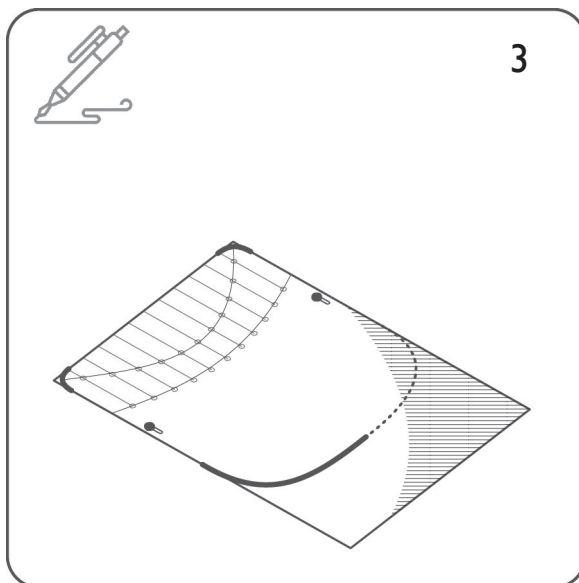
<https://happysield.github.io>



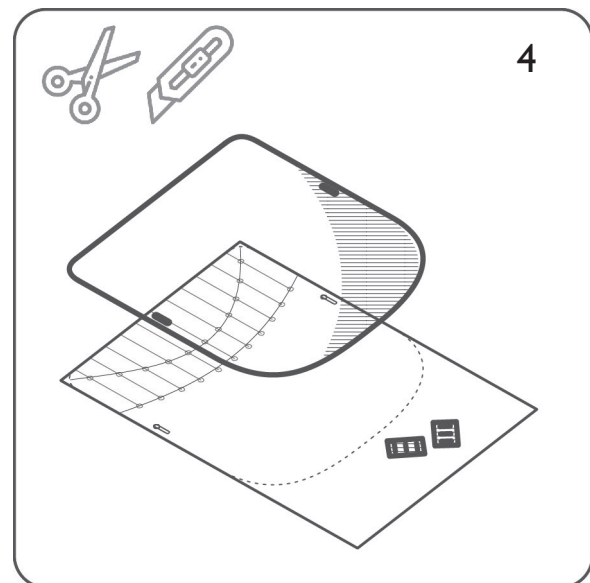
Download your tracing template format (A4 for A3 shields, Letter for Tabloid shields). If you do not have access to printers, you can draw your own template. Our tracing templates have dimensions!



Place your transparent sheet on the template. Mark the holes' location with a ballpoint pen. Don't worry about the ink, it can be removed with a cloth dampened with alcohol.



Mark the strap holders and the lower and upper round corners for cutting.

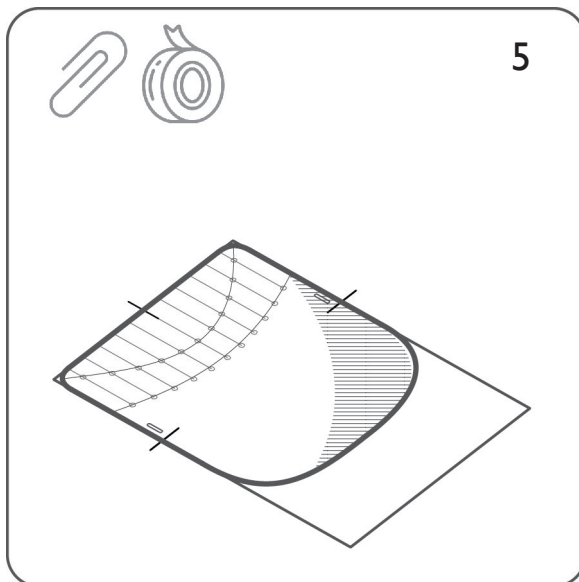


With scissors or a cutter trim the corners. Cut the strap holders and make the holes. You can use a paper puncher if you have.

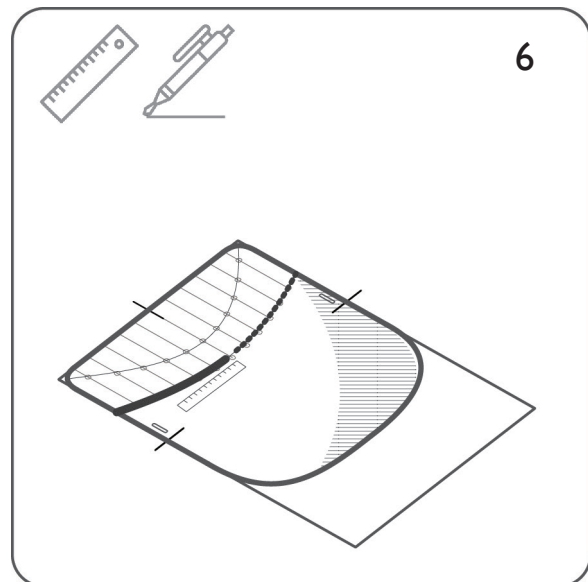
Now, let's score a smile on that face!



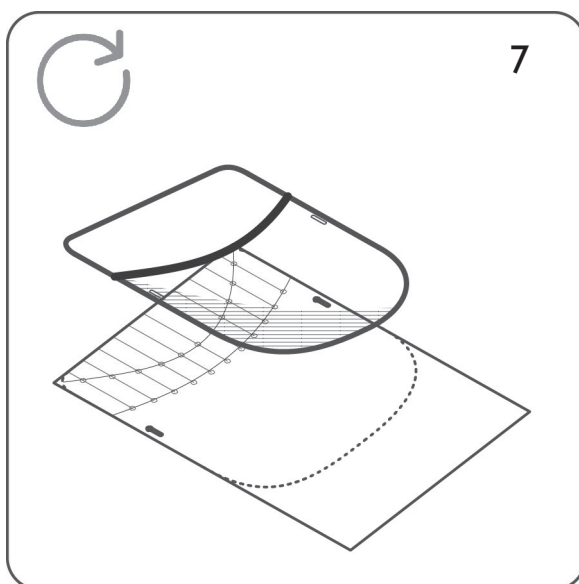
<https://happysield.github.io>



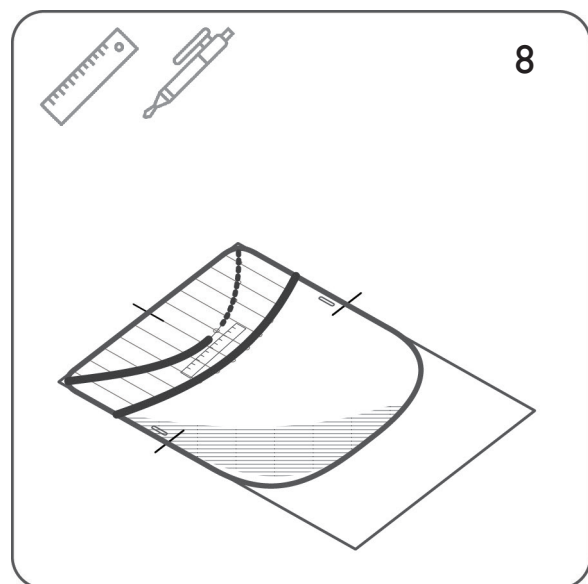
Place your transparent sheet on the template. Fix with clips or tape for precise tracing.



With a ruler and the ballpoint pen, trace the straight segments of the first curve with multiple strokes until scored.



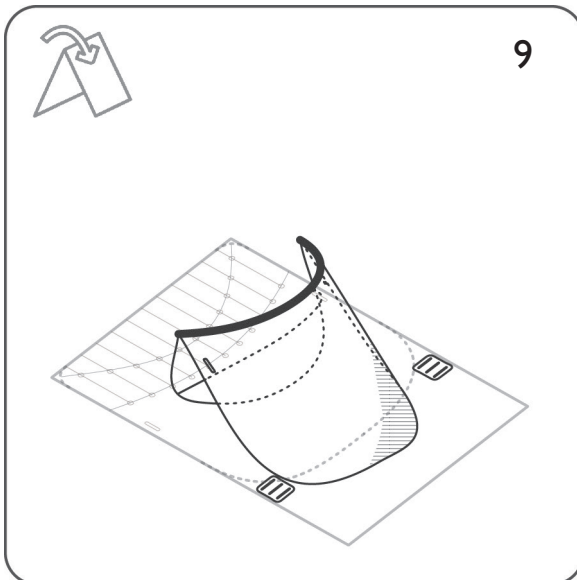
Flip the transparent sheet. Fix the sheet and the template again



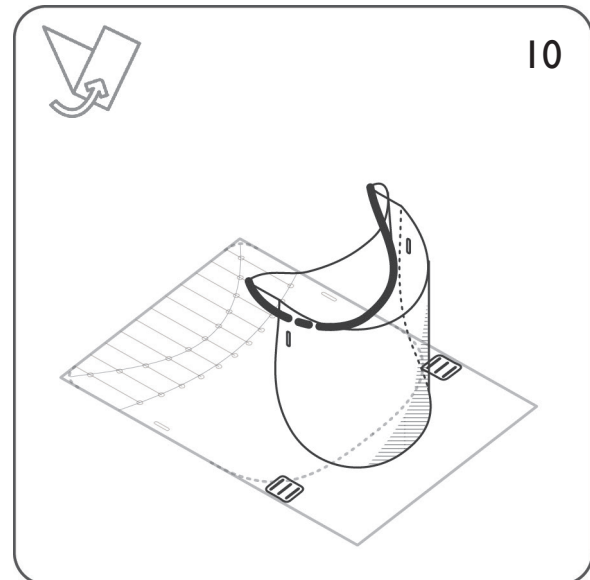
Trace the second curve with the ruler and the pen



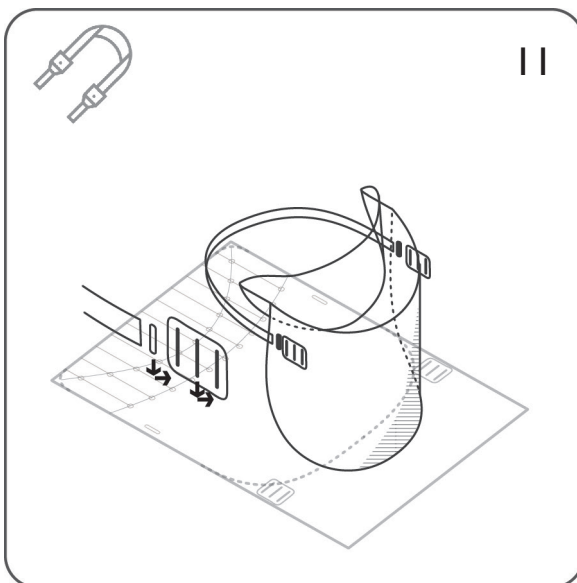
<https://happyshield.github.io>



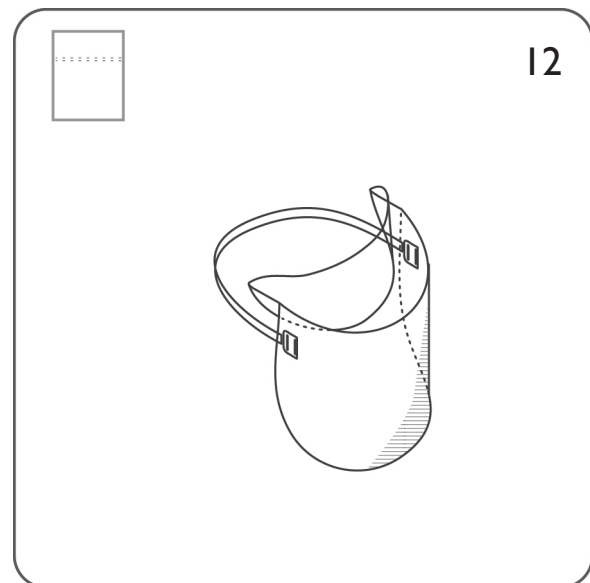
To fold the first curve, start with one corner, if some segments do not fold, score again with the pen and ruler.



Fold the second curve.



Fix the strap using the holders you cut from the template.



Clean and use. Clean and place in zip bag for shipping