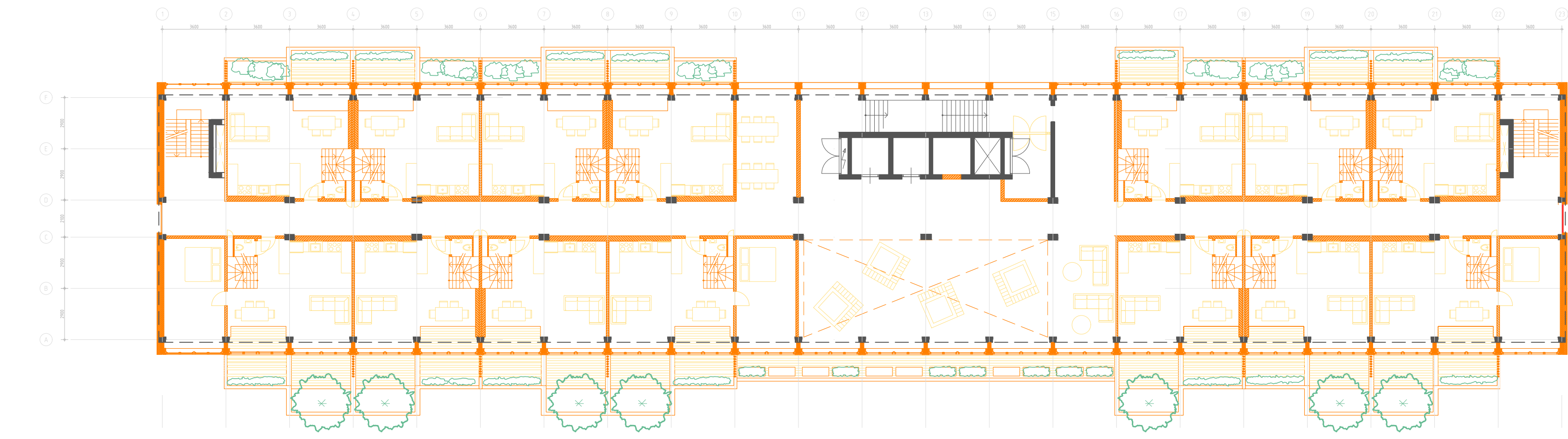


3rd floor



2nd floor



South Facade
scale 1-200



North Facade
scale 1-200



Roof garden



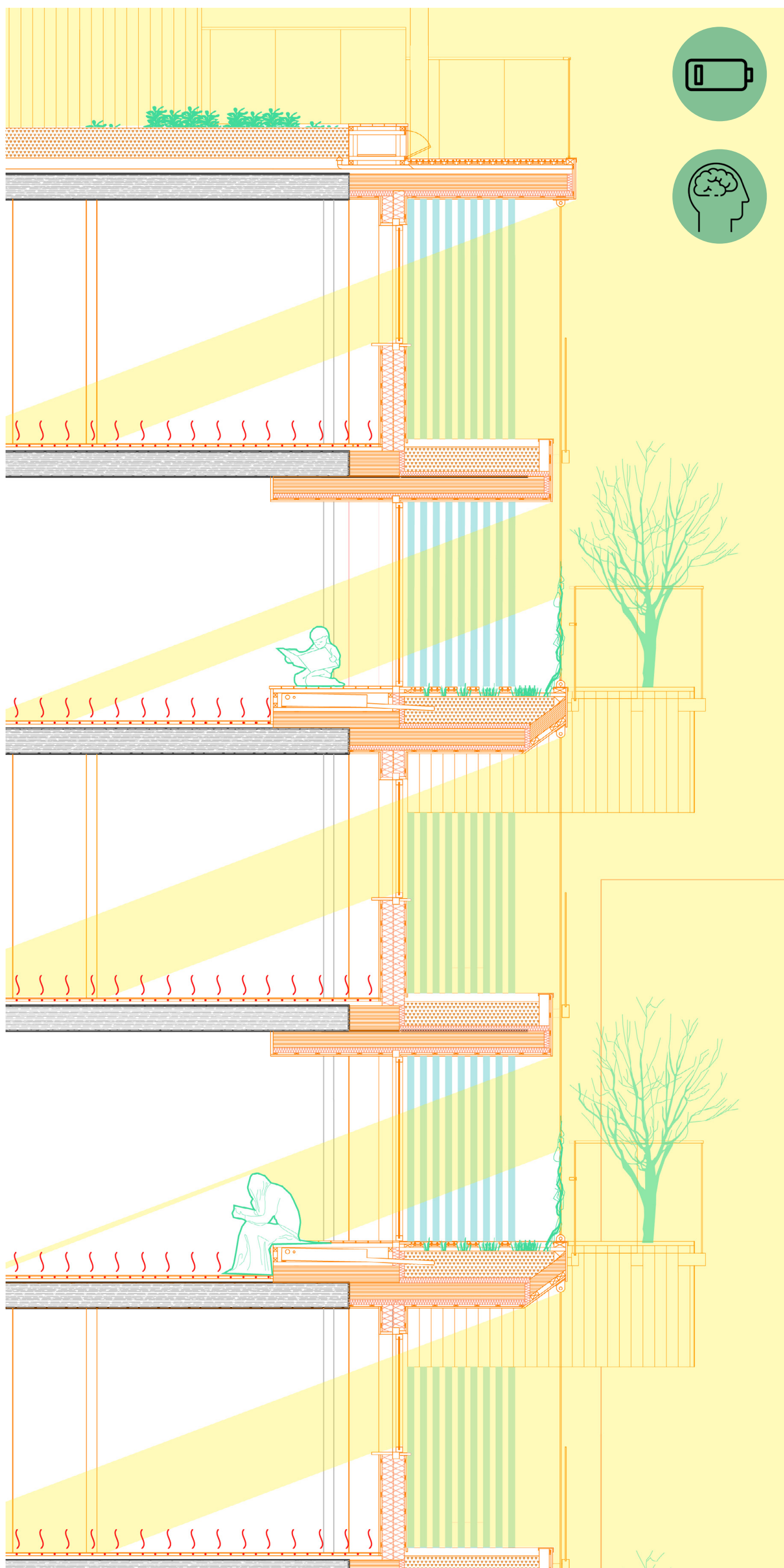
Inside the apartment



View of the balcony



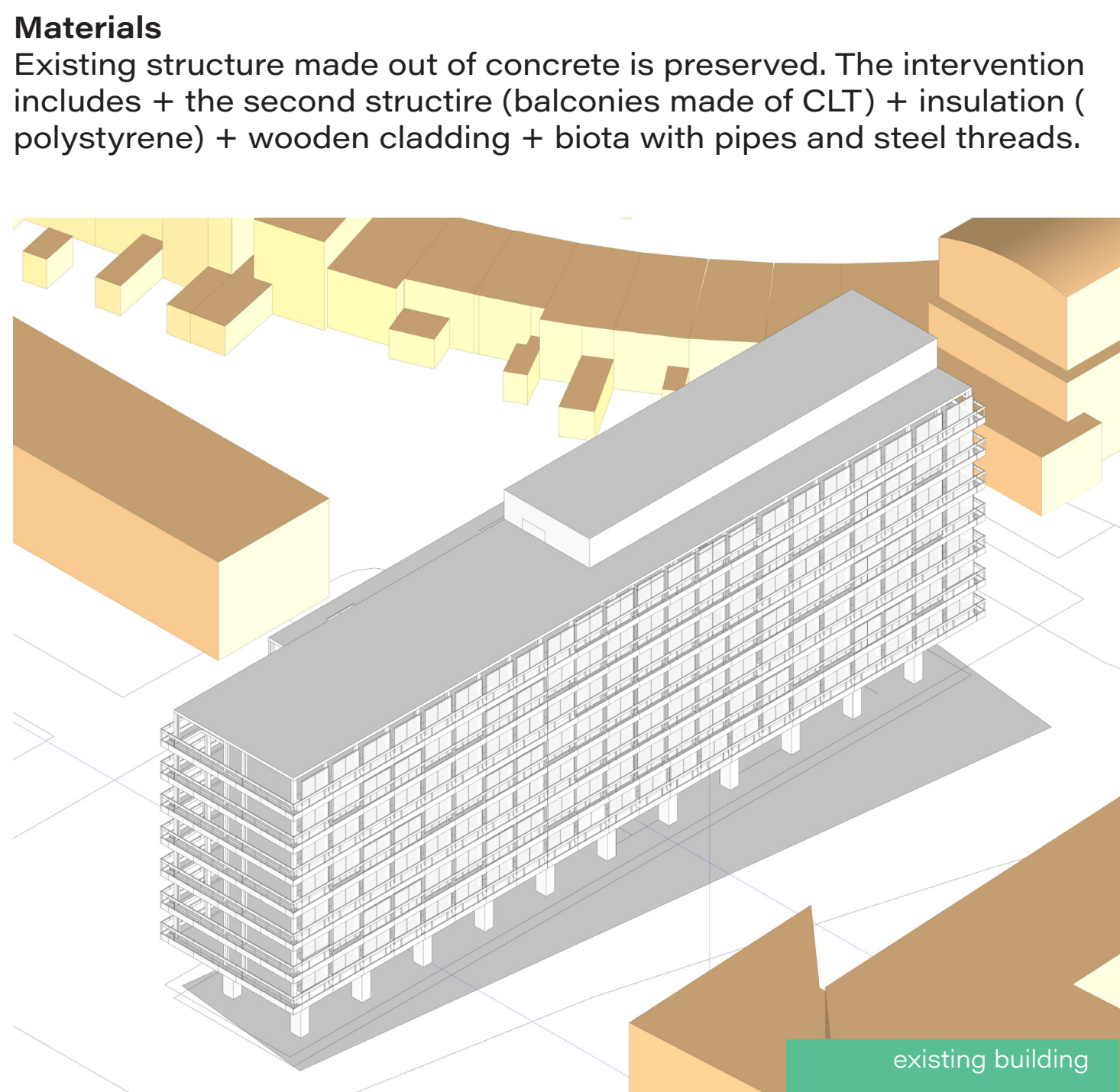
South facade fragment
Summer situation
scale 1-50



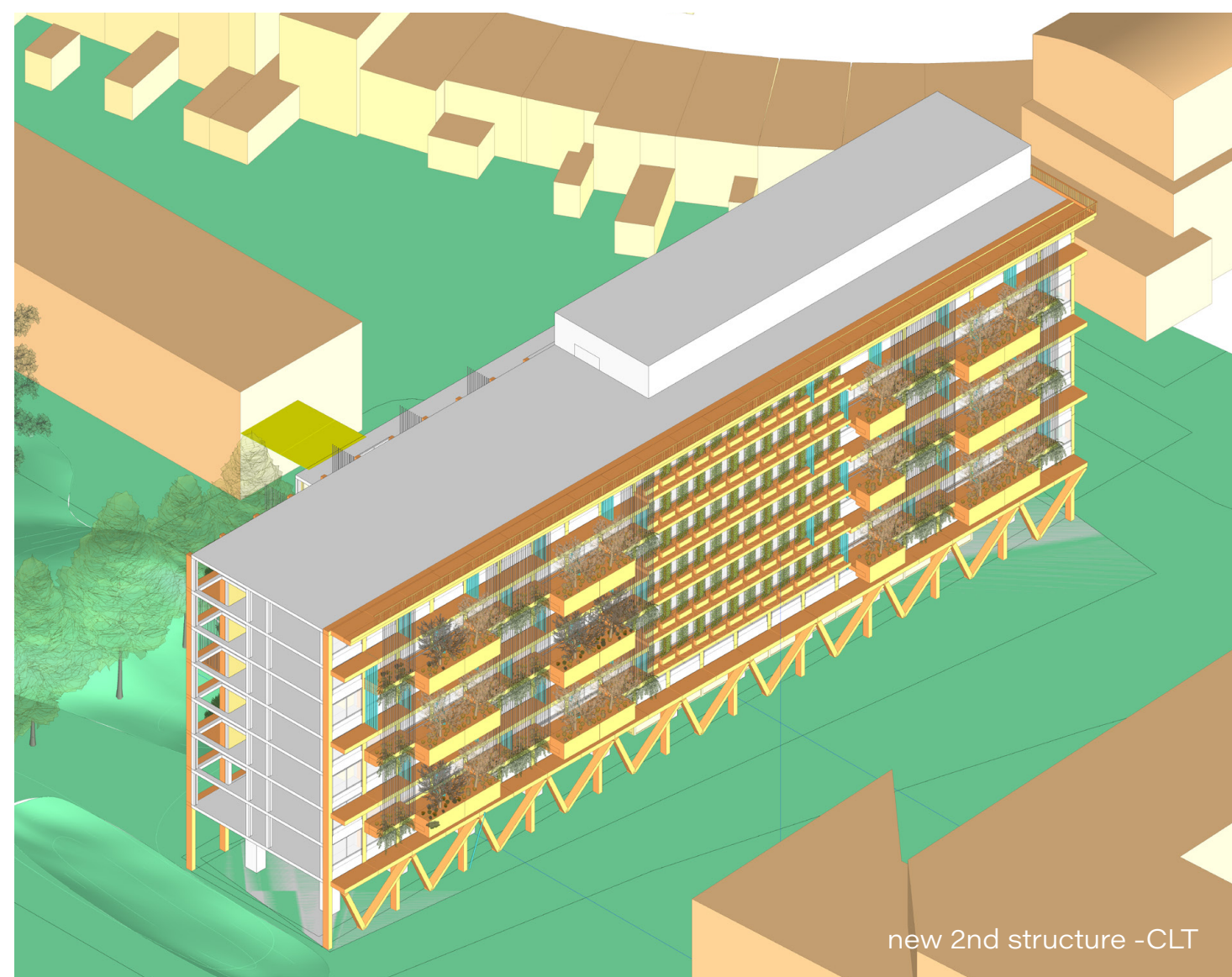
South facade fragment
Winter situation
scale 1-50



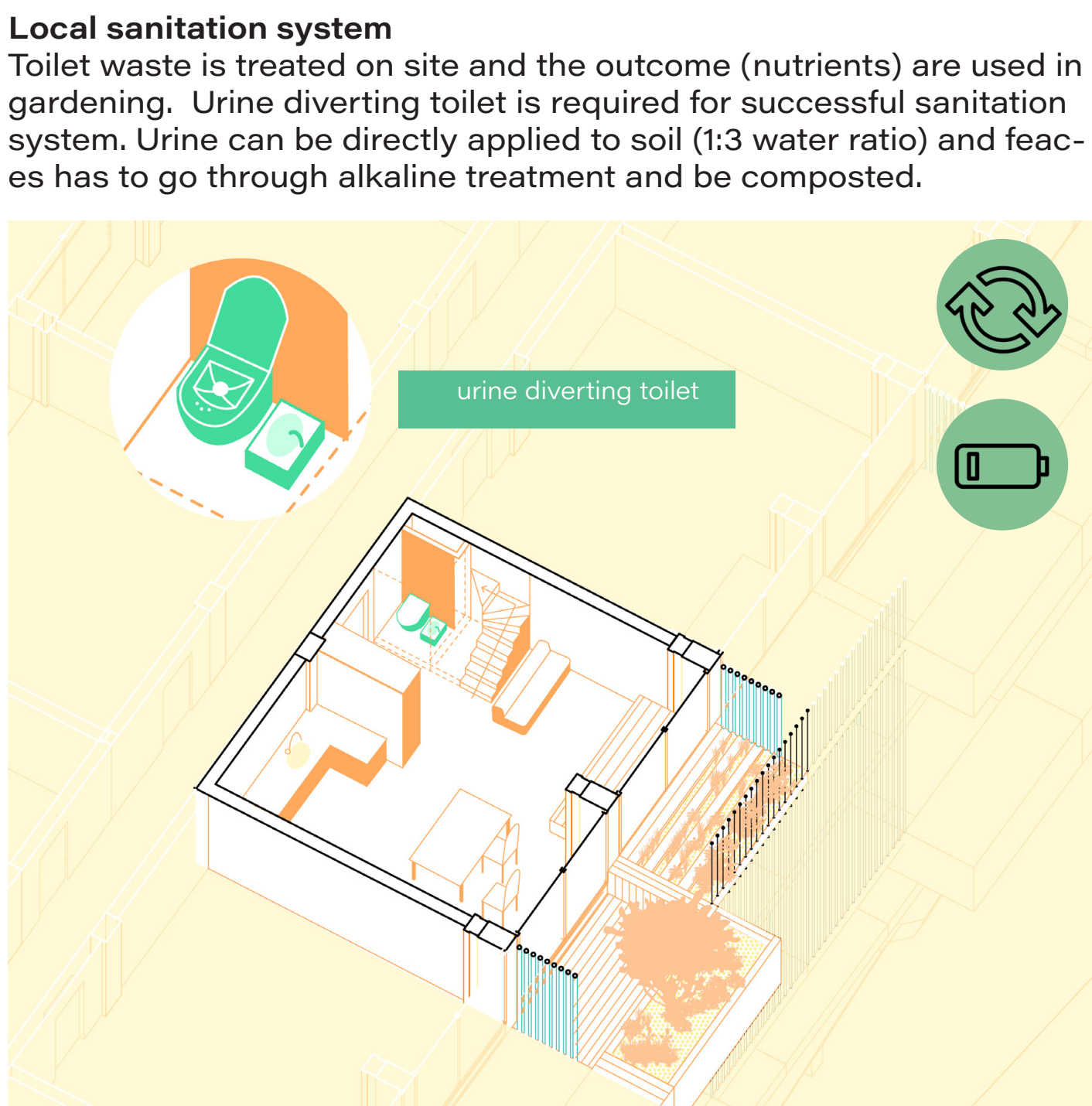
Short Section A
scale 1-100



existing building

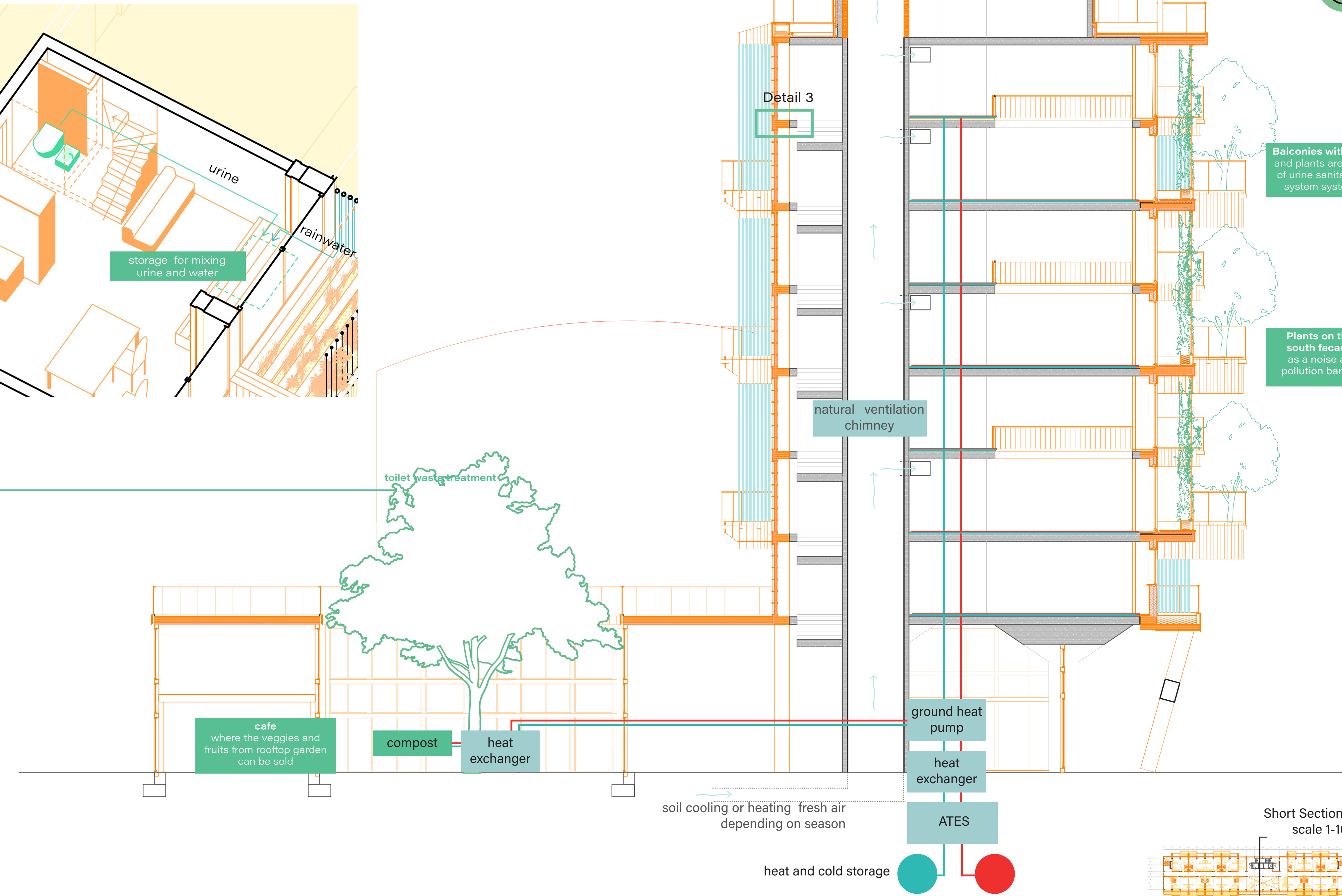
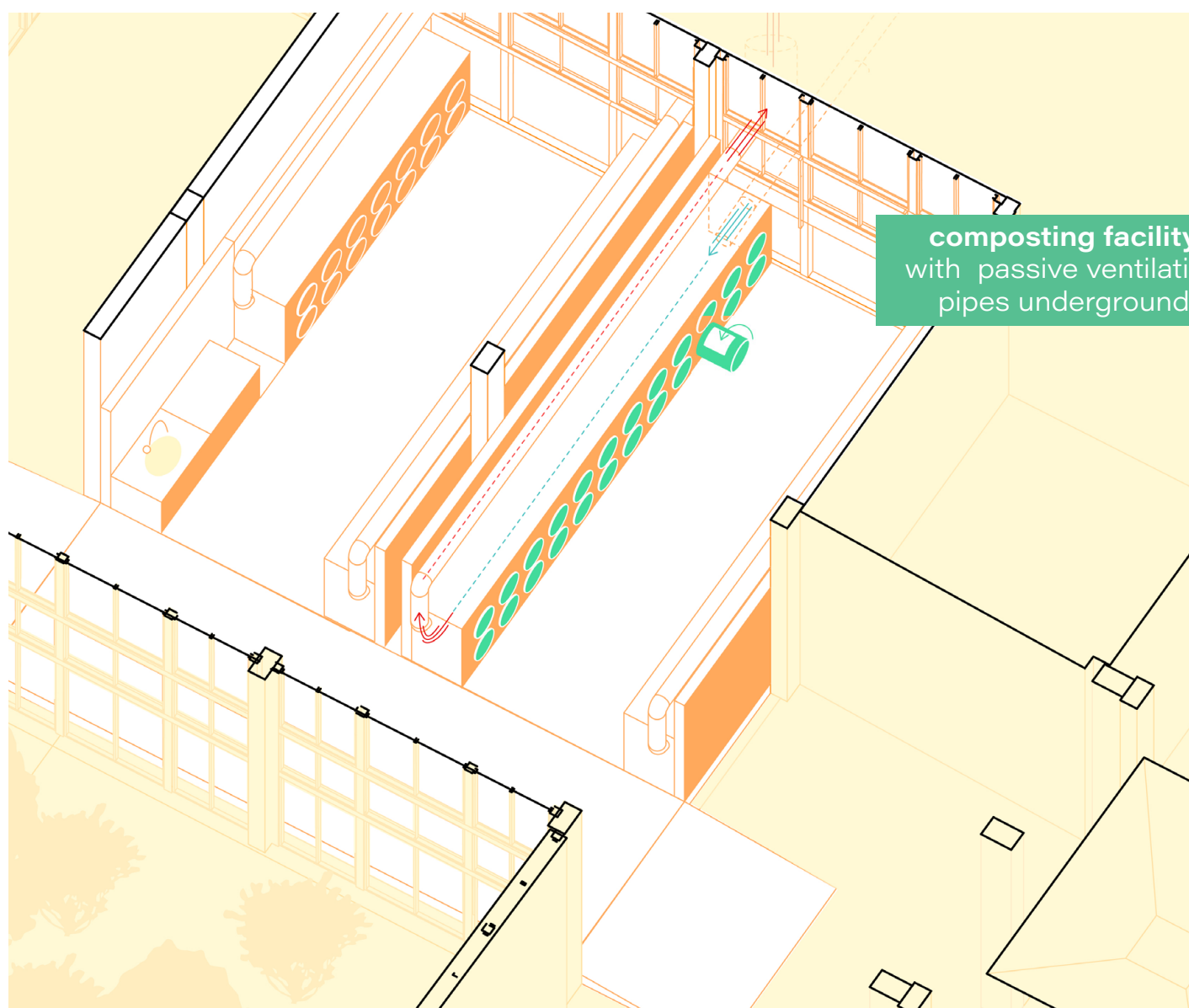
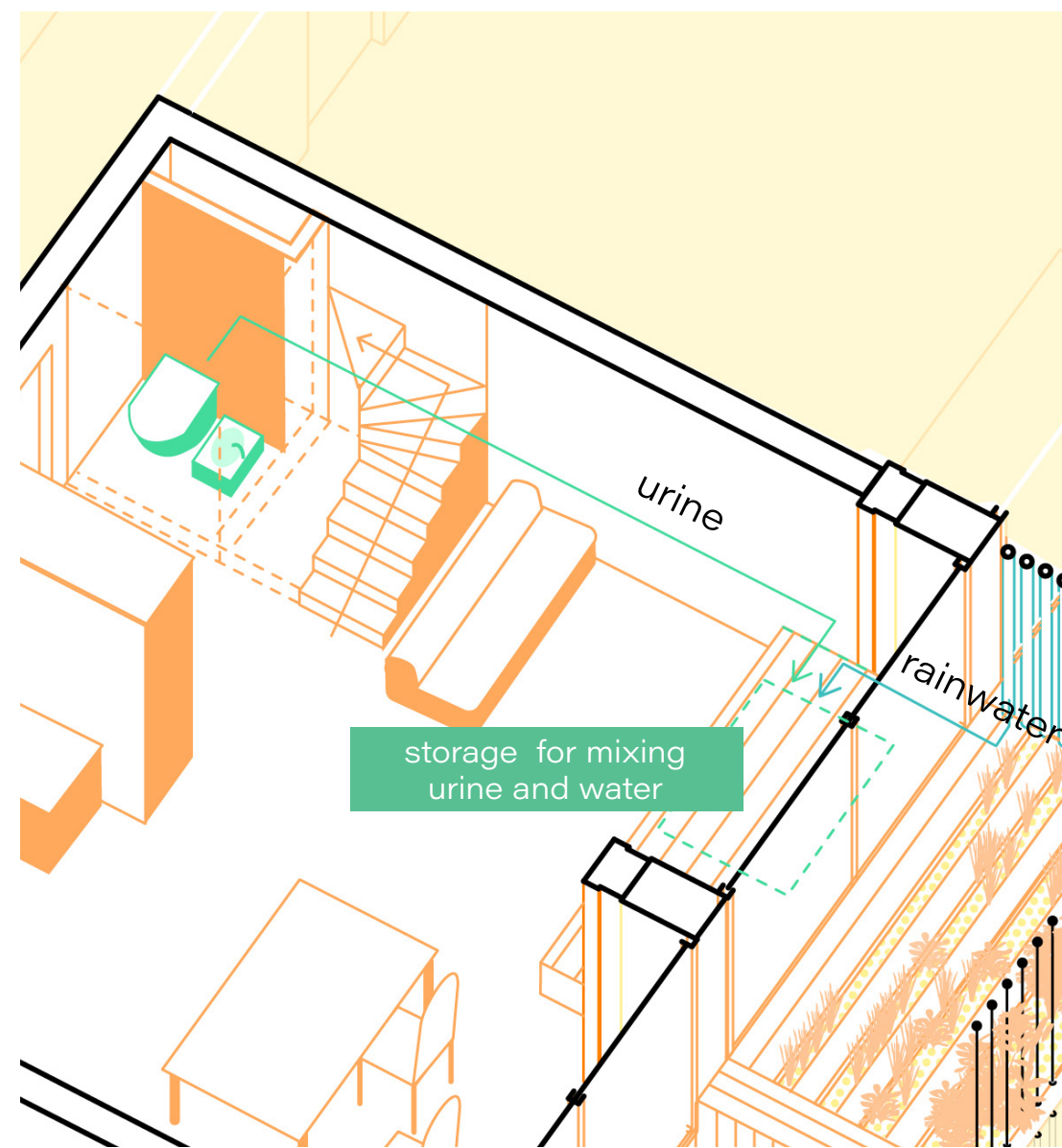


new 2nd structure - CLT



Local sanitation system

Toilet waste is treated on site and the outcome (nutrients) are used in gardening. Urine diverting toilet is required for successful sanitation system. Urine can be directly applied to soil (1:3 water ratio) and faeces has to go through alkaline treatment and be composted.

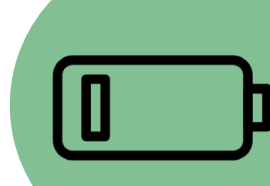


Short Section B
scale 1-100



North Facade fragment
scale 1-100

Strategies on Building Environment



LOW-TECH SOLUTIONS

Minimising the systems that require high-technology support, instead of that natural processes are preferred for achieving building environment comfort for example, for waste treatment the composting, ventilation -natural ventilation, and shading - plants.



REUSE - CLOSING THE LOOPS

The building toilet and kitchen waste is locally treated, this way, it can be safely reintroduced to the environment. It was analyzed from the ingredients' harmfulness to the amount of outcome if it can be processed by plants. Moreover, architectural interventions in roof and ground floor reduce the water runoff and rain-water used in the building.



STRENGTHENING BIODIVERSITY

The variety of habitats such as ponds, wetlands, shadows and places in full sun located on the ground floor, balcony and roof provides food and shelter to local animals and plants. The landscape is sustained with nutrients from the compost.

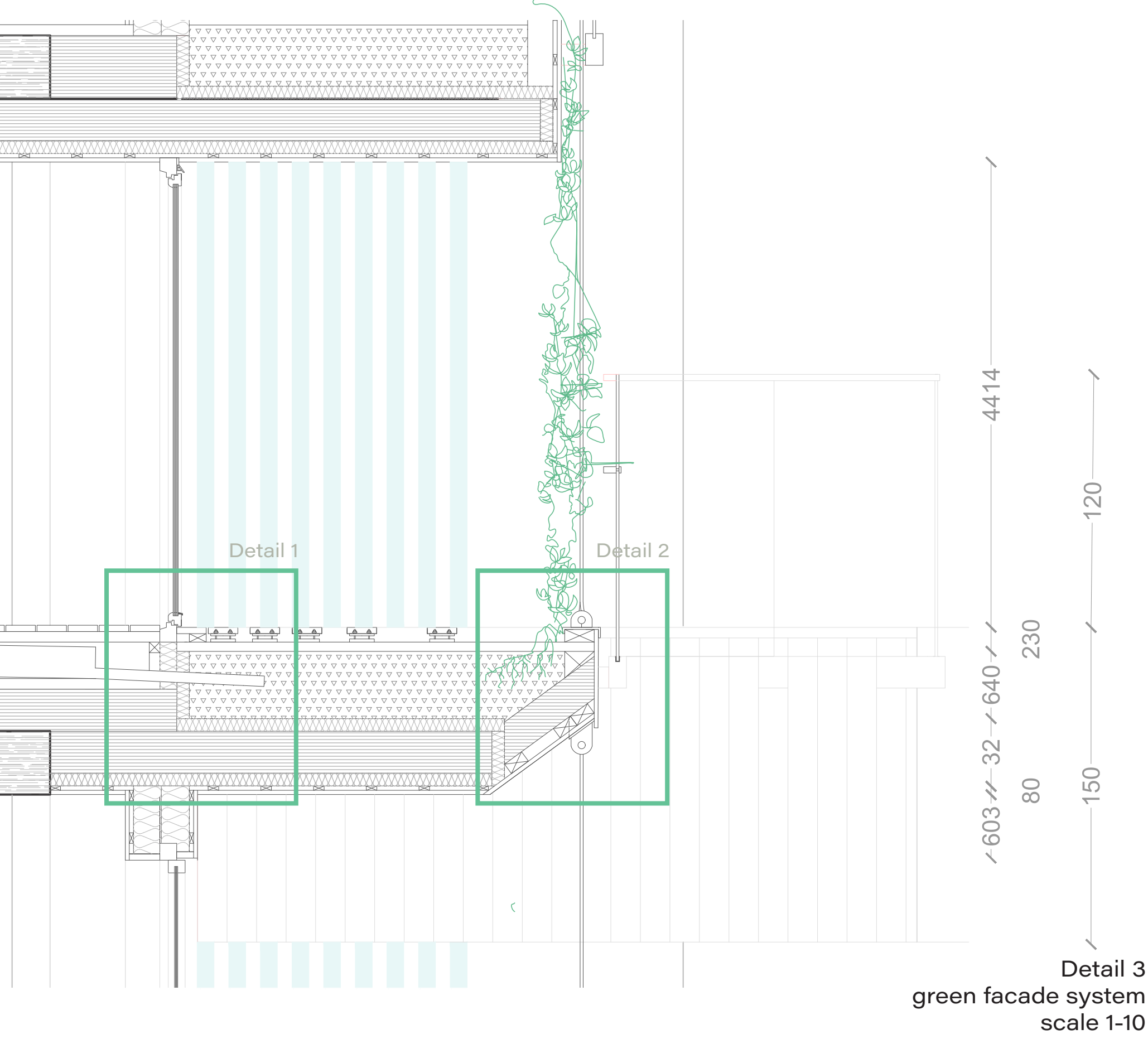


USER AWARENESS

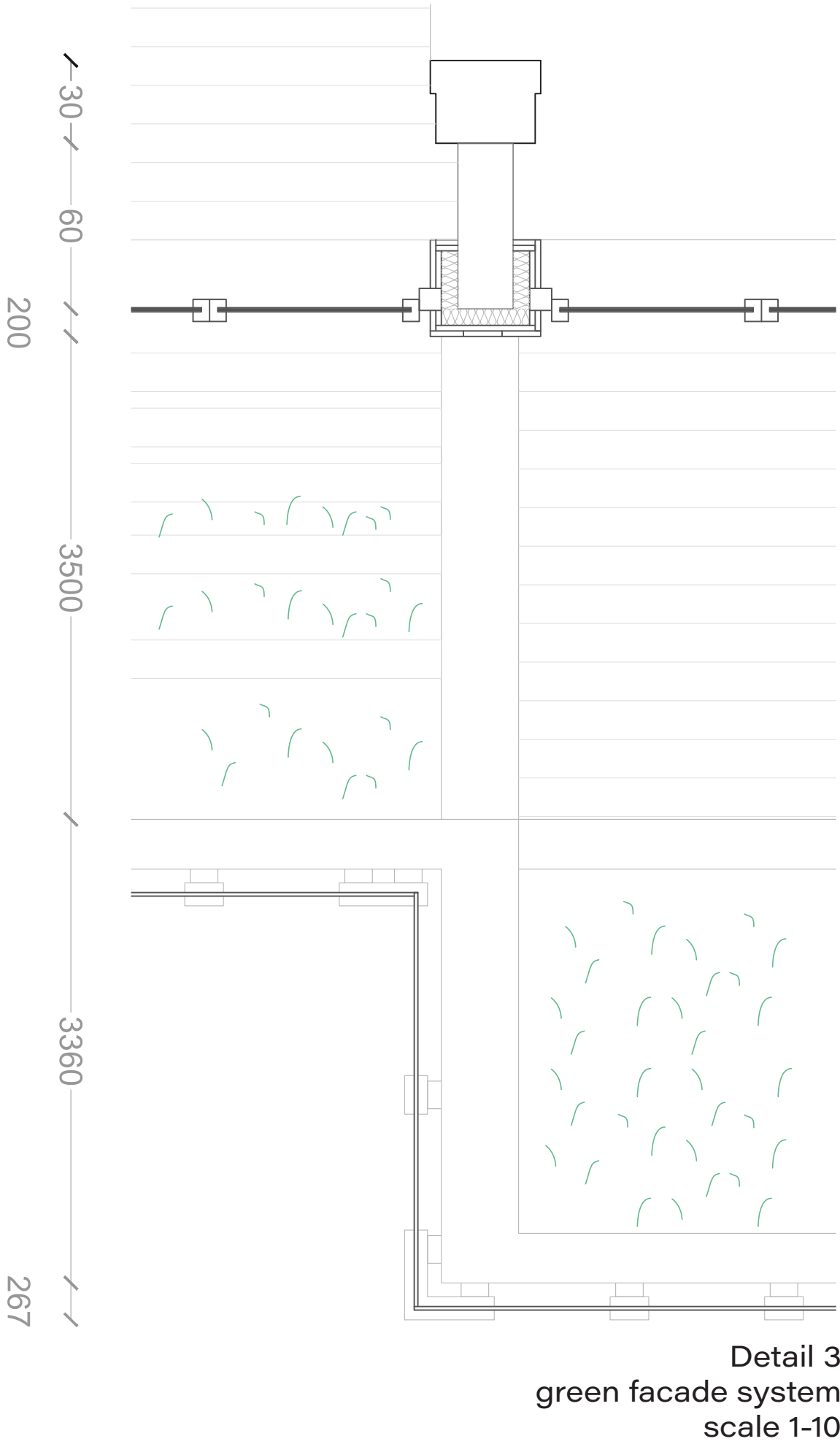
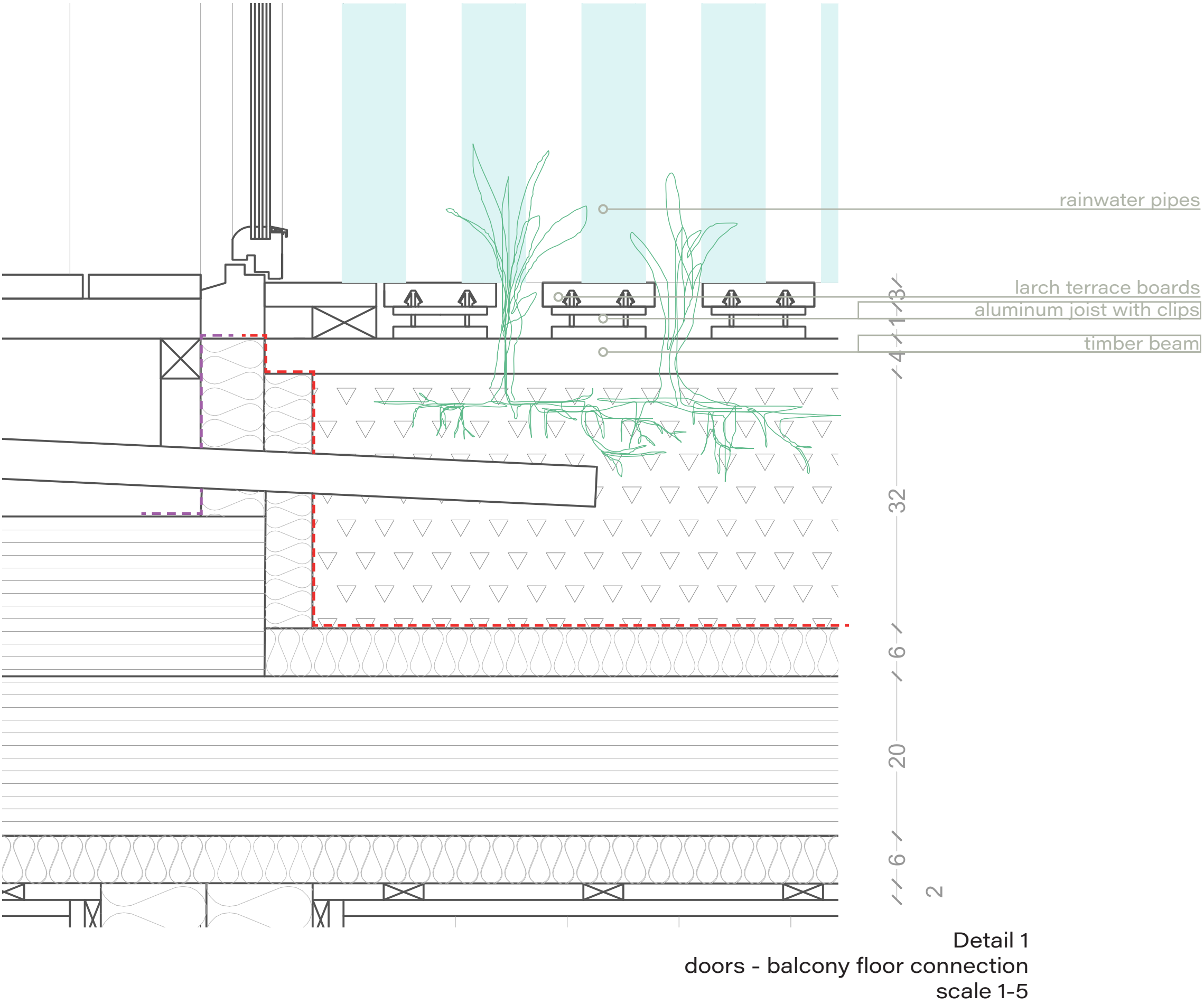
Because of the programme of the building (living close with nature and treating waste locally) the awareness if human impact on environment is raised. Residents should pay attention to their behaviour in different seasons - not open the windows in hot summer days, wear warm clothes in winter and following the permaculture principles, pickle or share food when there is too much.

Building as a landscape
a way to connect people with nature

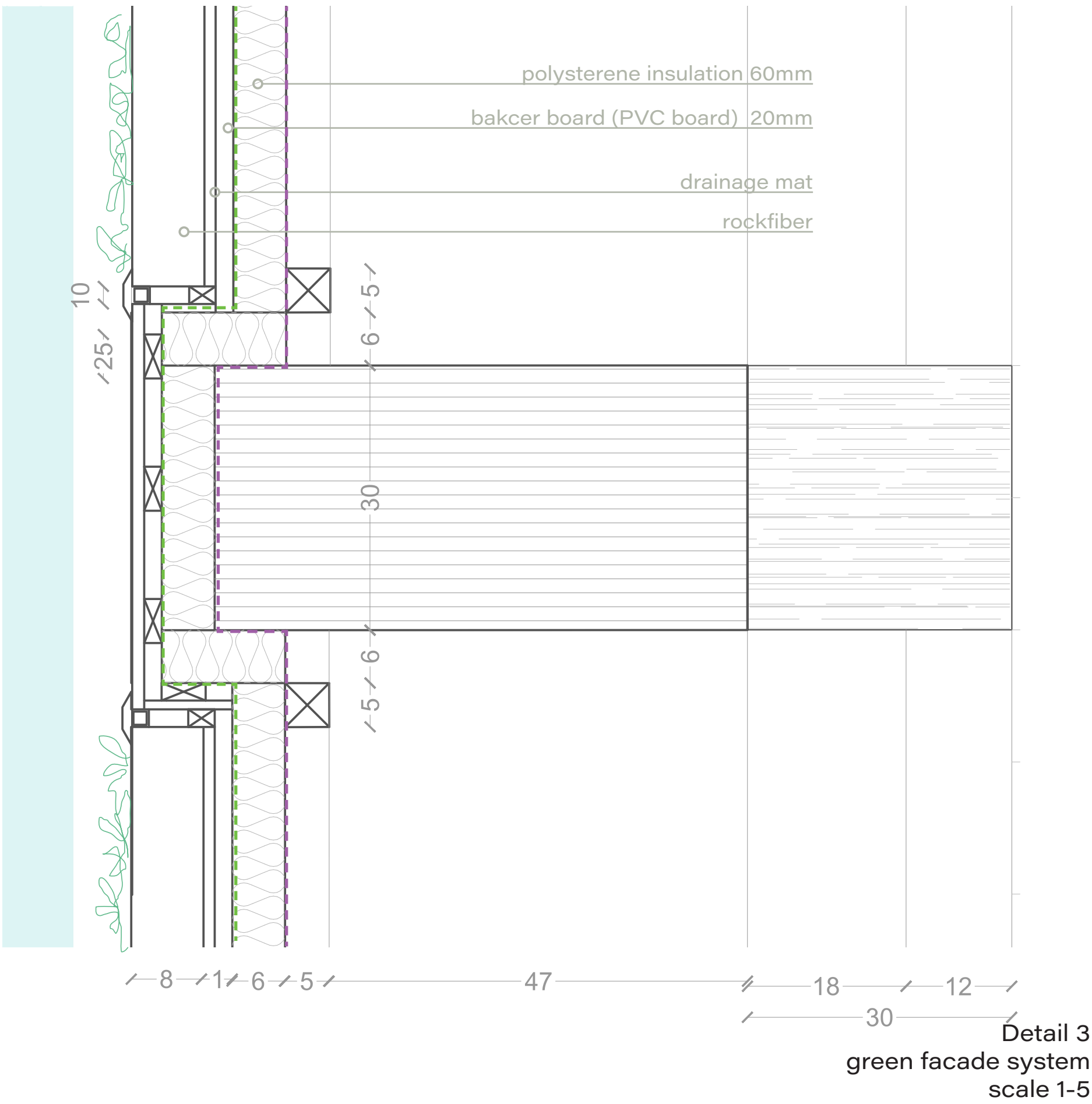
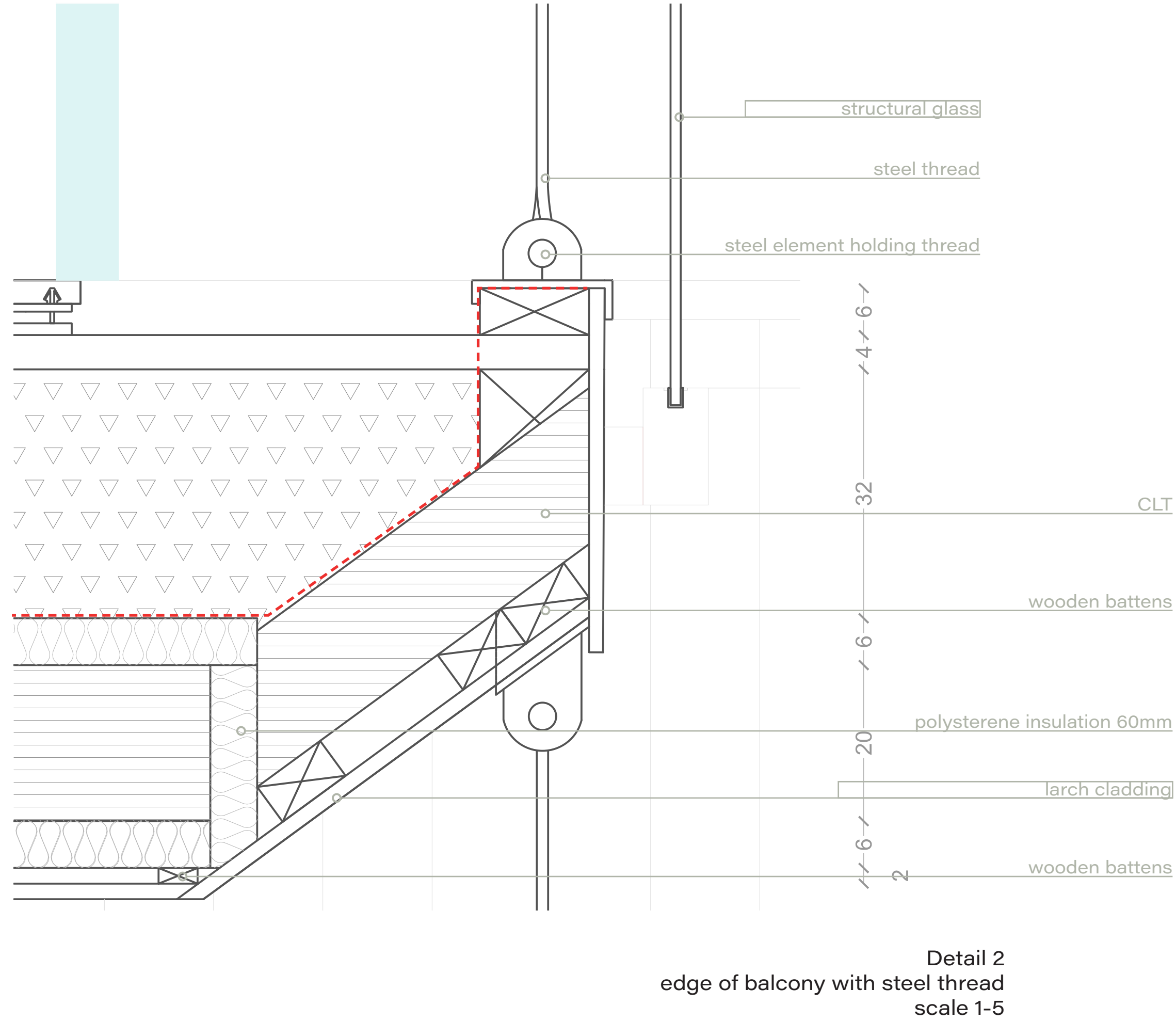
Adrianna Waleszczak



Detail 3
green facade system
scale 1-10

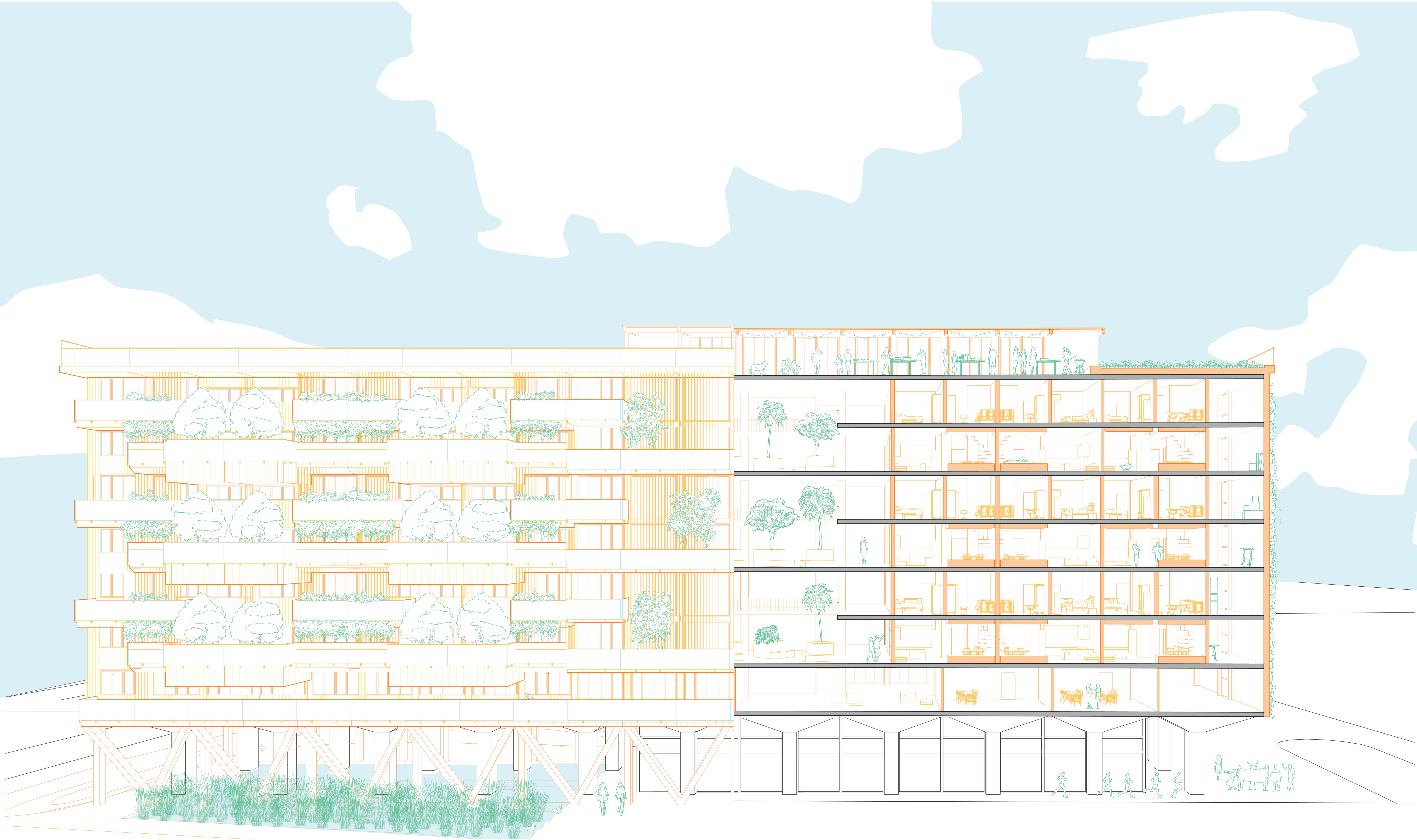


- Legend
- soil
 - polystyrene
 - CLT
 - Damp proof membrane
 - Breather membrane
 - Vapour barrier





SPRING
Each season brings different requirements and qualities



SUMMER
Each season brings different requirements and qualities



AUTUMN
Each season brings different requirements and qualities



WINTER
Each season brings different requirements and qualities