



# Pot Noodle Holder - Measurement Sheet

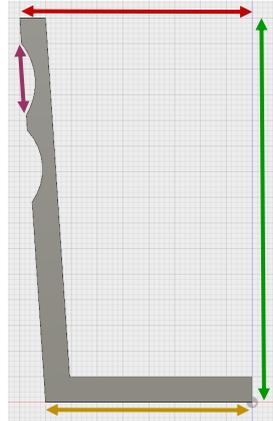
## Fusion 360 Tutorial



Use this handout to help you calculate and record the dimensions of your pot noodle holder. Don't forget to use the callipers to help you get really accurate measurements.

You will make a side profile sketch similar to this in Fusion 360 which will then be revolved 360° in order to make the pot noodle holder. To create this sketch the following dimensions must be considered:

- (1) Radius of the base
- (2) Height of holder
- (3) Radius of the top rim
- (4) Length and position of grip indents

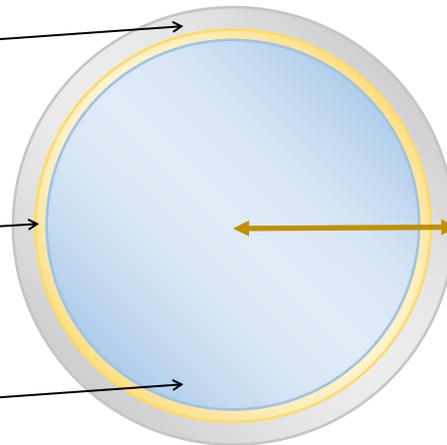


### (1) Radius of the Base

**A.** The thickness of the holder needs to be **5mm** to insulate your hand from the hot pot noodle.

**B.** The gap between the edge of the pot and the holder needs to be **2.5mm all the way round.**

**C.** Diameter of the pot noodle base = \_\_\_\_\_ mm



Calculate what the total diameter of the base of the holder needs to be:

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \text{ mm}$$

Therefore what should the base radius of the holder be?

\_\_\_\_\_ mm

### (2) Height of Holder

**D.** Decide how high up the pot noodle you want your holder to reach.

Mark it with a pen and measure the height from the base to your mark.

What is the height of your holder? Remember to add the depth of the base of the holder.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \text{ mm}$$

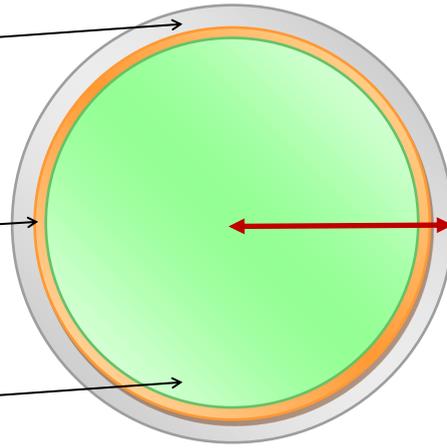


### (3) Radius of the Top Rim

E. The thickness of the holder wall is the same as **A**.

F. The gap between the edge of the pot and the holder is the same as **B**.

G. Measure the diameter of the pot noodle at your marker you made: \_\_\_\_\_ mm



Calculate what the total diameter of the top rim of the holder needs to be:

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \text{ mm}$$

Therefore what should the top rim radius of the holder be?

mm

### (4) Length and Position of Grip Indents



H. You could add two indents to help you grip the holder better.

How far from the top of your holder will you have your first indent?  mm

How long will you have your indents? Consider the thickness of your fingers.  mm

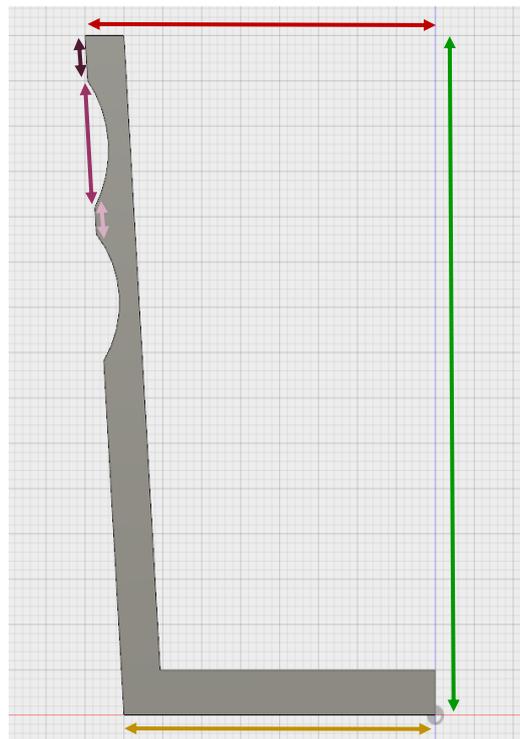
Also think about what the distance between two indents will be?  mm

Use the diagram below to write all your measurements on in order to help you with your CAD drawing

Distance from rim to first indent:  mm

Length of indents:  mm

Distance between indents:  mm



Radius of the top rim:  mm

Height of holder:  mm

Radius of the base:  mm