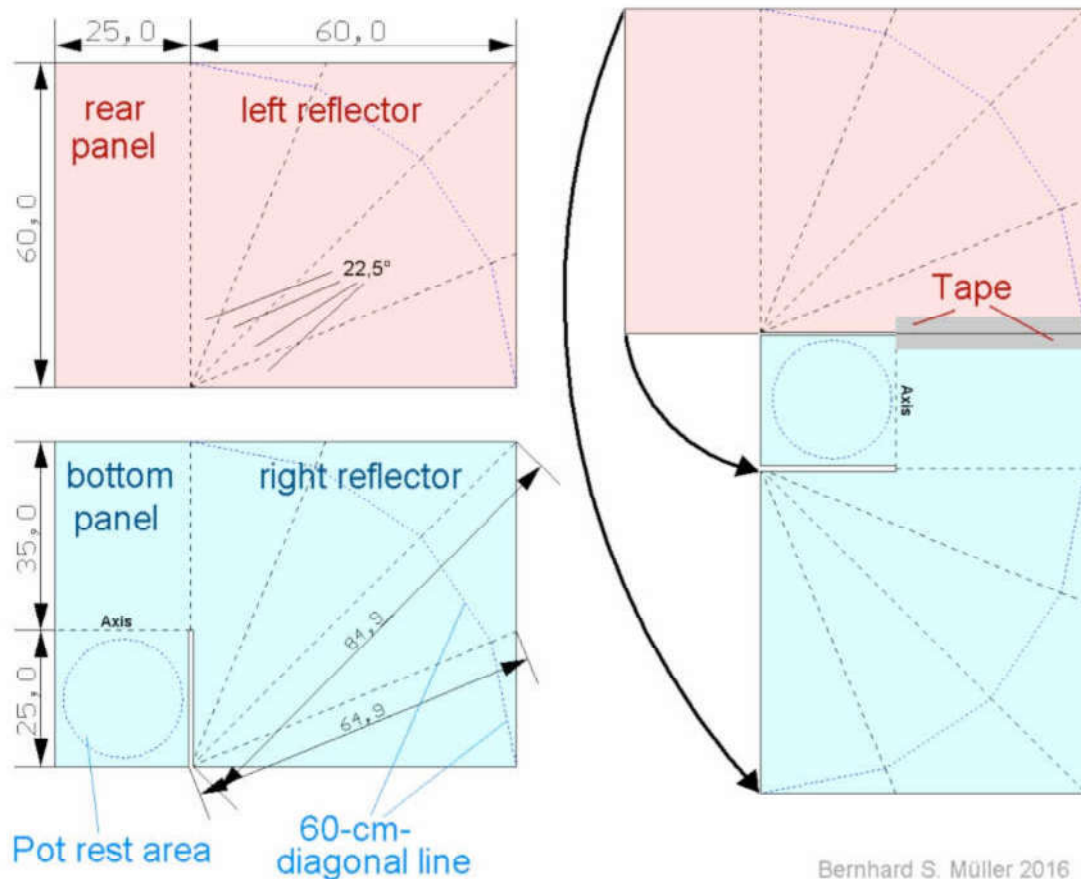


Construction and understanding

When you set up a funnel cooker for the first time, it may appear cumbersome. But with some practice, usually after the second or third time, you will find it easy.

The materials you need to build a funnel cooker are:

- 2 cardboard or polypropylene (PP) sheets of 85 cm x 60 cm
- 2 reflective sheets of the same size, like aluminium, Mylar, S-ReflecT or similar
- 95 cm of rigid textile reinforced tape to connect both halves
- glue (or double-sided adhesive tape) to stick the reflective sheets onto the cardboard or PP.



Sketch 1: Cut two sheets of 85 x 60 cm as shown above. Press notches along the dotted lines for easy and precise folding of cardboard and reflector. One of the sheets needs additional notches at the "axis" so the funnel cooker can be tilted according to the elevation of the sun during operation. Glue the reflective material on the cardboard first. Then join both halves together with strong tape for durable use. The cardboard structure will follow your movements automatically, provided the notches are in a straight line and deep enough.

Carefully press or scratch the notches with a blunt piece of metal, e.g. a spoon. Do not use scissors or knives as they may damage the material! The notches need to be completely straight. Therefore you should use a ruler or a similar item. The angles between the notches should be exactly 22.5°.

There are many ways to obtain an angle of 22.5°, which is half of 45°. An example is shown in Sketch 3: Draw the "60 cm diagonal line" on your cardboard and draw marks for the notches every 23.4 cm. (Please feel free to proceed your own way if you prefer a different method.)