



## Design Concept

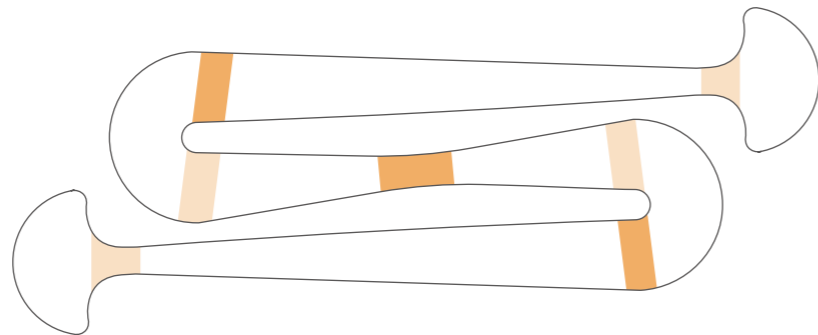


Tatami mats are made by wrapping mats around beds, sewing them together, and knitting them with matting. In the design process, the shape of the model is developed by keeping the principle of covering the flat surface.

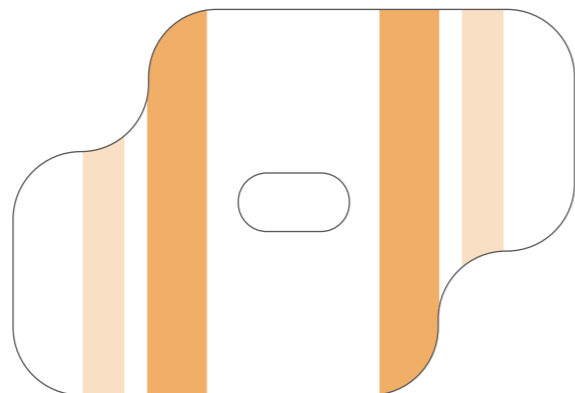
## Form Design

-  Upward bending
-  Downward bending

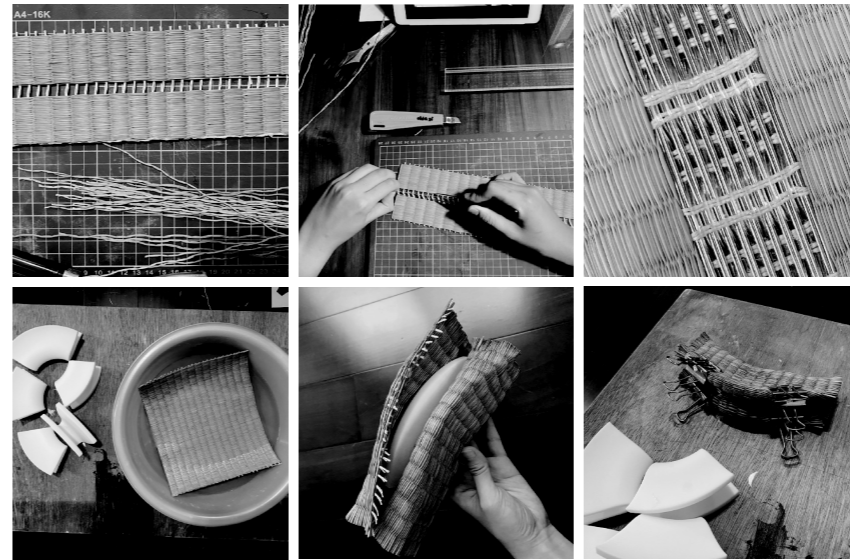
Luminaire floor plan



Chair floor plan



## Material Experimentation



### BENDING TEST

The inner mold was covered up and down from the same mat to try the 3-dimensional curved of tatami.

### COPPER WIRE BRAID

Changing the structure by removing the original one, weaving the copper wire and PVC tubes in the same way as before, creating a difference in the lightness and elasticity of the material.

## Material Application

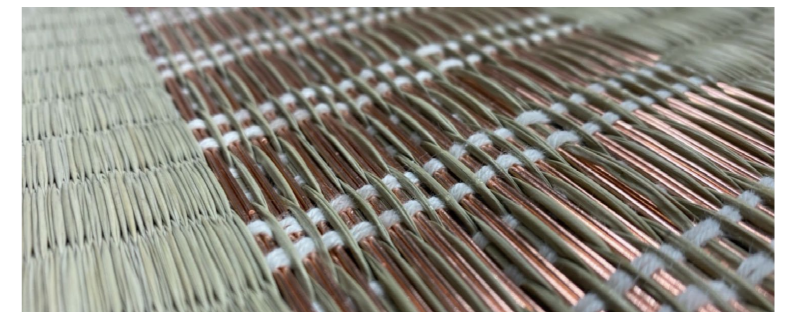
### COWHIDE

To match the curvature of the model body and its durability in use, use a certain thickness of cowhide to be the hemming material of tatami.



### ENAMELLED COPPER WIRE

Besides using copper wire to create light transmission, the malleability and hardness of the wire were also used to strengthen the bent shape of the tatami.





**MATERIAL EXPERIMENT**

Testing the bending nature of Tatami, adjusting the most suitable shape.

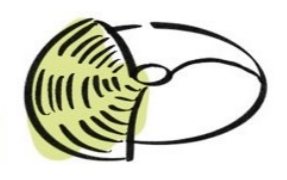
**Bending Test**



Surface wetting



Mold fixing

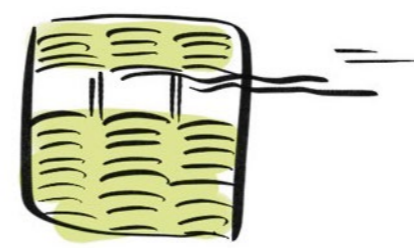


Shape drying

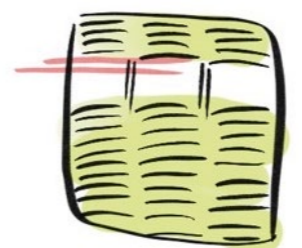


Finished shape

**Copper Wire Braiding**



Pulling out the bulrush



Braiding in copper wire



Testing Transmittance