

COMPLEX PROJECTS

**A NEW EXPERIENCE OF TRIALS**  
**THE BERLIN REGIONAL CRIMINAL COURT**

Elin Lohe

30/05/2023

**DATE OF AWARD:**

4th of July, 2023

**AWARDING INSTITUTION:**

Delft University of Technology

**SUPERVISORS:**

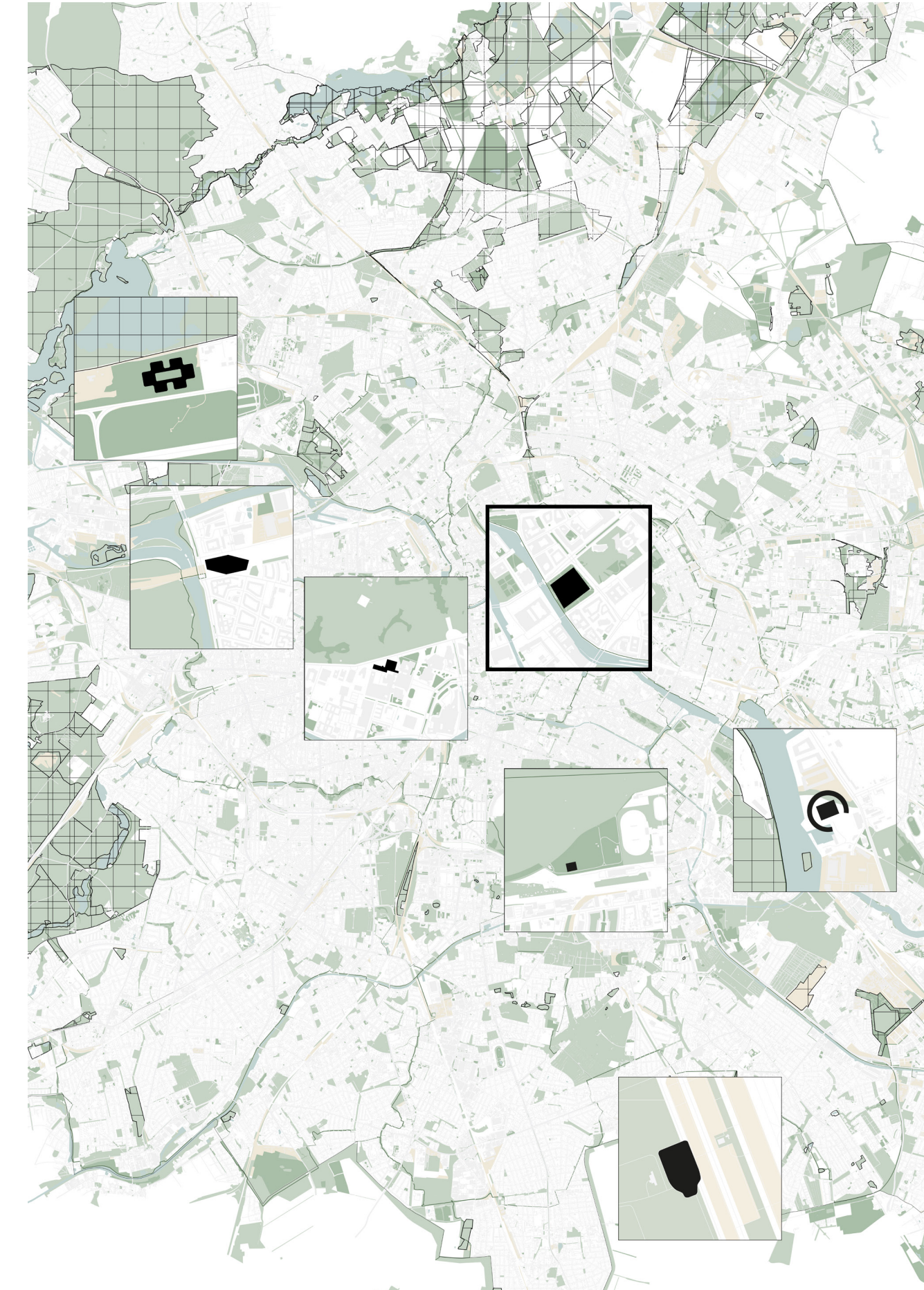
Main mentor: **Marija Mateljan**

Second mentor: **Arie Bergsma**

Third mentor: **Yağiz Söylev**

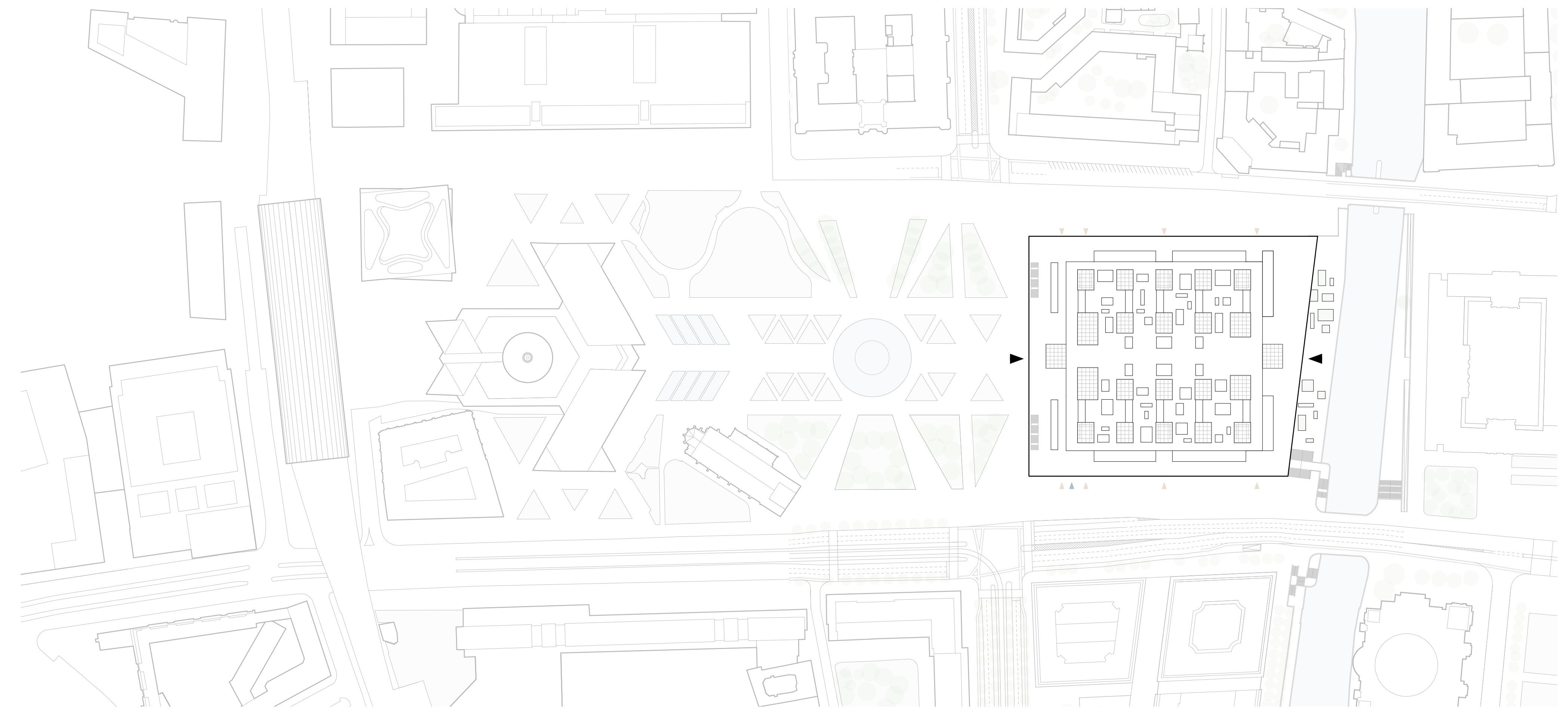
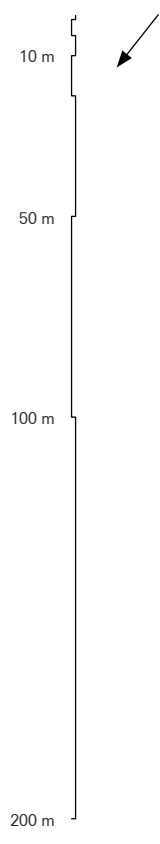
**Group site plan**

Level of detail. 1:10000



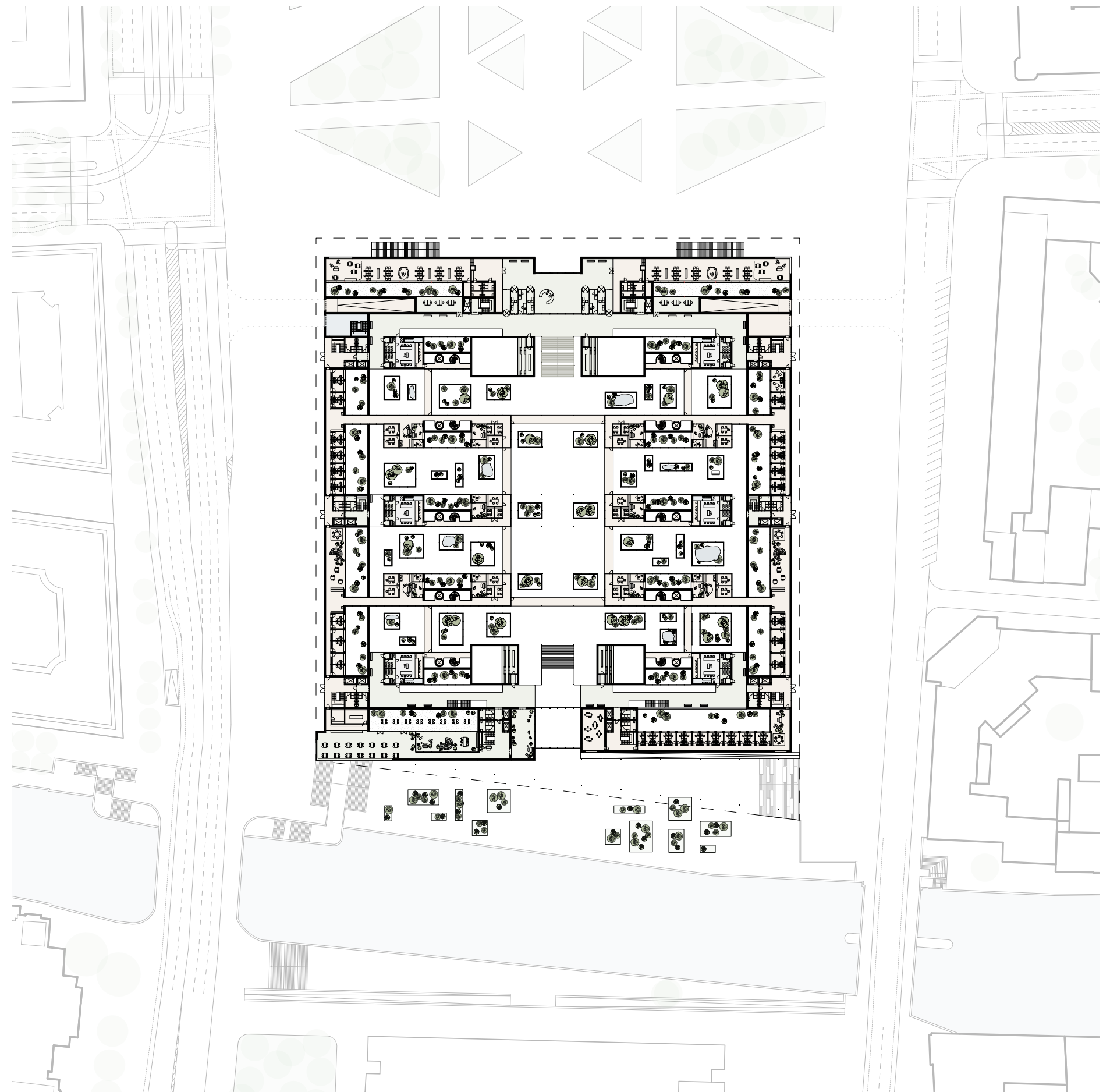
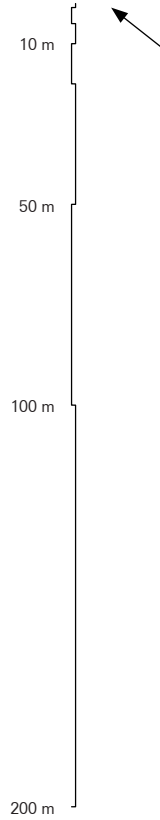
# Master plan

Level of detail. 1:1000



### Master plan

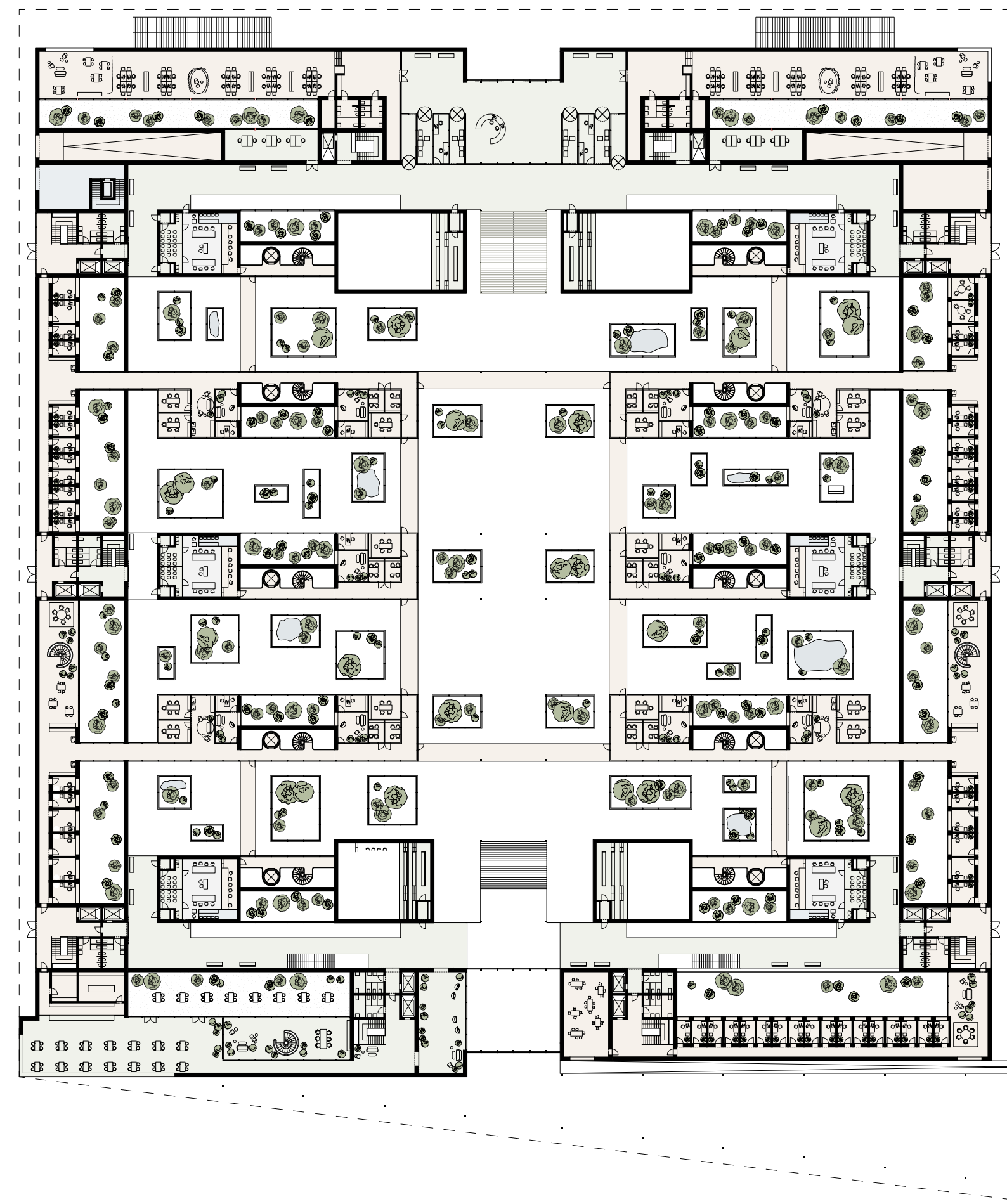
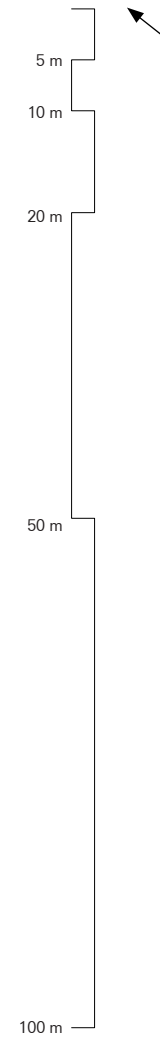
Level of detail. 1:500



- Public
- Restricted
- Secure

### Ground floor

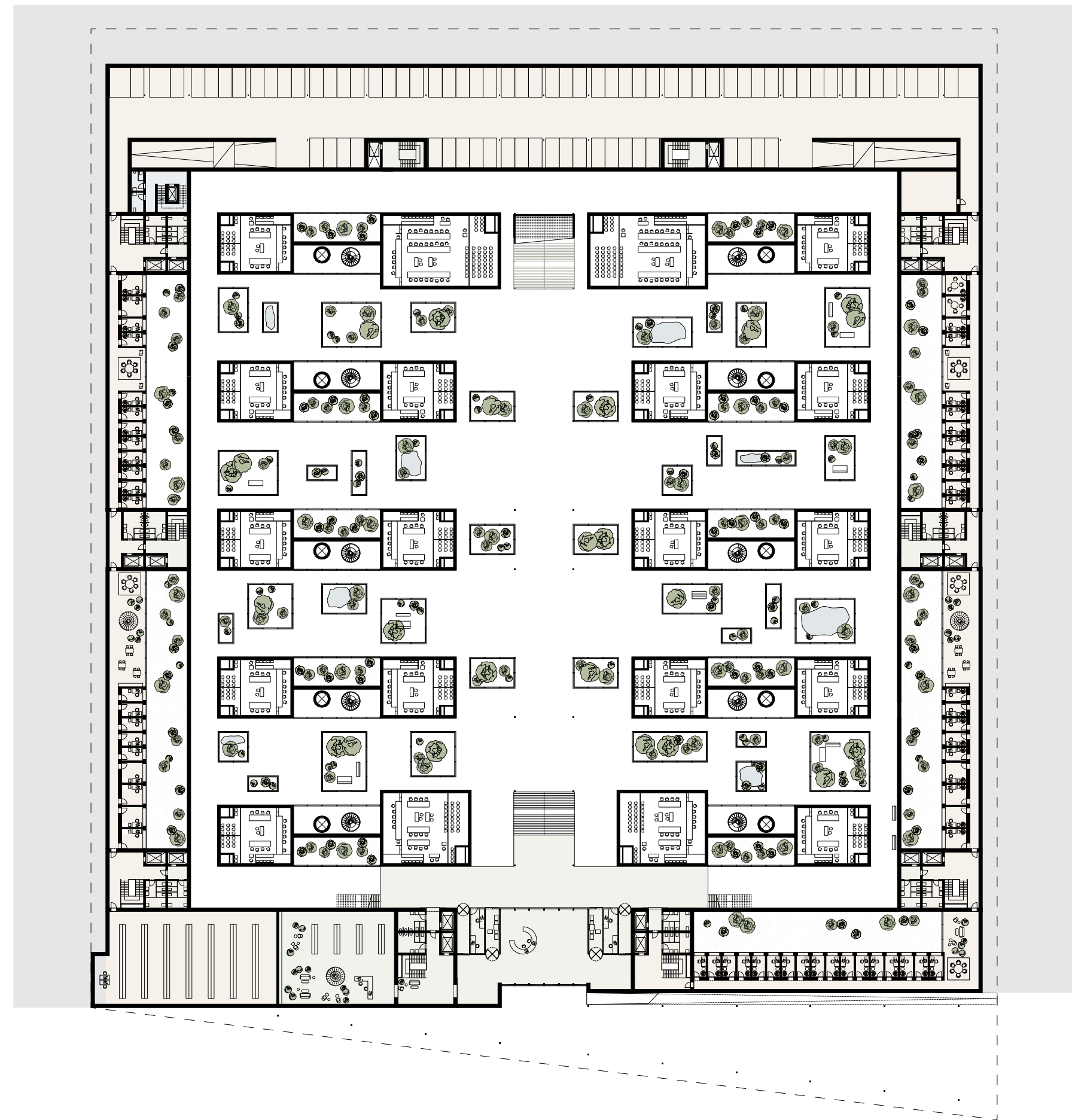
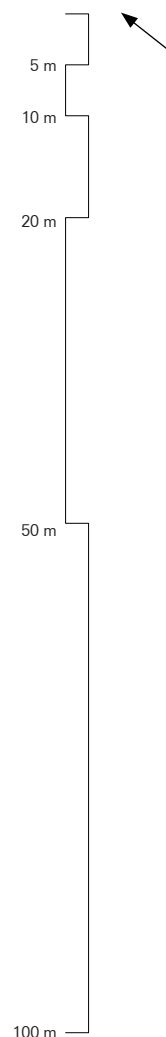
Level of detail. 1:200



- Public
- Restricted
- Secure

### Level -1

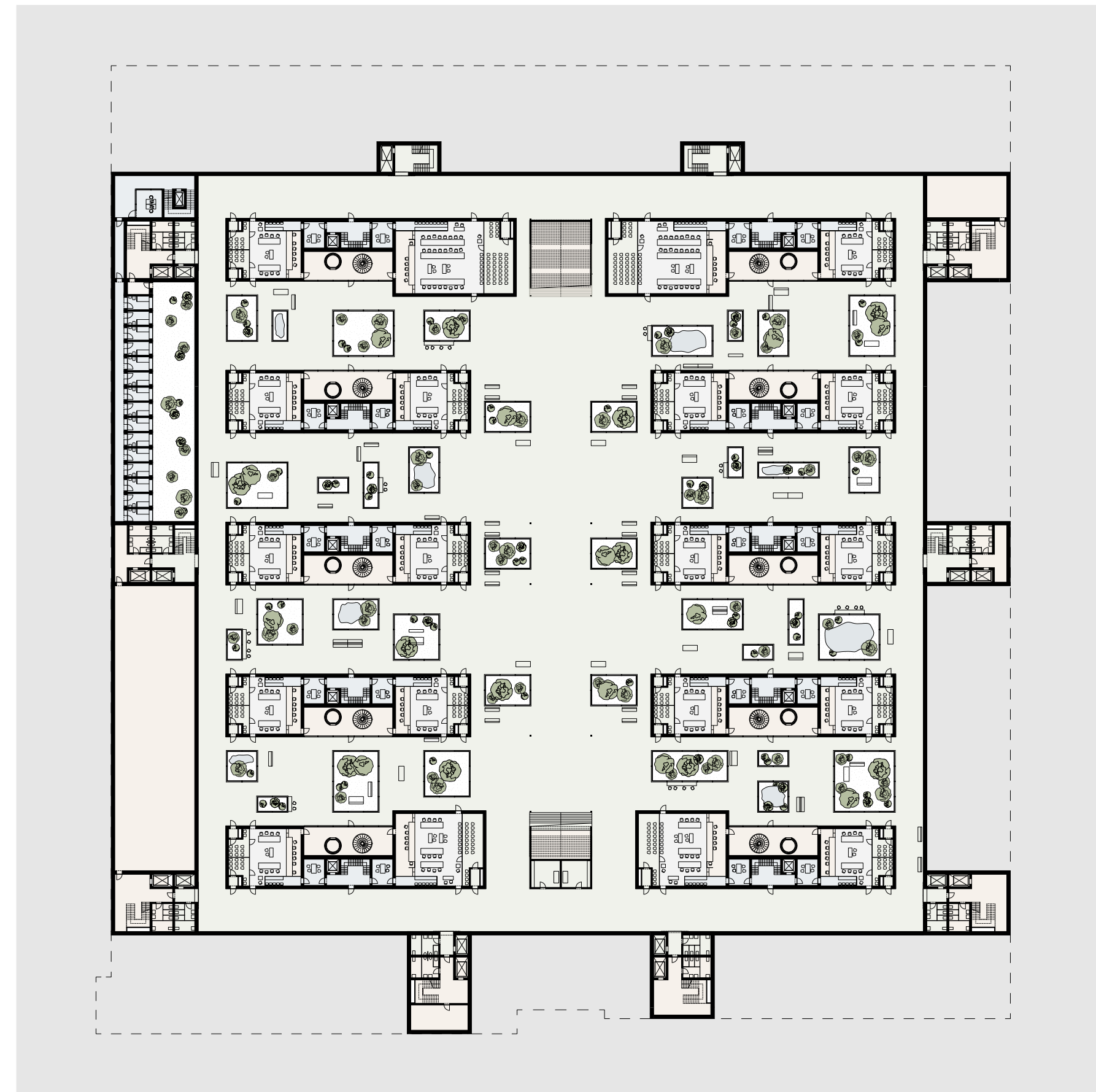
Level of detail. 1:200



- Public
- Restricted
- Secure

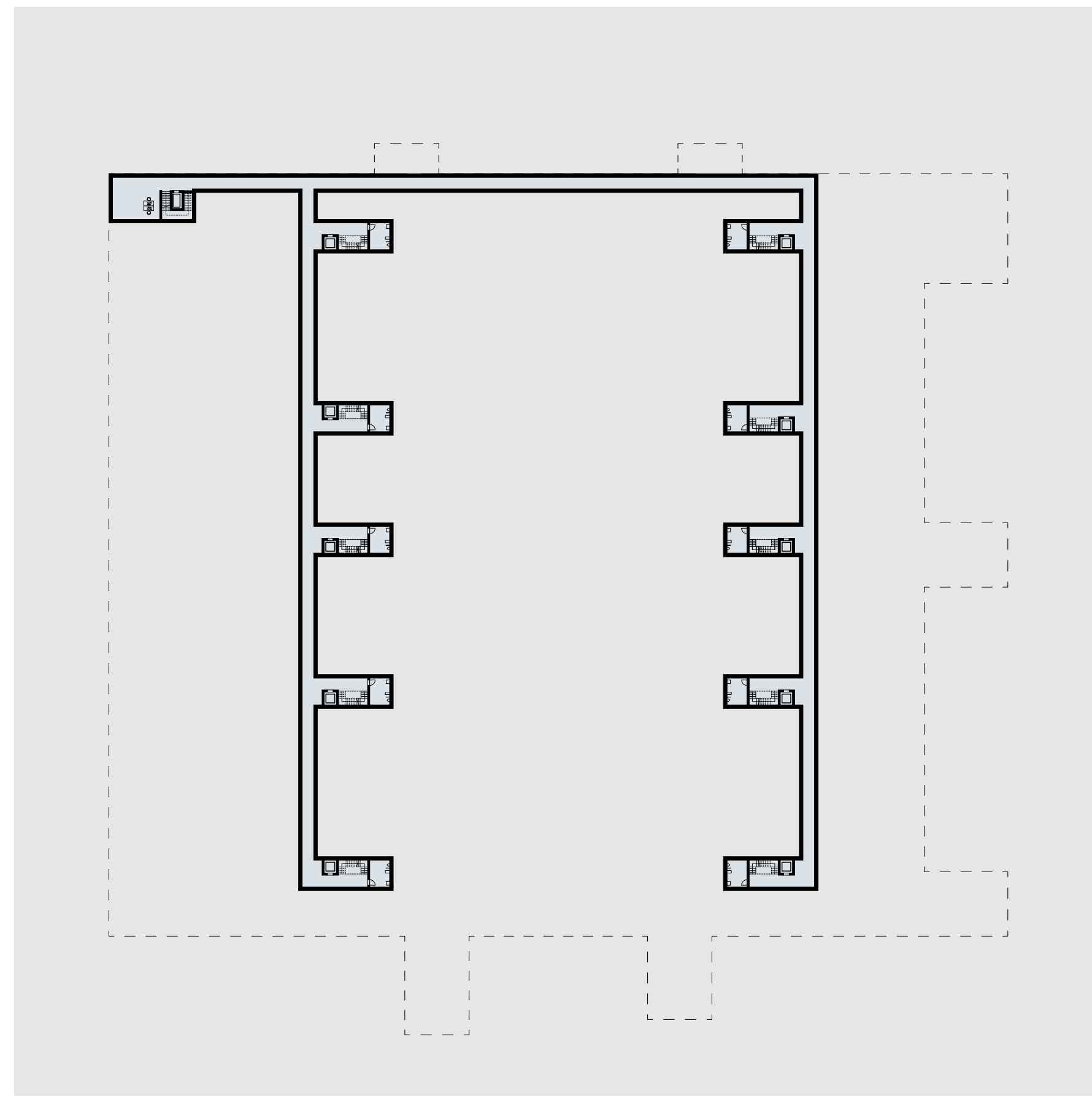
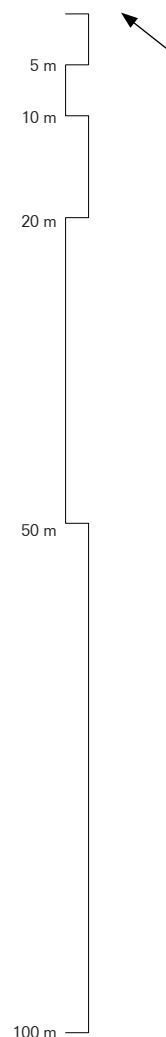
### Level -2

Level of detail. 1:200



# Level -1

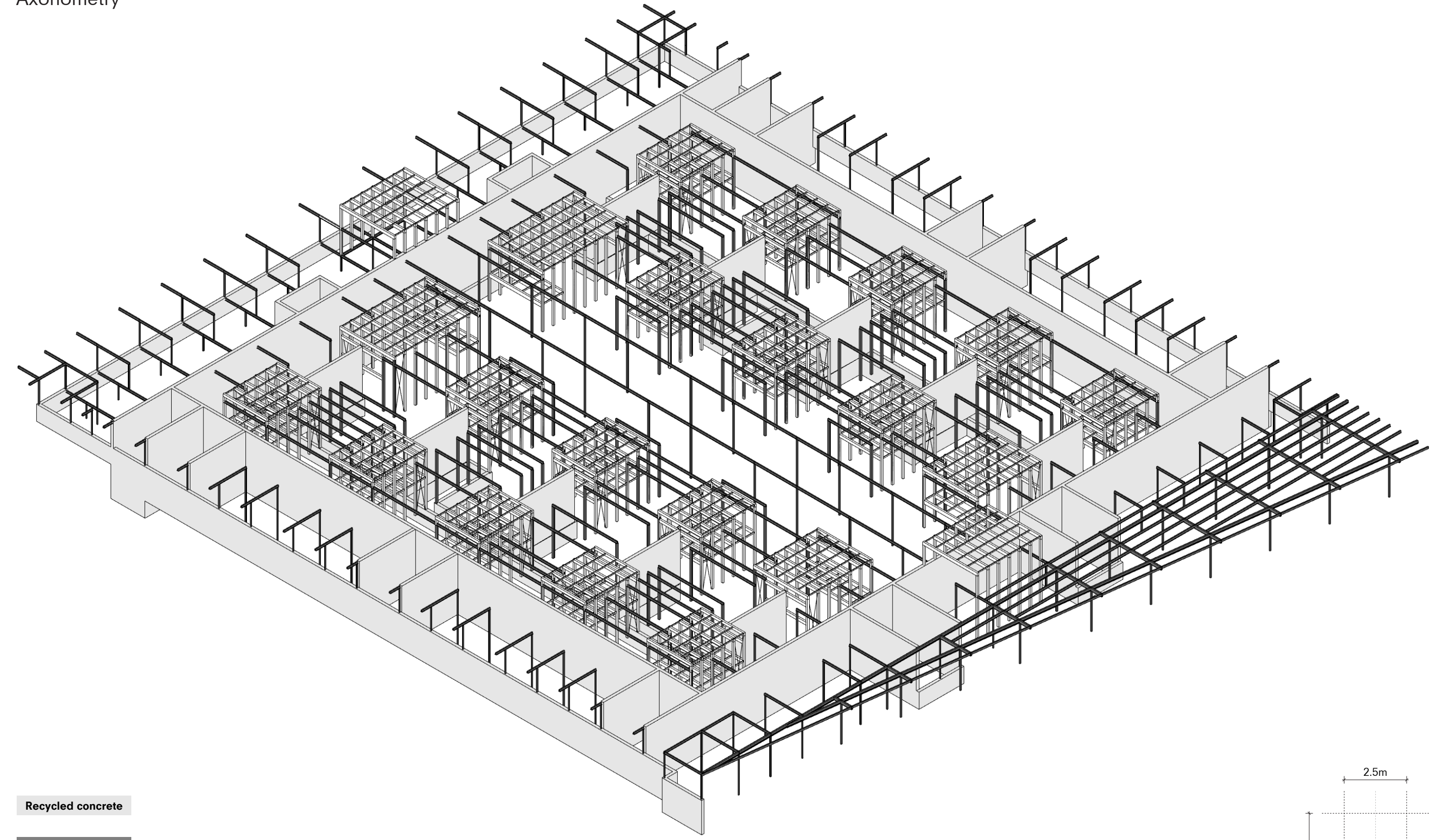
Level of detail. 1:200



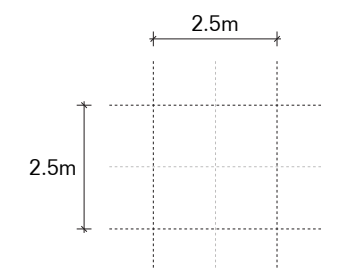
- Public
- Restricted
- Secure

# Structure

Axonometry



- Recycled concrete
- Steel structure
- Wood structure

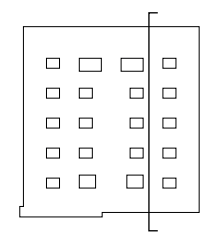
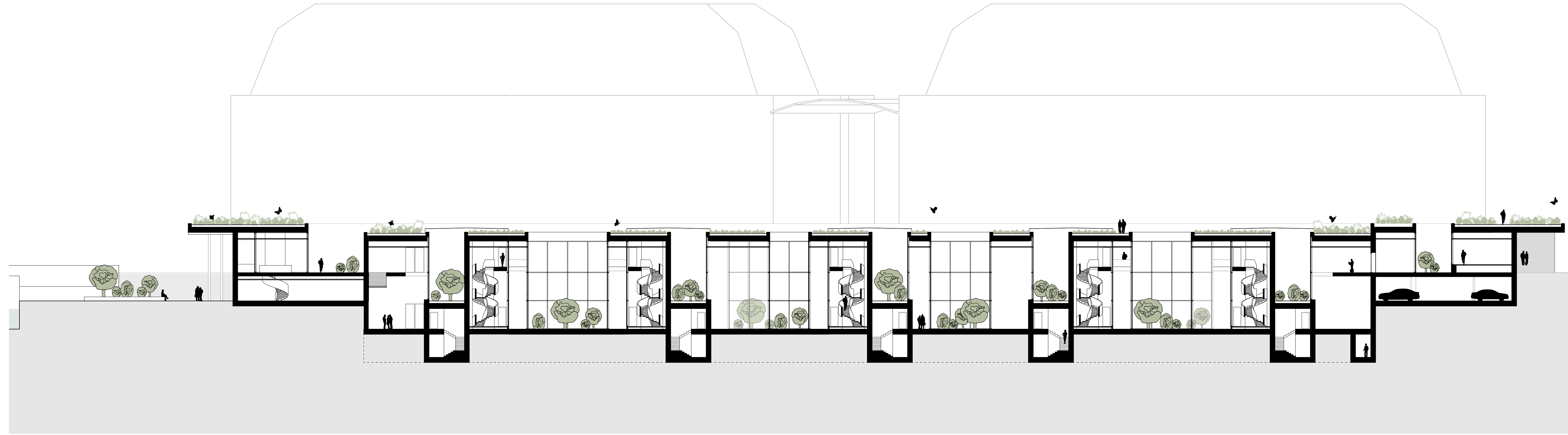


# Section

Courtroom cores

Level of detail. 1:200

1 m  
5 m  
10 m  
50 m

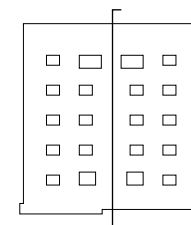
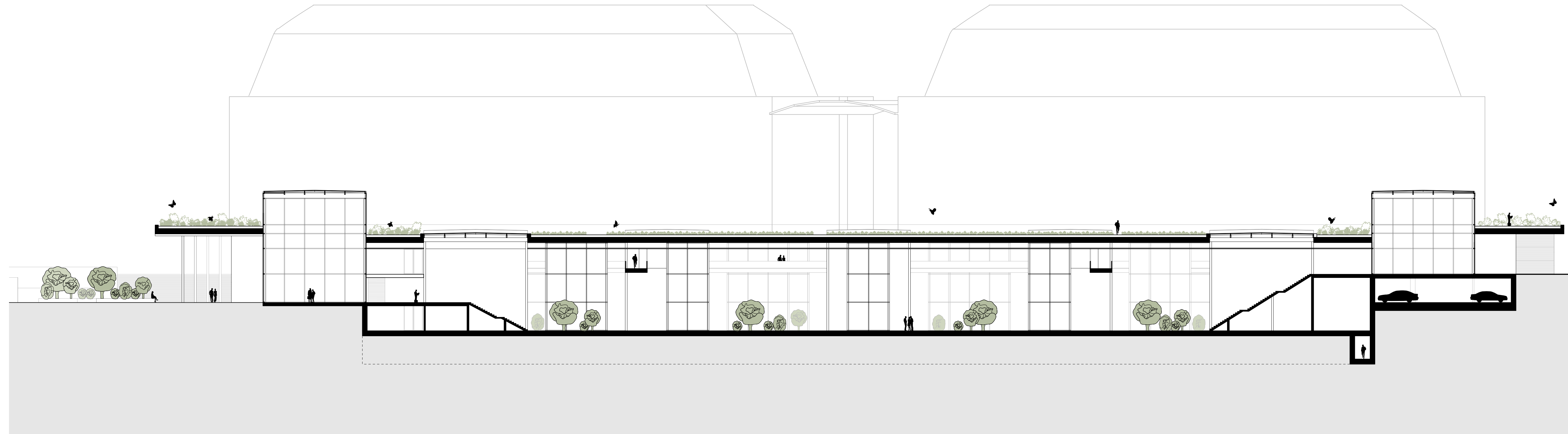


# Section

Main axis

Level of detail. 1:200

1 m  
5 m  
10 m  
50 m





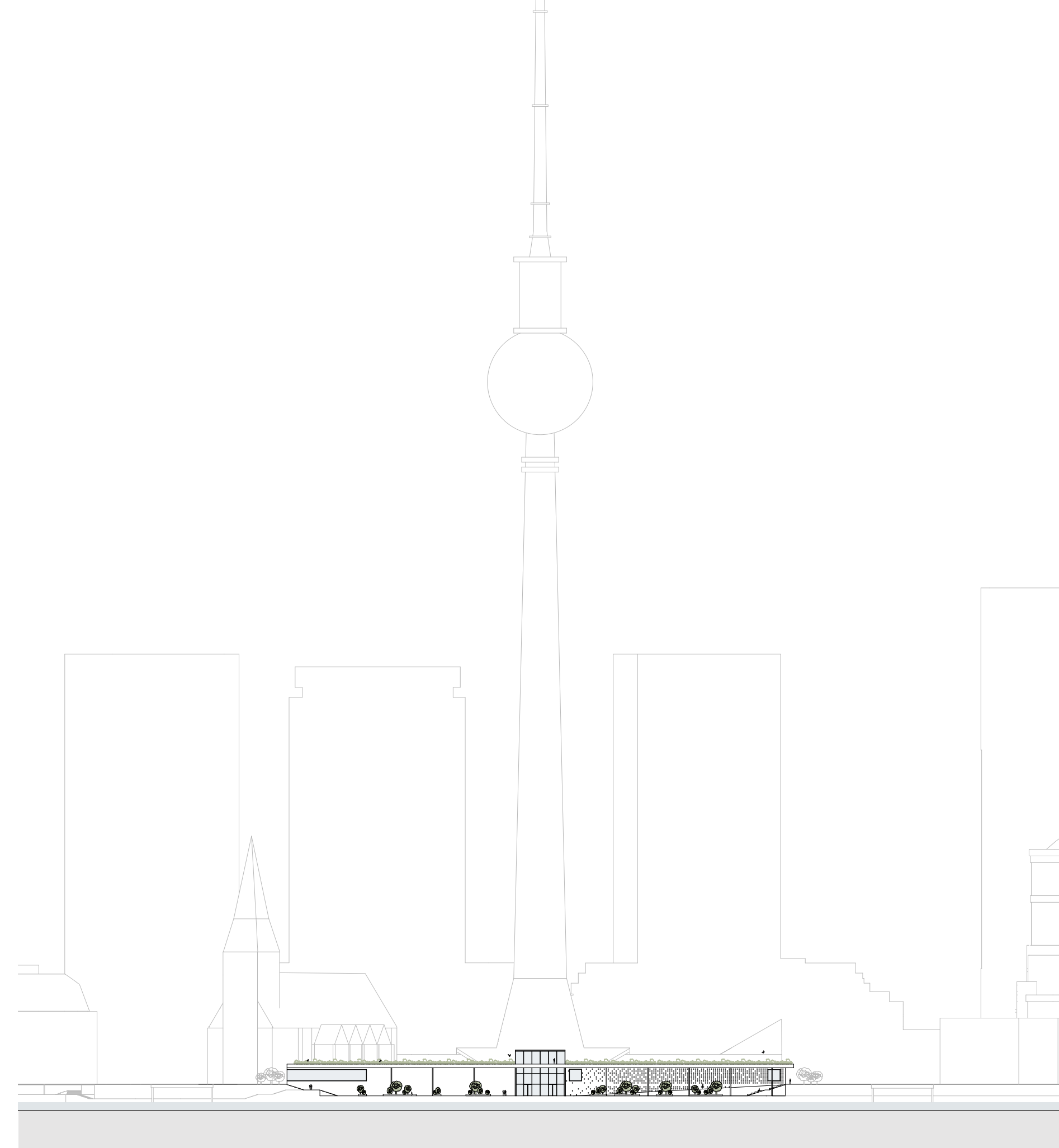
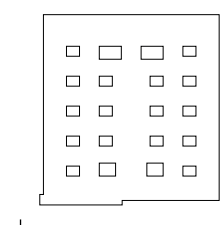
### Elevation

North-east

Level of detail. 1:200

10 m

50 m



### Elevation

South-west

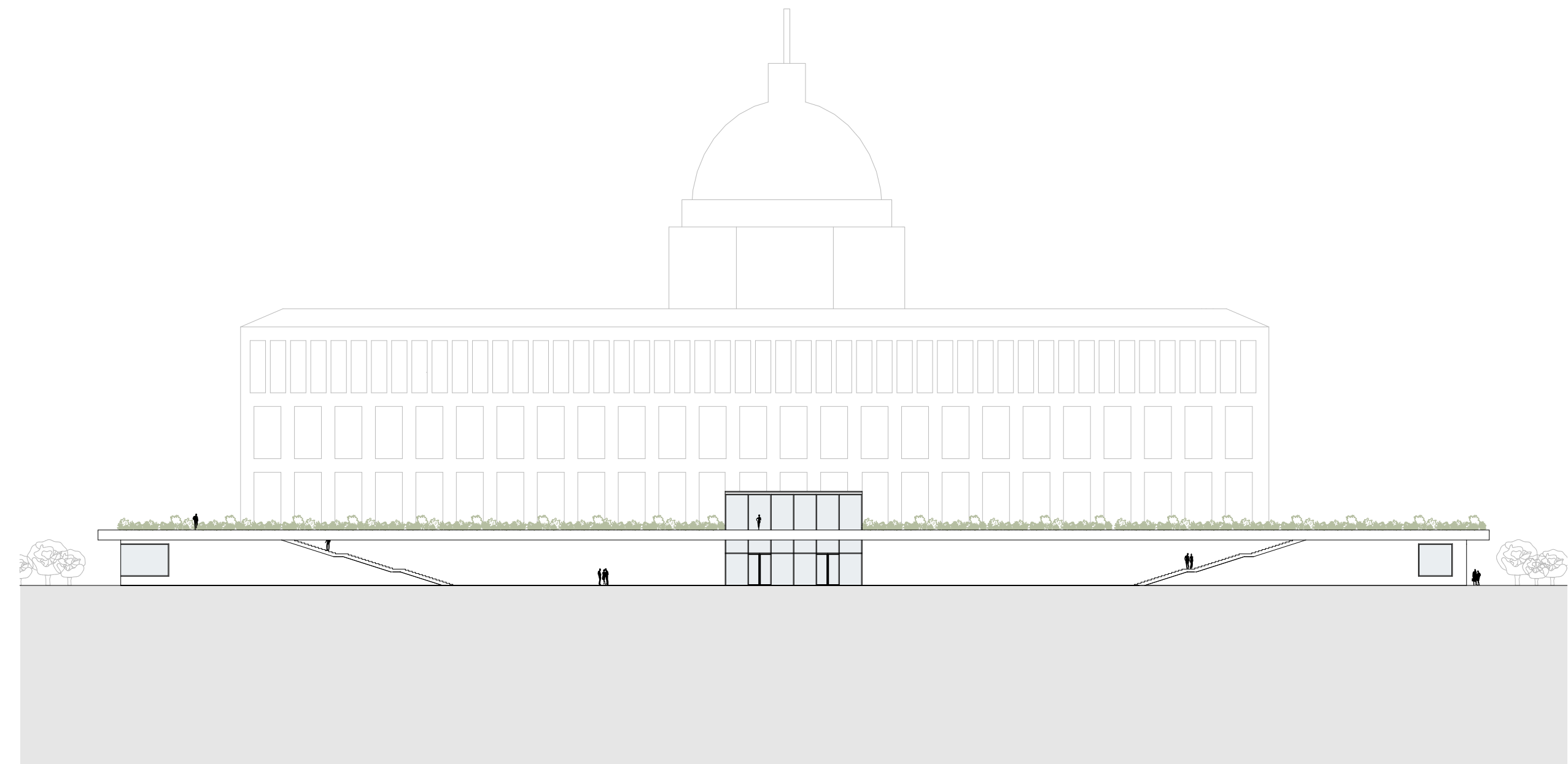
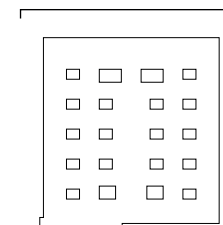
Level of detail. 1:200

5 m

10 m

50 m

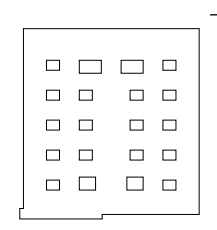
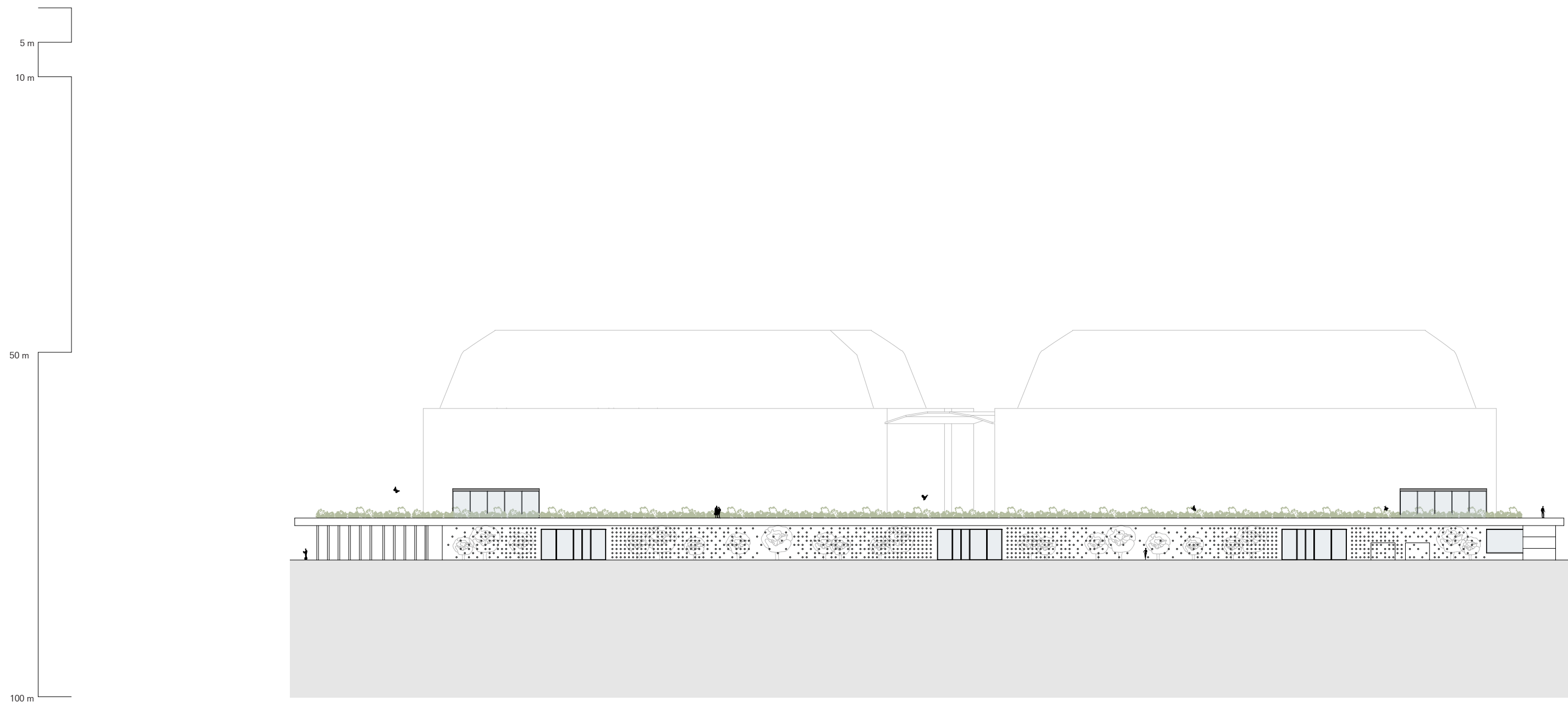
100 m



### Elevation

South-east

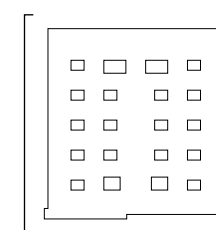
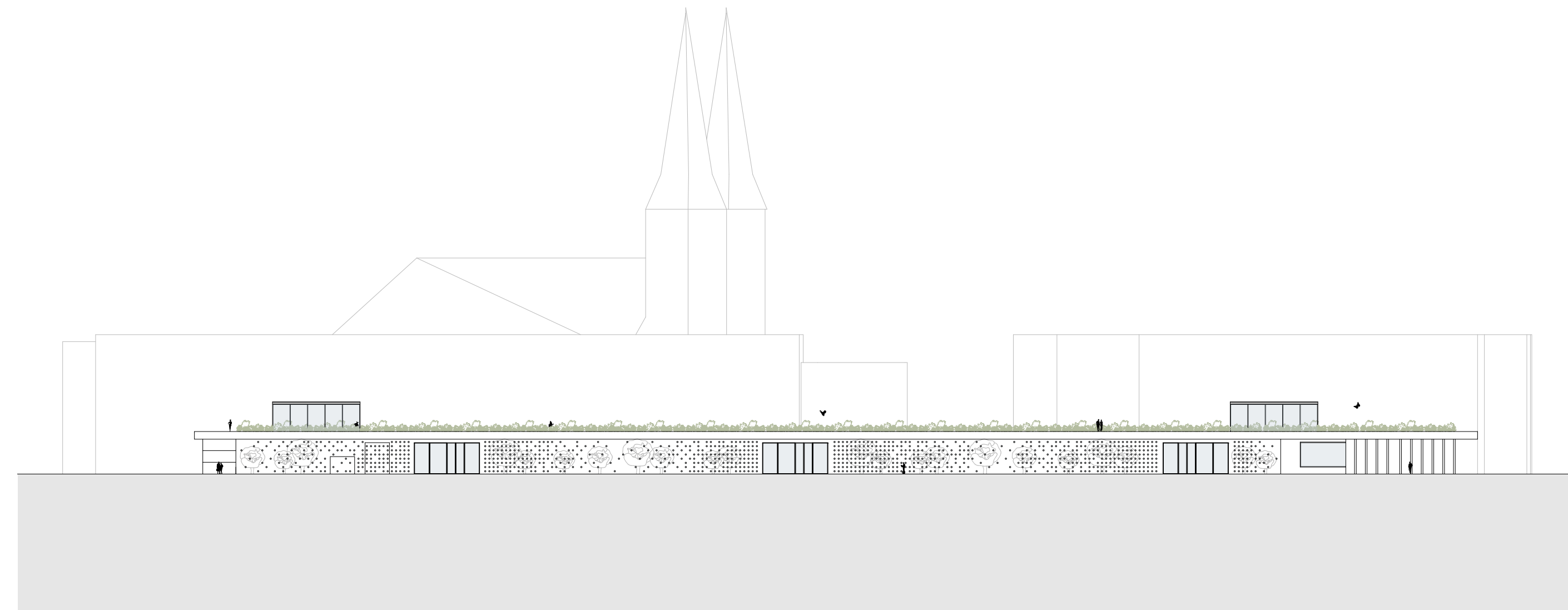
Level of detail. 1:200



### Elevation

North-west

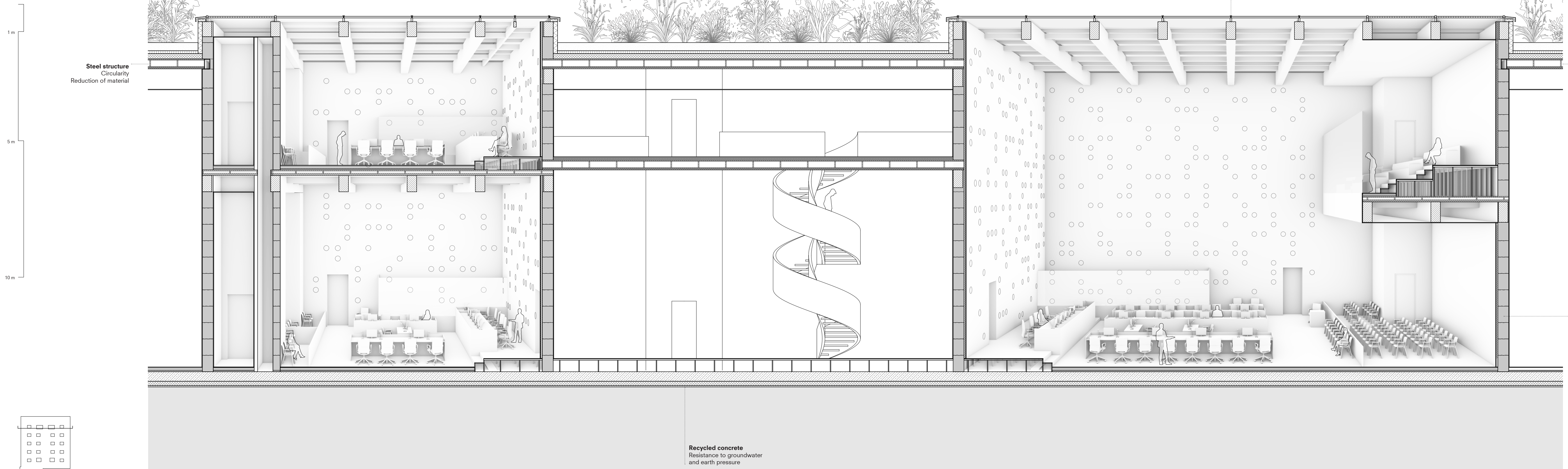
Level of detail. 1:200



# Building materials

Courtrooms and main hall

Level of detail. 1:50



**Steel structure**  
Circularity  
Reduction of material

**Wood structure**  
Sustainability  
Natural material for atmosphere

**Wood hollow core slab**  
Surface element  
Sustainability

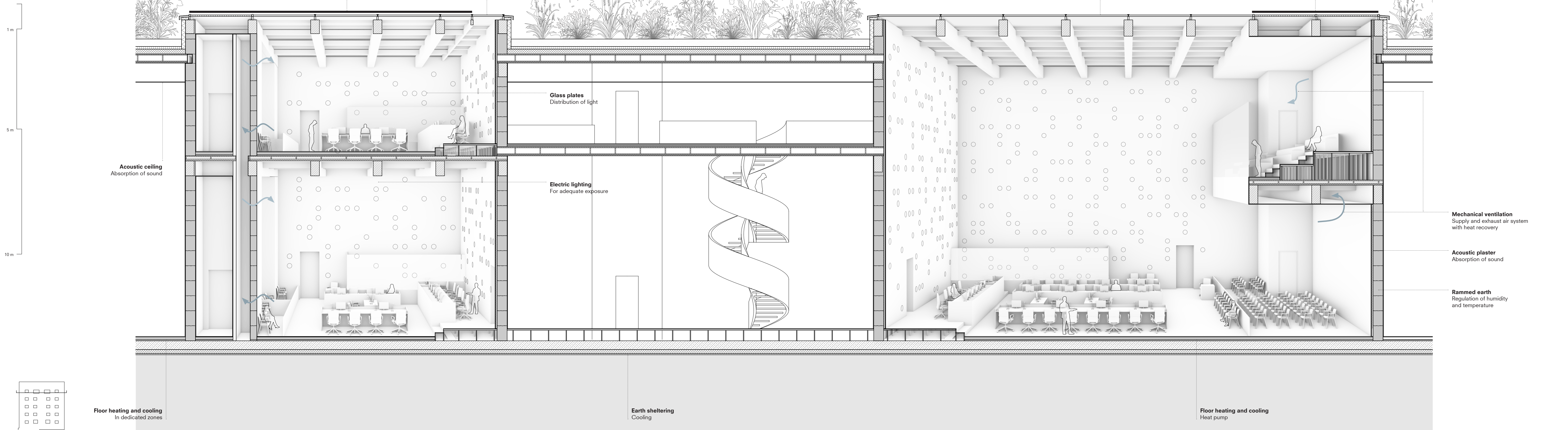
**Rammed earth**  
Endless reuse  
Good climate regulation

**Recycled concrete**  
Resistance to groundwater  
and earth pressure

# Comfort

Courtrooms and main hall

Level of detail. 1:50



# Biodiversity and climate adaptation

Courtrooms and main hall

Level of detail. 1:50

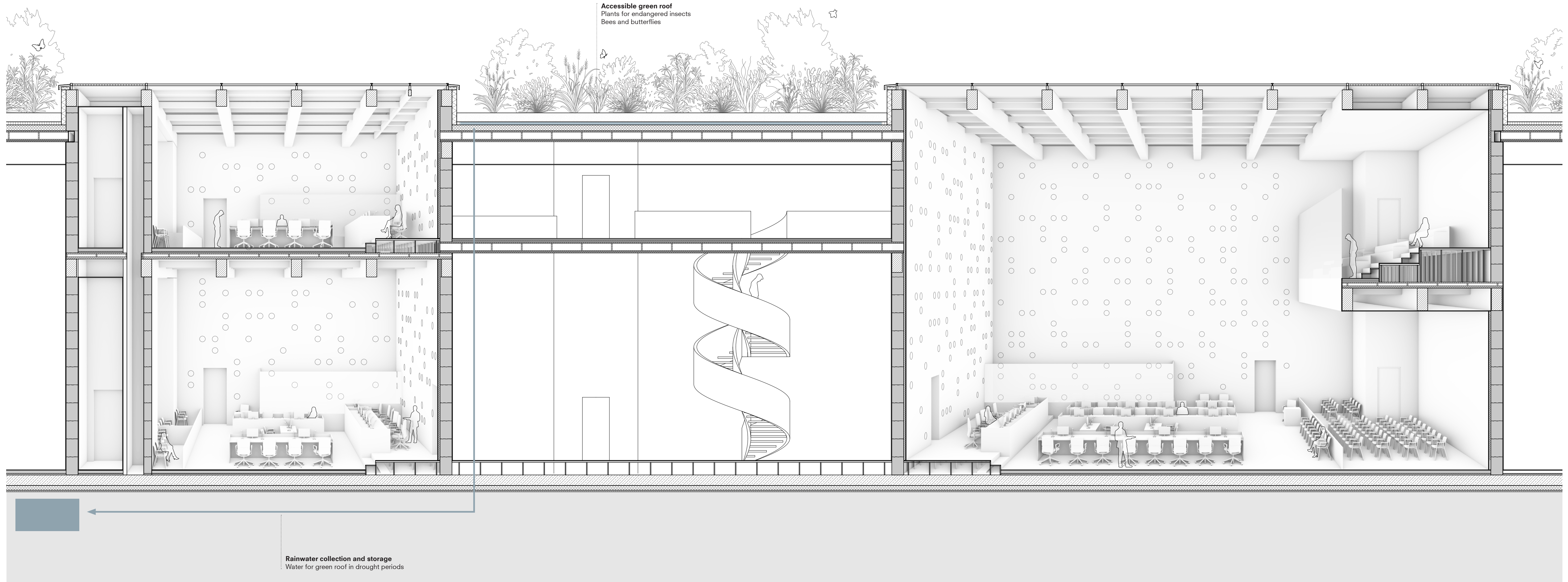
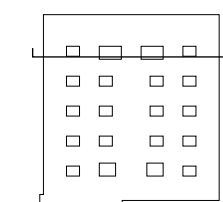
1 m

5 m

10 m

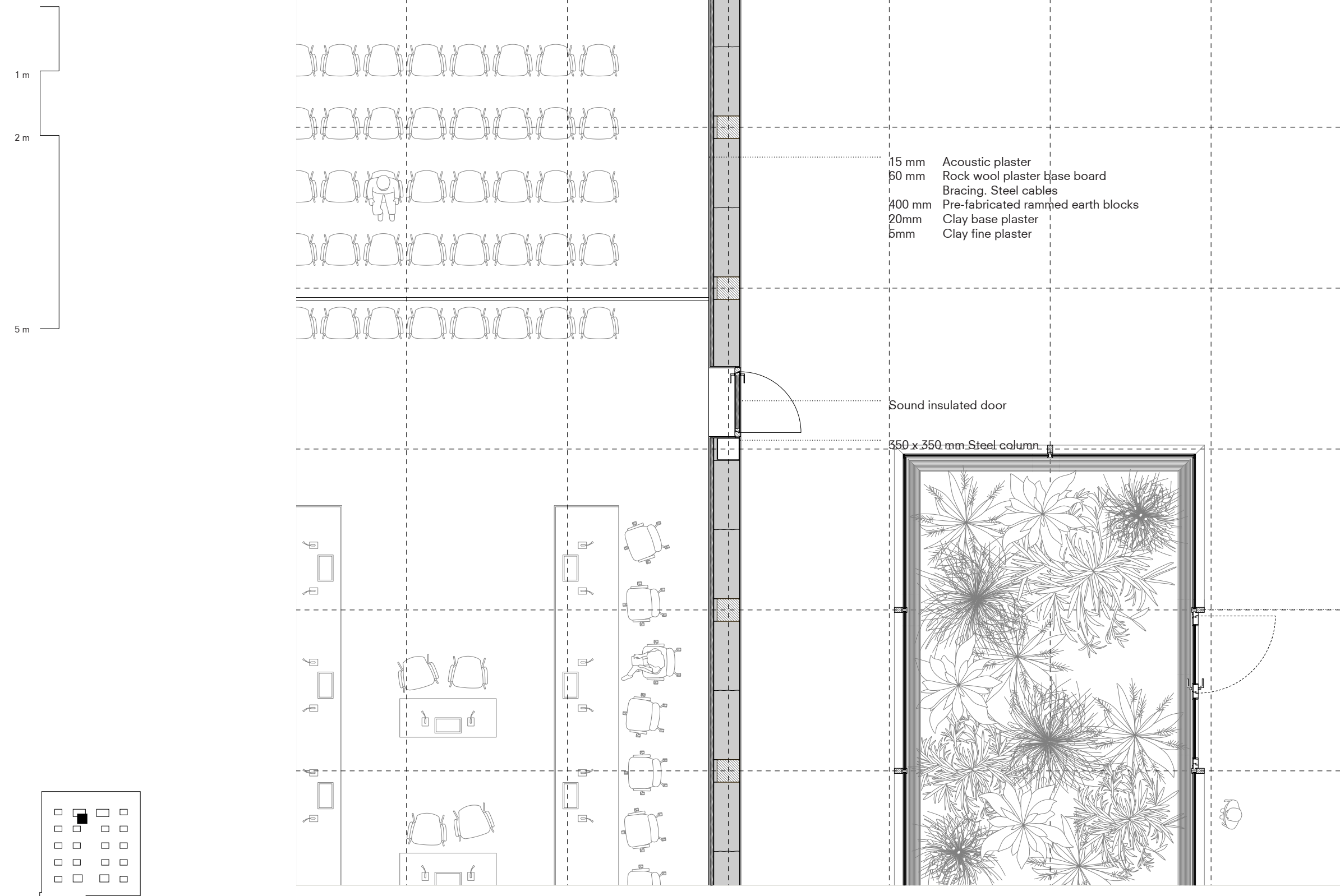
Accessible green roof  
Plants for endangered insects  
Bees and butterflies

Rainwater collection and storage  
Water for green roof in drought periods



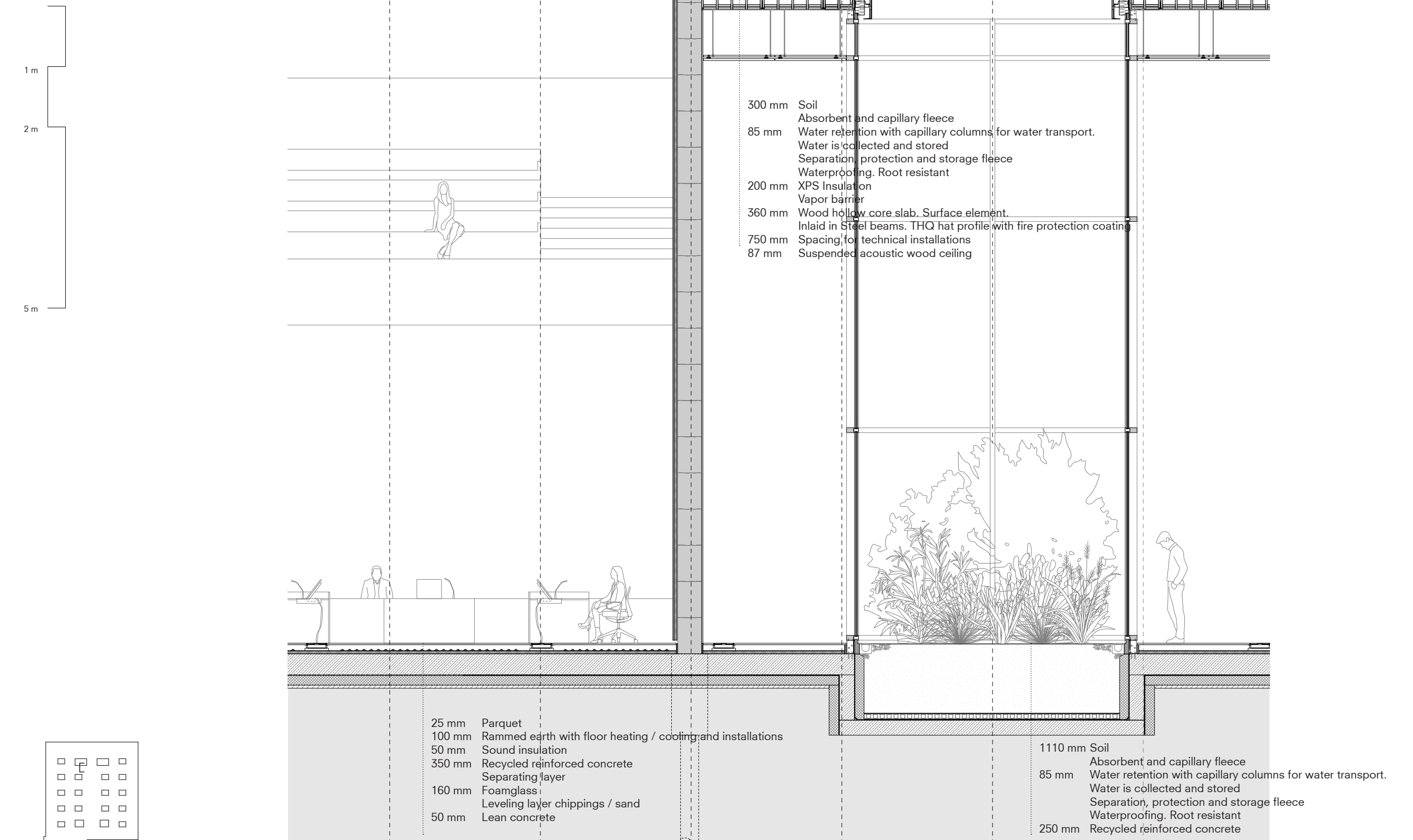
## Fragment

Floor plan  
Courtrooms and light shaft  
Level of detail. 1:20



## Fragment

Section  
Courtrooms and light shaft  
Level of detail. 1:20

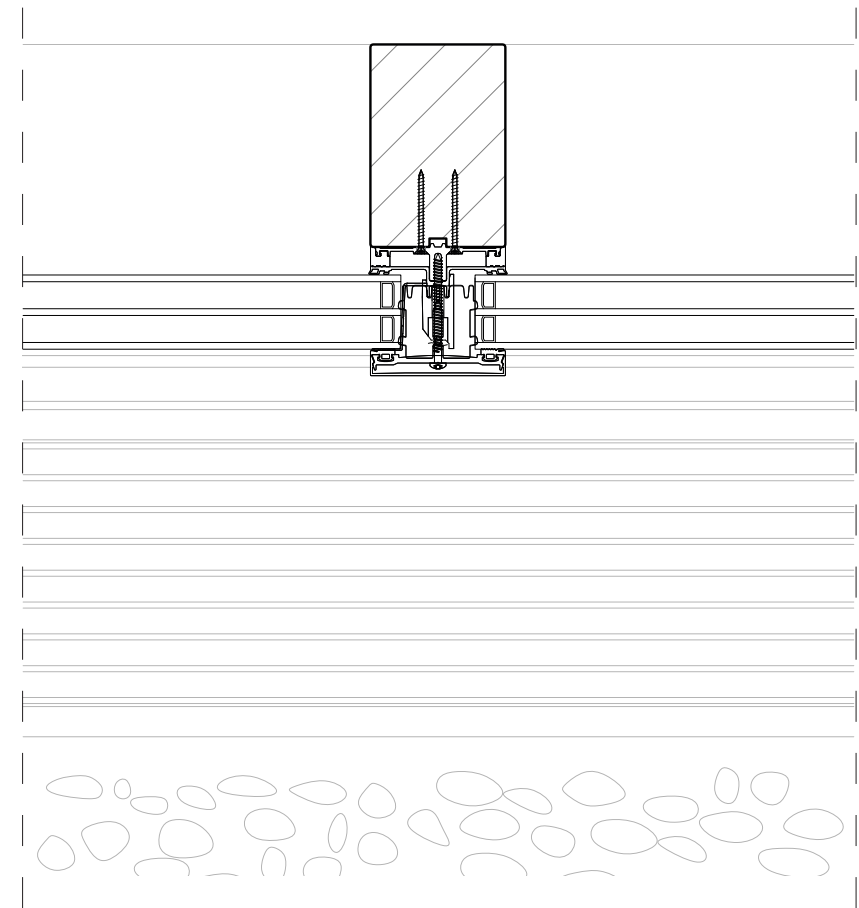
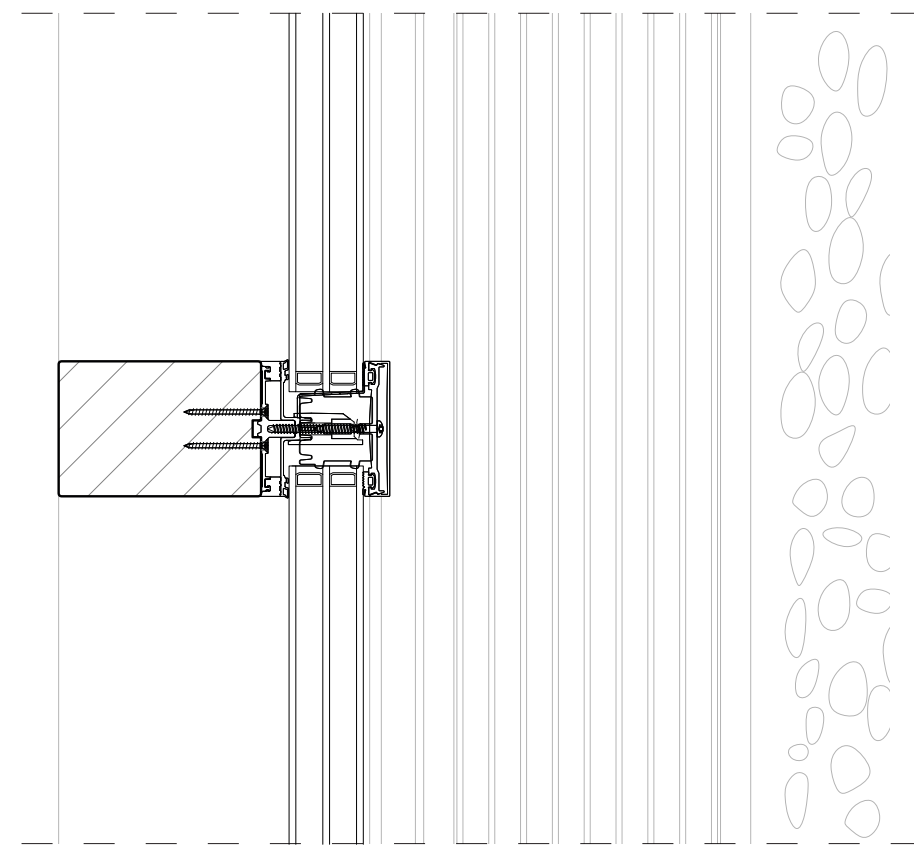
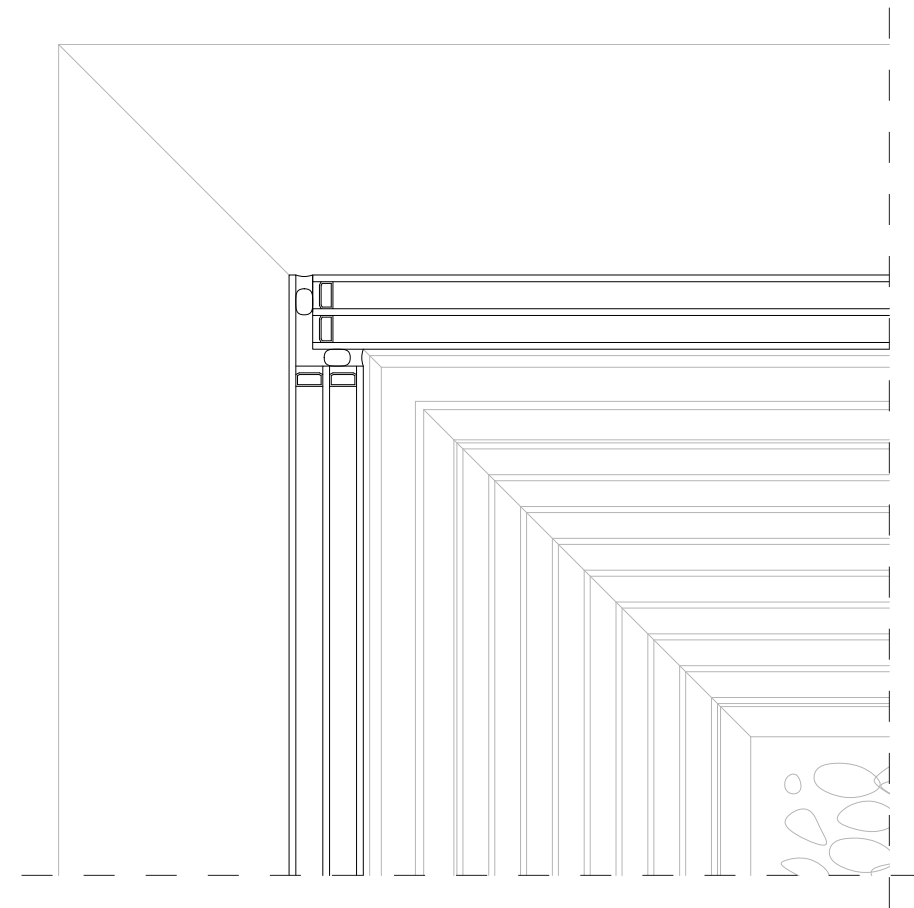


**Detail**

Light shaft  
Mullion-transom facade  
Aluminum and wood  
Horizontal section  
Level of detail. 1:5

100 mm

500 mm

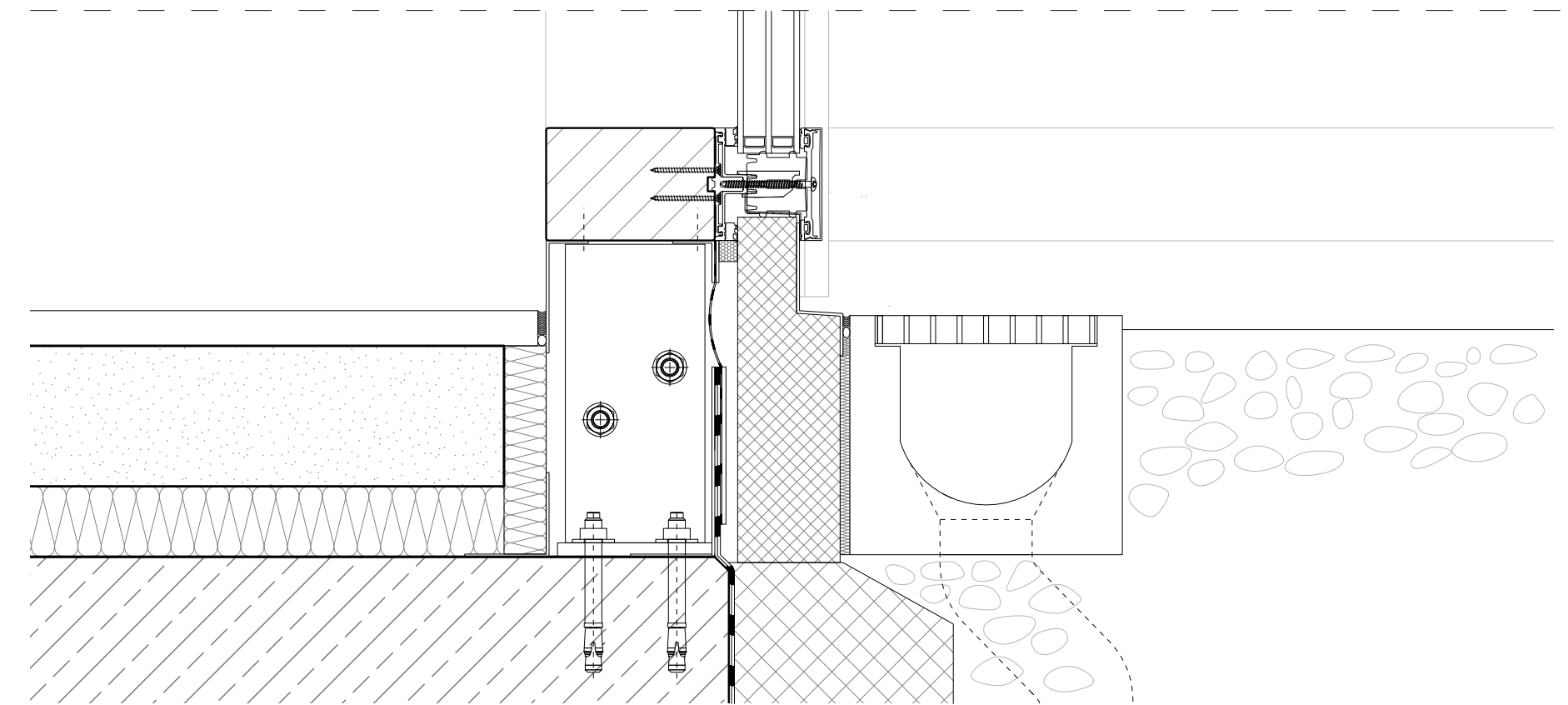
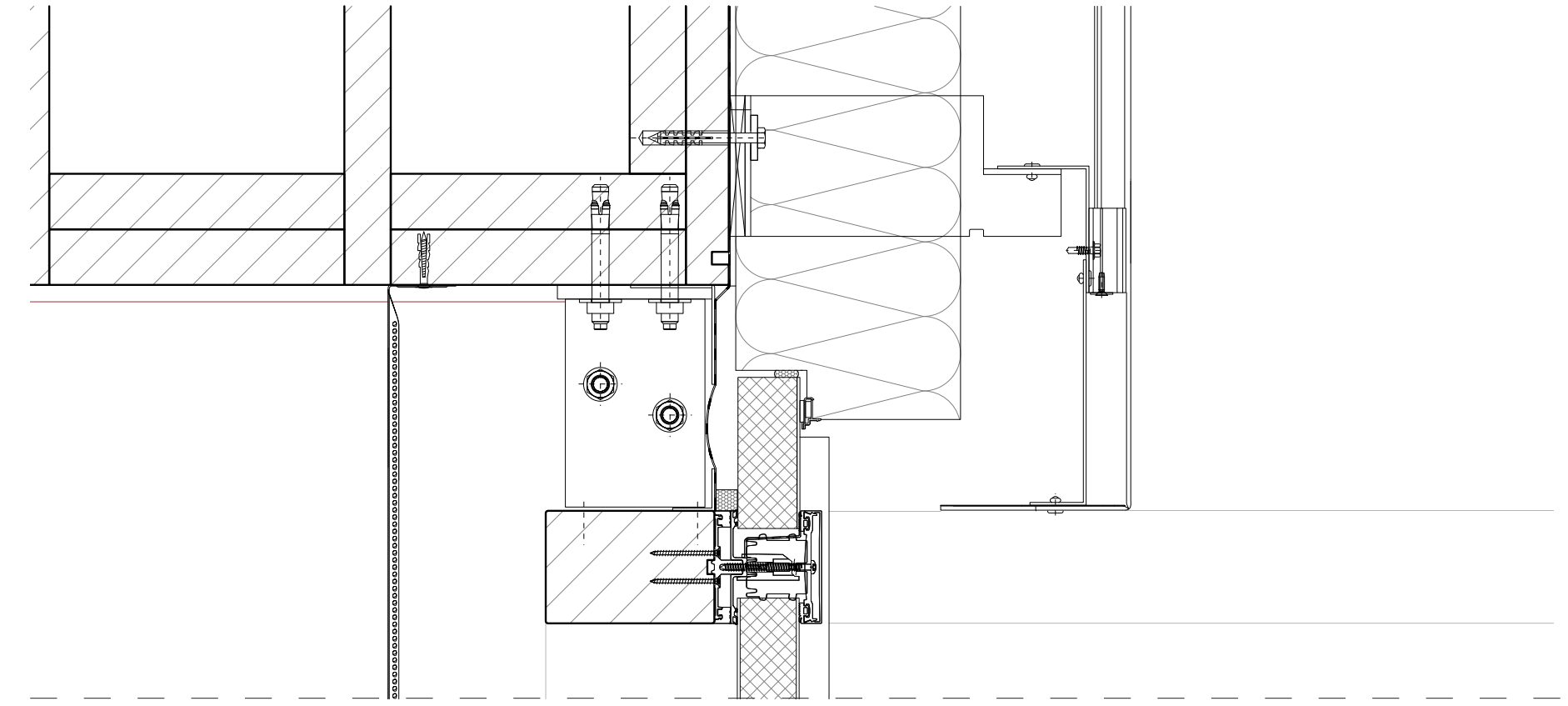


**Detail**

Light shaft  
Mullion-transom facade  
Aluminum and wood  
Vertical section  
Level of detail. 1:5

100 mm

500 mm



**Detail**

Light shaft

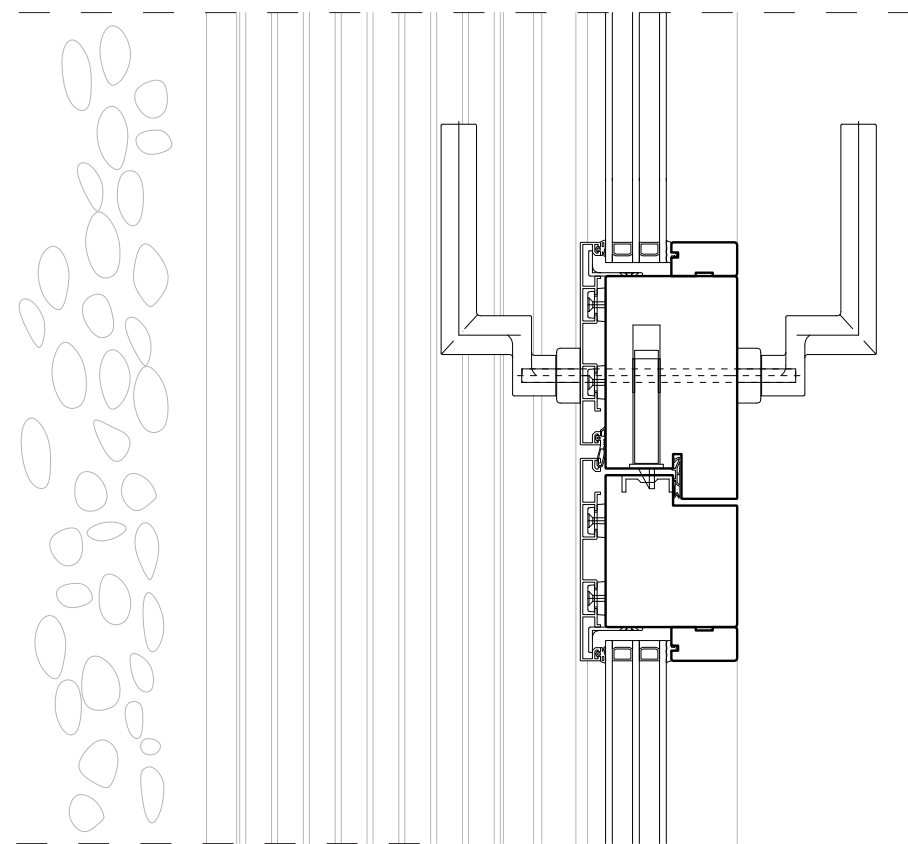
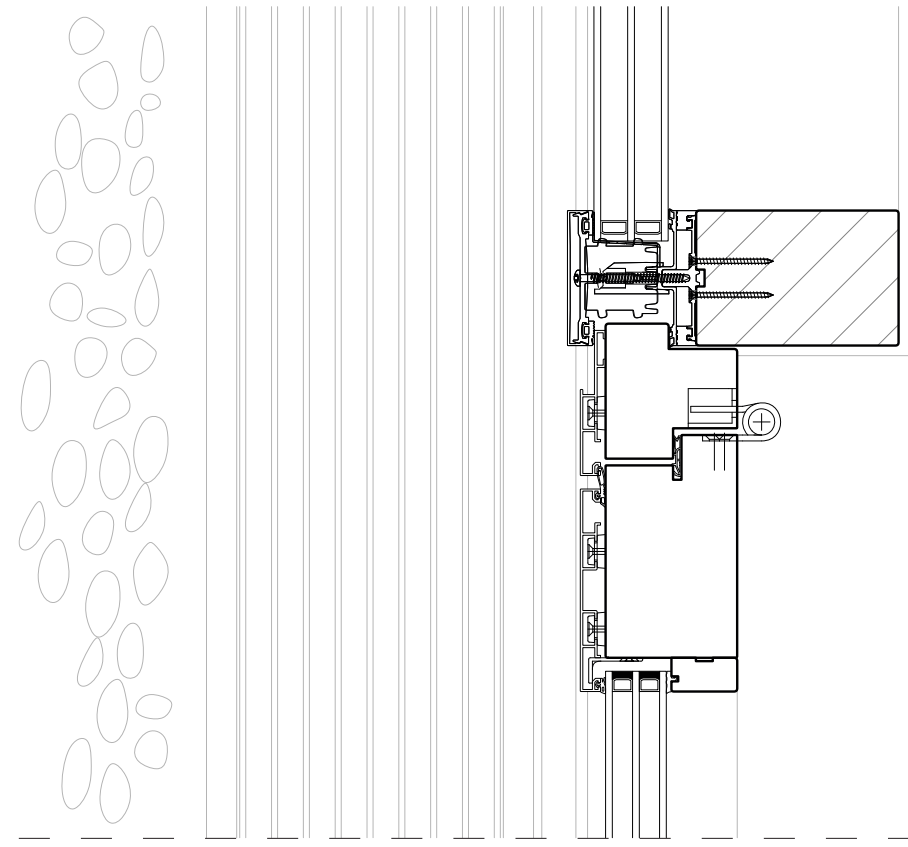
Door

Horizontal section

Level of detail. 1:5

100 mm

500 mm



**Detail**

Light shaft

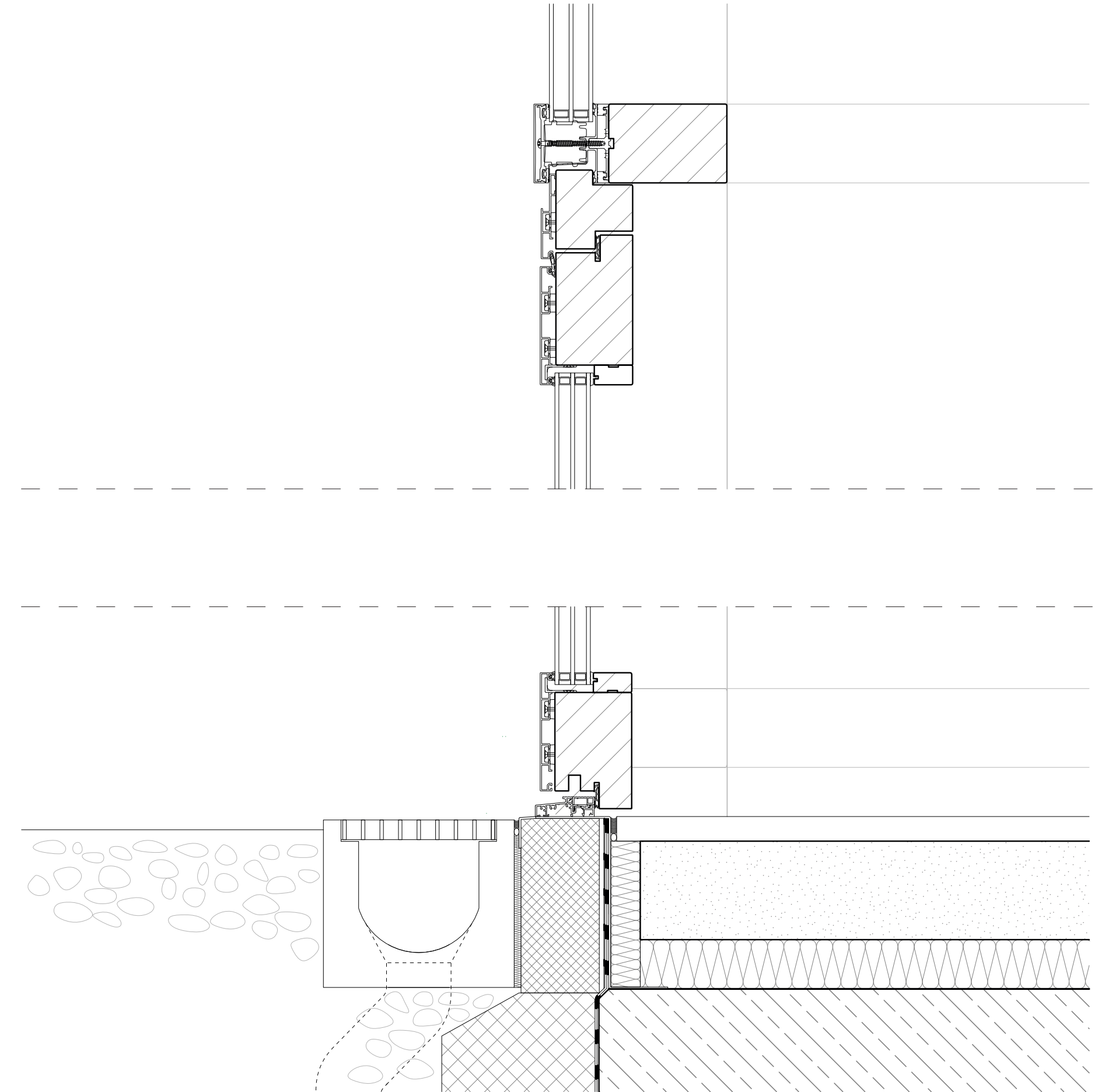
Door

Vertical section

Level of detail. 1:5

100 mm

500 mm



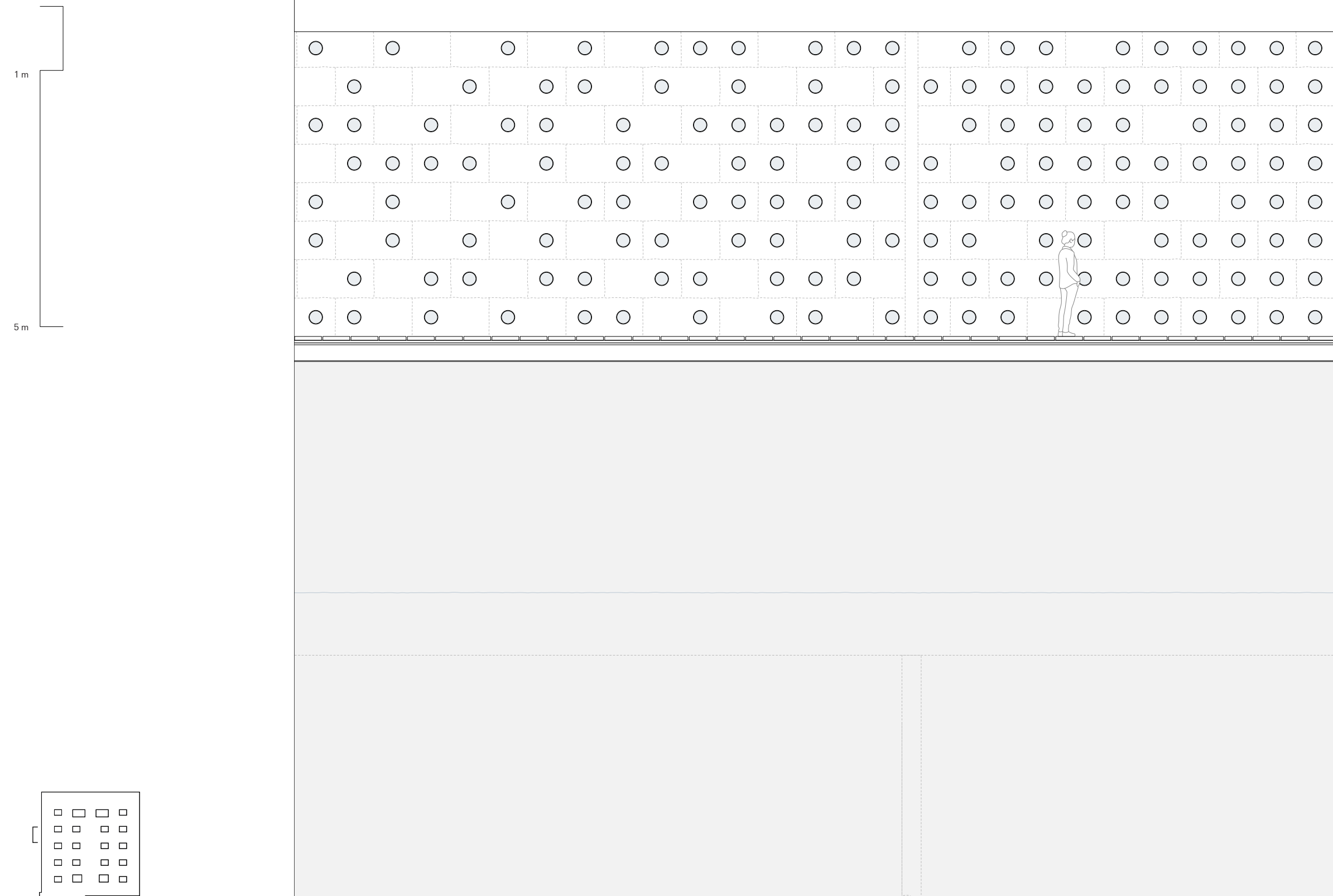


### Fragment

Elevation

Facade

Level of detail. 1:20

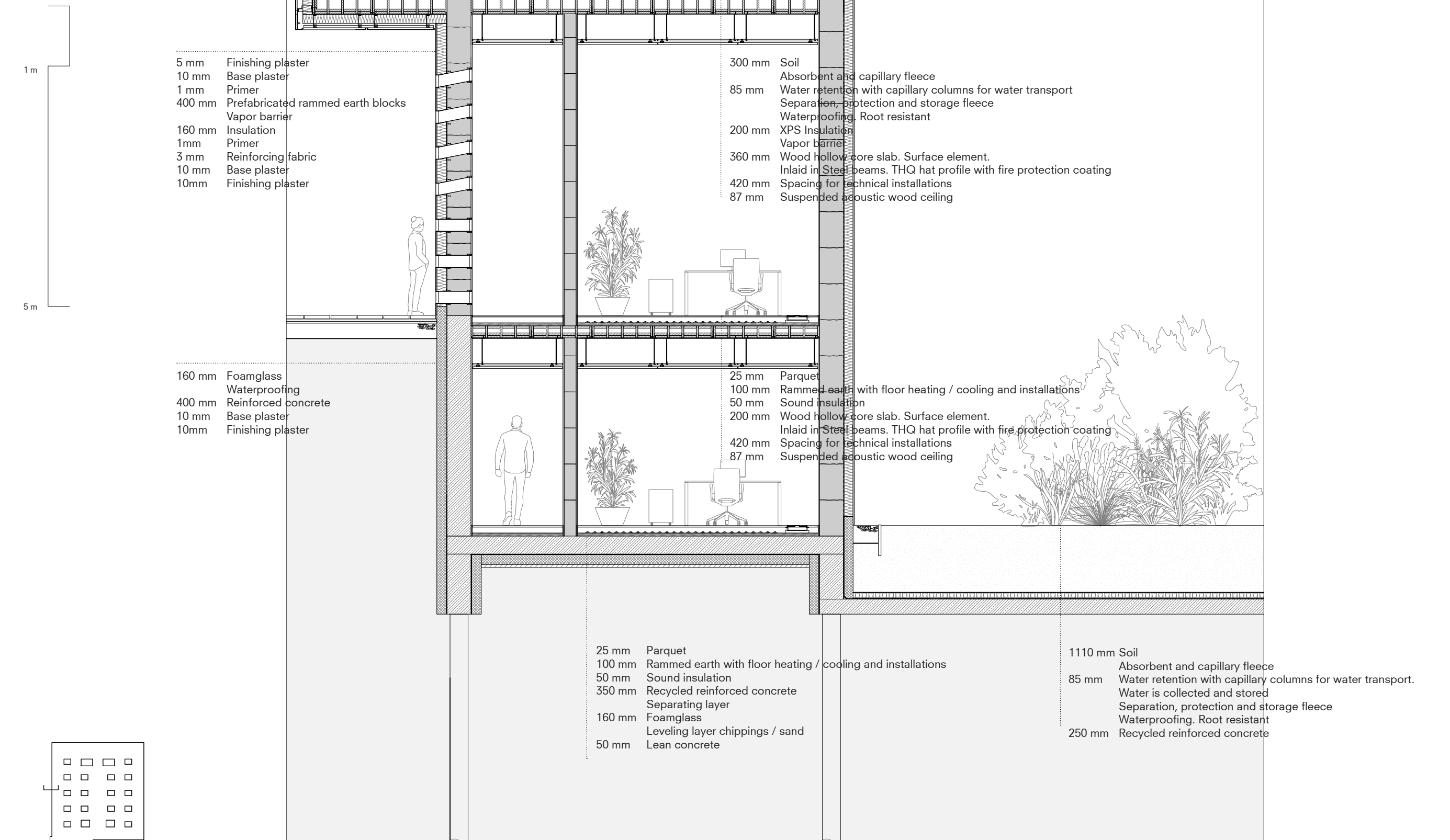


### Fragment

Section

Facade

Level of detail. 1:20



### Detail

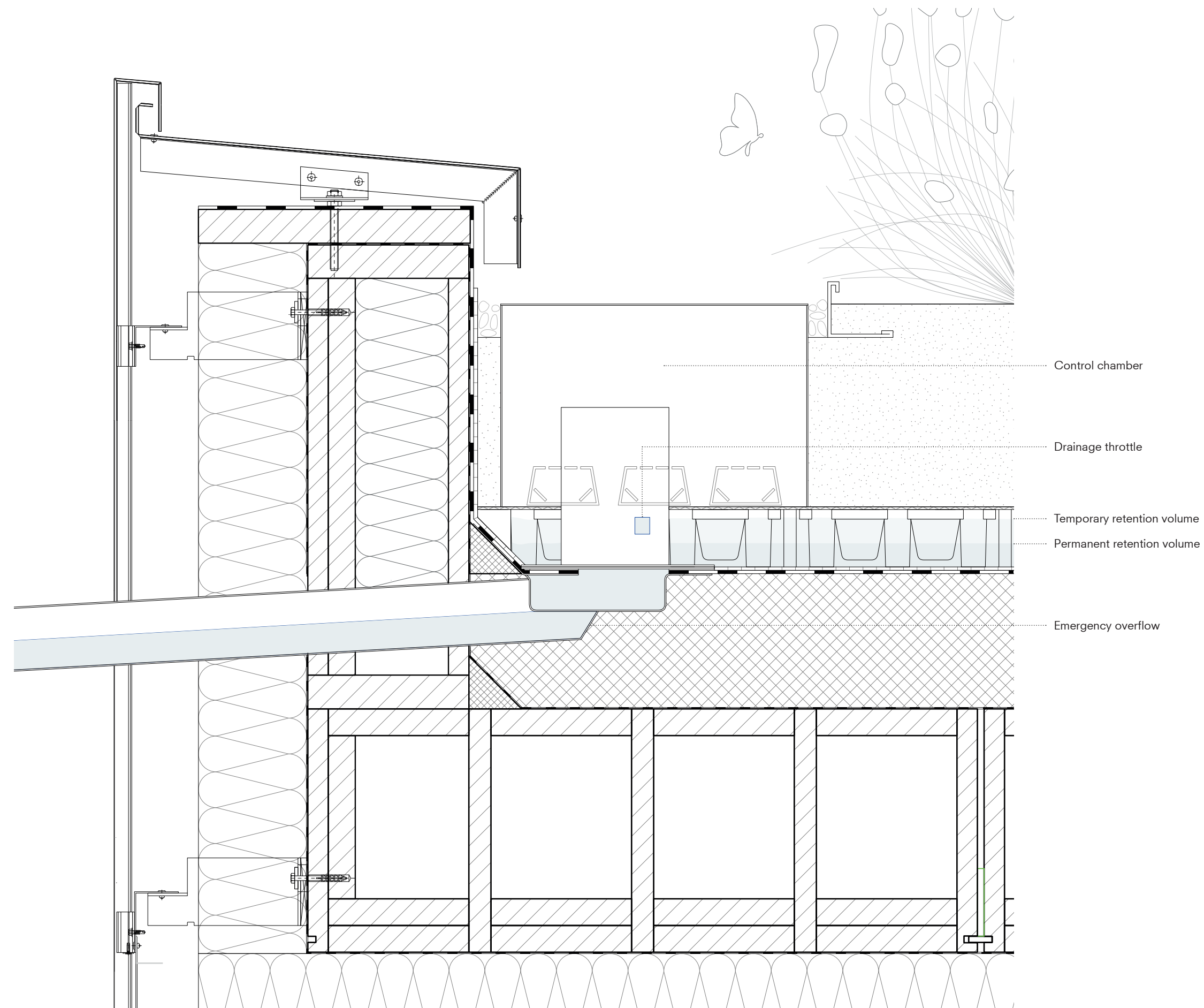
Attic

Vertical section

Level of detail. 1:5

100 mm

500 mm



### Detail

Facade

Vertical section

Level of detail. 1:5

100 mm

500 mm

