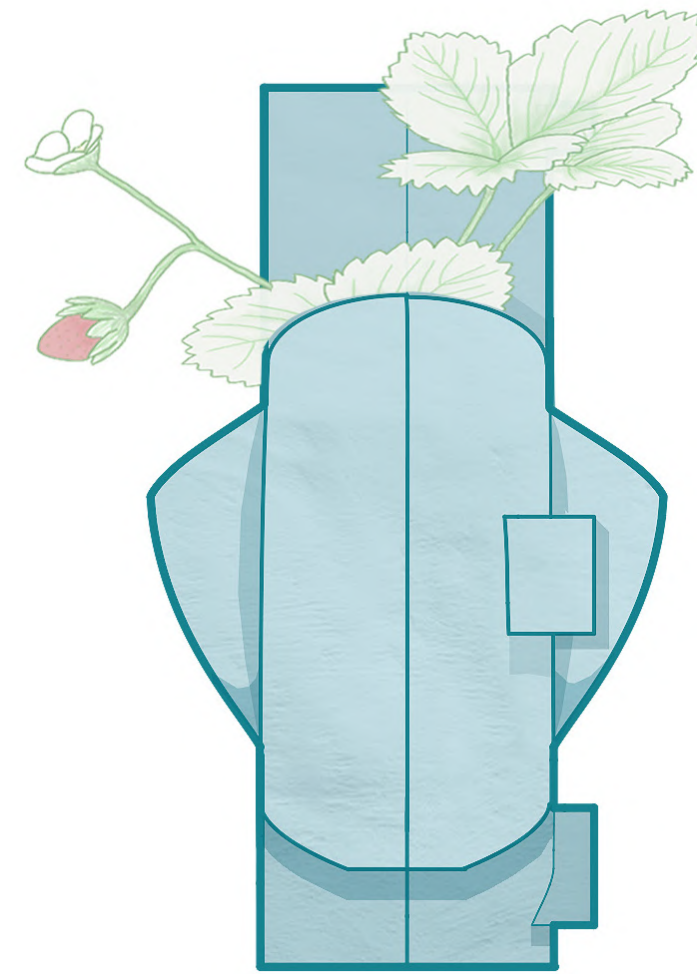
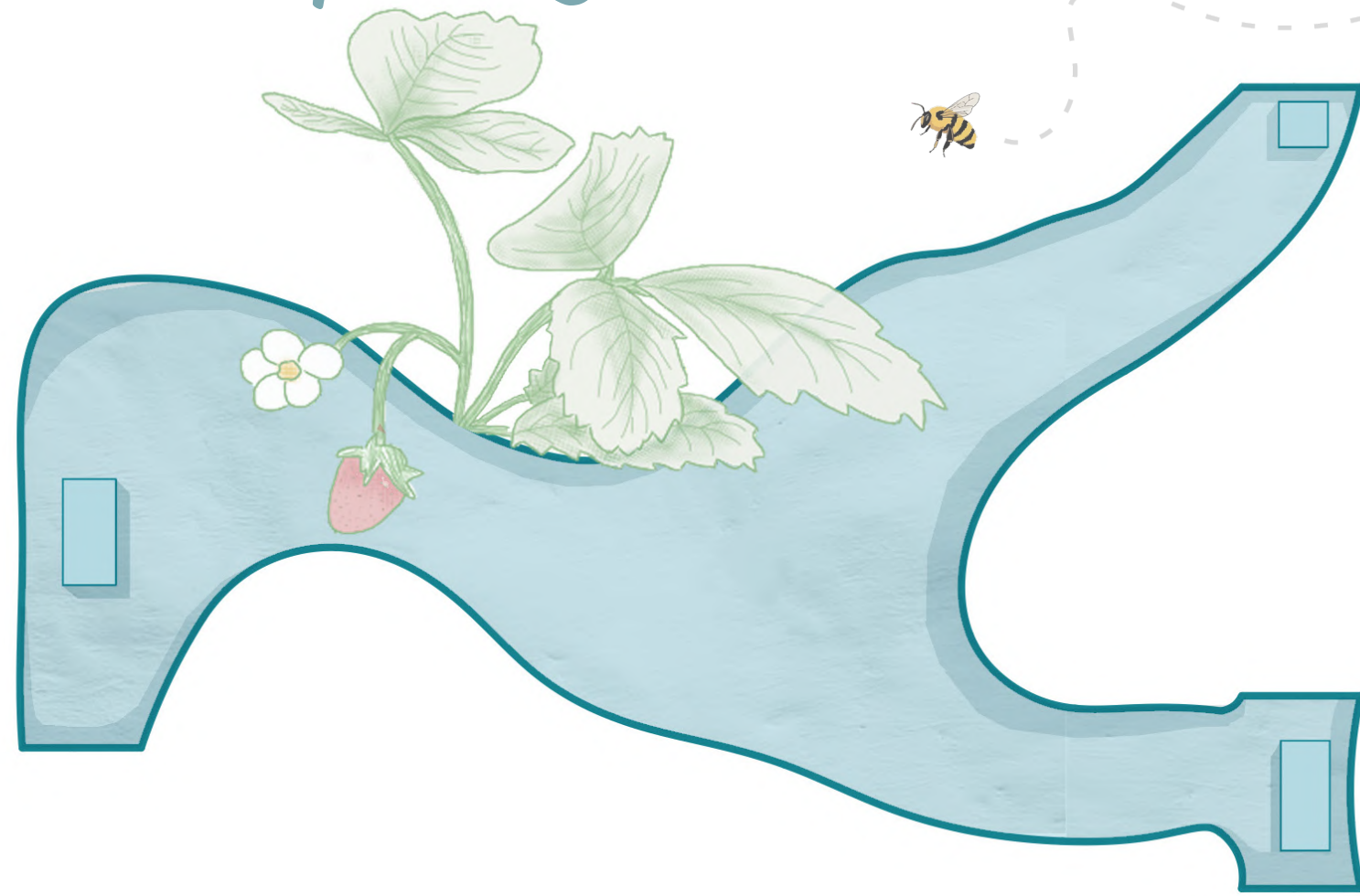
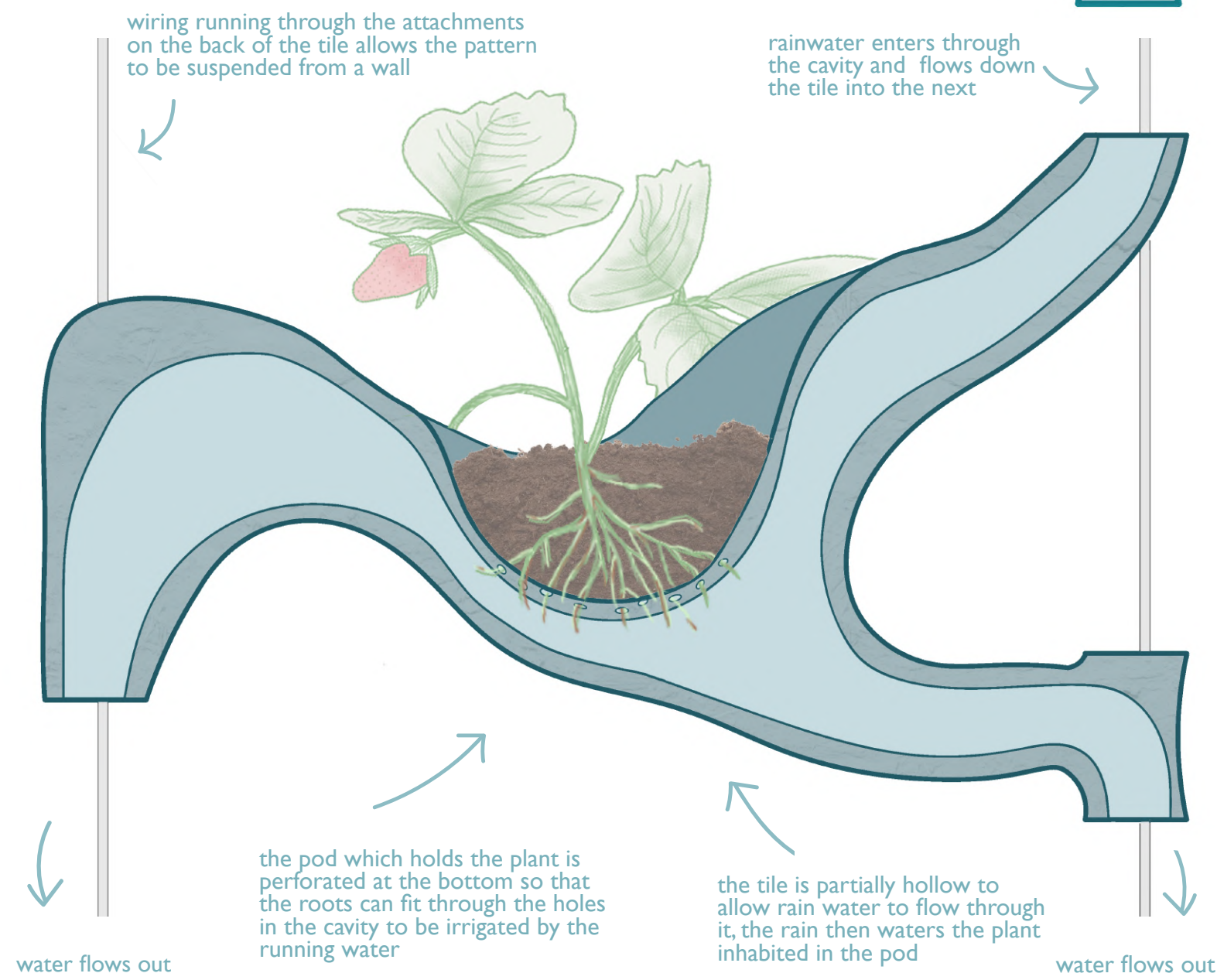


Shaping water



This tile aims to reduce urban runoff through filtering and harvesting rainwater. Each tile features a partial cavity that channels water through the system, along with an integrated plant pod. This pod is perforated at the bottom, allowing the plant's roots to grow into the cavity to then be irrigated by the water passing through. The tile system is versatile in its installation; it can function as a free-standing system or be hung from a wall using built-in attachments. This function makes it suitable for a wide range of urban contexts. It aims to break up the dense concrete landscape of urban environments, re-introducing greenery and wildlife into them.

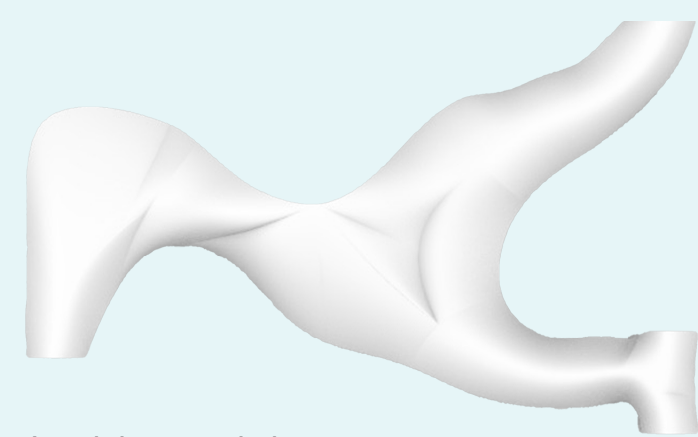


TILE'S SECTION

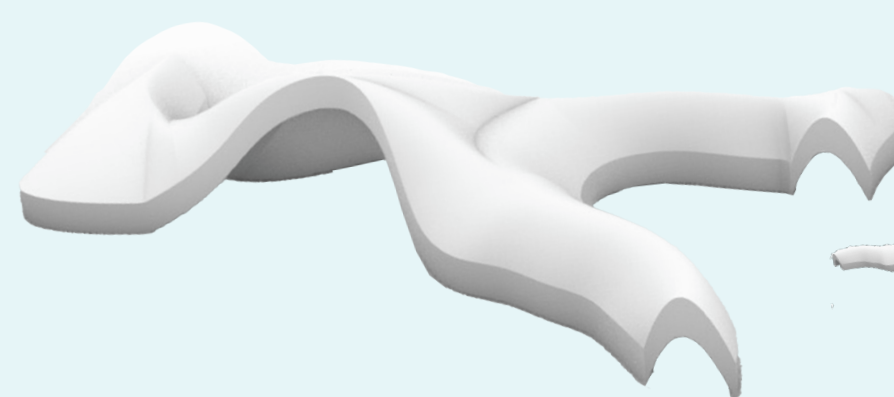
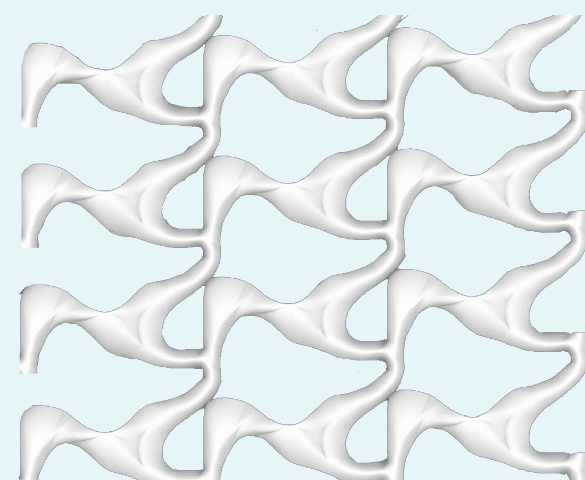
TILE DESIGN

PHYSICAL CLAY TILE @ 1 : 1

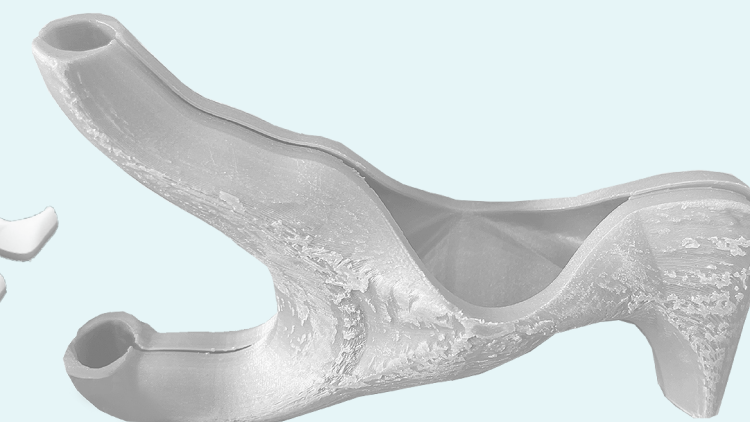
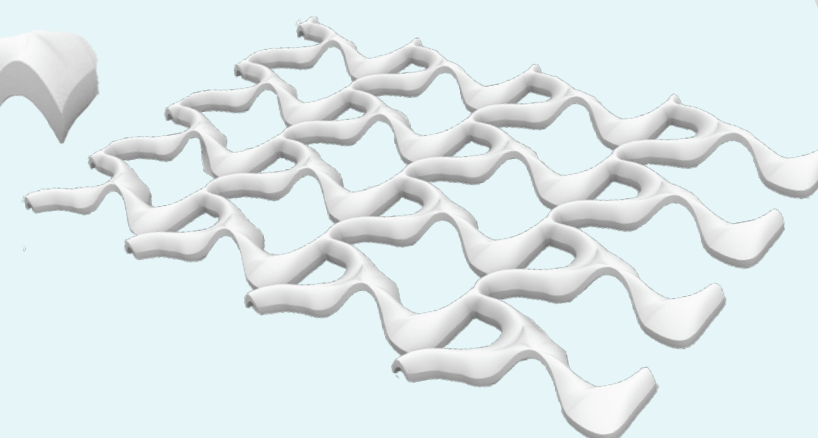
EVOLUTION OF DESIGN



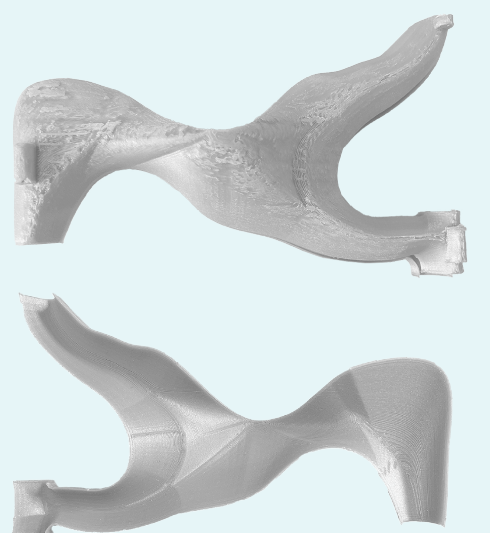
Initial design and tile pattern



creating two parts that join to form the tile and its cavity



two part 3D print @ 1 : 5 of revised design

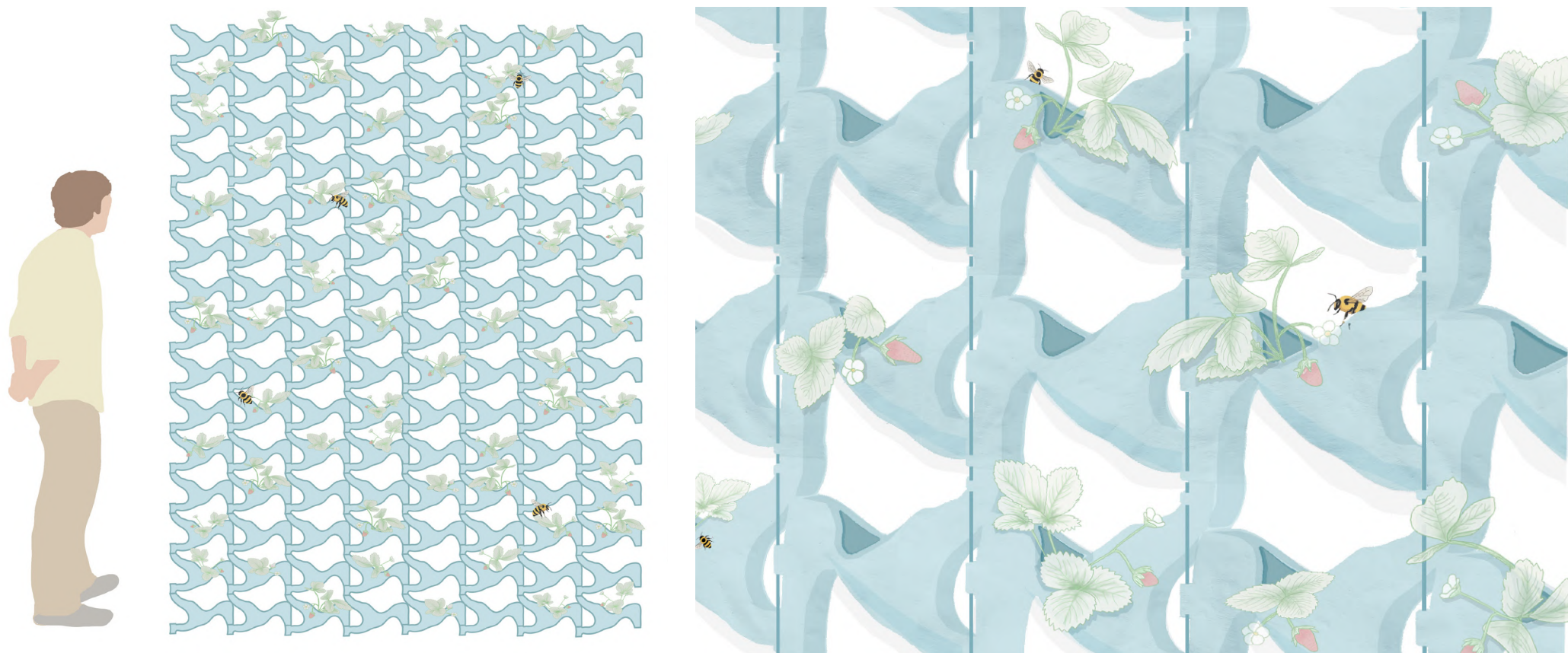


VISUAL OF TILE SYSTEM HUNG

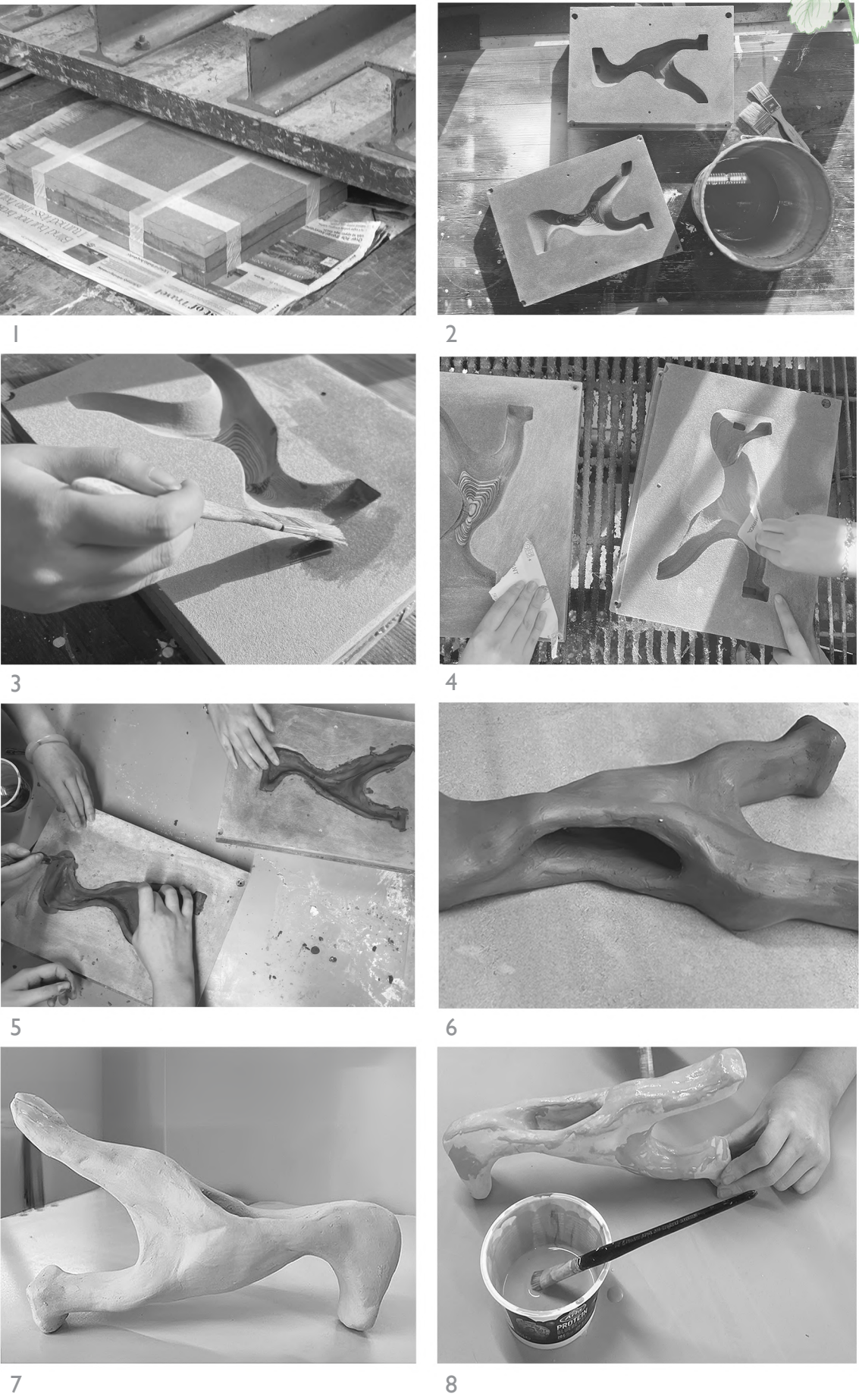


Above : the tile system visualised in a urban environment, suspended from a wall

Right : shows the tile system in relation to a human being. It also shows a close up of the tile wiring system, and how it would be inhabited

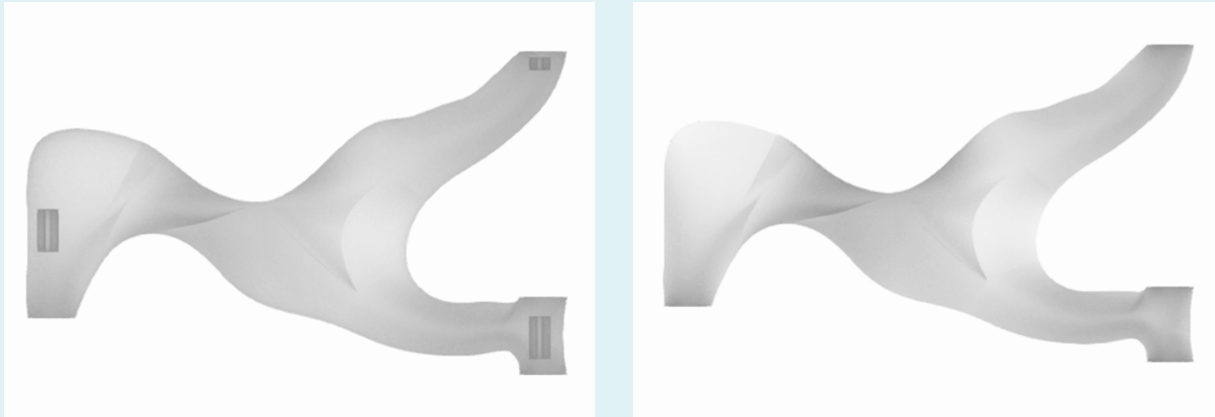


PROCESS OF MAKING I : I TILE

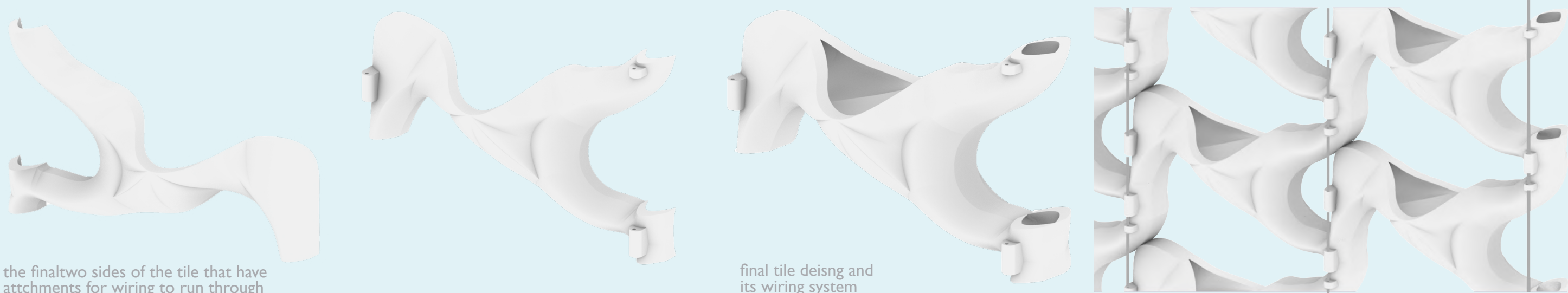


- 1 Clamping and gluing three pieces of mdf together for the two mould's structure
- 2 The finished CNC two part negative mould
- 3 Sand sealing the moulds, this involved brushing sealant over moulds and then sanding and them
- 4 This process was repeated three times to ensure the tile would have a smooth surface
- 5 Creating the two sides of the clay tile, using talcum powder to ensure it didnt stick to the moulds and they retained their shape
- 6 Joining the two parts together using water to form the tile and its cavity
- 7 Smoothed the tiles bottom legs so it could self-stand and then firing it in the kiln
- 8 Making a custom glaze and painting it several time to ensure a vibrant, glossy finish

FURTHER EVOLUTION OF DESIGN



digital two part mould created to make the tile physically at I : I



the finaltwo sides of the tile that have attachments for wiring to run through

final tile deisng and its wiring system