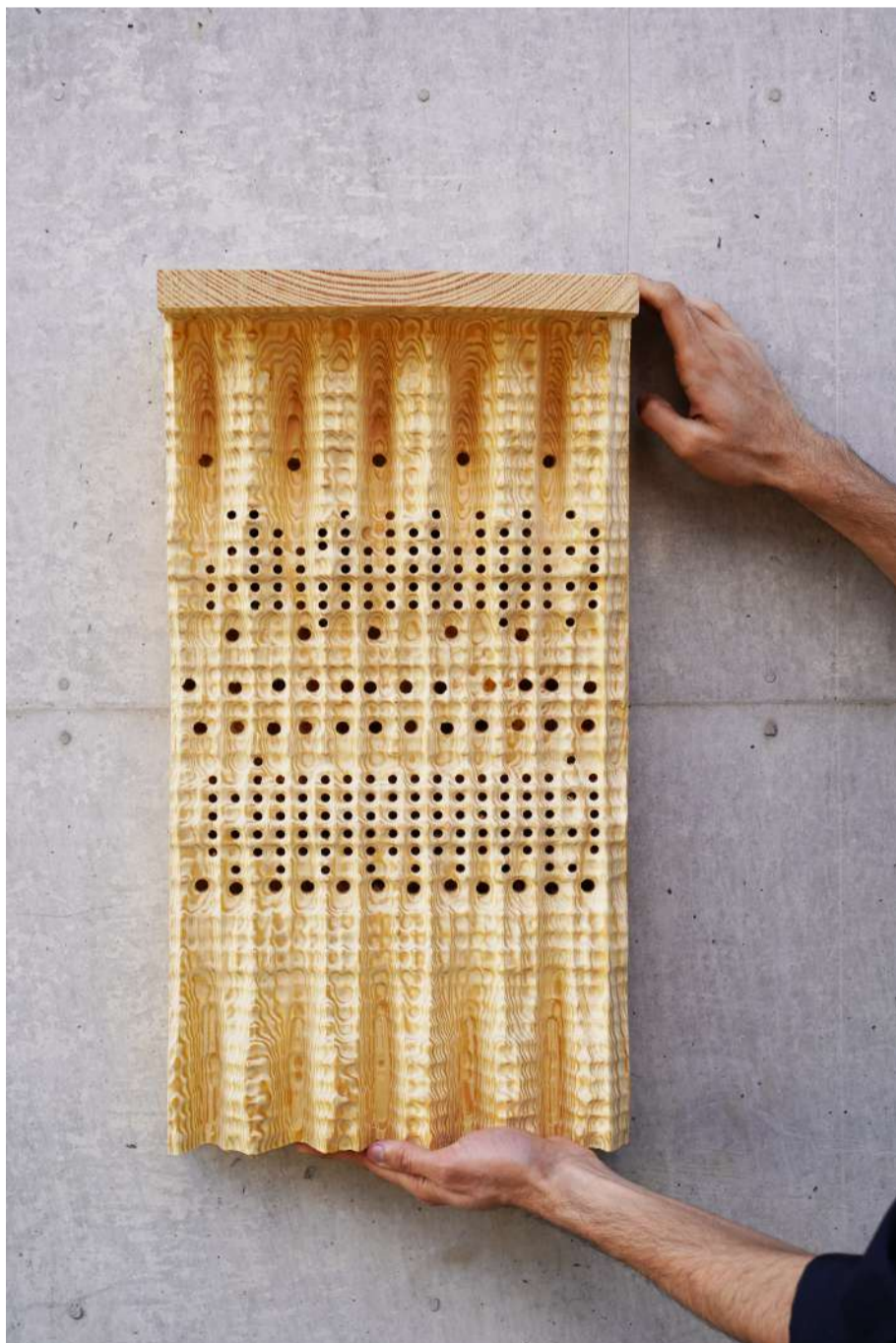
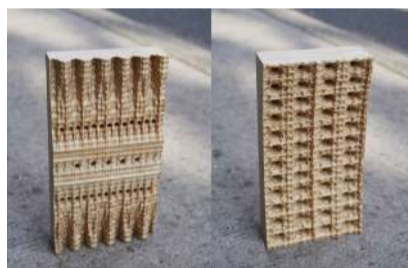


# APIA

The innovative modular tiling system, Apia, hosts and protects endangered pollinator bee species while contributing to the maintenance of healthy ecosystems for food security.



Apia tiles are special types of building materials that we have designed at the intersection of material science, design and manufacturing.

By observing bee behaviour we created nesting spaces for solitary bees for the dense areas in the Europe, by doing that we can give these important insects a chance to thrive, pollinate and help increase biodiversity.

The decline of bees can have a big impact on the pollinating plants, which is essential for maintaining a healthy and diverse ecosystem. By visiting flowers and collecting nectar, bees transfer pollen from one plant to another, allowing for the fertilization of flowers and the production of fruit and seeds. Without enough of them, yields can decrease, and food prices can go up.

## Materiality



1) The use of reclaimed wood adds to the eco-friendly nature of the tiles, contributing to a circular economy and reducing waste.

2) Apia's tiles feature a porous and antibacterial base made from mycelium, which not only enhances the sustainability of the system but also provides a safe and healthy habitat for solitary bees.



## Fabrication

The tailored design of the tiles takes into account factors such as nesting requirements, sheltering preferences, and foraging patterns. This attention to detail allows the tiles to effectively support the targeted bee species and their site-specific needs.



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