

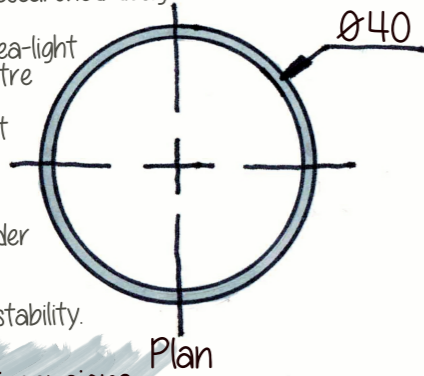
Tea-Light

Design and manufacture a tea-light candle stand. It must hold one candle safely. It doesn't need a secondary function.

The aesthetics must be based upon a researched design-movement.

The tea-light candle holder will be manufactured from a sheet metal. Sheet metal is light, easy to cut, shape, fold and finish. The holder can be made from:

The standard tea-light is 40mm diameter and 20mm tall. It weighs about 60grams. The sizes are important for making the holder component. The weight is important for stability.



Tea-light dimensions



The base of the holder needs to be large enough to hold a single standard-tea-light.

There are small folded features to prevent the tea-light from falling off the holder.

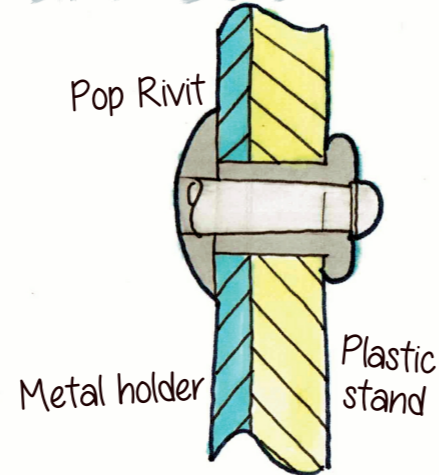
There is a potential safety issue with the folded components.

The holder component needs to have a suitable finish. This could be:

Folded holder component

Joining metal to plastic

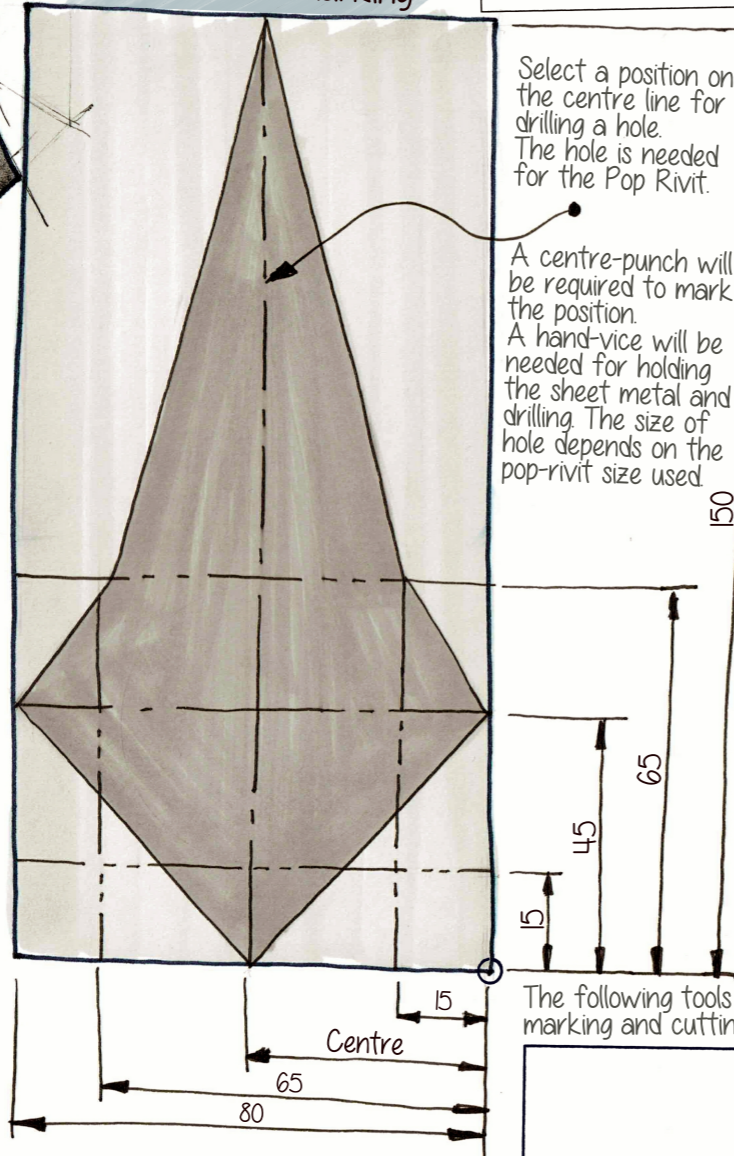
Plastic stand concepts



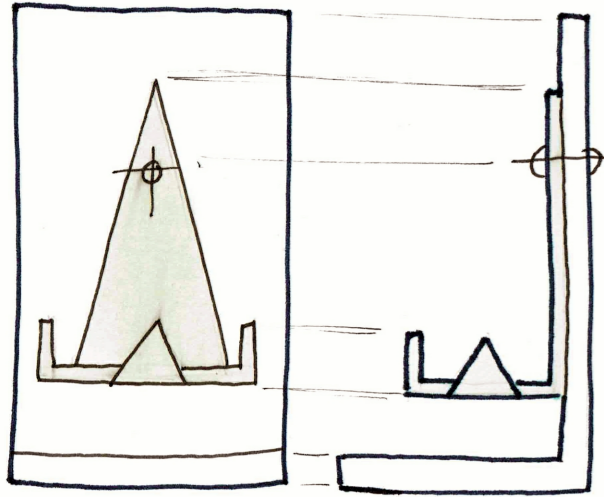
Partial Section

The metal and plastic components need to be joined together. They will be joined using a Pop Rivit. The metal and plastic could also be joined together using:

Sheet metal marking



The following tools will be required for marking and cutting the sheet metal:



Elevation

End Elevation

The base component must be stable and not fall-over; this could be a fire-hazard.

The base-component will be made from a thermoplastic, so it can be folded. A [] will be used to heat the plastic and fold it.