Modularity / Scalability

The size of the wind tower is proportionate with the size of the adjacent room that it serves. The system is scalable by repetition if more spatial variety and flexibility of use is desired.

Possible Spatial Typologies

Site Plan with One Module
- Pergola
- Sunkin Room

Site Plan with multiple adjacent modules
- Covered Semi-Outdoor
- Covered Semi-Outdoor Trellis roof + Piv
- Cooled Indoor Room Roof Tray Collecting Rainwater
- Cooled Indoor Room Roof tray with Planting

Mechanical Diagram
Air and Water Flow in the Summer Condition

Construction Process / No Waste

Step 1
Excavation & Collection of additional rocks/sediments from the site

Step 2
Foundation with gabion layering of the water filtration system and installation of the mechanical shafts

Step 3
Rammed Earth tower construction layer by layer, starting with the wood framework

Step 4
Roof and enclosure depending on the typology below by reusing the lumber of the framework