

# Sporeography

## The Proust mushrooms

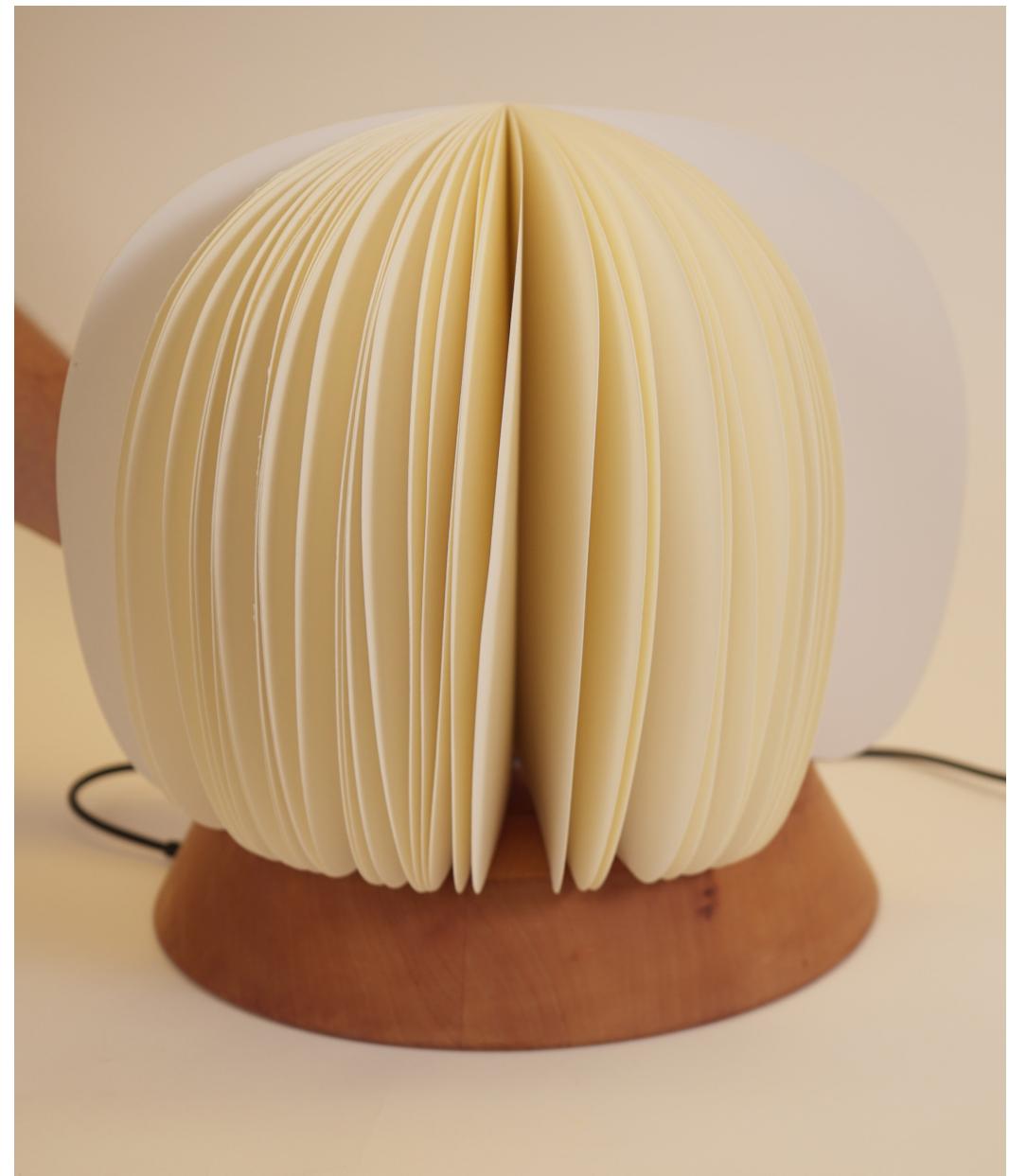
# Project Description

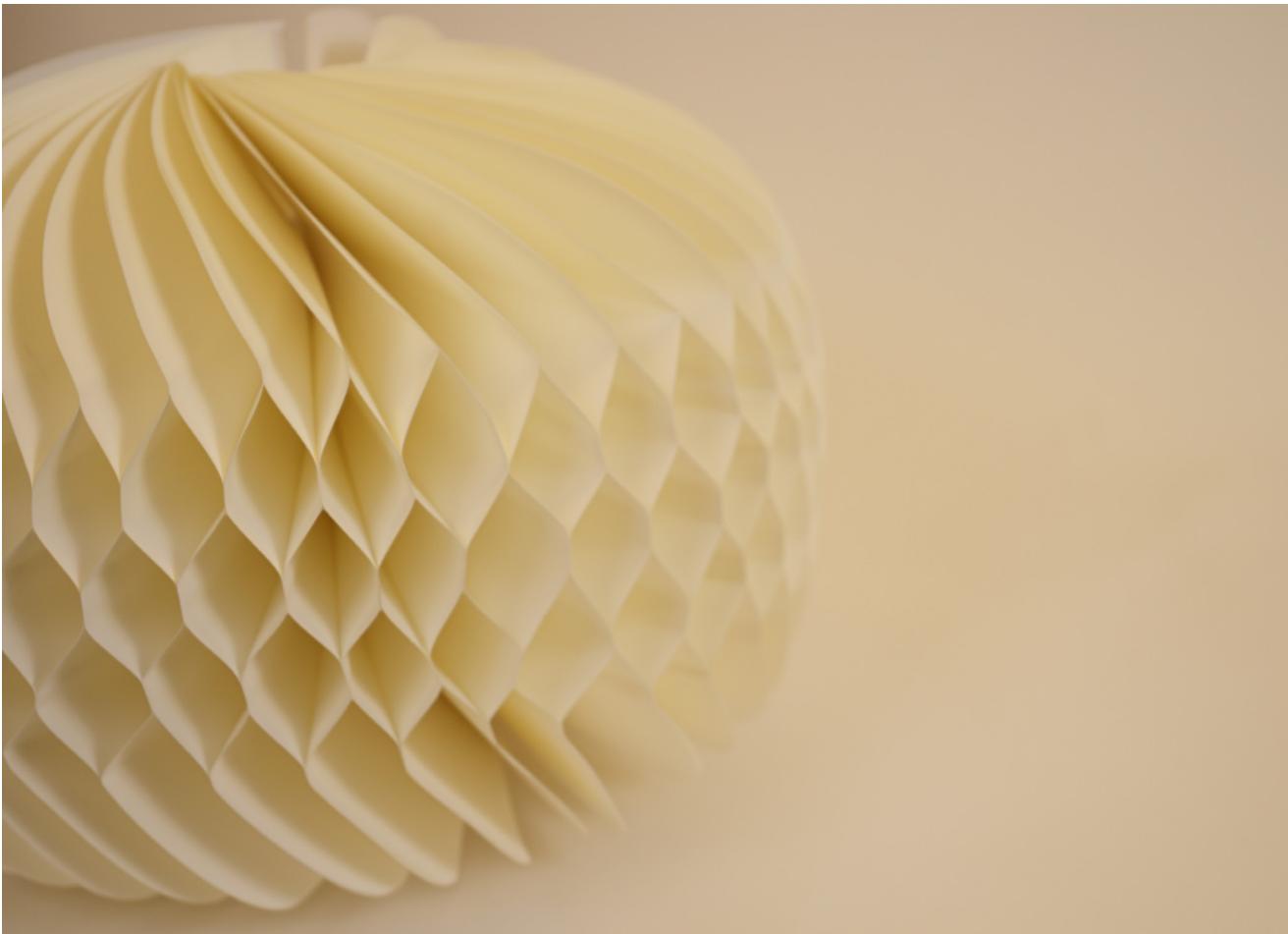
## Sporeography: The Proustian Mushroom

Sporeography is a soft robotic device crafted to evoke the user's cherished memories through the power of scent. Inspired by the famous «Madeleine de Proust», it bridges the emotional connection between smell and memory, transforming your home into a personal landscape of nostalgia.

The experience begins with the user applying personalized scents onto the delicate strips of Sporeography and placing them on its platform. Once activated, these «Proust mushrooms» gracefully open like butterflies, releasing their aromatic essence into the air.

Strategically placing multiple Sporeography devices around the home allows the user to seamlessly relive meaningful moments throughout their day. Working in harmony, the mushrooms create an evolving «scentscape»—a gentle and balanced olfactory atmosphere that enriches the space without overwhelming the senses.







# User Journey

## How to activate and enjoy Sporeography

1. First is the application of smell and the positioning of the strips on the platform.

2. Once the strips are placed, the user just has to wait for it to open.

3. The smell is then emitted whenever the mushroom dances for the pleasure of the user.



# Field observations

## Photographies

I, at first, mainly observed my kitchen and what was changing inside: the tracks left by my roommates, the cooking, banana peels in the compost or the cooking utensils.

I took photos of all the details that struck me.



# Field observations

## Drawings

I drew positions and actions that were linked to the kitchen to see and understand the human behaviour in this specific and important room.

I also drew elements that were in the kitchen that caught my eye.

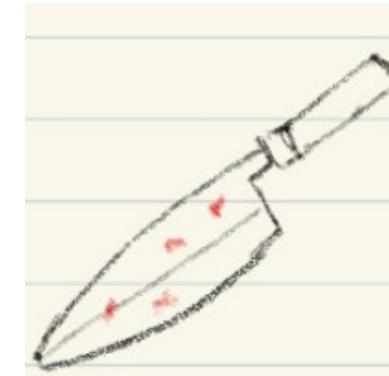
The stir



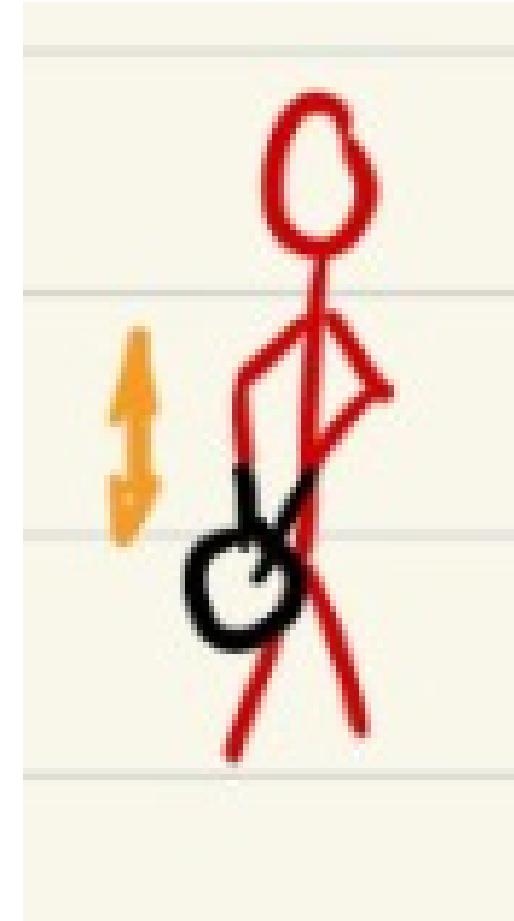
The wait



Rusted knife



The «Tourne et Retourne»



The hot coffee

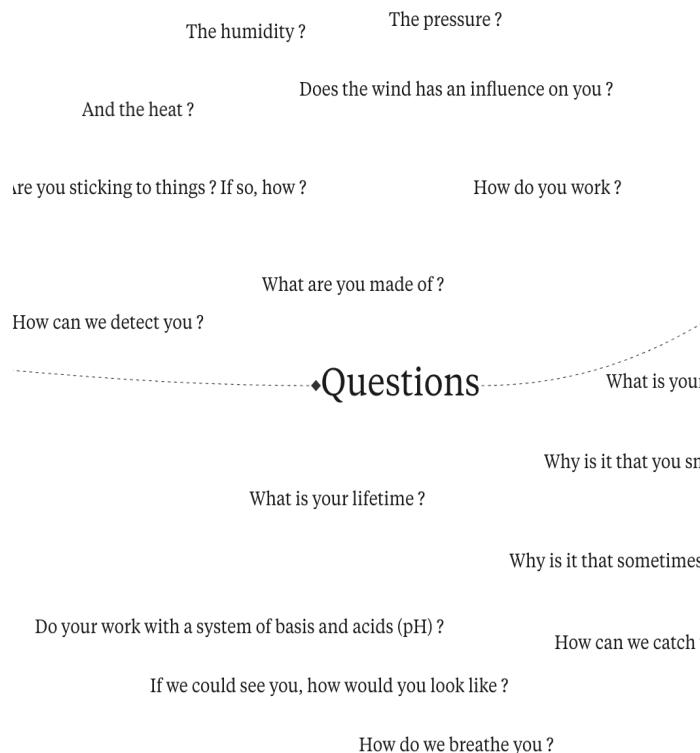


# Field observations

## Questions and lists

What helped me the most was writing every detail that came up to mind and questioning everything.

This lead me to the subject of the smells and the emotions linked to them.



## Smell, scent, perfume

### Loving the smells

- Cooking smell
  - Warm your heart when you come home and your favorite dish is made
- Fresh smell of bread
- The smell of petrichor
- The fresh smell of grass in spring
- The smell of the coffee in the morning

### Hating the smells

- Scent of someone who did sport
- The smell when you remove your shoes
- Bad smell in the toilet
- Mold smell when your laundry machine did not work correctly

### Emotion

- Scent of your lover when you say goodbye to them in the morning
- The old smell of your parent when you get their clothes
- The smell of books

### Visiting - Smell that makes you travel to other countries

- Spices
- Specific kind of food
- Incense
- Scent of the sun

### Time Travel - Smell that takes you back

- Smell of the apartment of your family
- Specific smells you cannot recognize
- Someone passing by who smells exactly like something in your past, but can't get to know what

- 6h24 : Coffee smell
- 6h27 : Syrup smell mixed with the smell of coffee
- 8h17 : Coffee mug with coffee stain in the sink
- 9h28 : Coffee smell (my coffee)
- 9h42 : Banana peels in the compost
- 9h56 : Smell of hot water and vapor
- 9h57 : Condensation drops
- 10h03 : Stains on the cake knife
- 10h04 : Cake perfume
- 10h11 : Dishwashing soap scent
- 10h15 : Plate on the drying board
- 12h02 : Perfume of spices (paprika, oregano, ...)

# Visual and Material Moodboard

## Perfumes, wood and paper

The perfumes were used to apply scent to the paper and to show the concept of the «Madeleine de Proust».

The wood is to show this idea of nature, the impregnation of scents and a link to mushrooms.

The paper for the emission of the scents and the resemblance of the mushroom's strips.



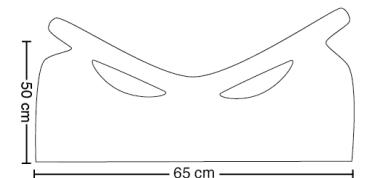
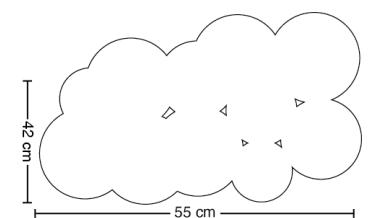
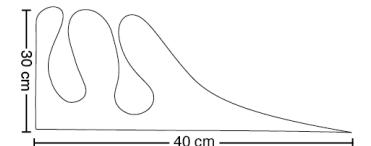
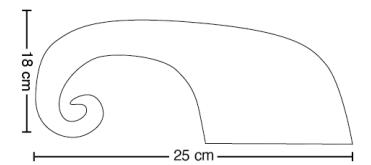
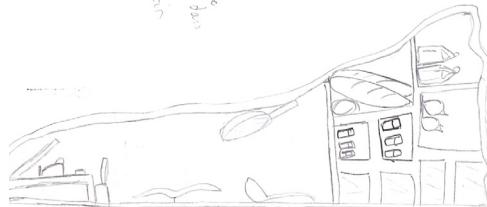
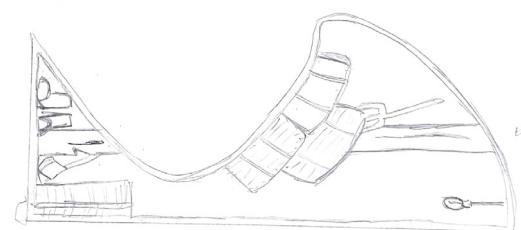
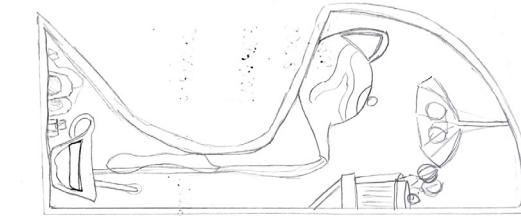
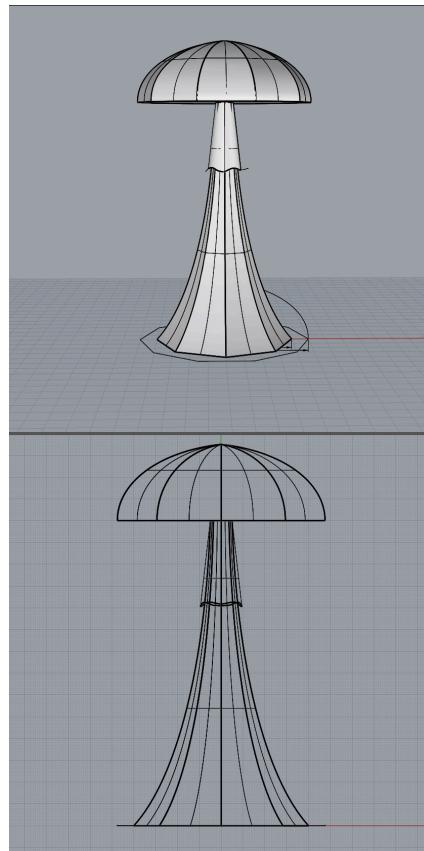
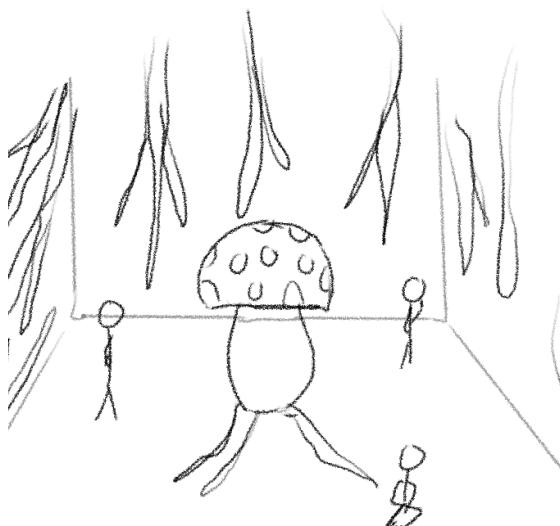
# Shape research

## Mushrooms

I have explored mushrooms because of their link to smells and to the human brain. The way spores move is similar to scent; and the inside of a mushroom works the same as a human neural network.

The mushroom was transformed into a plethora of strips to recreate the lines under their hats.

Then, the concept to create a more abstract strip to let the user decide which scent to apply.



Truffle

Chanterelle

Morel

Portobello

# Paper Prototypes

## Multiple paper mushrooms

Sporeography was made with strips of paper to allow a beautiful movement of a book opening.

Moreover, the opening would help the emission of the scent and thus let the user smell the nostalgia coming from it.





# User Tests

A full day of testing and emerging ideas

I tested the approach of the users and what they first did with Sporeography and wrote what they said.

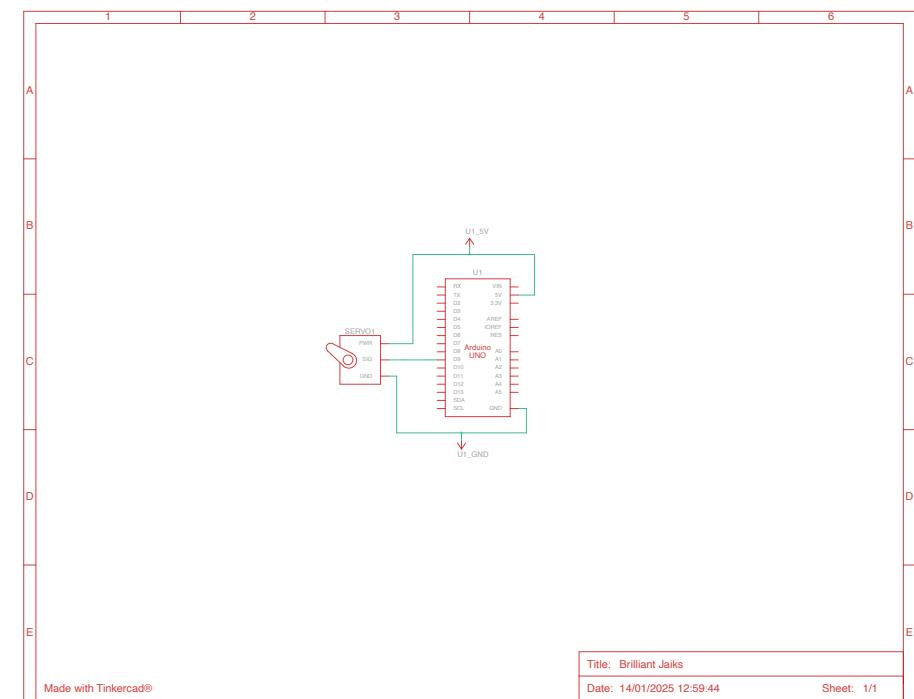
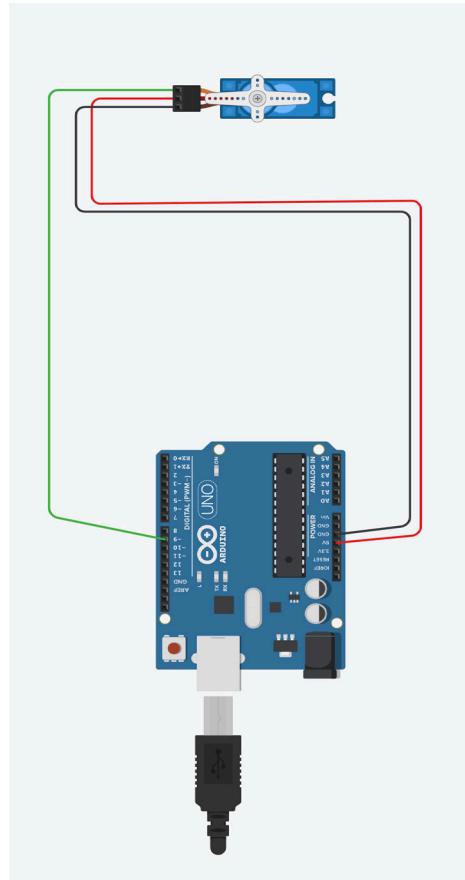
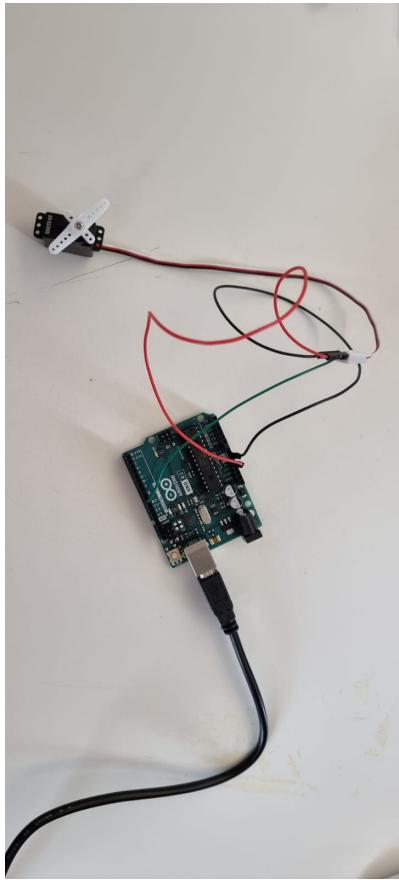
Useful insights were gathered :

- Use a lighter paper or material to make it more «enchanting»
- Look into paper lantern and pre-cinema animation to see what could be done between the strips
- Create a way to make the user notice the loss of the scent



# Electronics

The electronics are formed principally with an Arduino-controlled servo motor seamlessly and precisely rotating Sporeography's platform.



Made with Tinkercad®

Title: Brilliant Jaiks  
Date: 14/01/2025 12:59:44

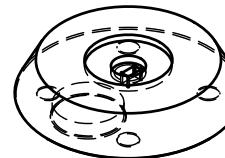
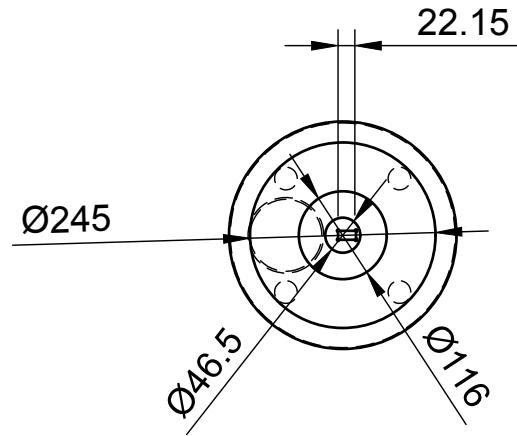
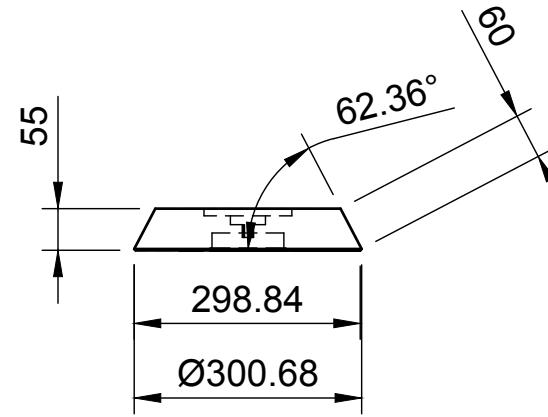
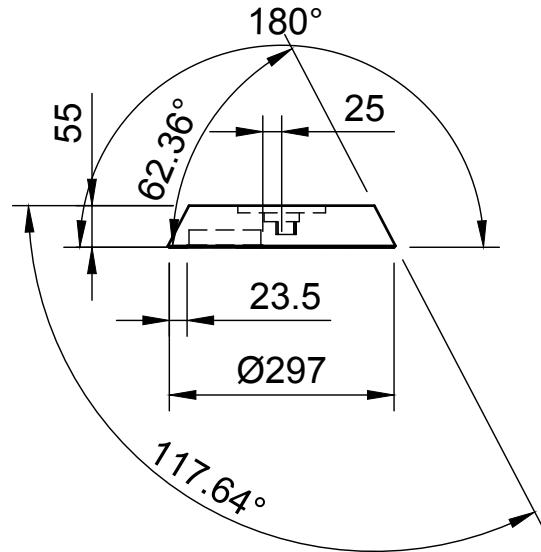
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# Plan Drawings

Materials: Pear tree, Recycled paper

Scale: 1:5 in mm

Base



# Plan Drawings

Materials: Pear tree, Recycled paper

Scale: 1:5 in mm

Disk

