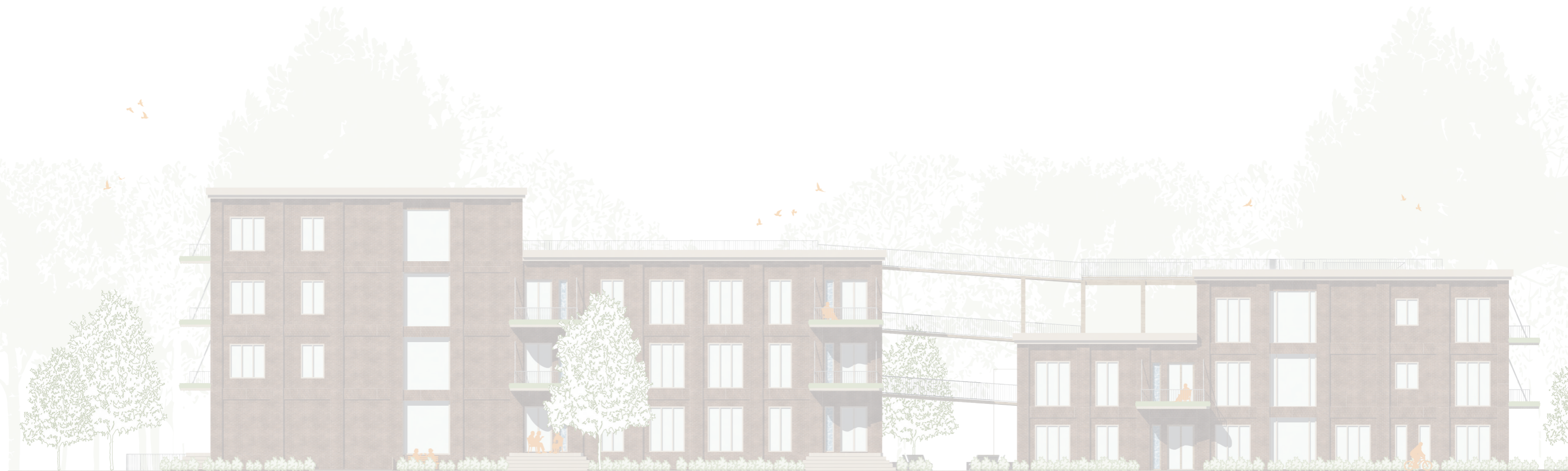


THE NEXT CURRENT

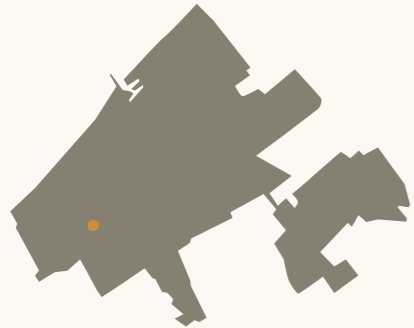
A design for active ageing



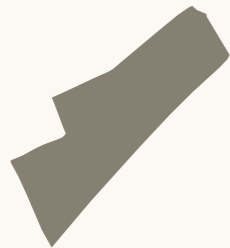
Project area



The Netherlands



The Hague



Houtwijk



Context



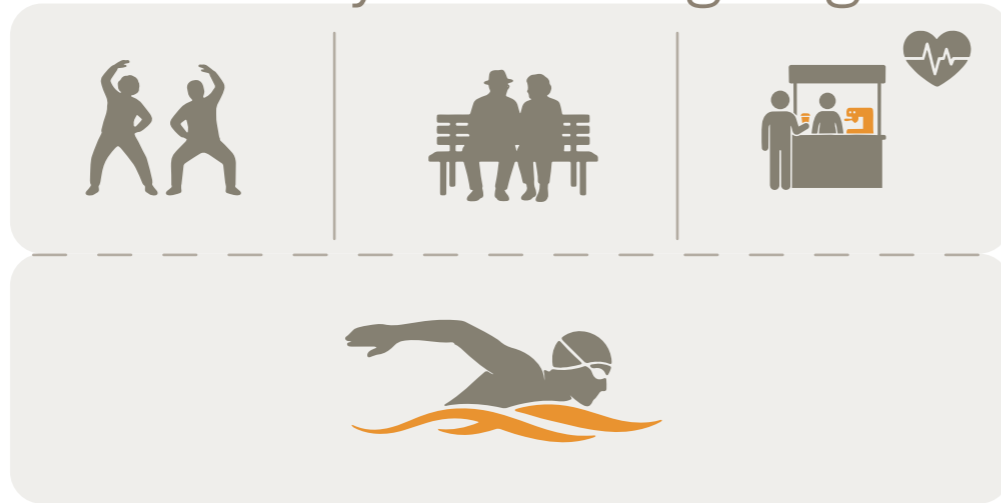
Research question

How can housing for older adults be spatially designed to support active ageing and contribute to better housing flow in Houtwijk?

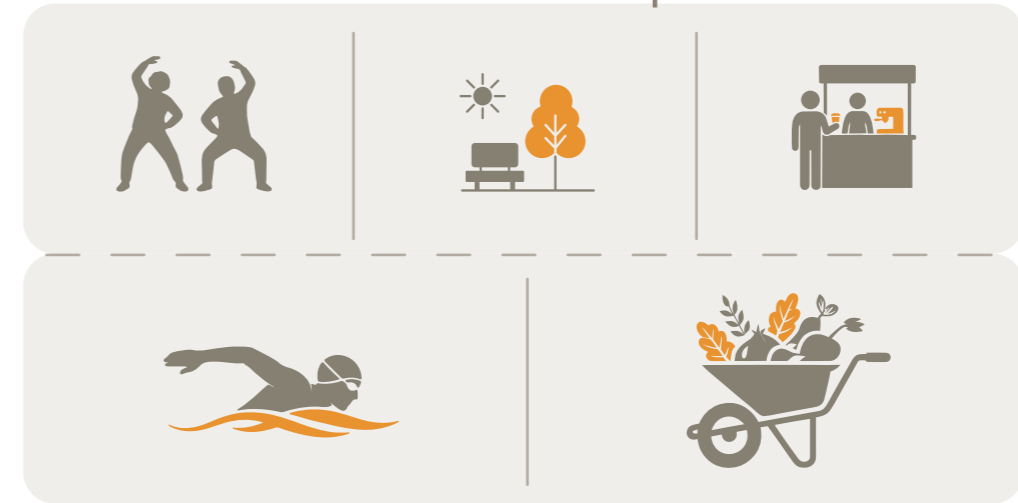


From research to design

Theory: Active ageing



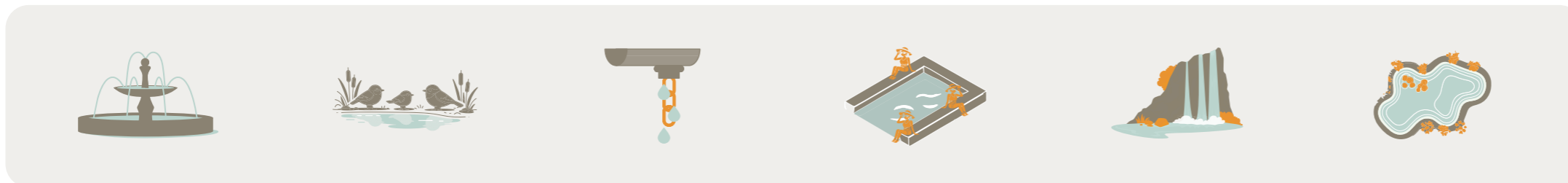
Workshop



Shared findings



Water as the instrument



Greenery



Design principles



Reflection & Light



Sound of Water



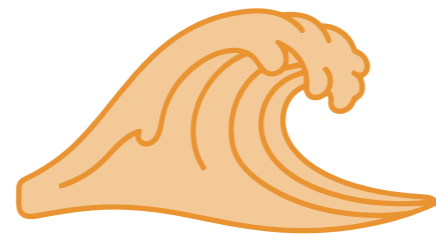
Social & Psychological Impact



Human activity



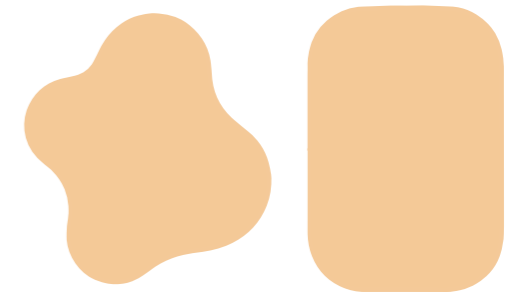
Psychological Effects



Movement



Ecology

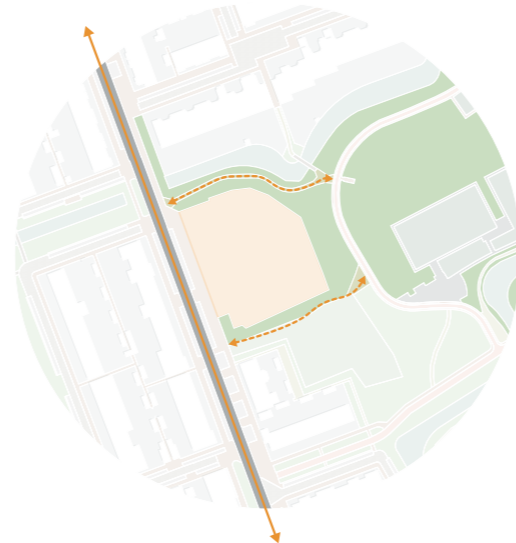


Shape

Site selection



- Wind orientation
- Sun path
- Tree
- Building line



- Main road
- Walking paths
- Park



- Entrance street
- Households with older adults
- Unsafe area
- Community

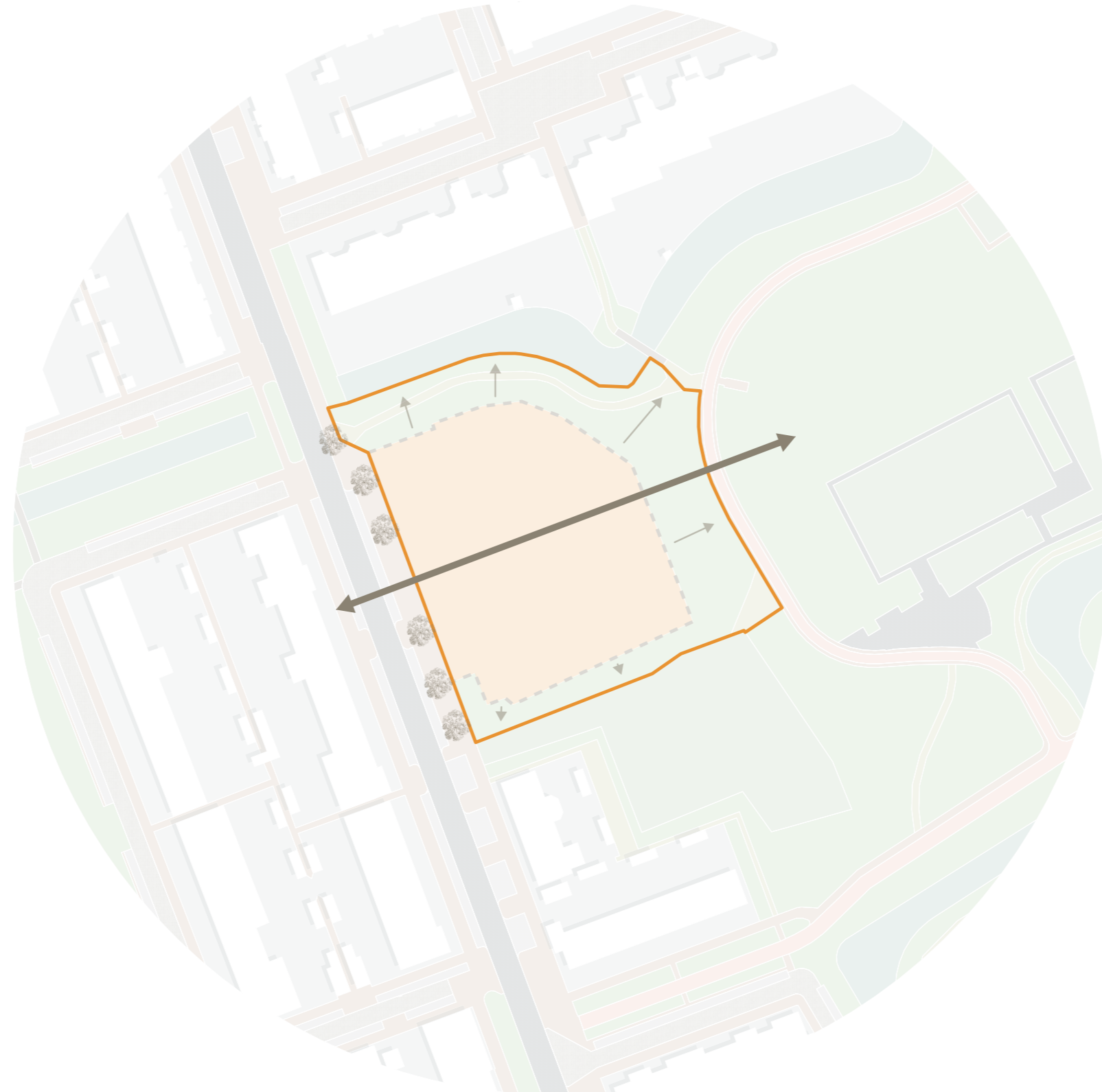






- Entrance to park
- Water structures
- Green area
- Bike lane



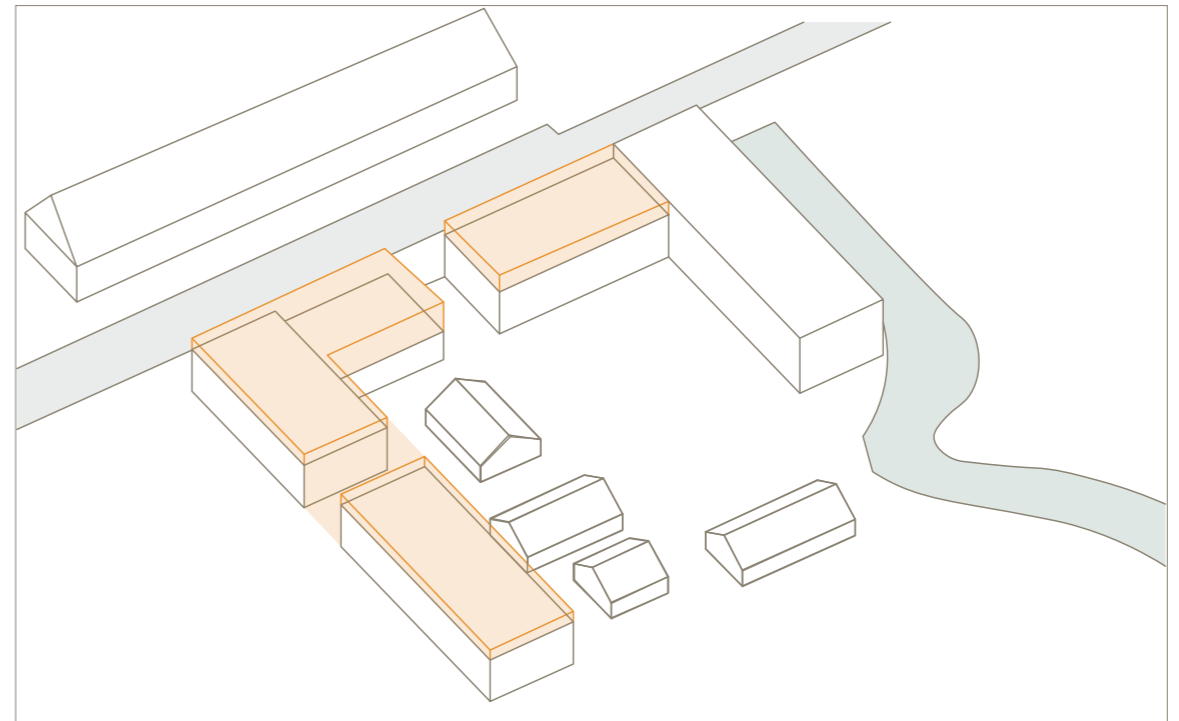
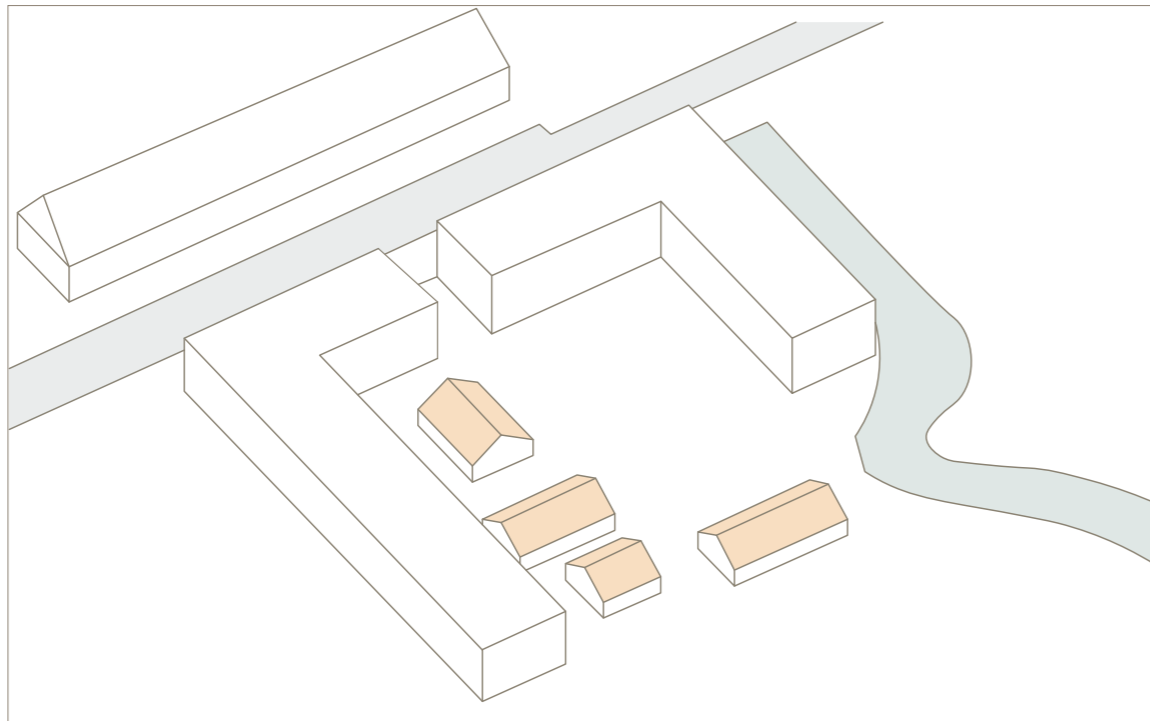
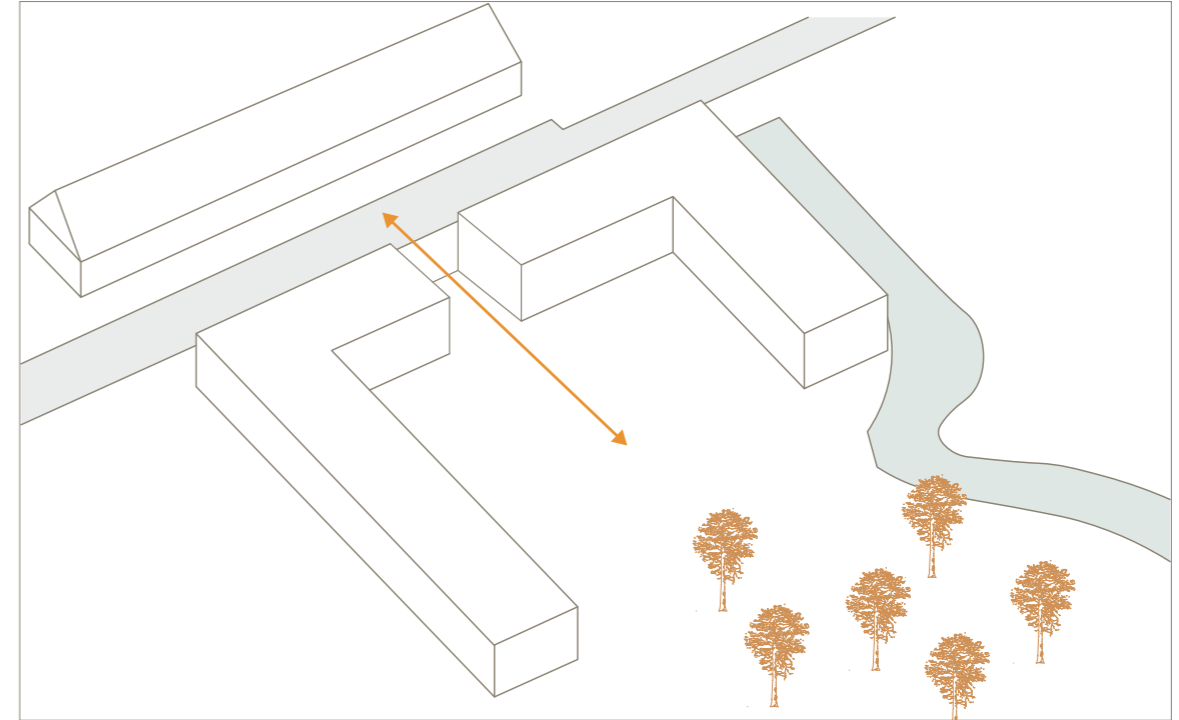
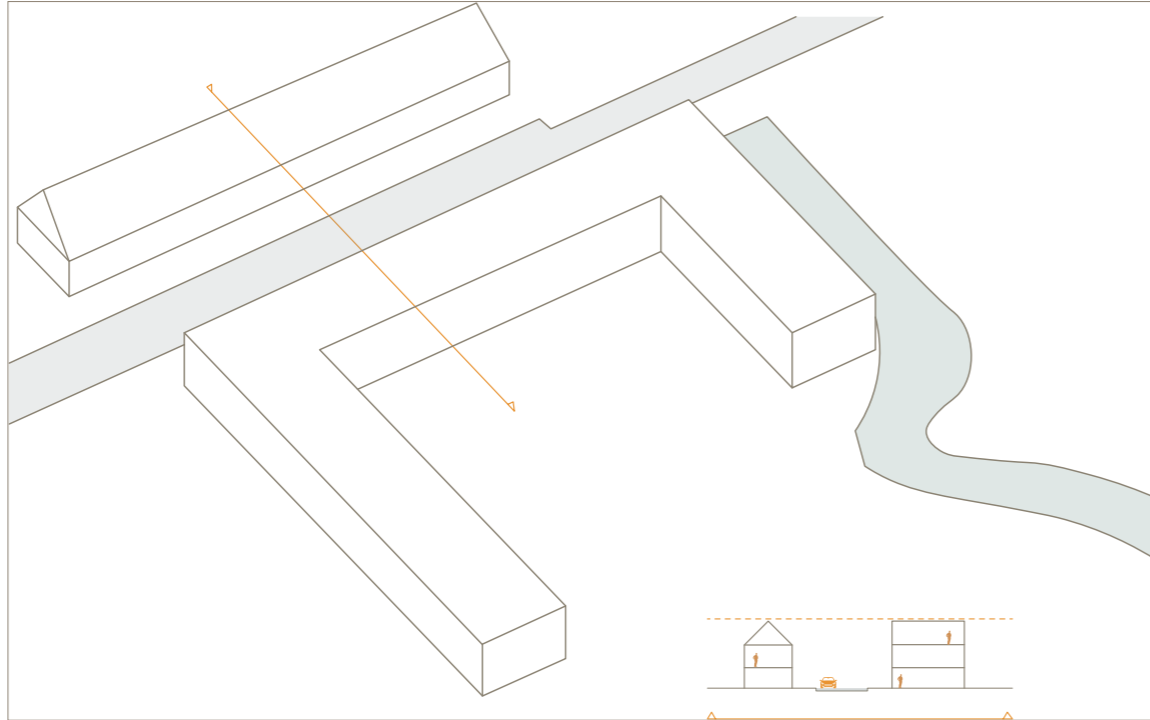
- Neighborhood road
- Bike lane
- Tram stop
- Main road
- Bus stop

Site selection



-  New boundary
-  Tree
-  Expansion of boundary
-  Sightline

Building form



Program

Collective & encounter spaces

- Public, sheltered outdoor space
- Wide gallery/ hallway
- Front doors facing each other
- Entrance as meeting place
- Mailboxes at the ground floor
- **Workshop space**
- Coffee place
- Opening to park
- Communal vegetable garden
- Walking path
- Green space

Movement (low intensity)

- **(Sheltered) walking path**
- Communal vegetable garden

Movement (high intensity)

- **Swimming pool**
- Fitness area

Living quality

- Privat outdoor garden
- Bedroom
- Livingroom
- Kitchen
- Bathroom
- Storage space in the apartment
- (Extra) Hobby room
- Minimal 80 m²
- Light
- Laundry room
- Wheelchair accessable
- **Single level home**
- View
- Storage space at the ground floor
- Guest room
- Space for maintenance

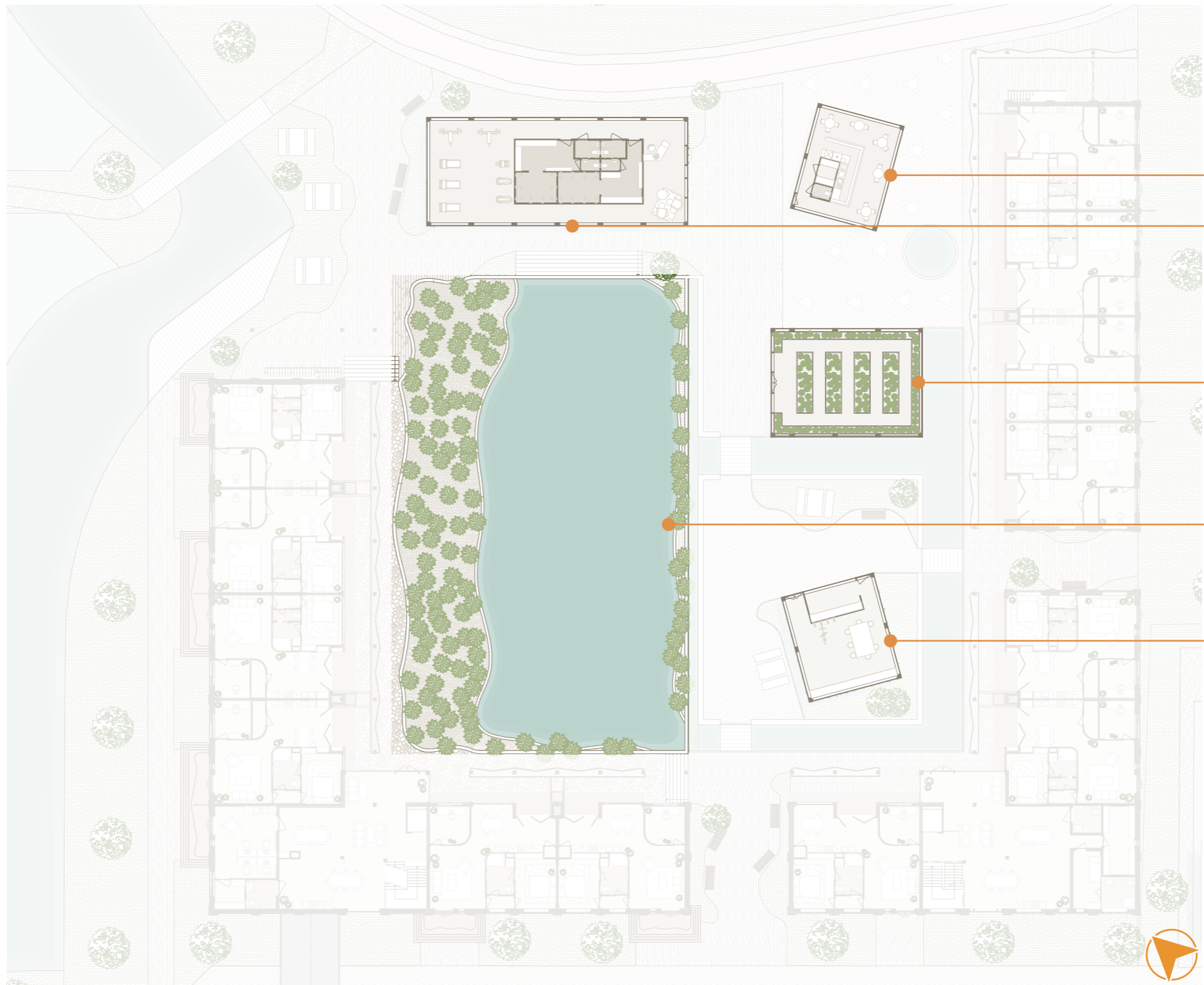
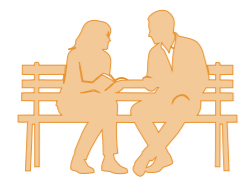
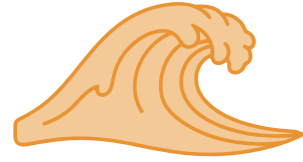
Health service

- Space for home care
- Toilet near public functions
- Showers at swimming pool
- Changing rooms at swimming pool

Site



Social functions



Coffee place

Fitness area

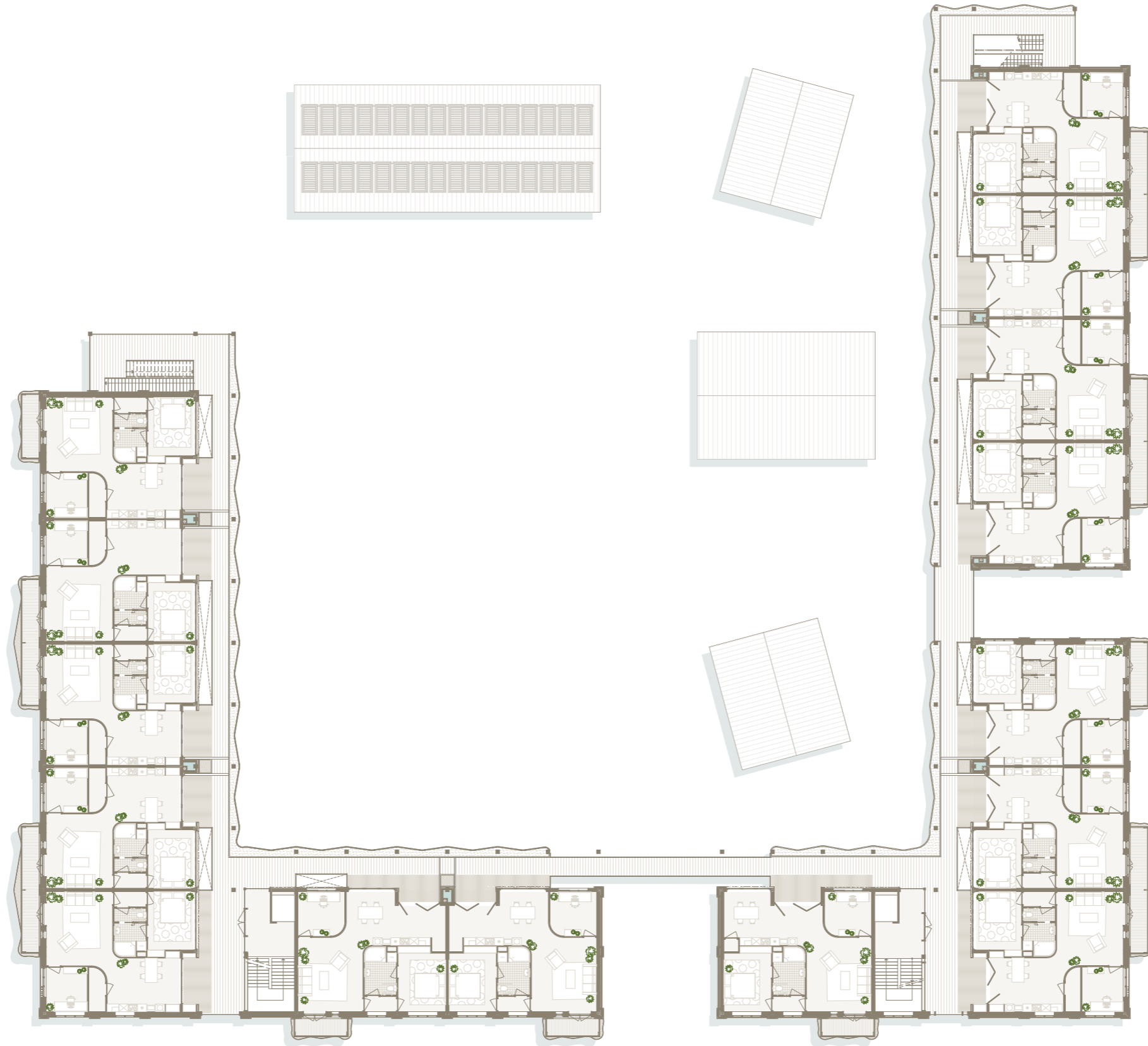
Vegetable garden

Swimming pool

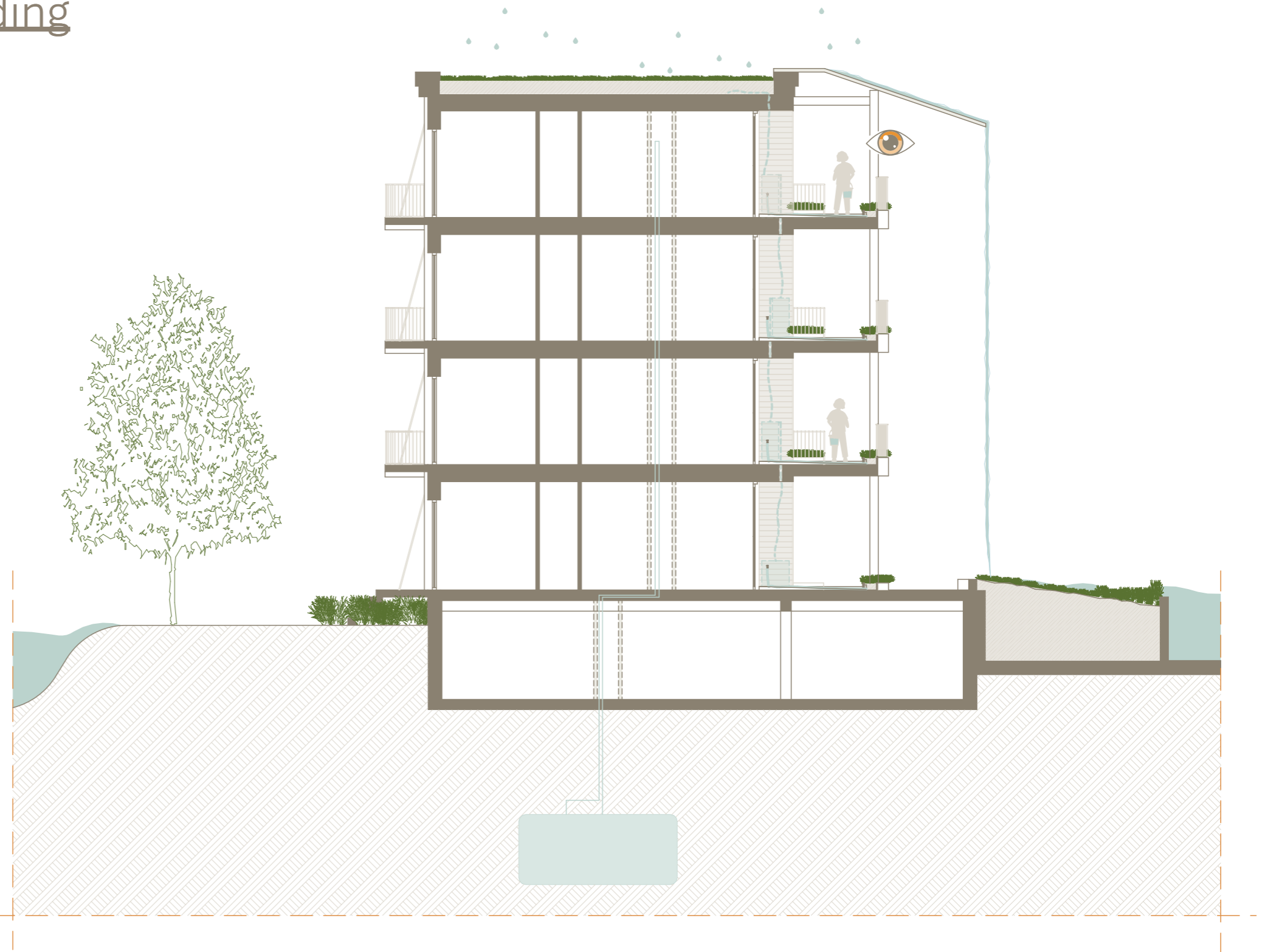
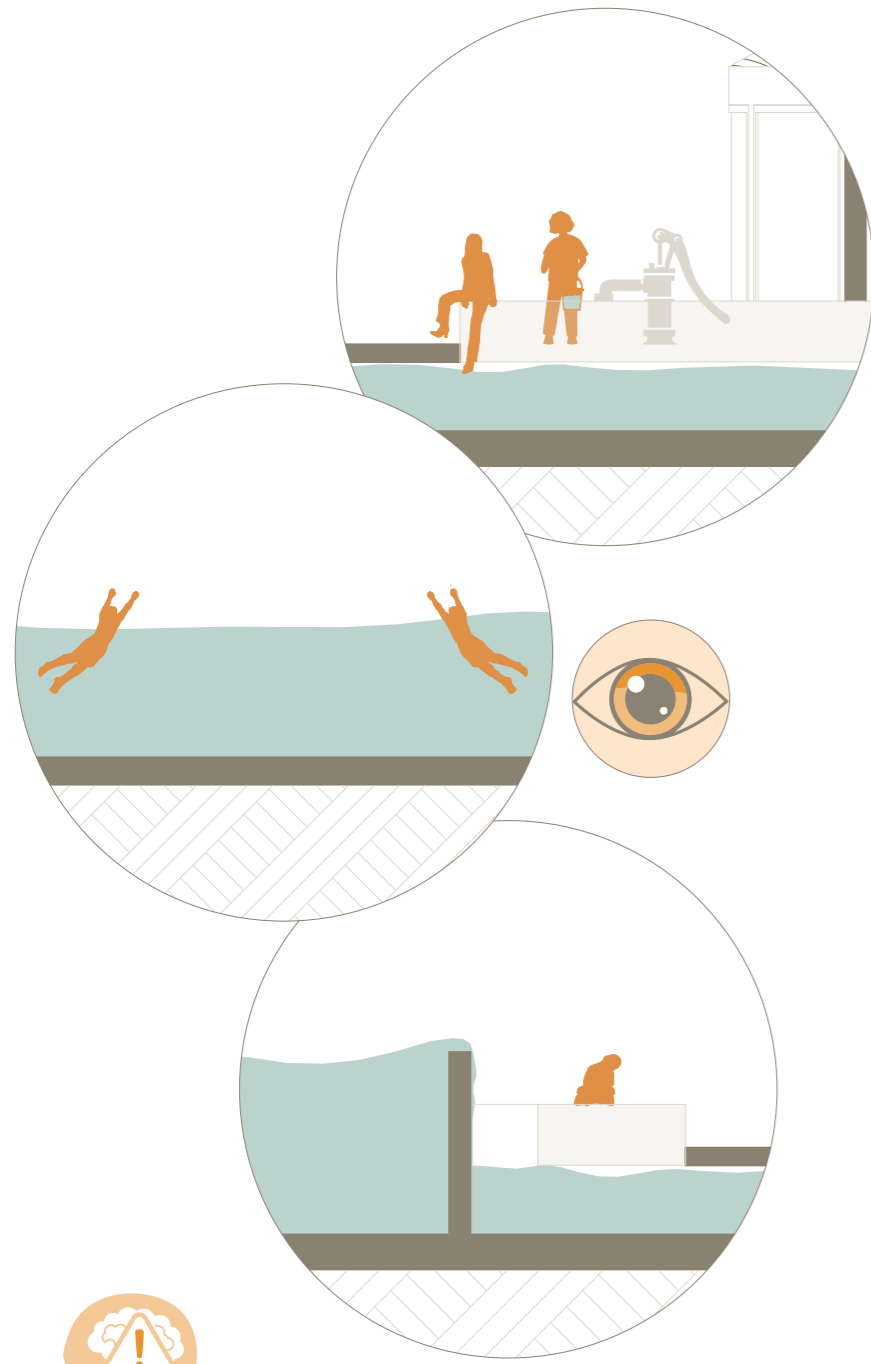
Workshop space



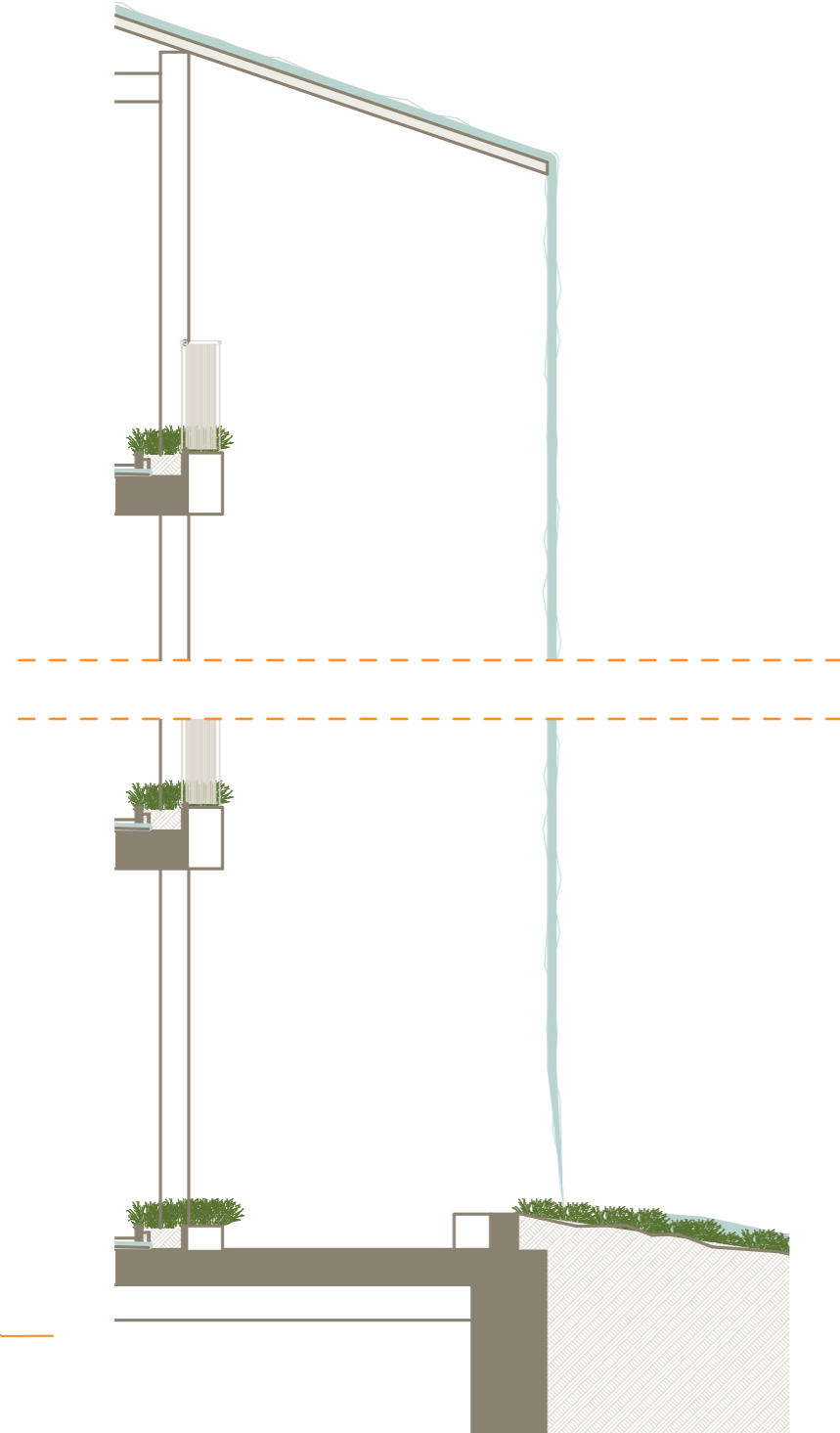
First floor



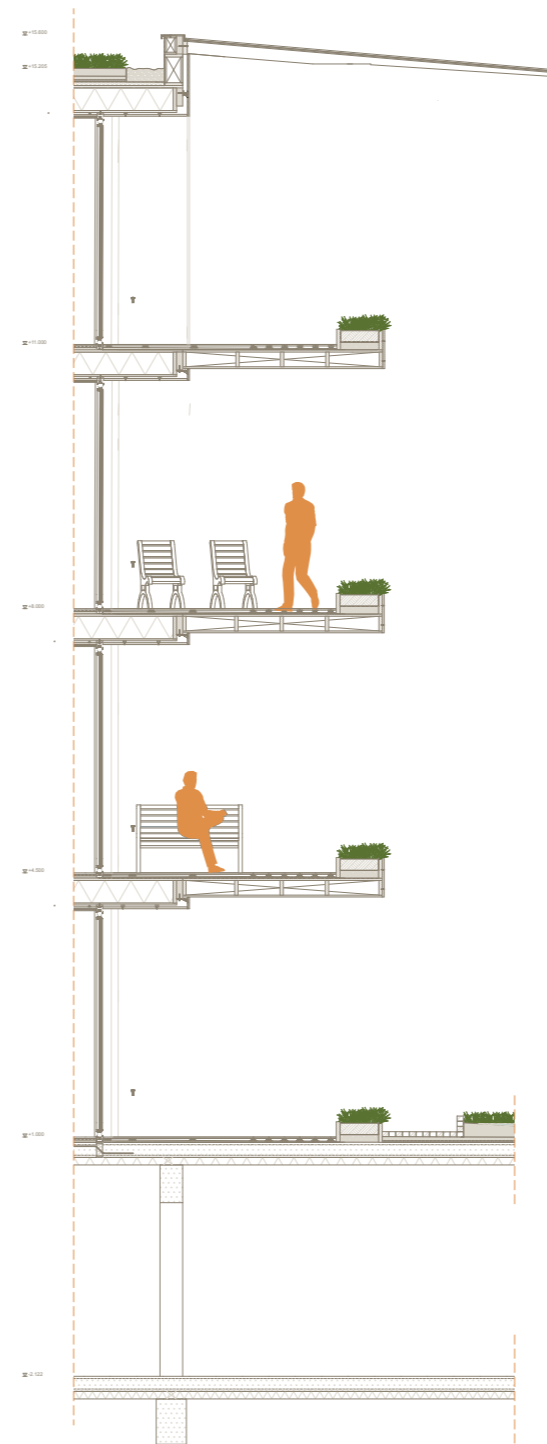
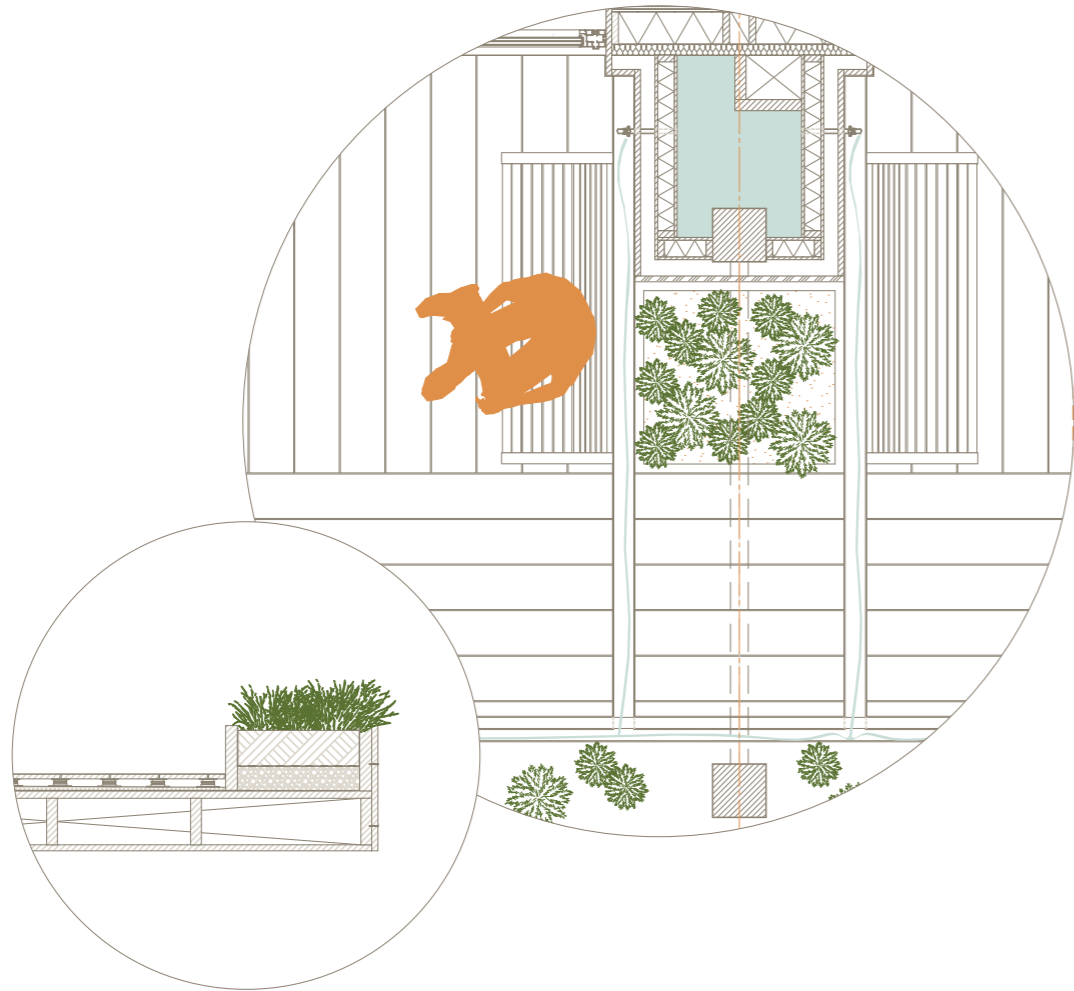
Active ageing on the building



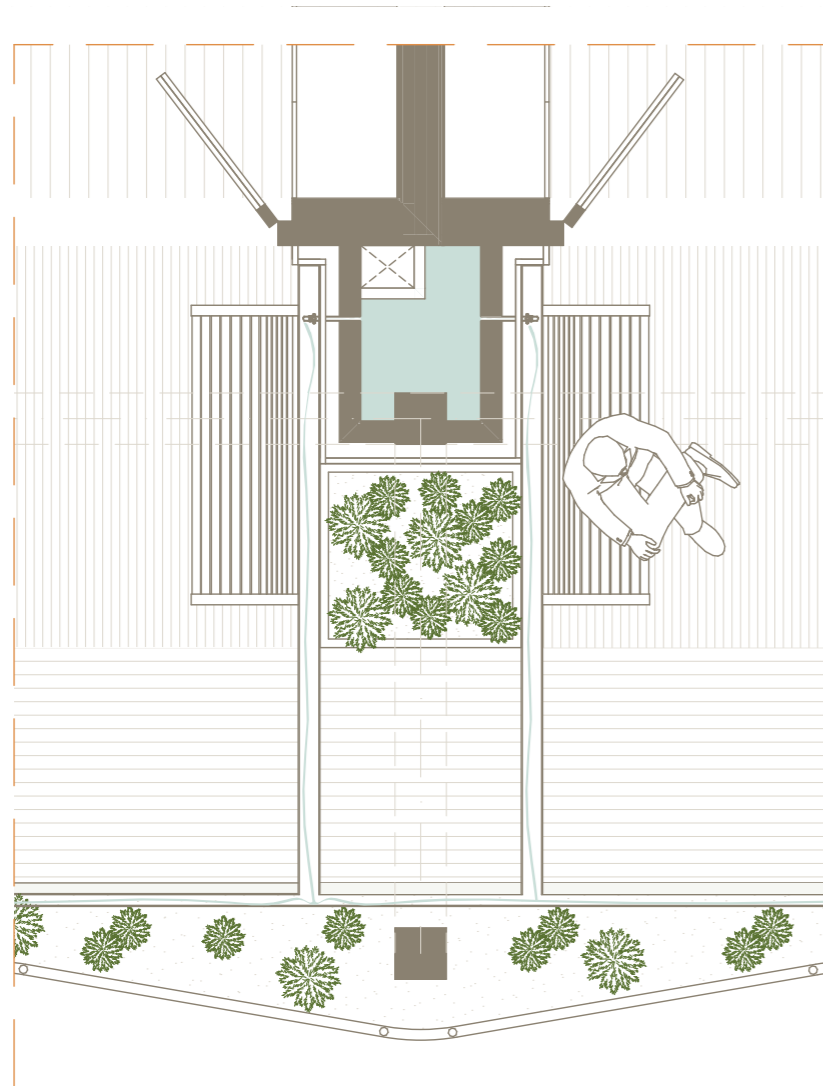
Active ageing on the building



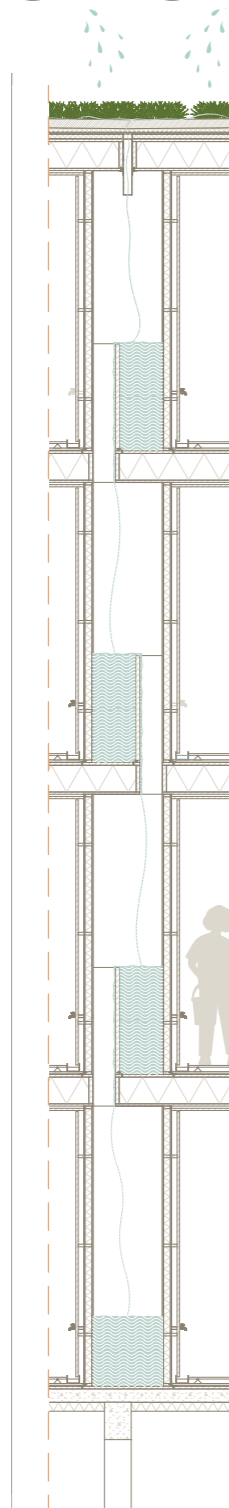
Active ageing on the building



Active ageing on the dwelling

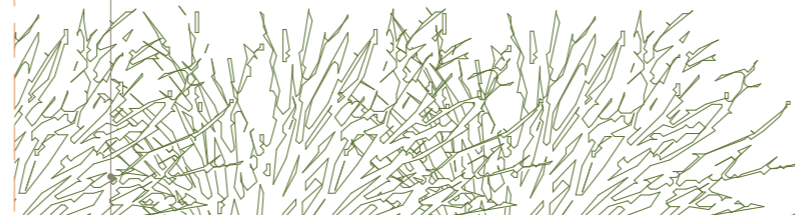


Active ageing on the dwelling



Plasterboard
Plasterboard
Suspended ceiling
Kertoripa 356
Breathable waterproof membrane
Tapered insulation
Breathable membrane
Root barrier fabric
Drainage layer
Water retention layer
Substrate
Plants

100
72
7
50
31
300
25
25
25
13



Pluvia rainwater system
Gravel

Wooden rack
Aluminium roof edge trim

Solarlux SDL Aura
Laminated glass

11
10
160
4,16

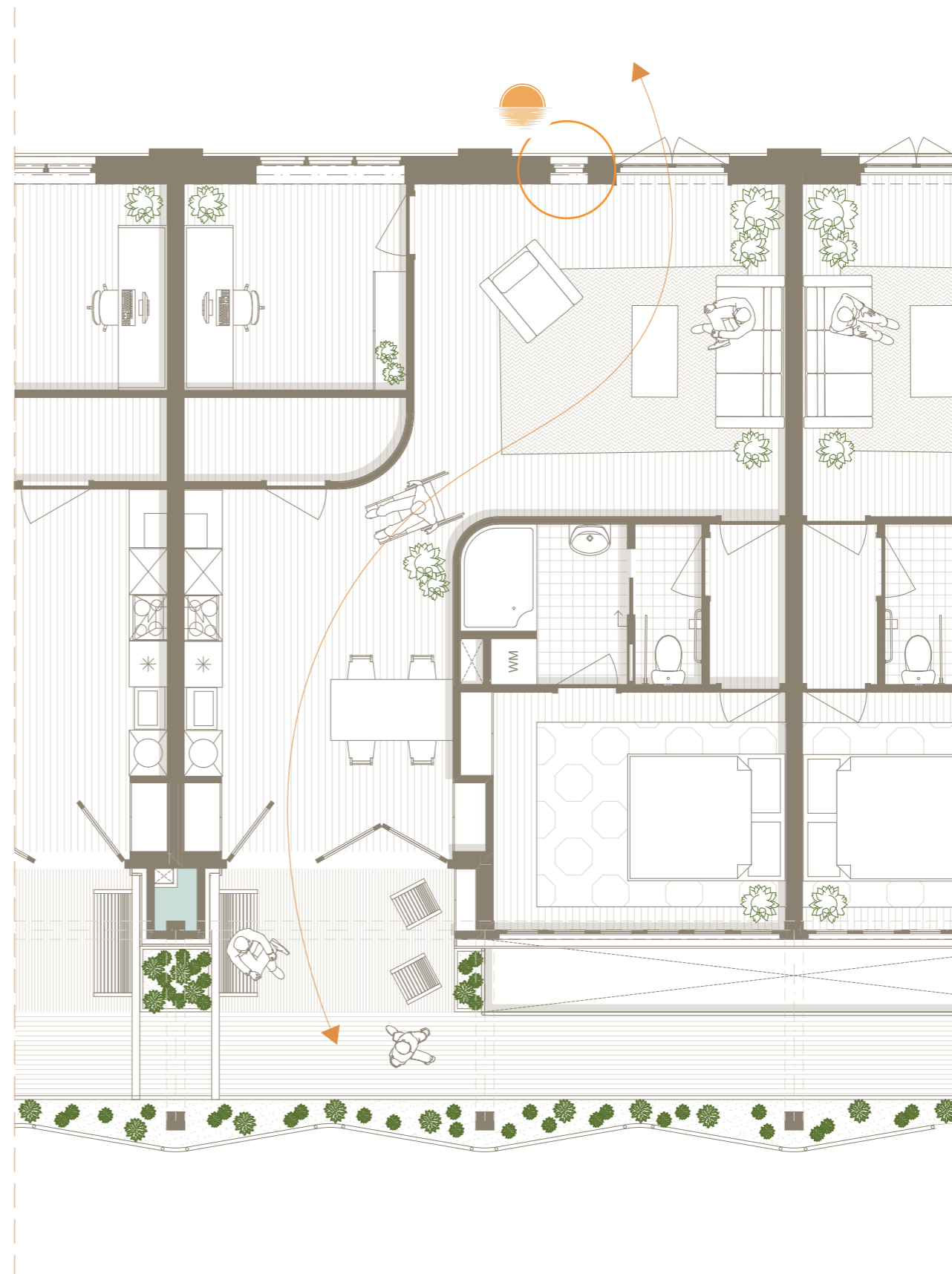
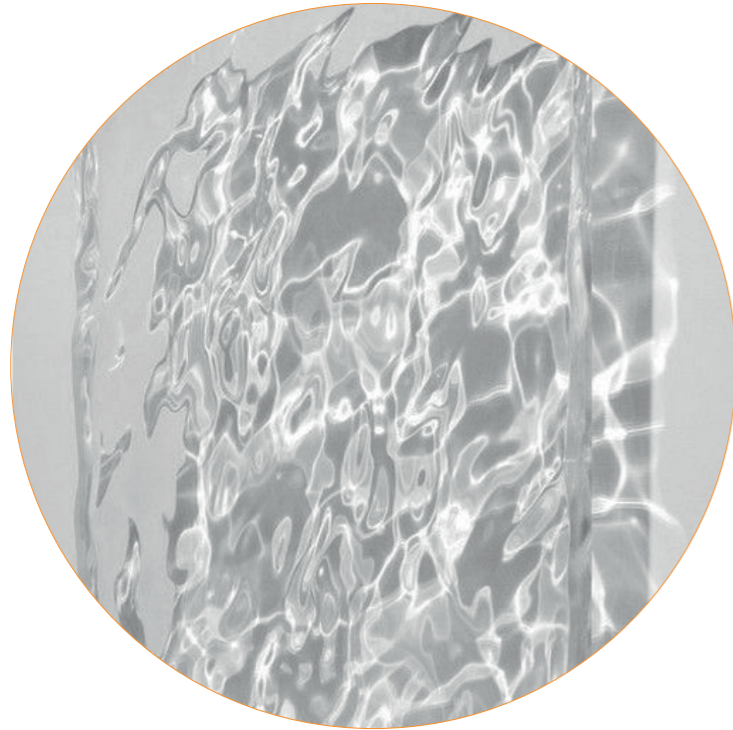
Plasterboard
Panel sheathing
Vapor barrier membrane
Mineral wool insulation with studs
Mineral wool insulation
Breathable waterproof membrane

Glulam beam 240 x 80 mm
Concealed façade bracket
Aluminium cladding

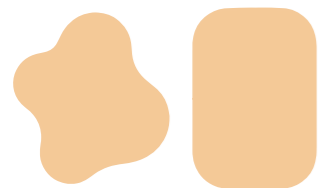
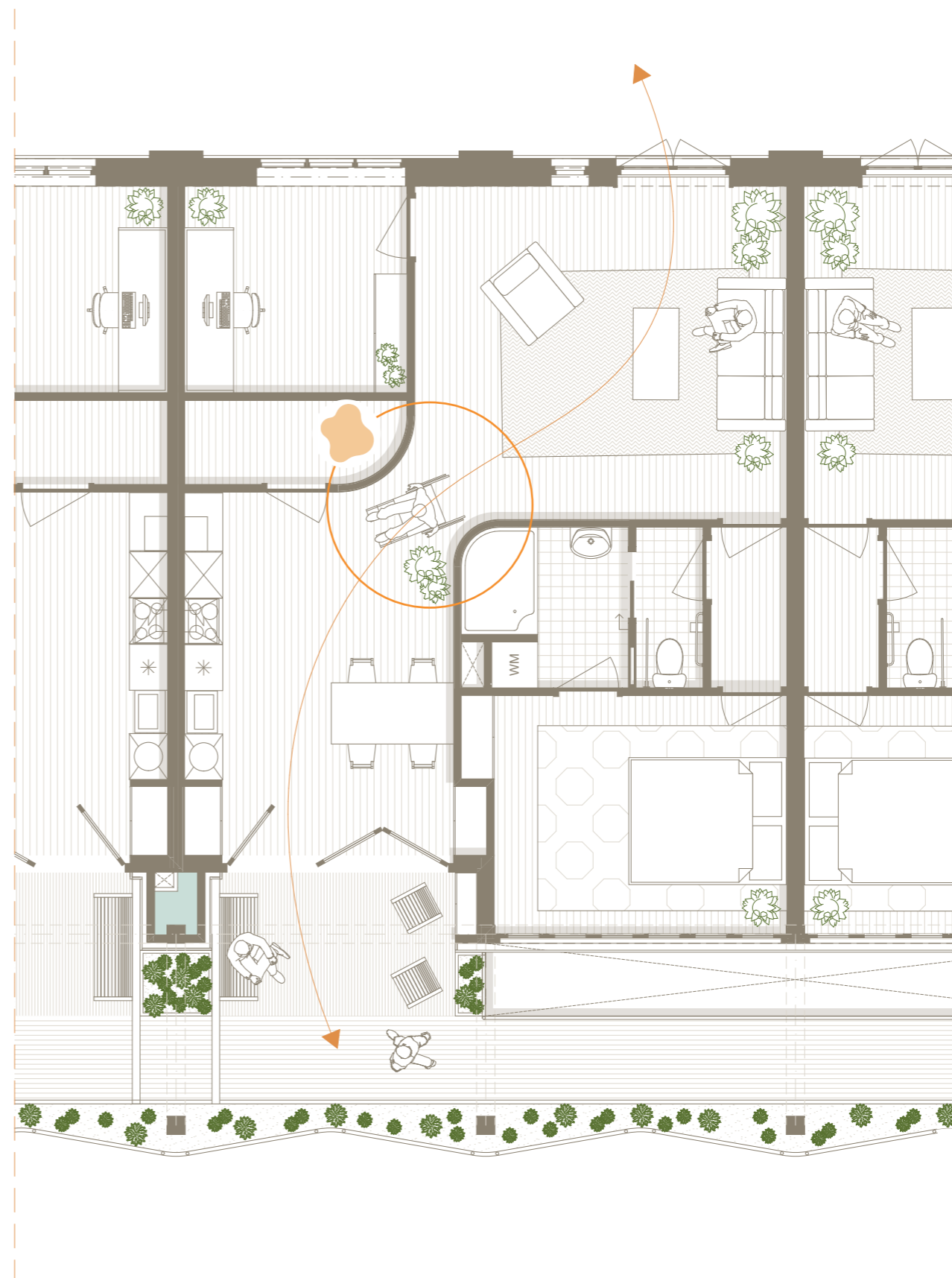
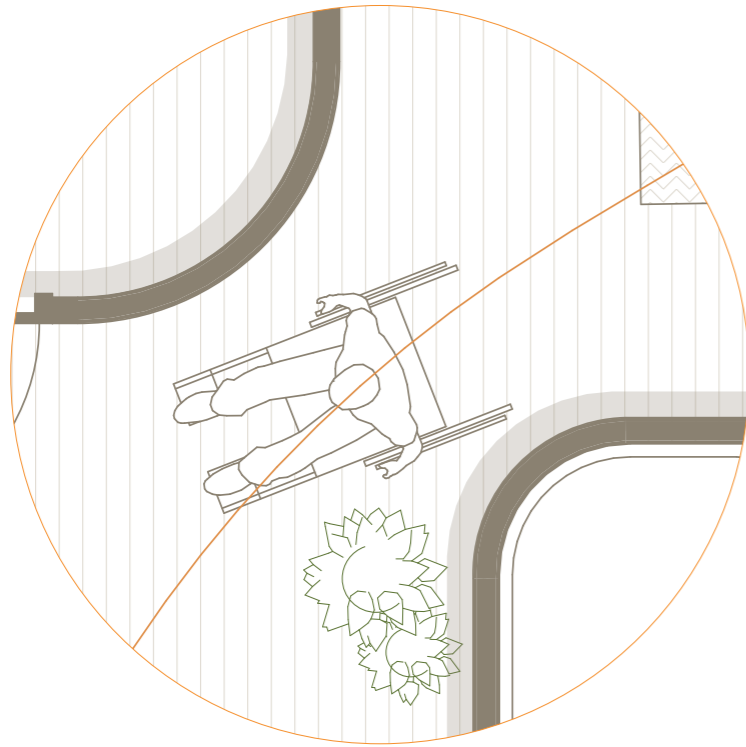
13 13 145 50

140 13 74 13 64 12 14

Active ageing on the dwelling



Active ageing on the dwelling



Climate section

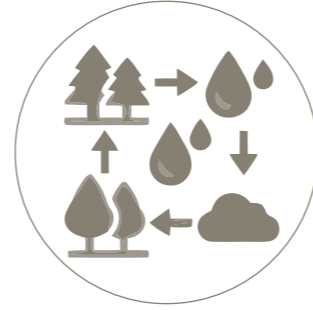
Active strategies

1. Floor heating
2. WKO system
3. Grey water system
4. Mechanical ventilation Type C

Passive strategies

5. Sheltered outdoor space
6. Cooling effect of water features
7. Cooling effect of green roofs
8. Natural cross ventilation
9. Water storage on gallery

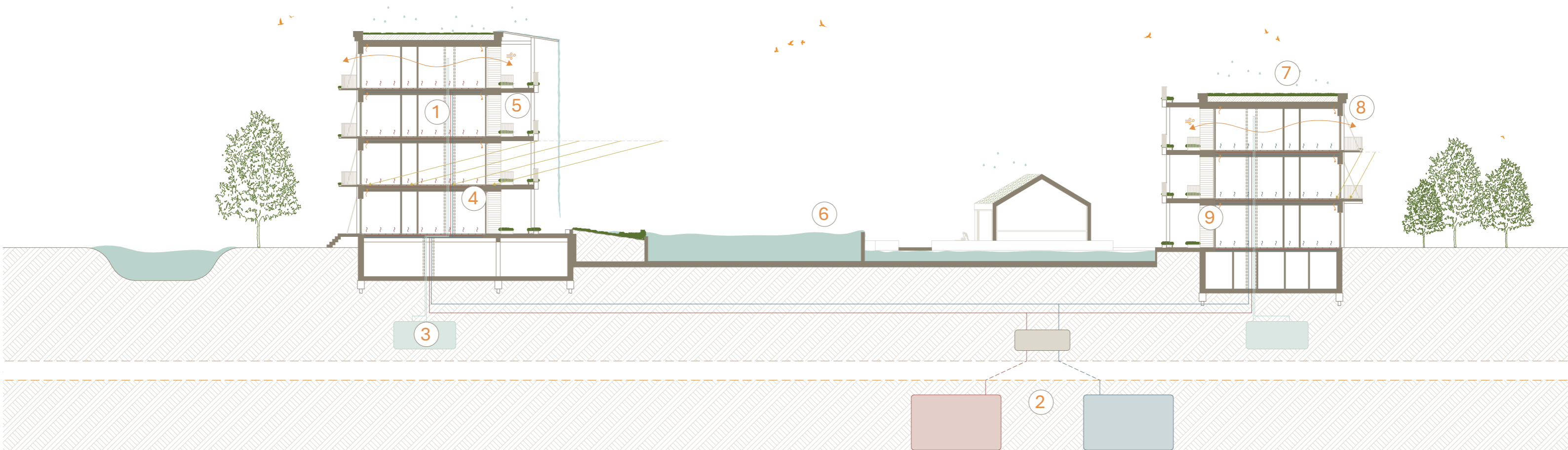
Active and healthy living



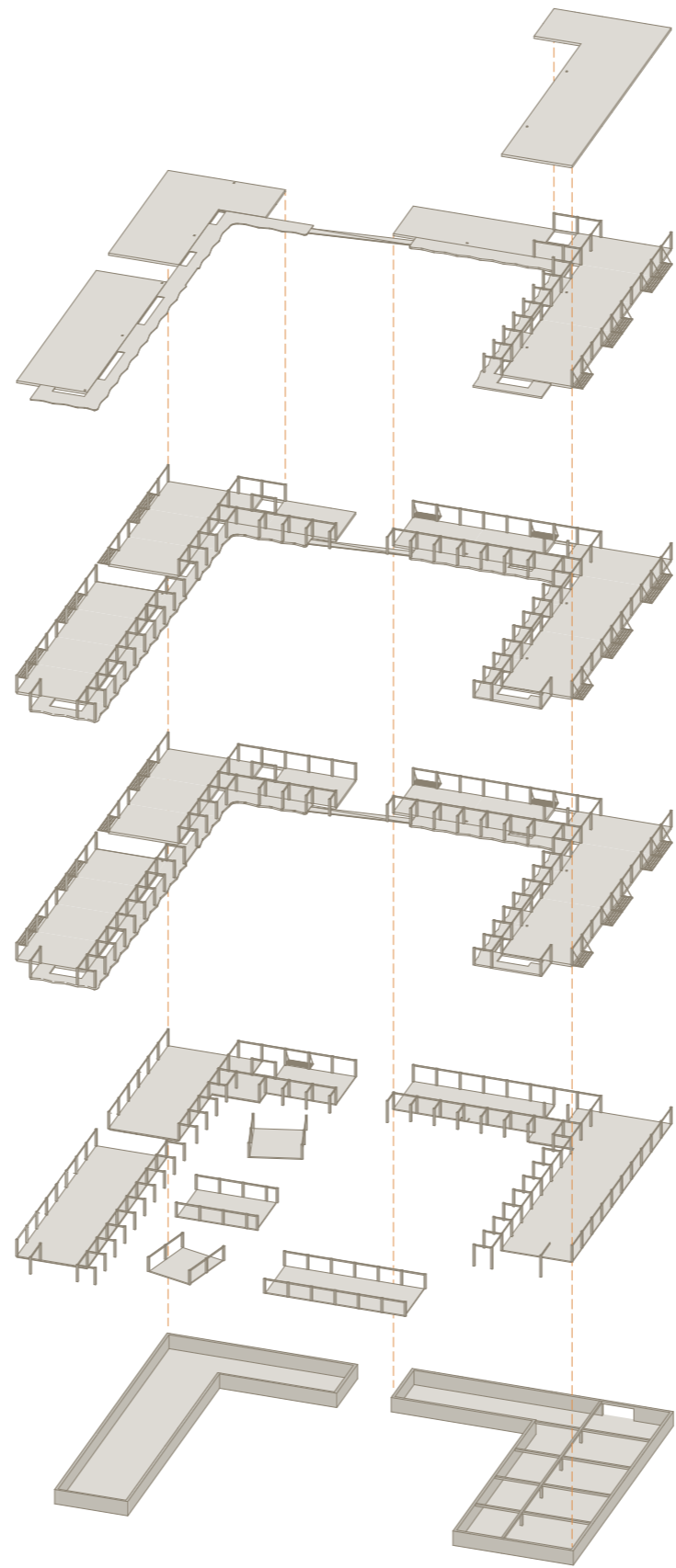
Sustainable water management



Climate adaptive design



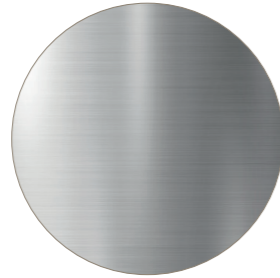
Construction



Facade



Clickbricks



Steel



Aluminium



Greenery



Neighborhood facade



Spruce wood



Steel



Aluminium



Greenery

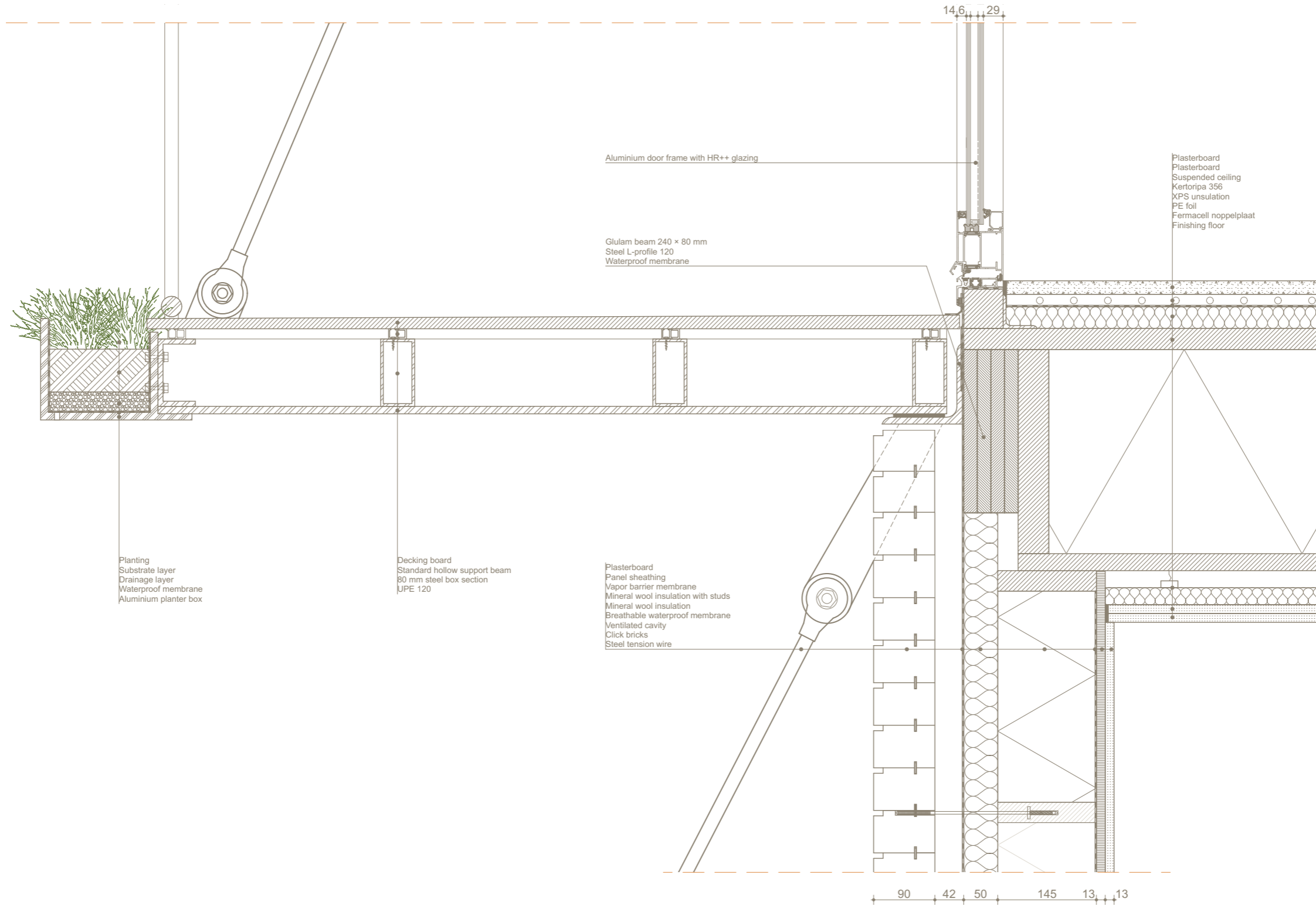


Courtyard facade

Neighborhood facade



Balcony outer facade



Courtyard facade



THE NEXT CURRENT

A design for active ageing

