Do-It-Yourself Cone Shaped Lampshade

**The Shape of Your Shade**
- choose two rings (one will hold the mount fitting) with diameters of \( d \) and \( D \) and determine the height \( h \) of the shade you want
- draw a sectional profile / side view \( \Delta \)
- determine the vertex by extending the legs of the isosceles trapezium formed by the figure \( d, D \) and \( h \) until the lines meet
- measure the length \( K \), calculate angle \( \alpha \) then draw a line the length of \( K \) starting at \( S \) so it forms the calculated angle in relation to the line formed by the extended leg
- draw two circular arcs around the centre point \( S \) starting at the corners on the right side of the sectional profile

**Lampshade Film**
- transfer the above pattern onto the self-adhesive lampshade film
- increase the size of the pattern on one side of the arc for overlapping purposes
- cut out the resulting pattern

**Lampshade Material**
- Press your lampshade material (paper, fabric, etc.) onto the cut out piece of self-adhesive film
- Allow extra material to serve as an overlap on the top and bottom arc and on one side. Once you have cut out this somewhat larger pattern, small triangular cuts should be made in the material that overlaps the arc and the overlapping material on the side should be wrapped around the film and glued into place

**Assembly**
- Fold the lampshade film into a cone shape and glue the overlapping ends together
- place rings into position and secure them by wrapping the overlapping flaps of material around each ring and gluing them