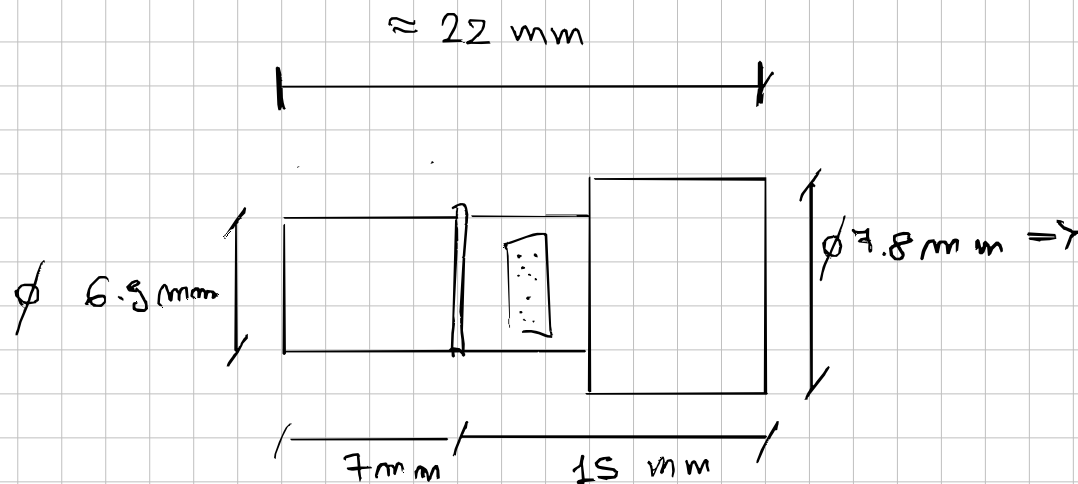


# MICROPHONE DIMENSIONS



we need  
a 8mm  
cavity  
diameter  
for mic

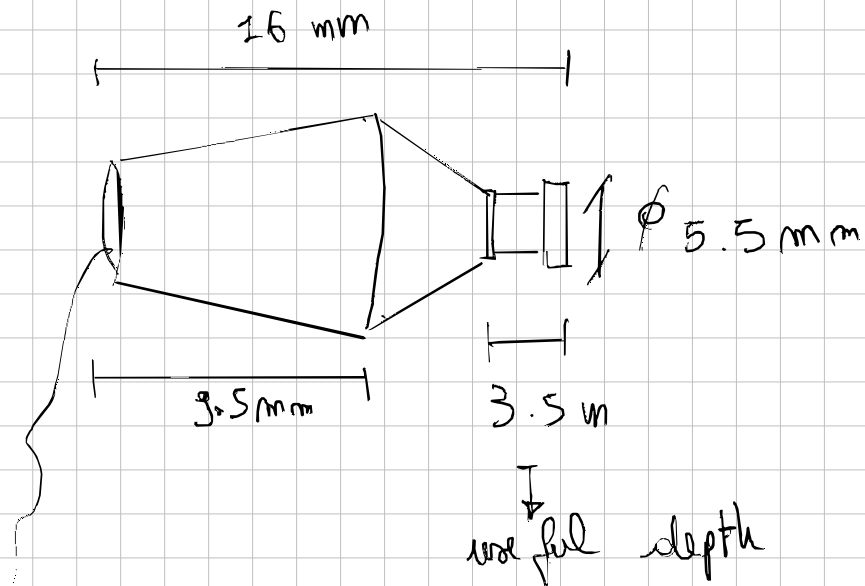
↓  
OUTER  
PART

↓  
this  
has not  
to be  
glued, but  
it is left  
outside of  
the cavity  
in case of removal

INNER  
PART

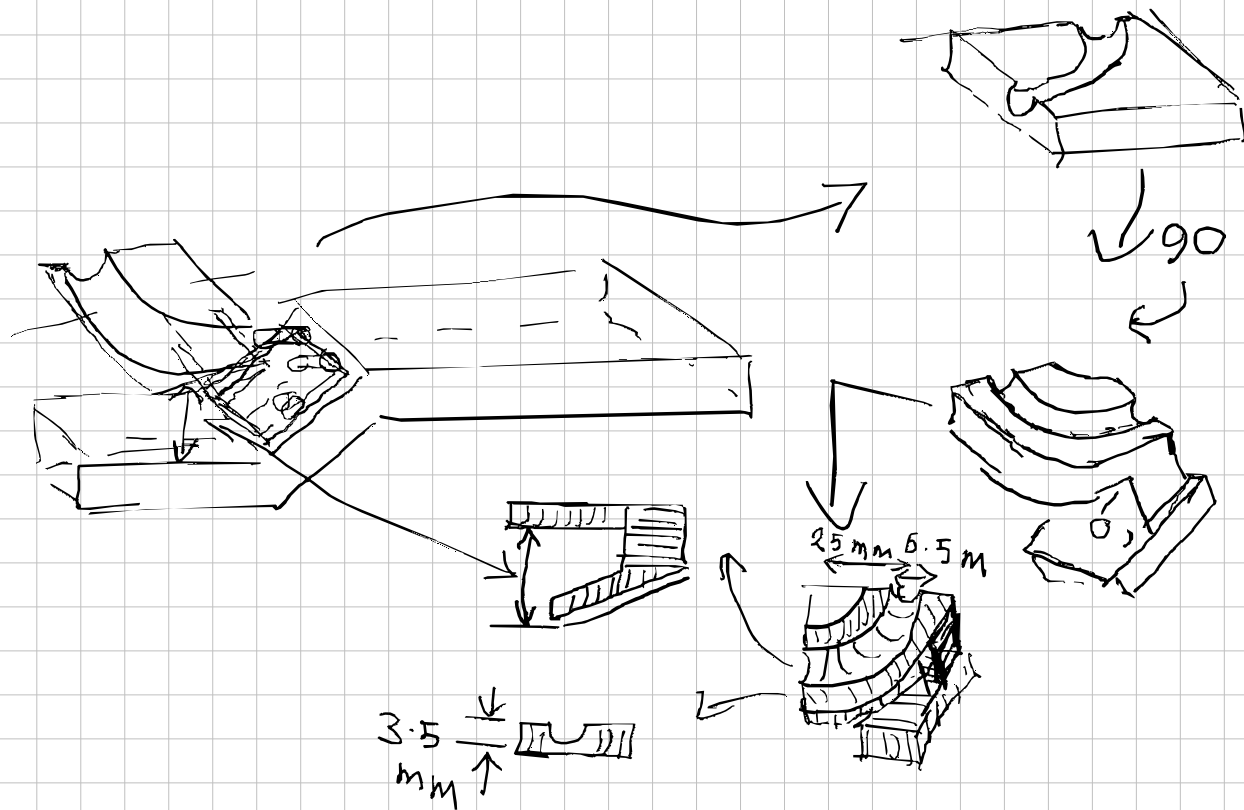
↓  
this has to  
be inserted  
completely into  
the cavity  
to receive  
the sound  
wave

# SPEAKER DIMENSIONS

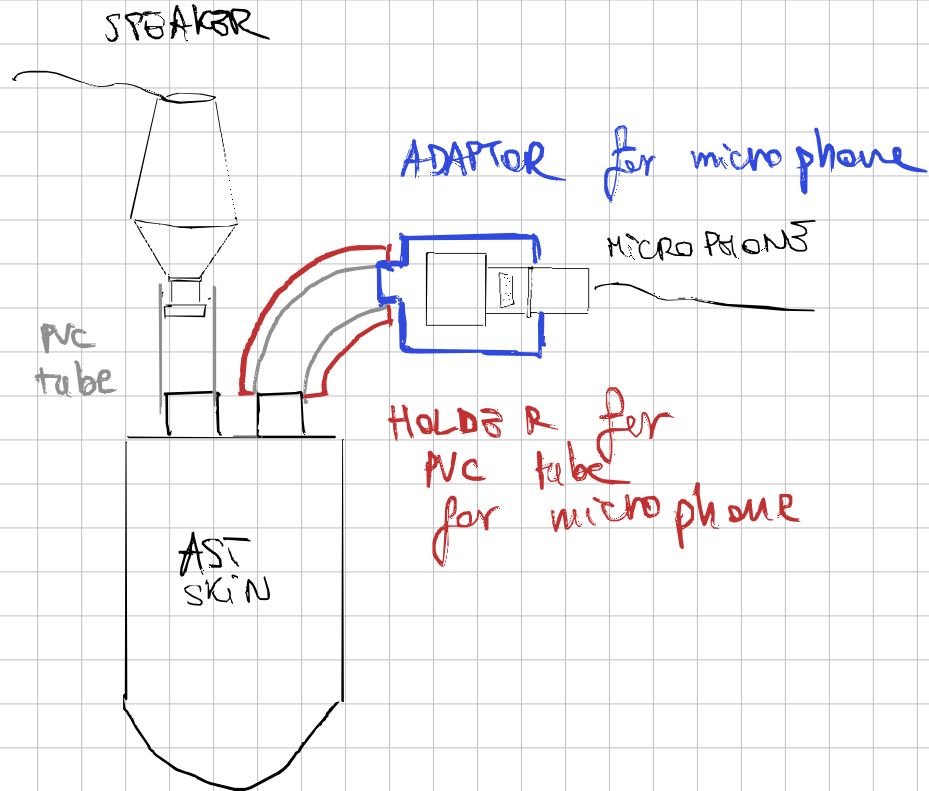


useful depth  
to be inserted  
into the PVC tube

# Amir sketches

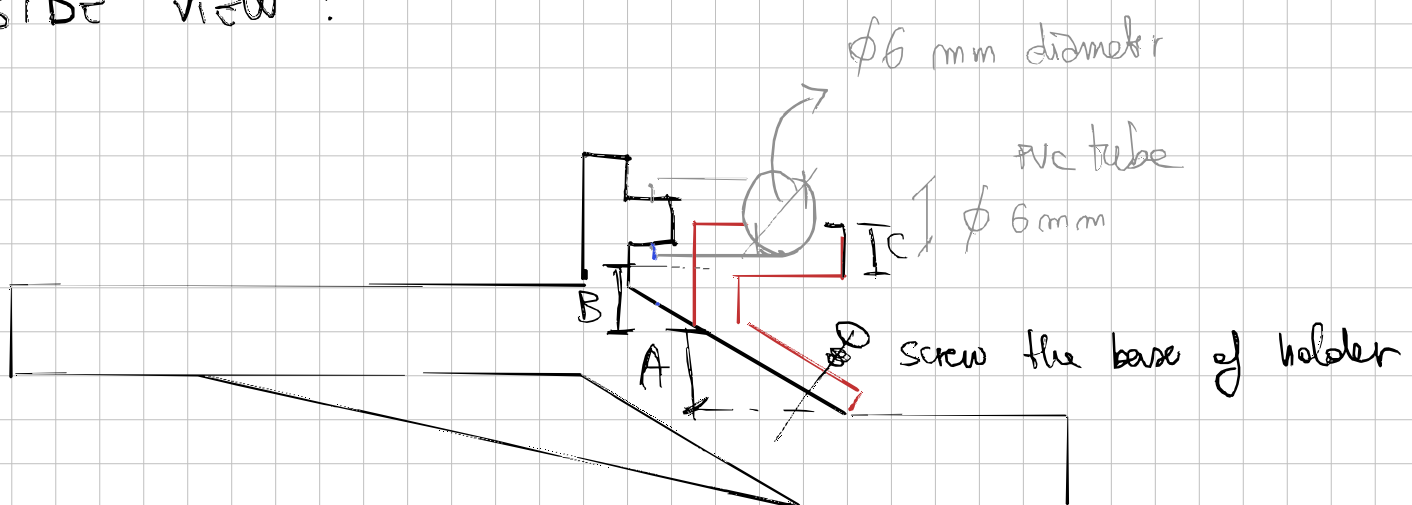


Final idea configuration : top view



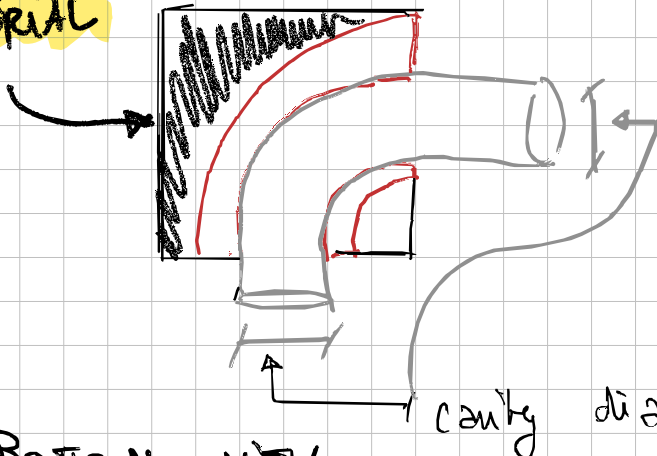
# HOLDER

SIDE VIEW :



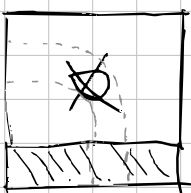
TOP VIEW of holder

NO MATERIAL



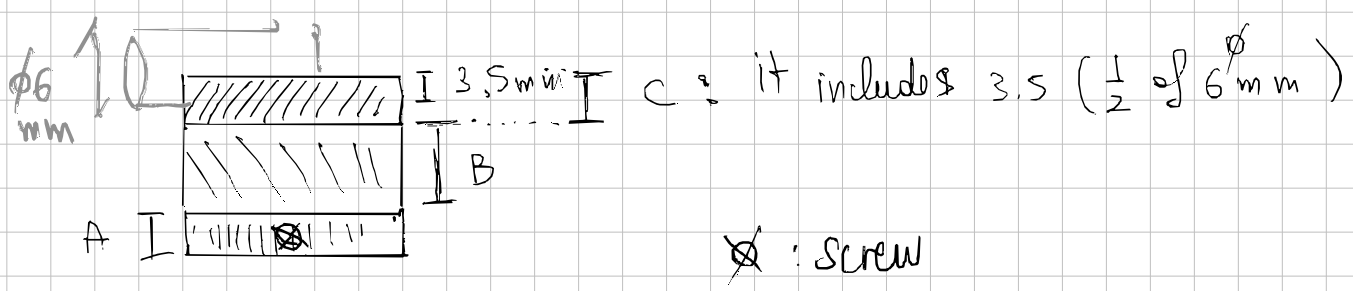
holder has a cavity that holds PVC to have a specified curvature  
PVC tube  
 $\phi 6$  mm ext diameter

BOTTOM VIEW

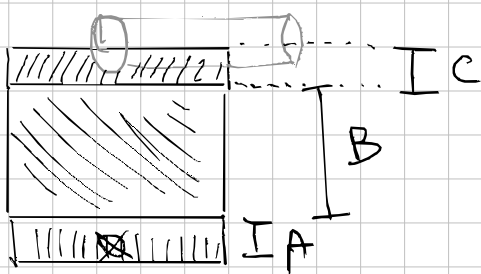


PVC tube  $\phi 6$  mm ext diameter  
X: screw!

FRONT VIEW

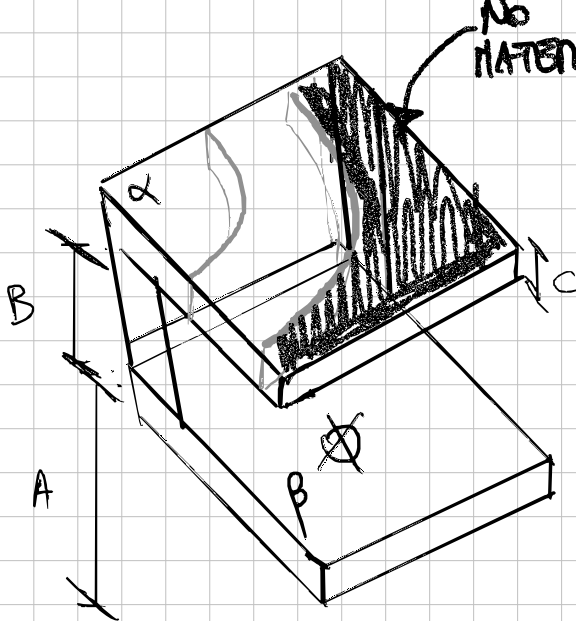


BACK VIEW



X: screw

OTHER VIEW

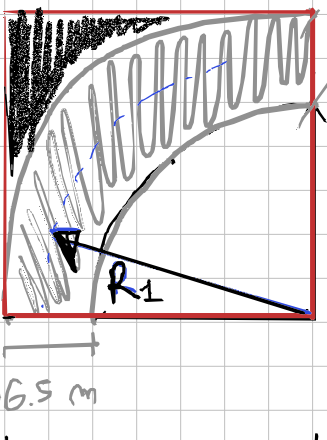


the purpose it's to only give the idea of the product!

X: screw

HOLDER PLATE (from another perspective)

NO MATERIAL

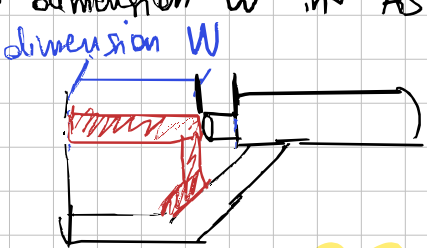


$$R_1 = 25 \text{ mm}$$

PVC tube:  $\phi 6.5$  mm

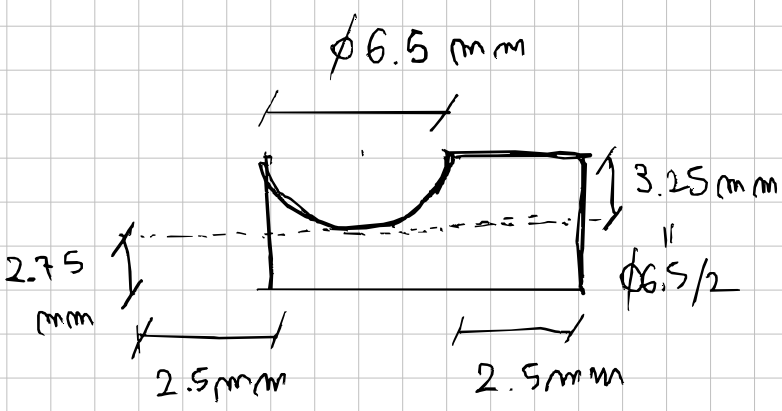
$$\text{EDGE of plate} = 28.25 \text{ mm} = \frac{6.5}{2} + 25$$

to check feasibility of EDGE of plate considering the length dimension W in AUT



$$\text{EDGE of plate} \leq \text{dimension W}$$

otherwise  $R_1$  should be less



Comments:

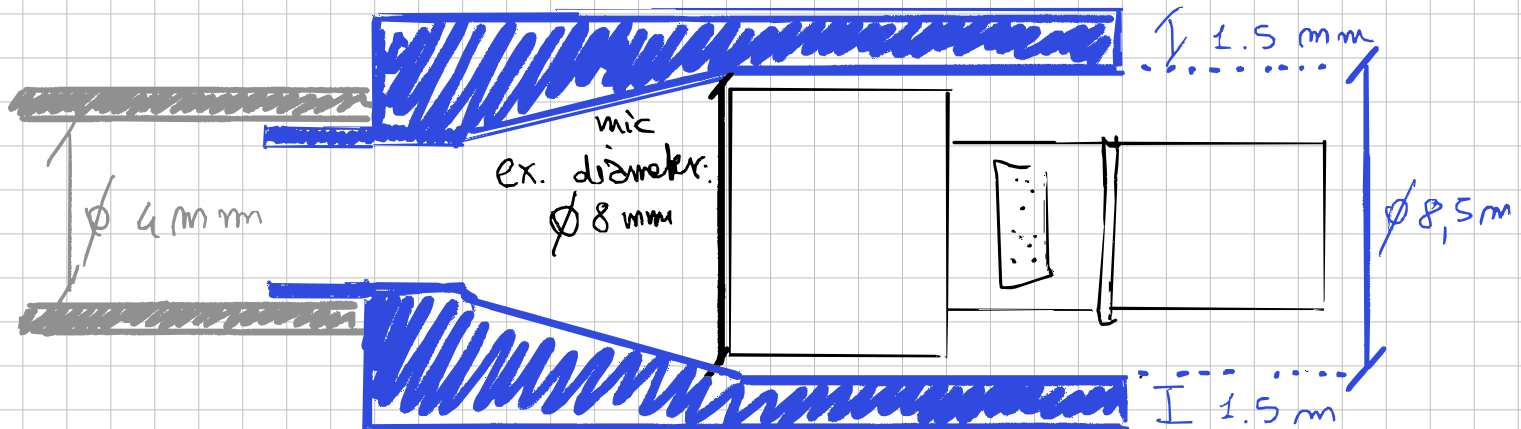
dimension W (measured) = 20 mm  $\Rightarrow$  to be checked with CAD

$$\Rightarrow R_1 + \frac{6.5}{2} \leq 20$$

$$R_1 \leq 20 - 3.25 = 16.75$$

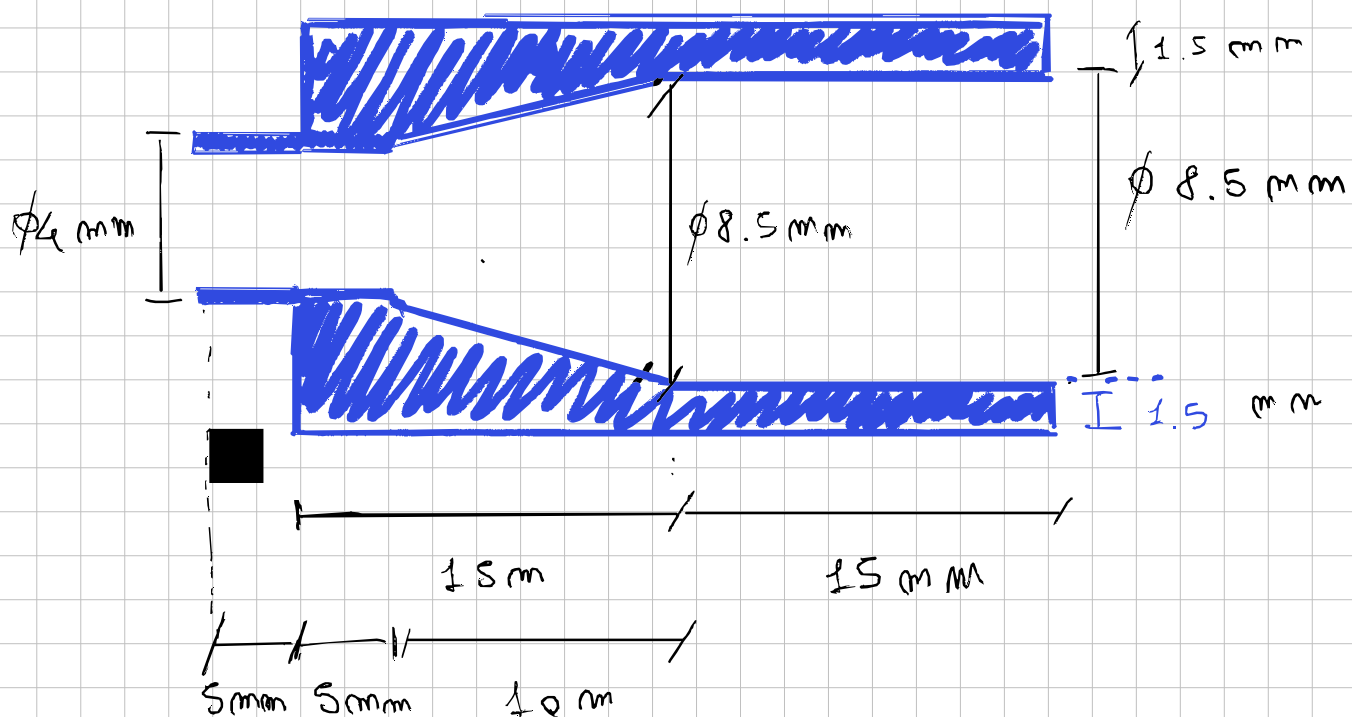
# ADAPTOR :

→ goal : from cross section of  $\phi 4 \text{ mm}$  diameter (pvc tube)  
to cross section of  $\phi 8 \text{ mm}$  diameter (mic.)

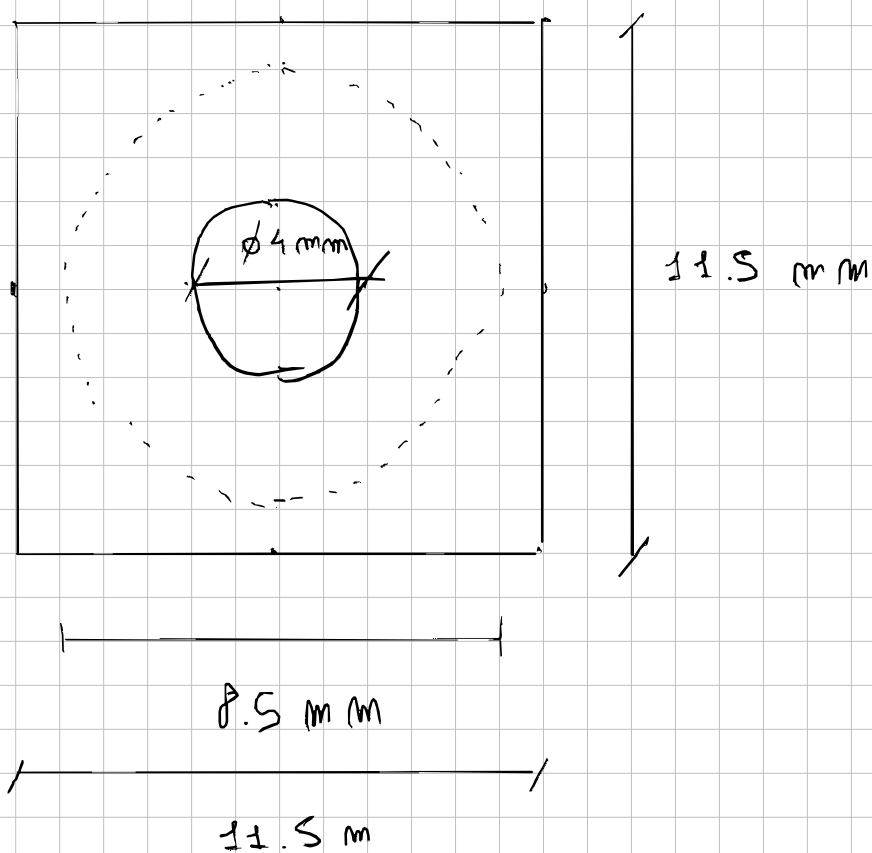


PVC internal diameter :  
 $\phi 4 \text{ mm}$

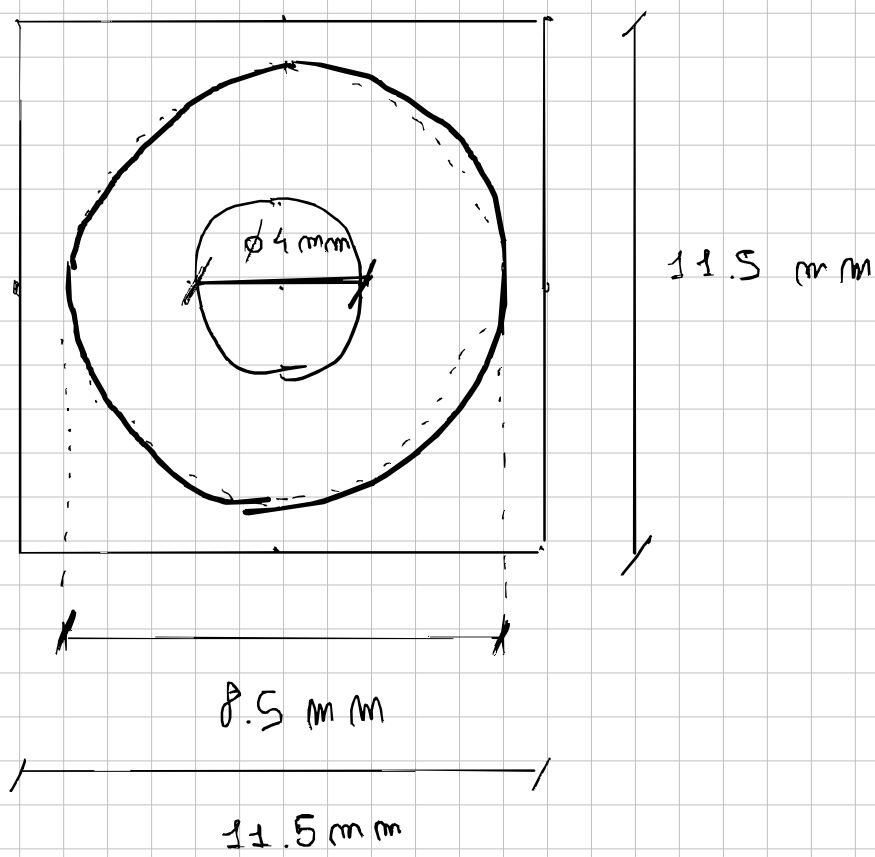
SIDE VIEW



FRONT VIEW (small diameter)



BACK VIEW



UPPER VIEW

