Phoenix

Reborn into Community

DESIGN BOOKLET (P5)

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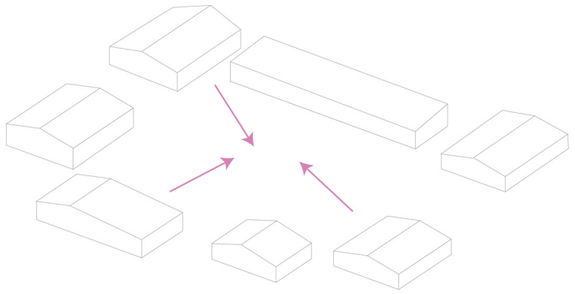
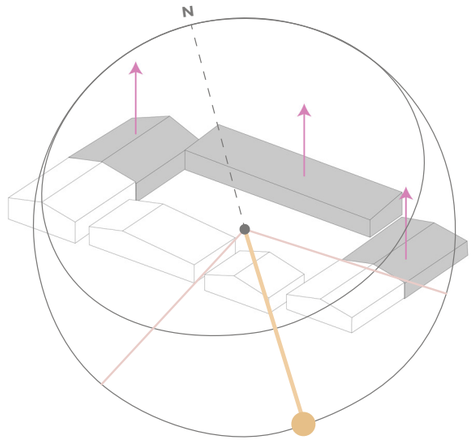
Research Tutors: Ir. Frederique van Andel

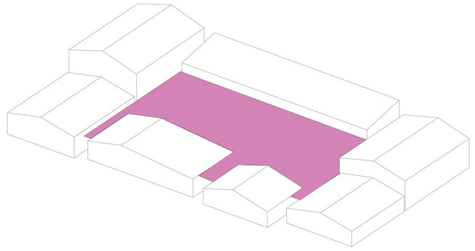
Building Design - Form of the Building



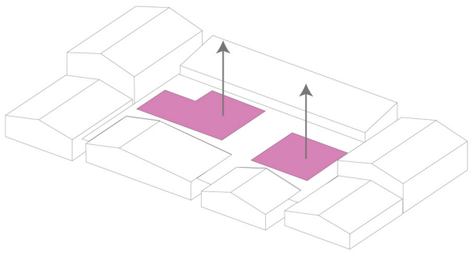
Putting similar typologies together



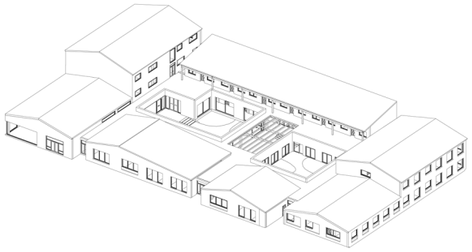
Adjusting the heights According to the zoning plan



Creating a connection between the buildings by creating outside walking paths



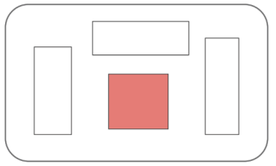
Taking out some parts to create inner courtyards



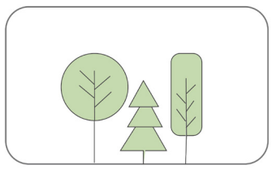
Final Form

Master Plan

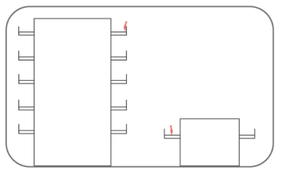
Master Plan Model (1:2500)



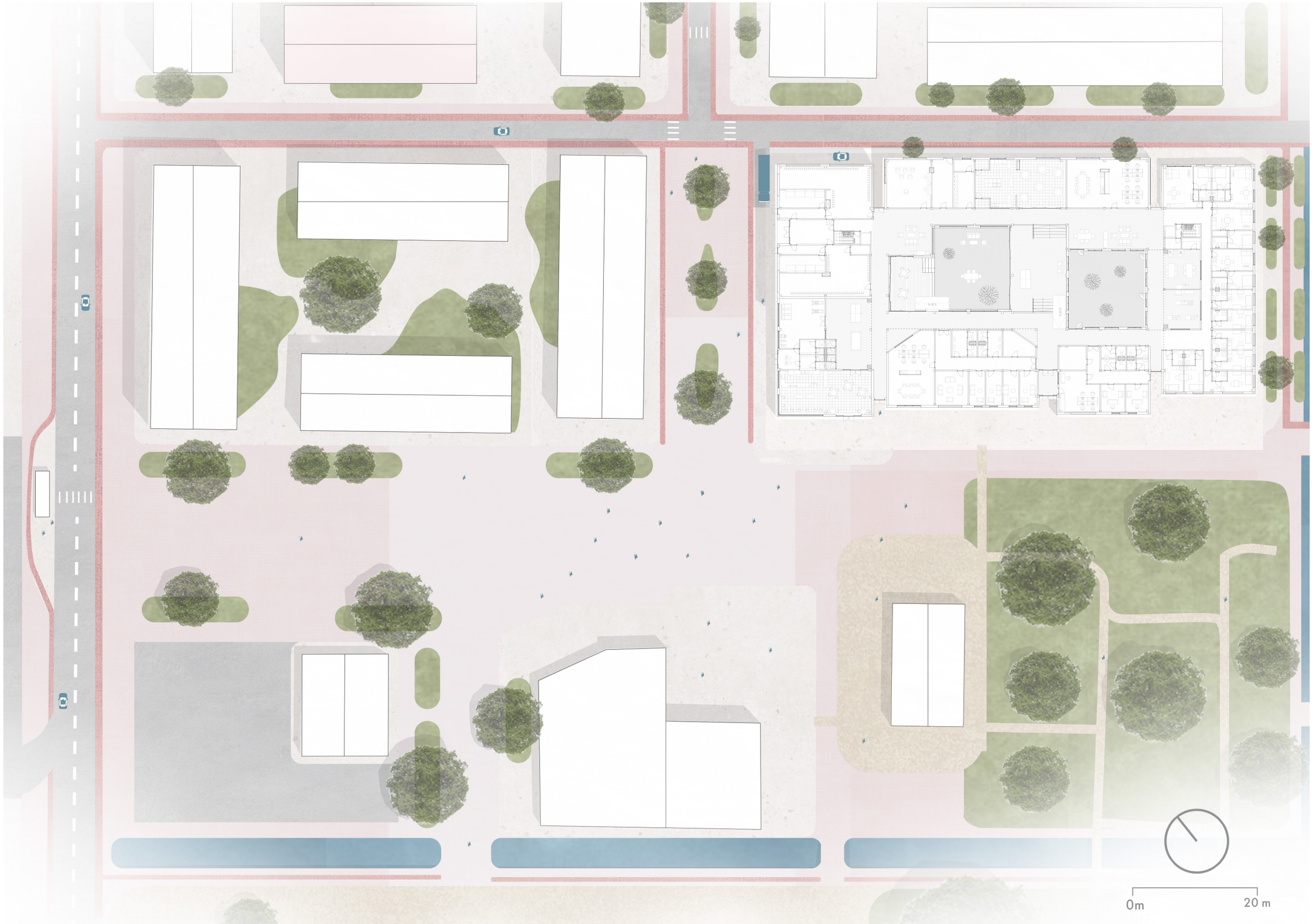
Avoiding Isolation



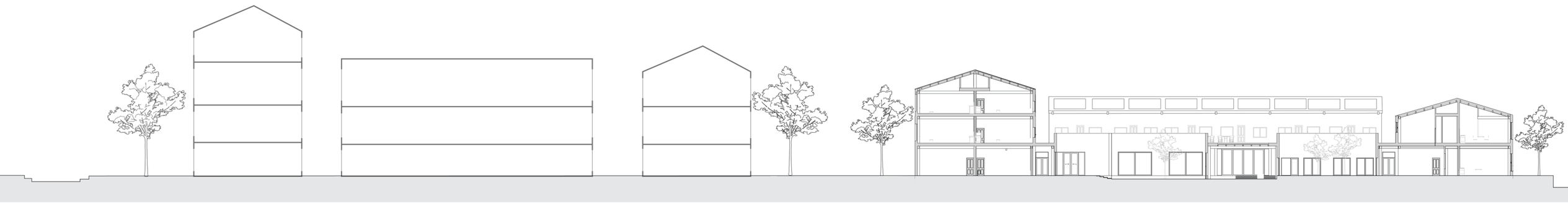
Connection with nature and animals

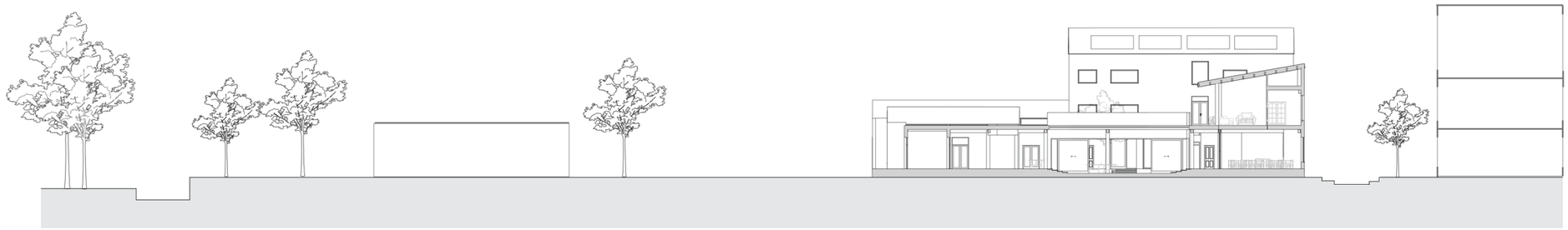


Low-rise

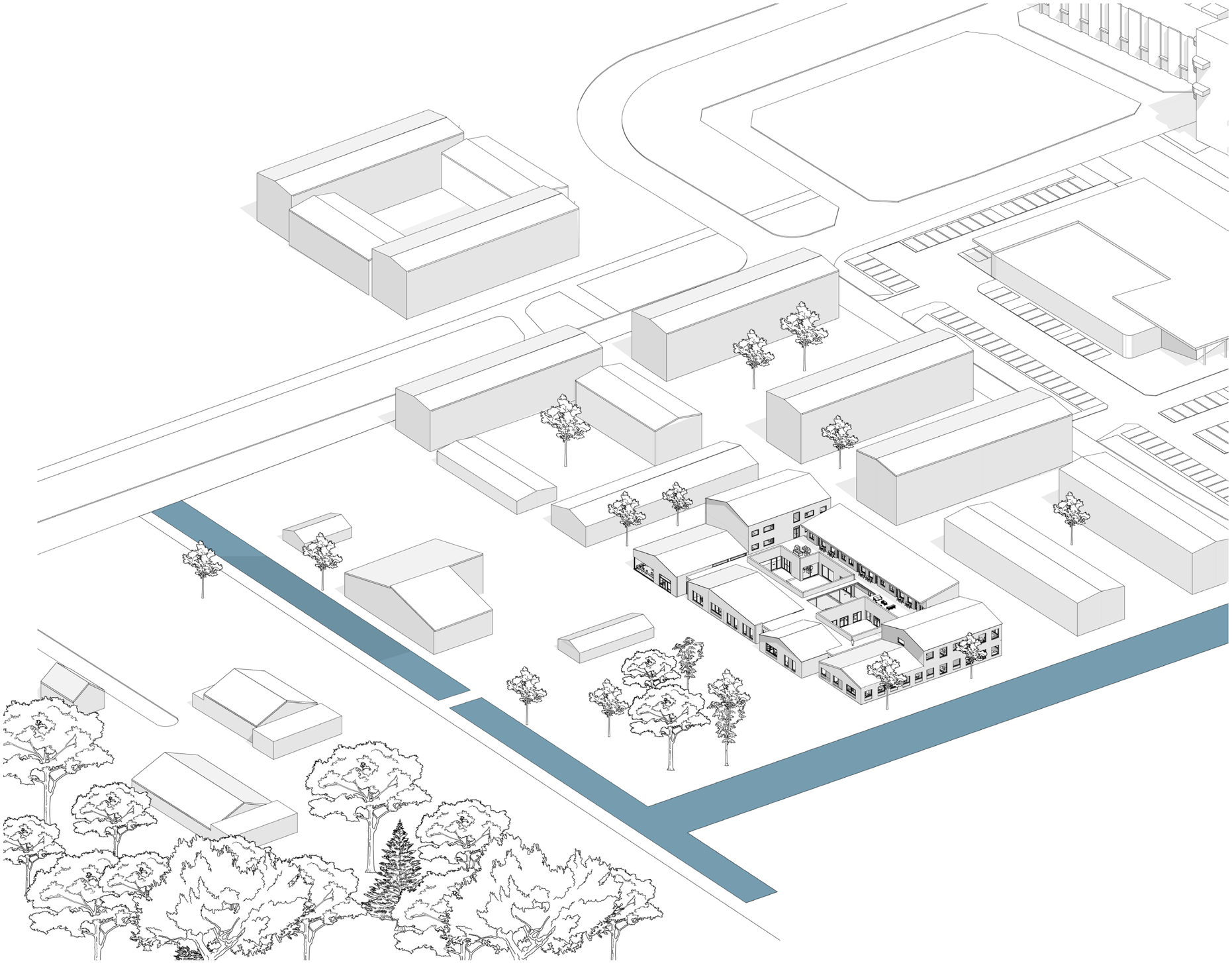


Zoomed in Master Plan





Urban Sections (1:500)

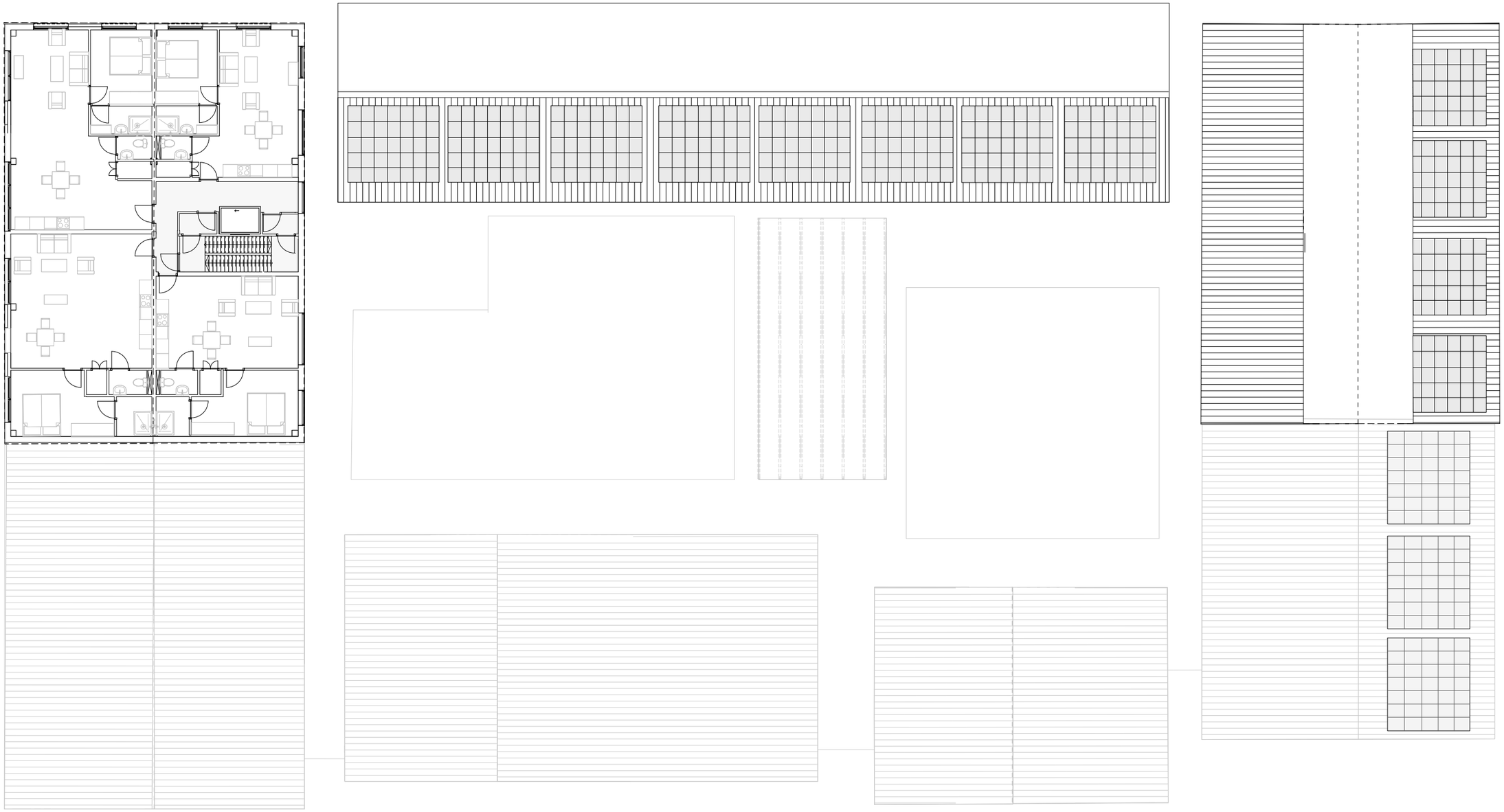


Axonometric View, building in site

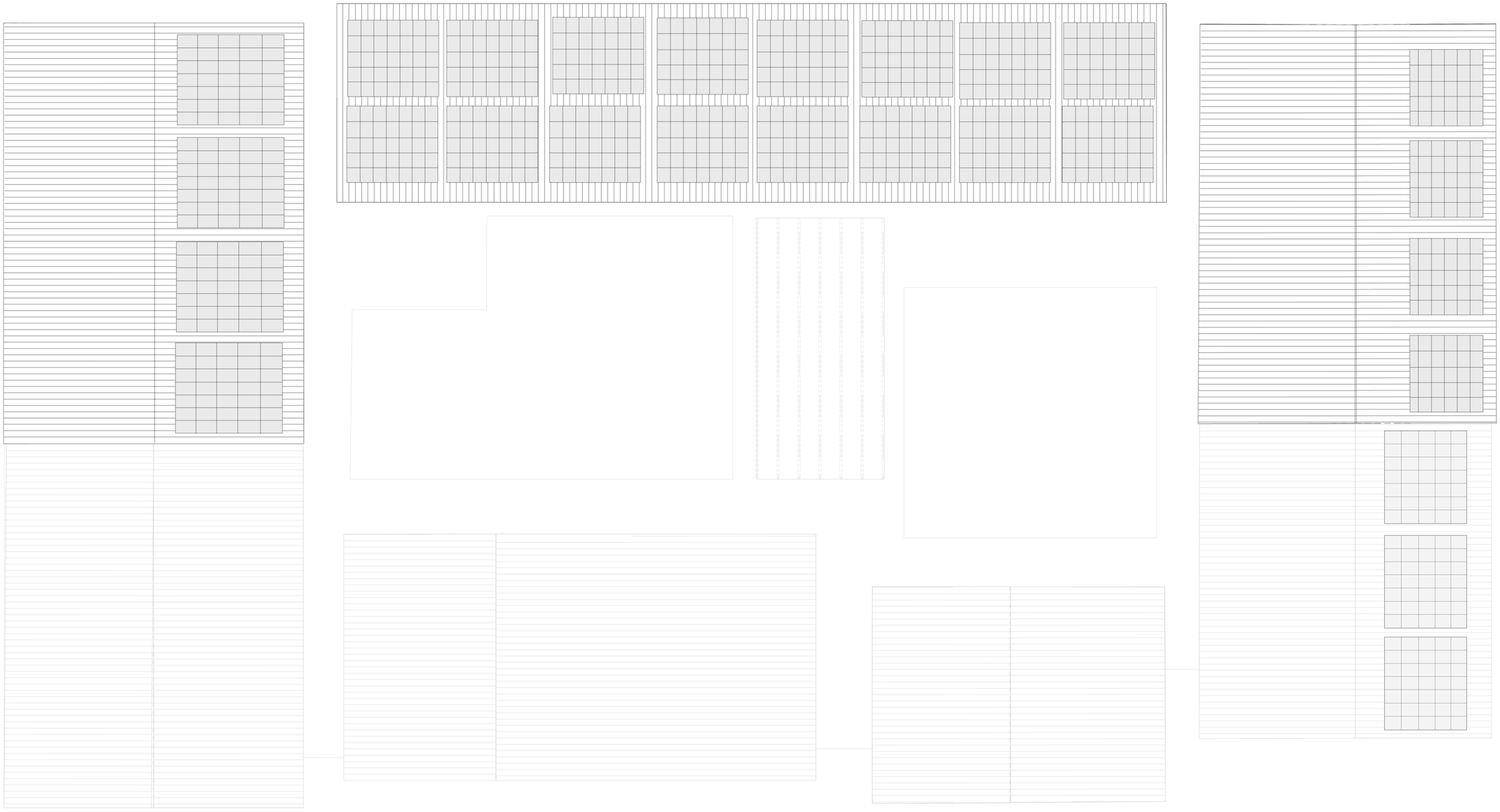
Ground Floor Plan (1:200)

First Floor Plan (1:200)

Building Design - Plans

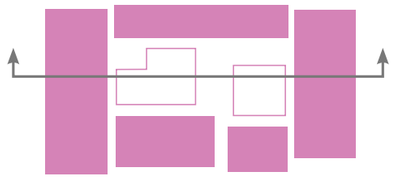


Second Floor Plan (1:200)

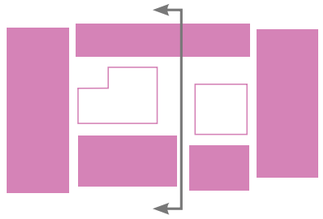


Roof Plan (1:200)

Building Design - Plans



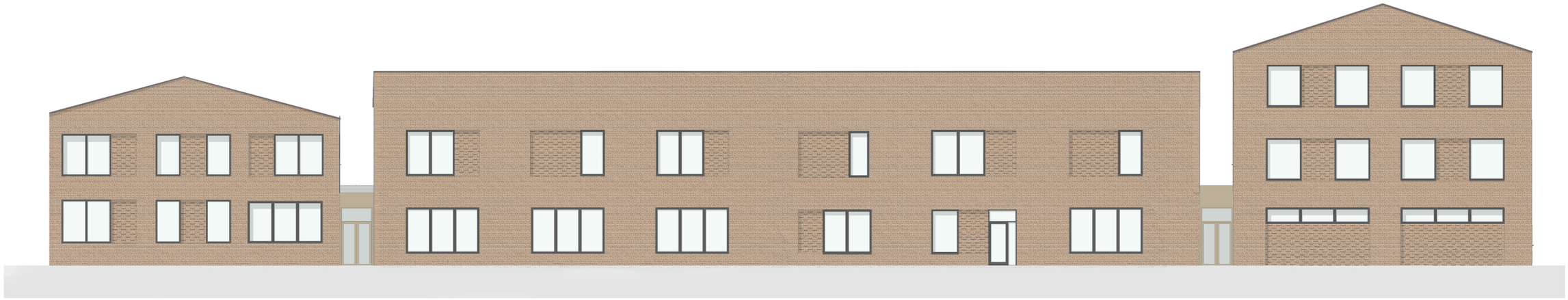
Section 1 (1:200)



Section 2 (1:200)

Building Design - Facades

South- West Facade



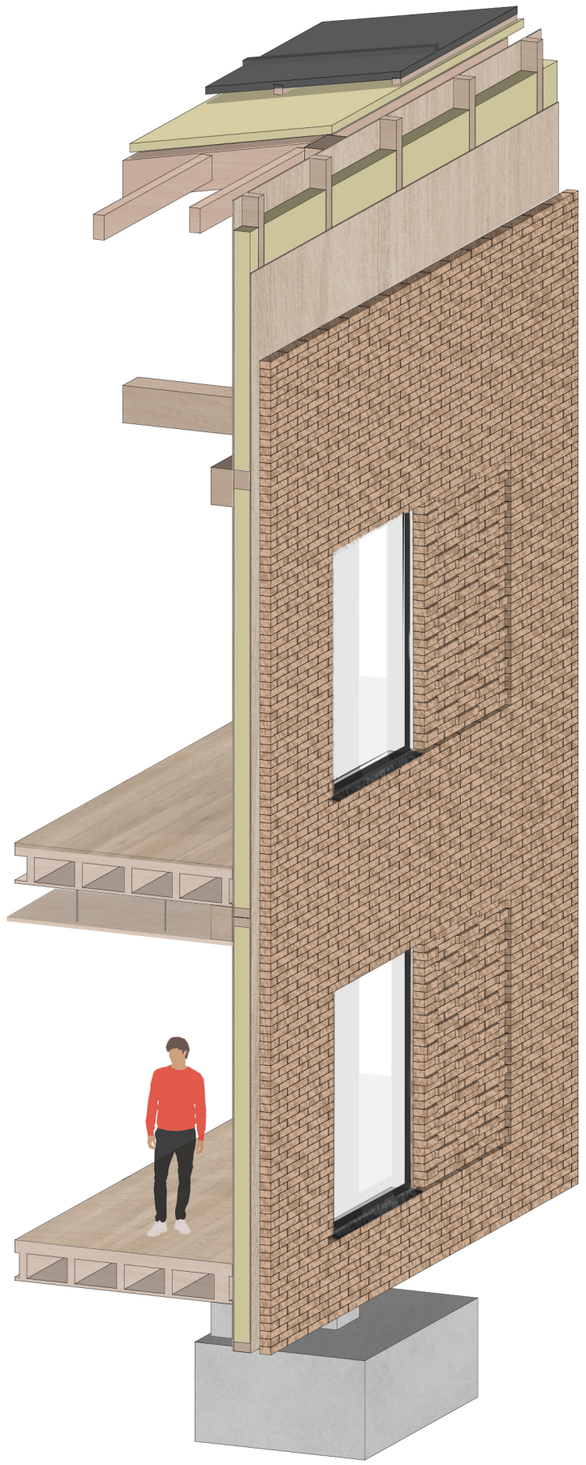
North- East Facade

Building Design - Facades

South- East Facade

North- West Facade

Courtyard Facade



Brick Facade

Building Design - Impressions

Render from outside

View from the Main Common Area

View from the Cafe

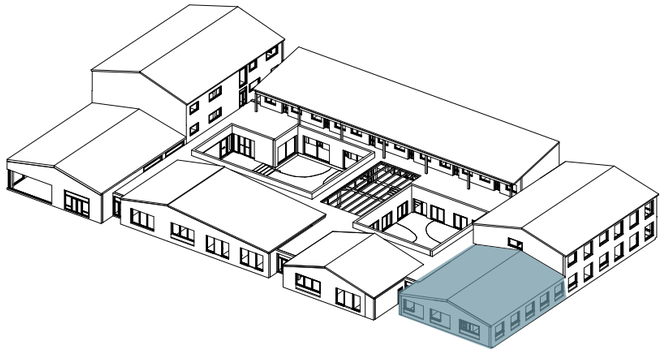
View from the Common Area in the Public side of the Building

View from the coffee corner

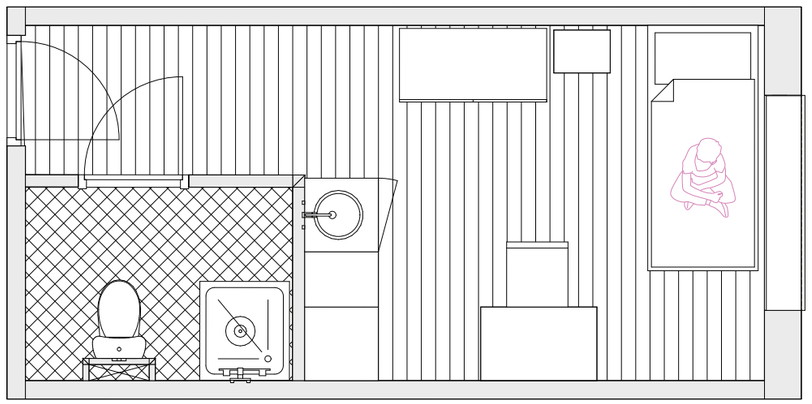
View from the Common Area

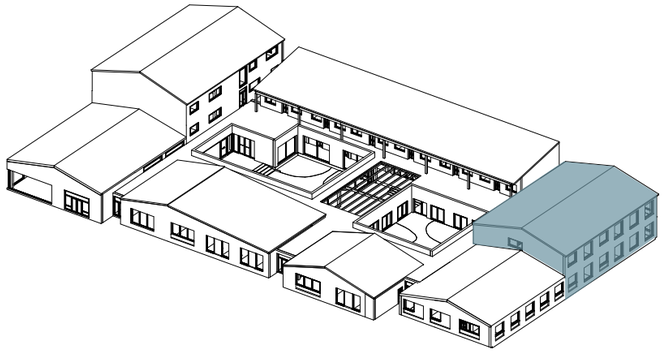
View from the Coridor next to the Basic Skills room

Building Design - Apartment Types

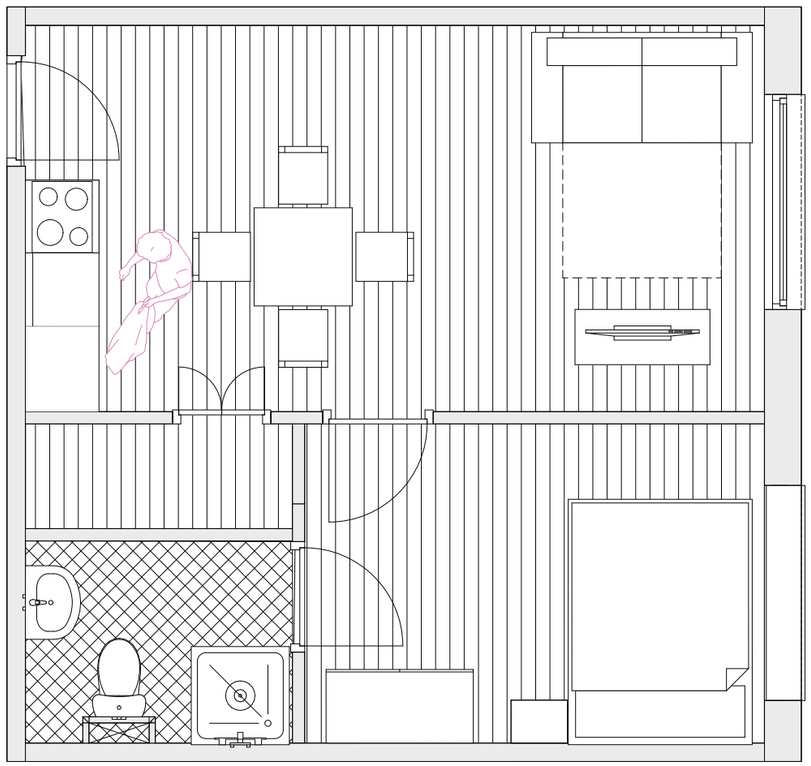


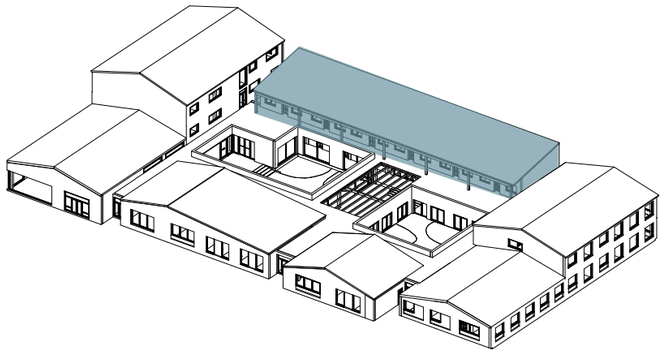
Type A: Small rooms (1:50)



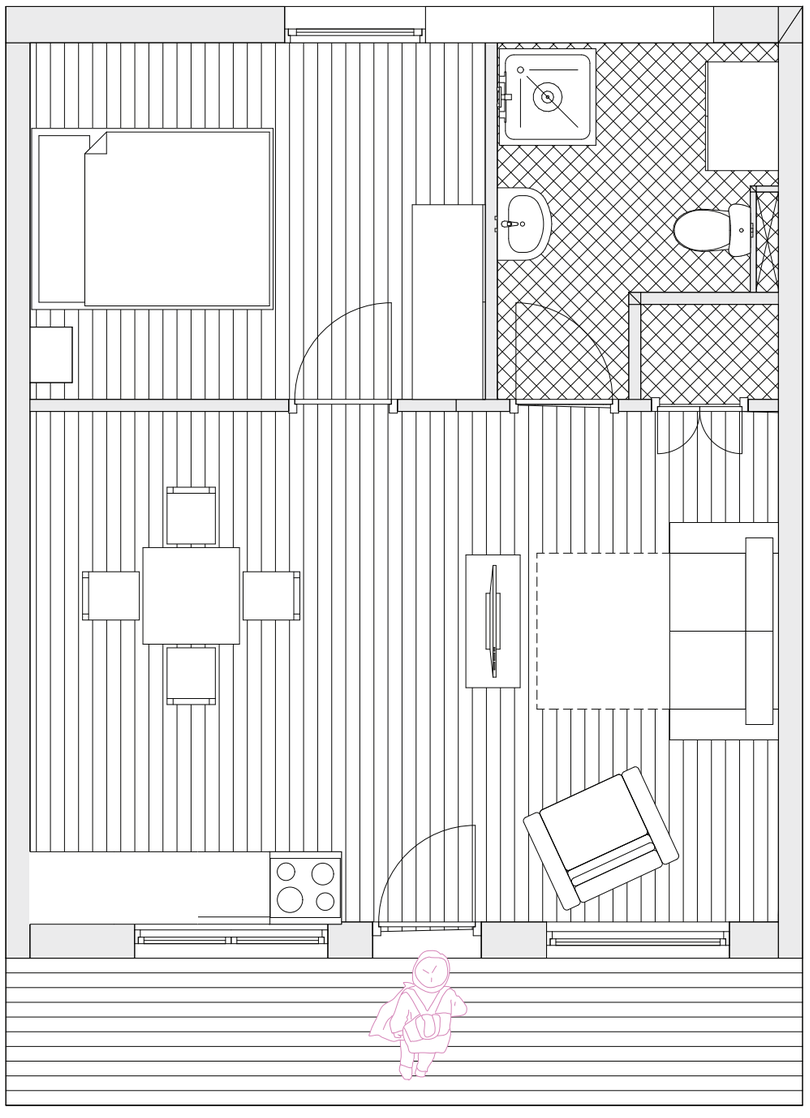


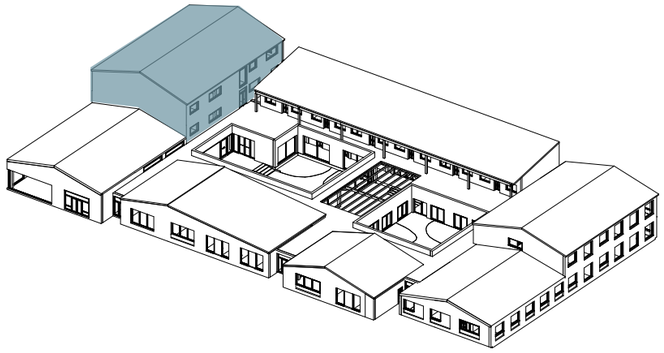
Type B: Small Apartments (1:50)



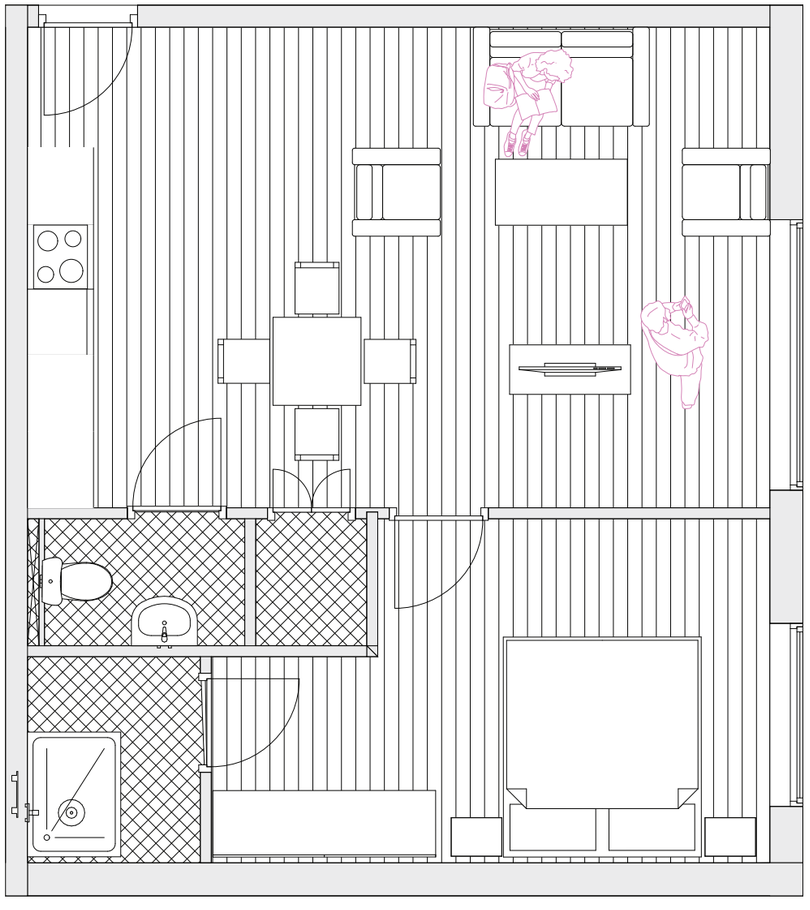


Type C: Big Apartments (1:50)





Type D: Couple Apartments (1:50)



Physical Model, Closed (Scale 1:100)

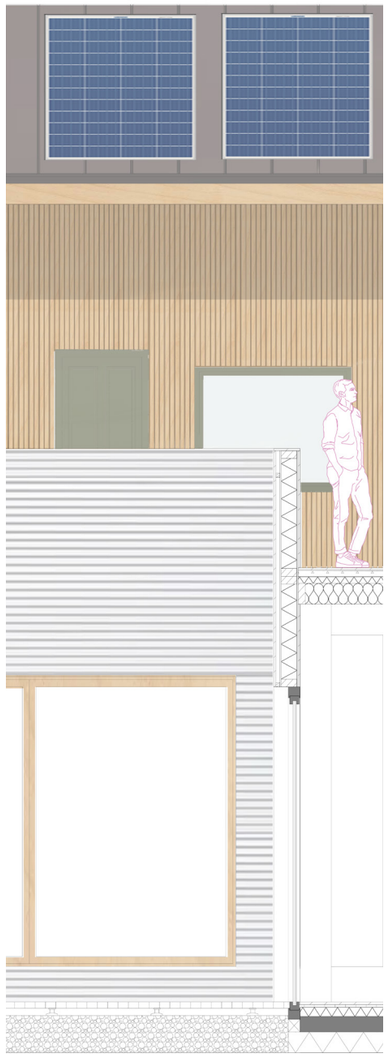
Physical Model, Opened (Scale 1:100)

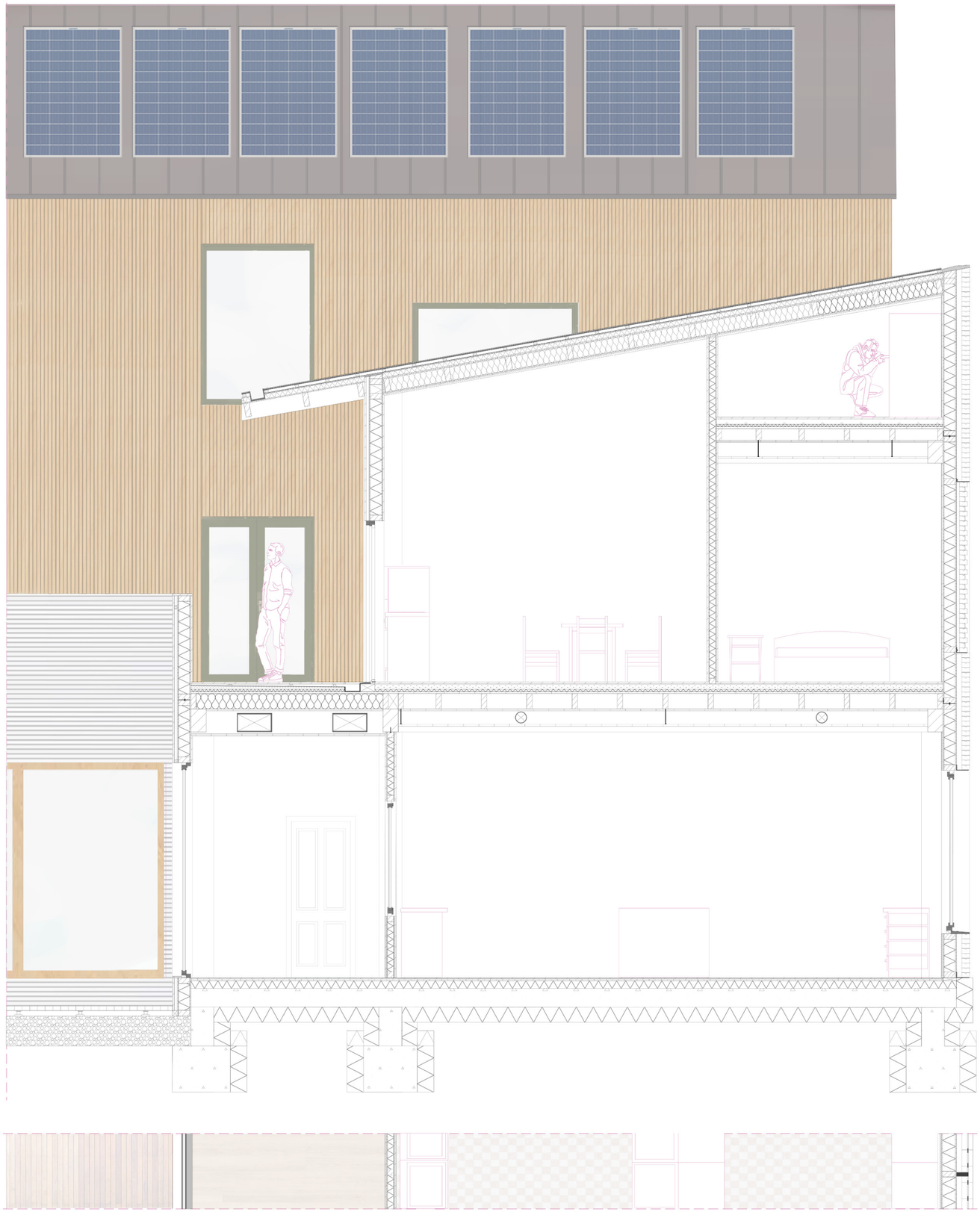
Physical Model, Section (Scale 1:100)

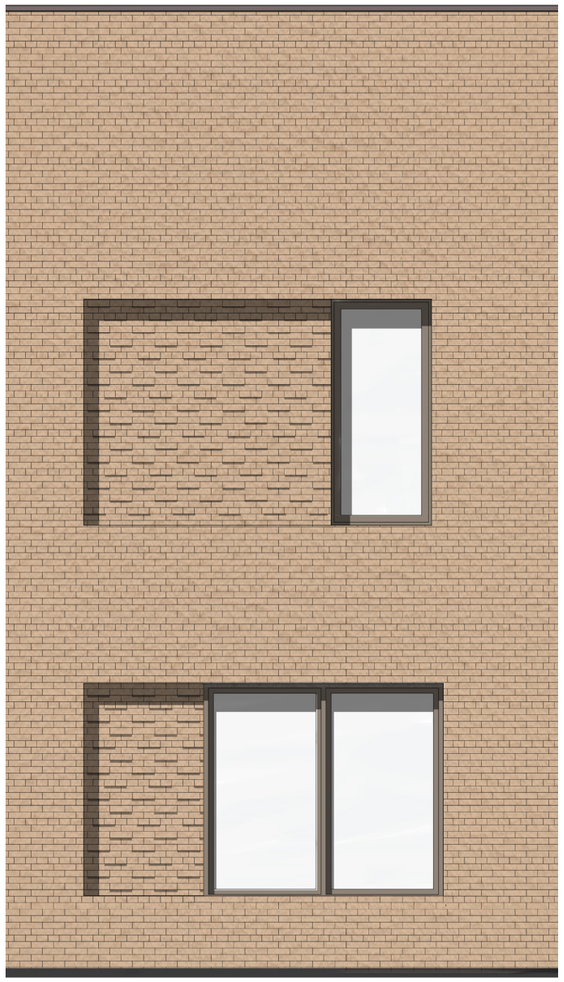
Physical Model, Courtyards and Common Living Room (Scale 1:100)

Physical Model, View from Courtyard towards the Common Room(Scale 1:100)

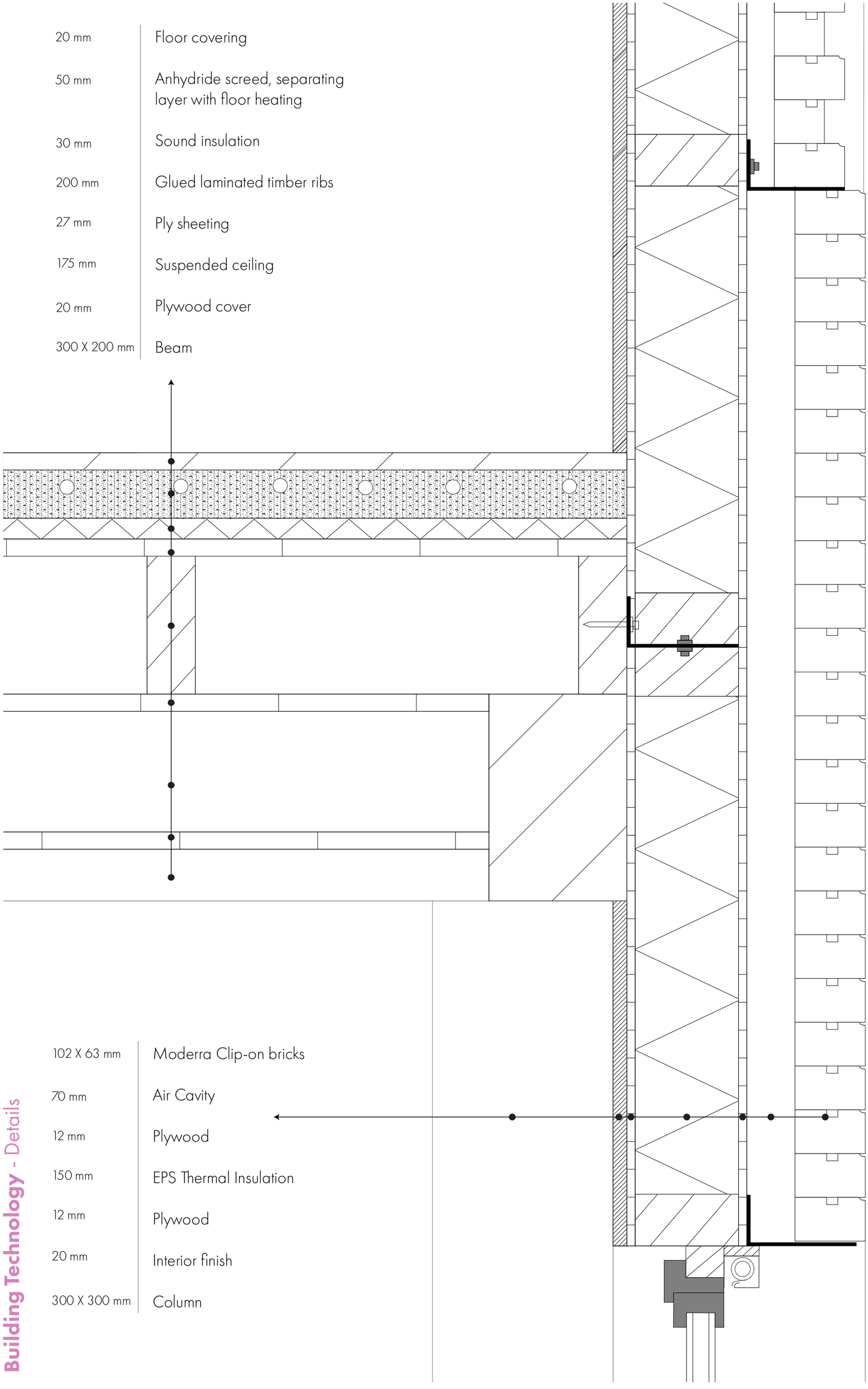
Building Technology - Segment Drawing





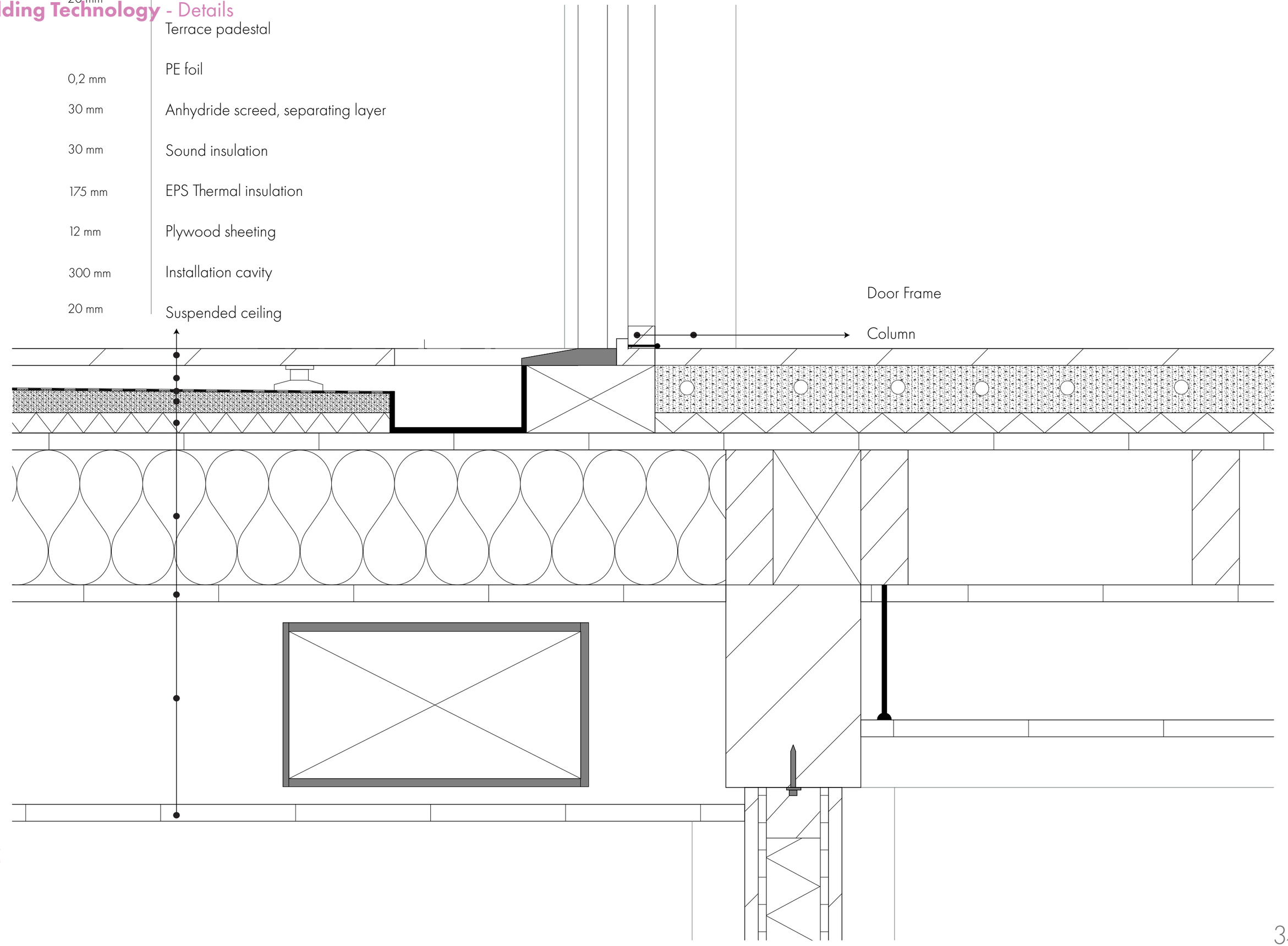


20 mm	Floor covering
50 mm	Anhydride screed, separating layer with floor heating
30 mm	Sound insulation
200 mm	Glued laminated timber ribs
27 mm	Ply sheeting
175 mm	Suspended ceiling
20 mm	Plywood cover
300 X 200 mm	Beam

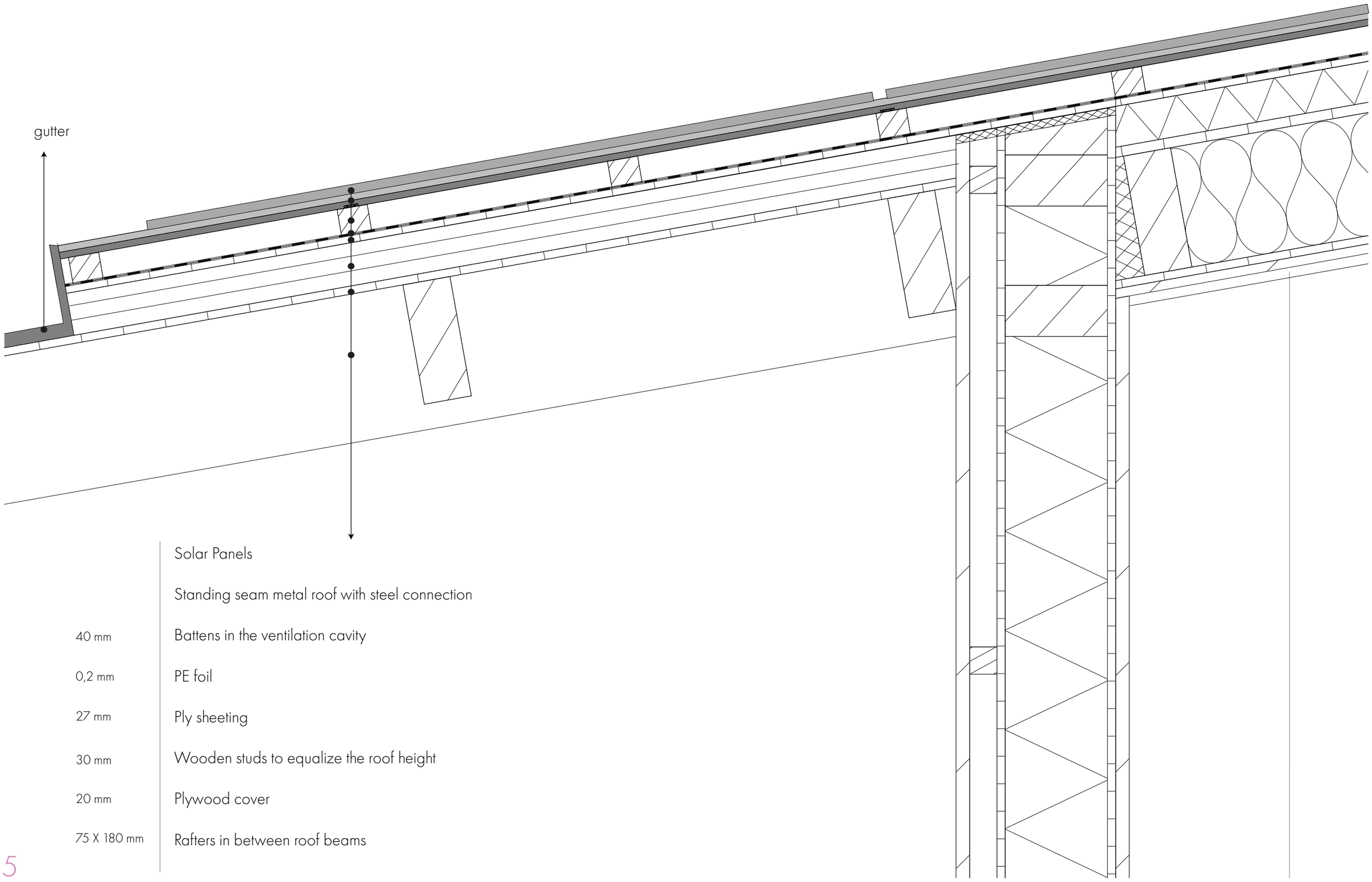


102 X 63 mm	Moderra Clip-on bricks
70 mm	Air Cavity
12 mm	Plywood
150 mm	EPS Thermal Insulation
12 mm	Plywood
20 mm	Interior finish
300 X 300 mm	Column

20 mm	Hardwood deck tiles
	Terrace padestal
0,2 mm	PE foil
30 mm	Anhydride screed, separating layer
30 mm	Sound insulation
175 mm	EPS Thermal insulation
12 mm	Plywood sheeting
300 mm	Installation cavity
20 mm	Suspended ceiling

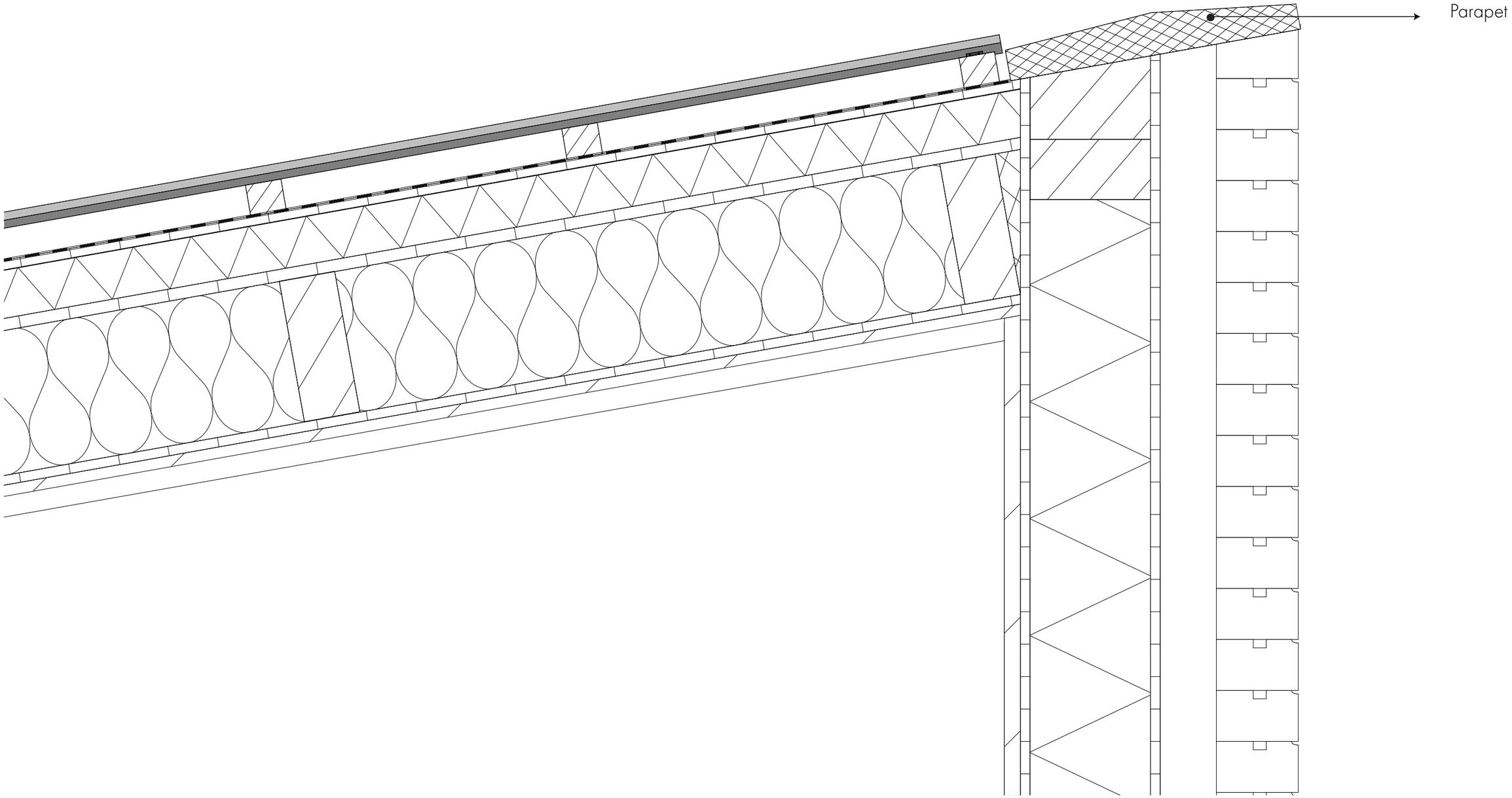


1:5



	Solar Panels
	Standing seam metal roof with steel connection
40 mm	Battens in the ventilation cavity
0,2 mm	PE foil
27 mm	Ply sheeting
30 mm	Wooden studs to equalize the roof height
20 mm	Plywood cover
75 X 180 mm	Rafters in between roof beams

1:5



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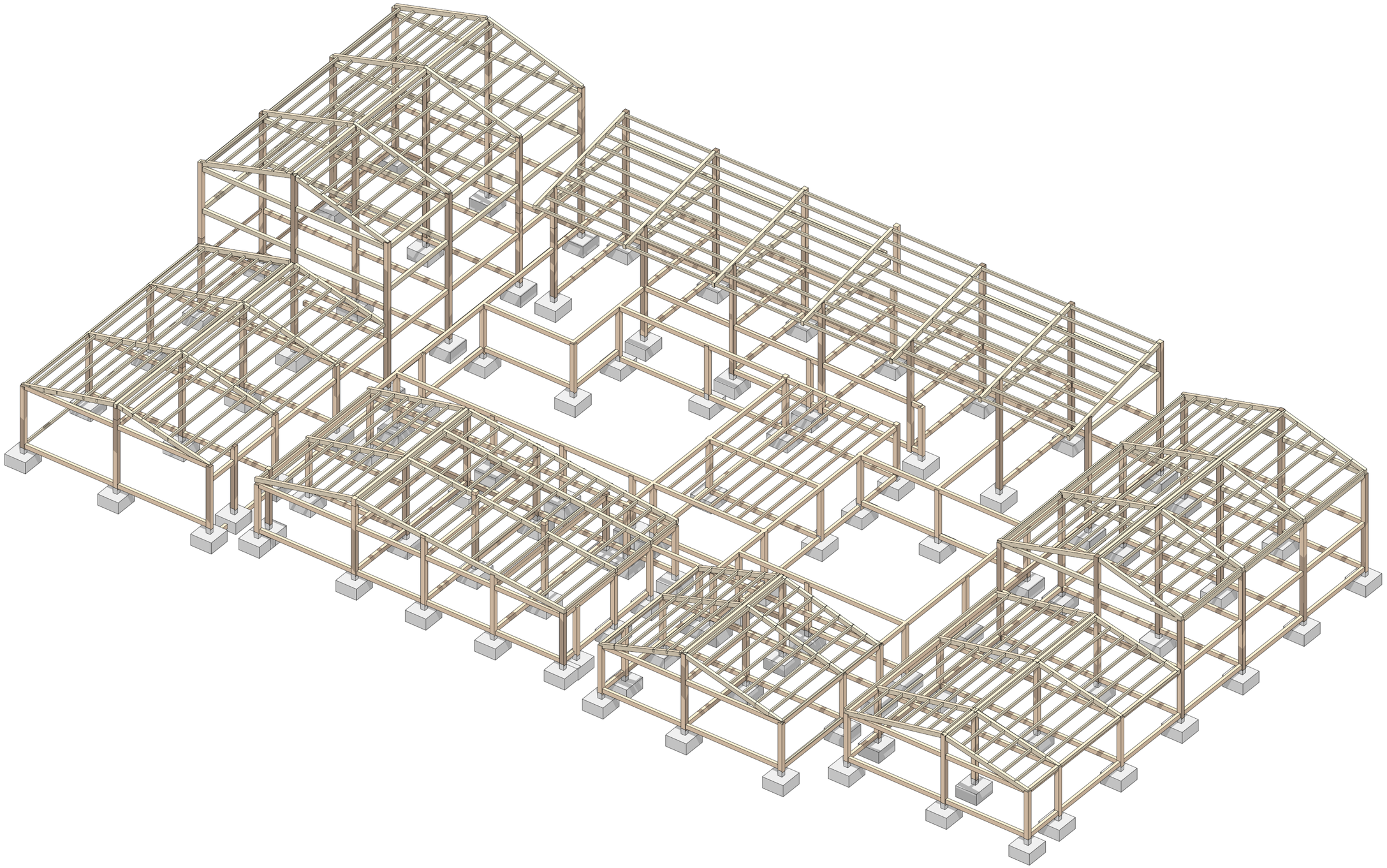
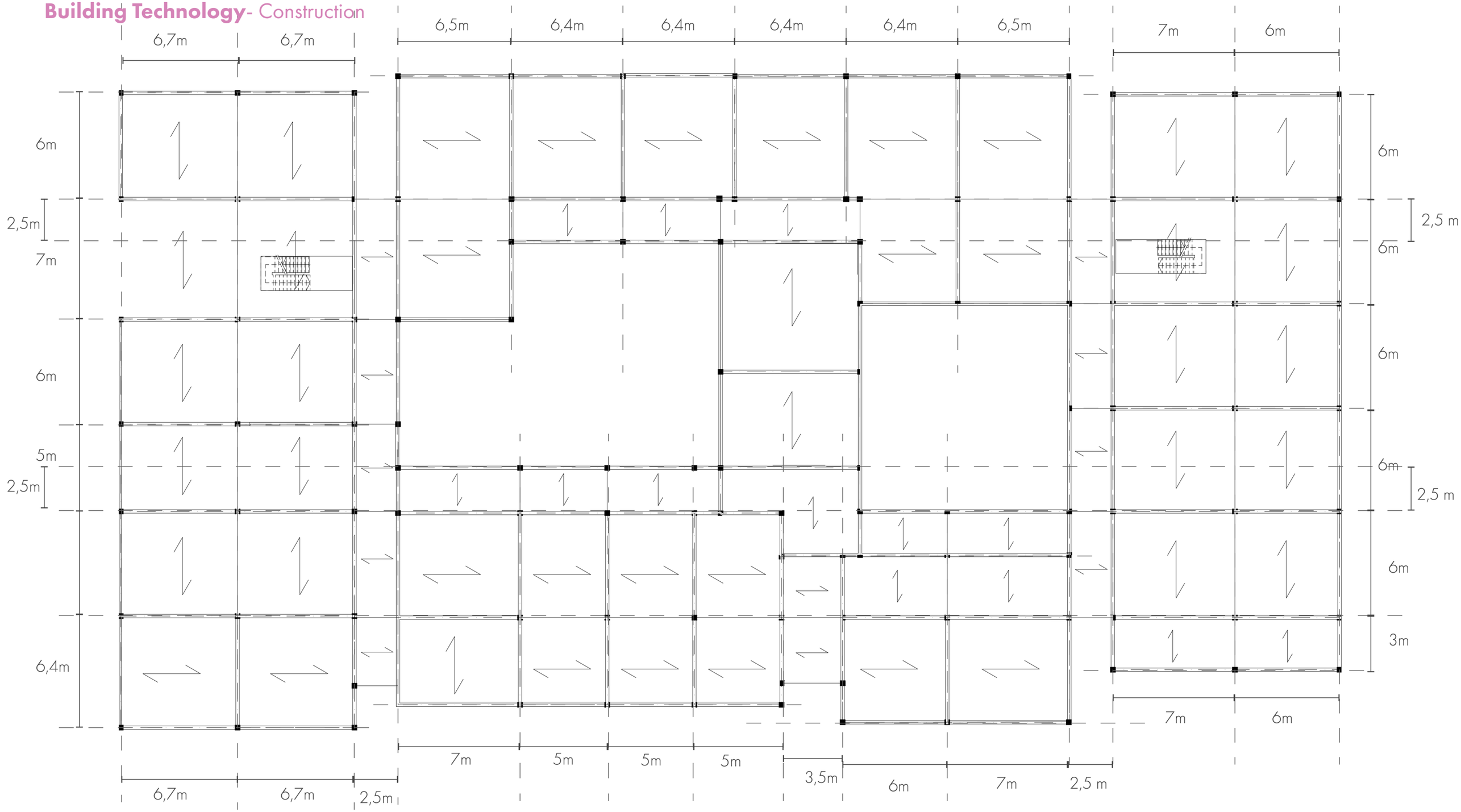
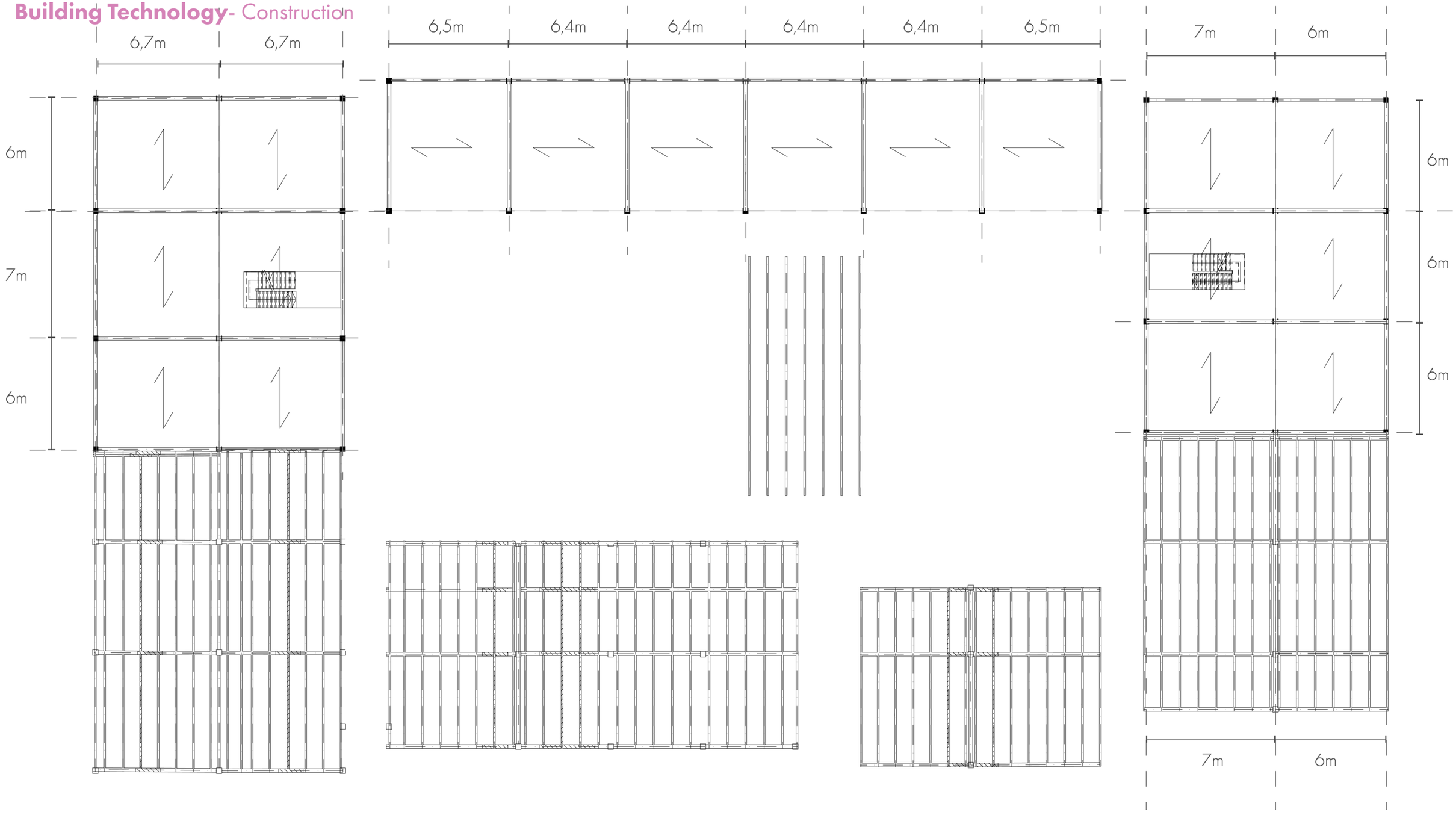


Axonometric Construction

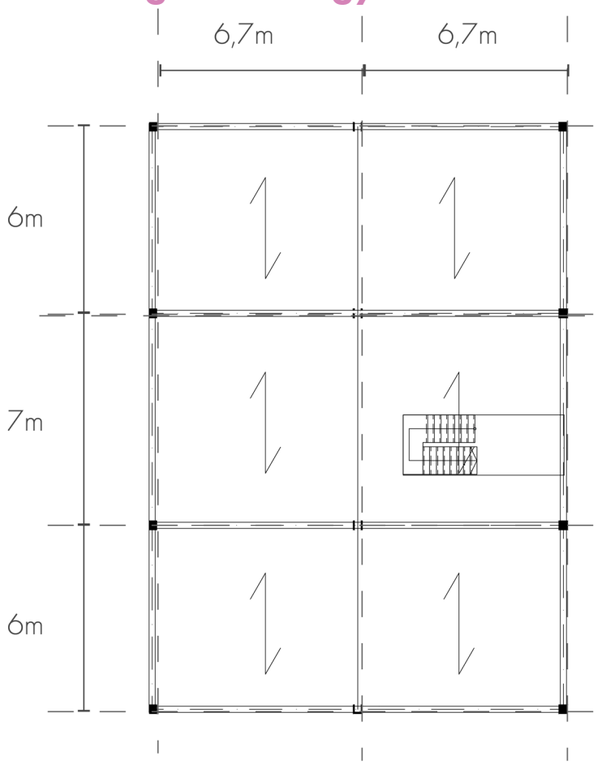


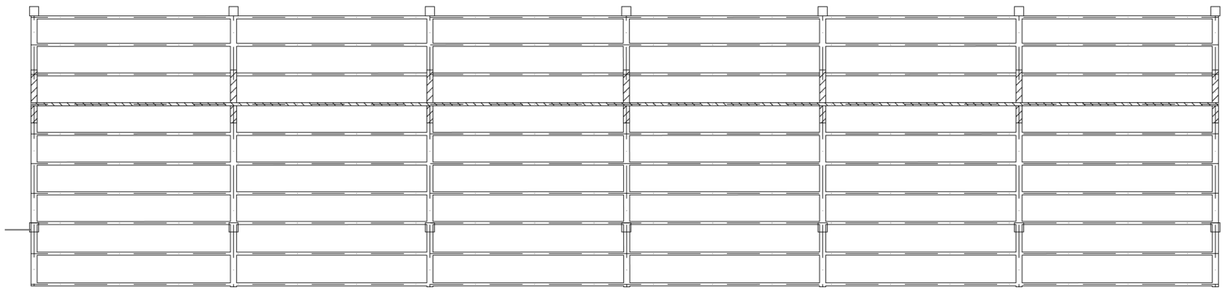
Ground Floor Construction (1:200)

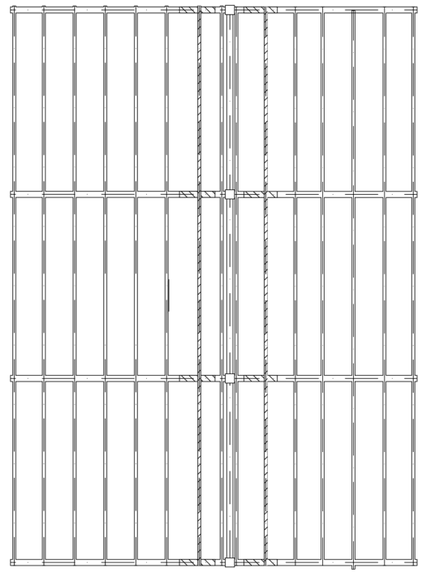


First Floor Construction (1:200)

Building Technology- Construction



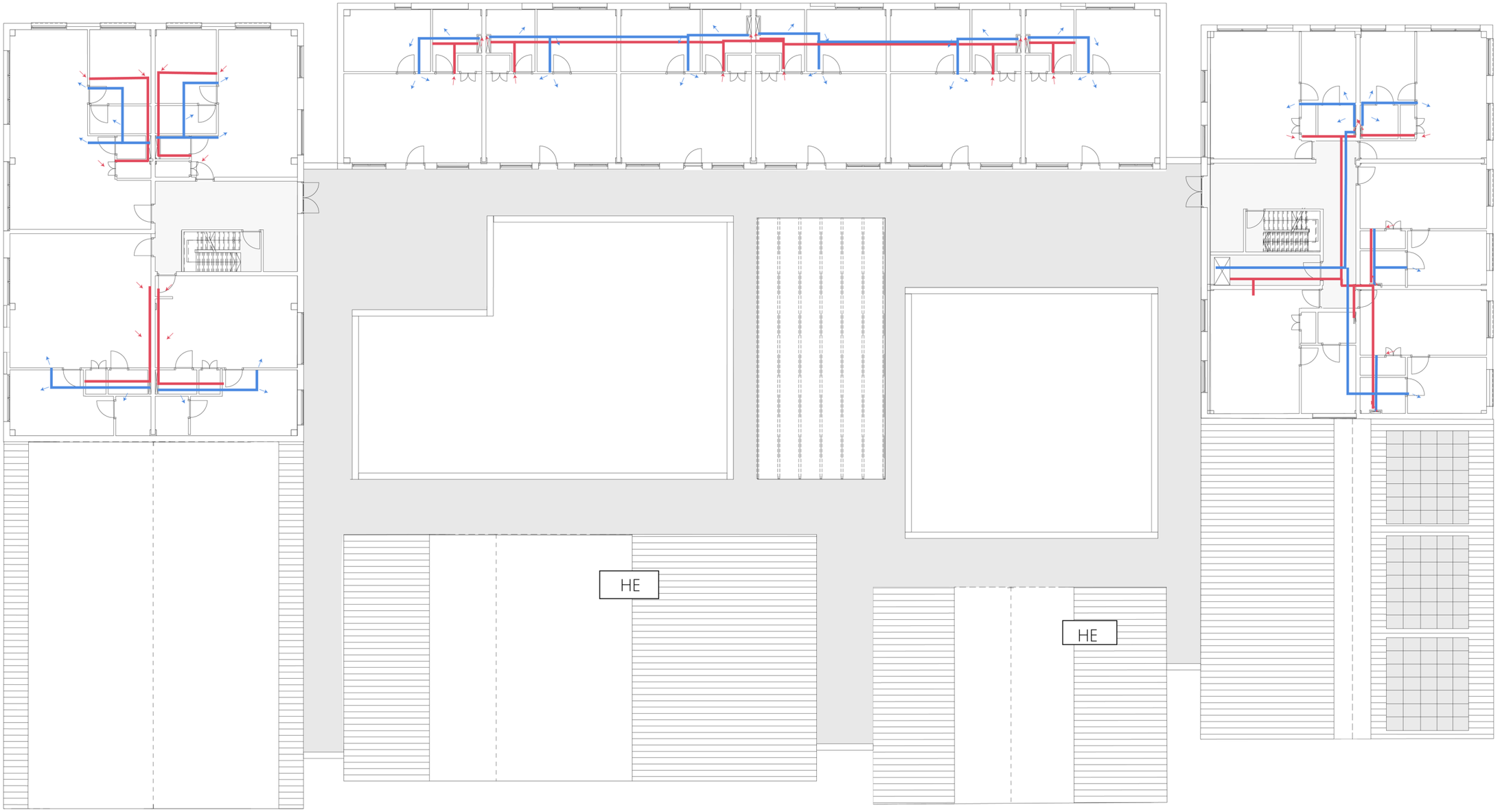




Second Floor Construction (1:200)

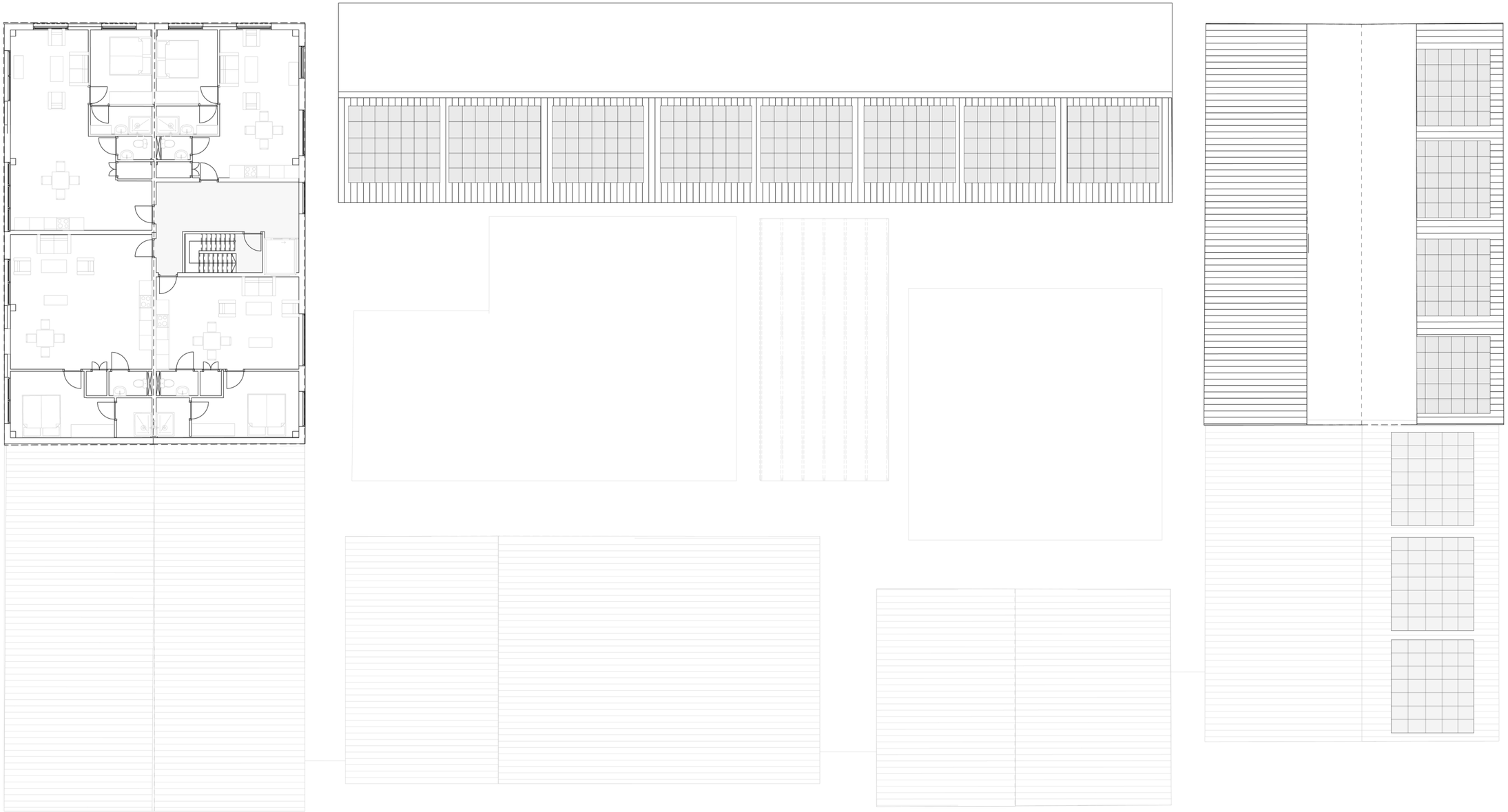
Ventilation Ground floor ceiling (1:200)

Building Technology- Ventilation



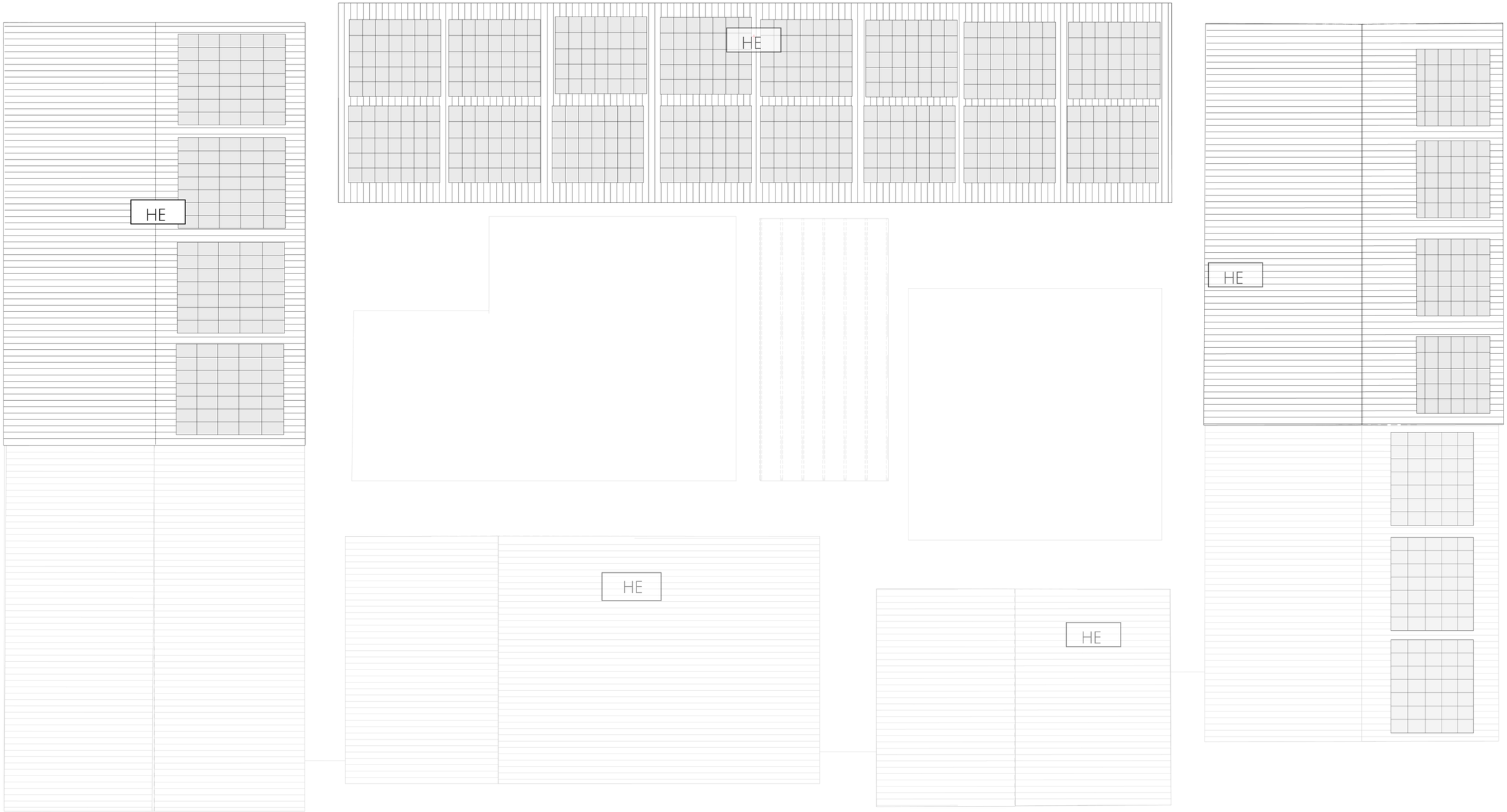
Ventilation First floor ceiling (1:200)

Building Technology- Ventilation

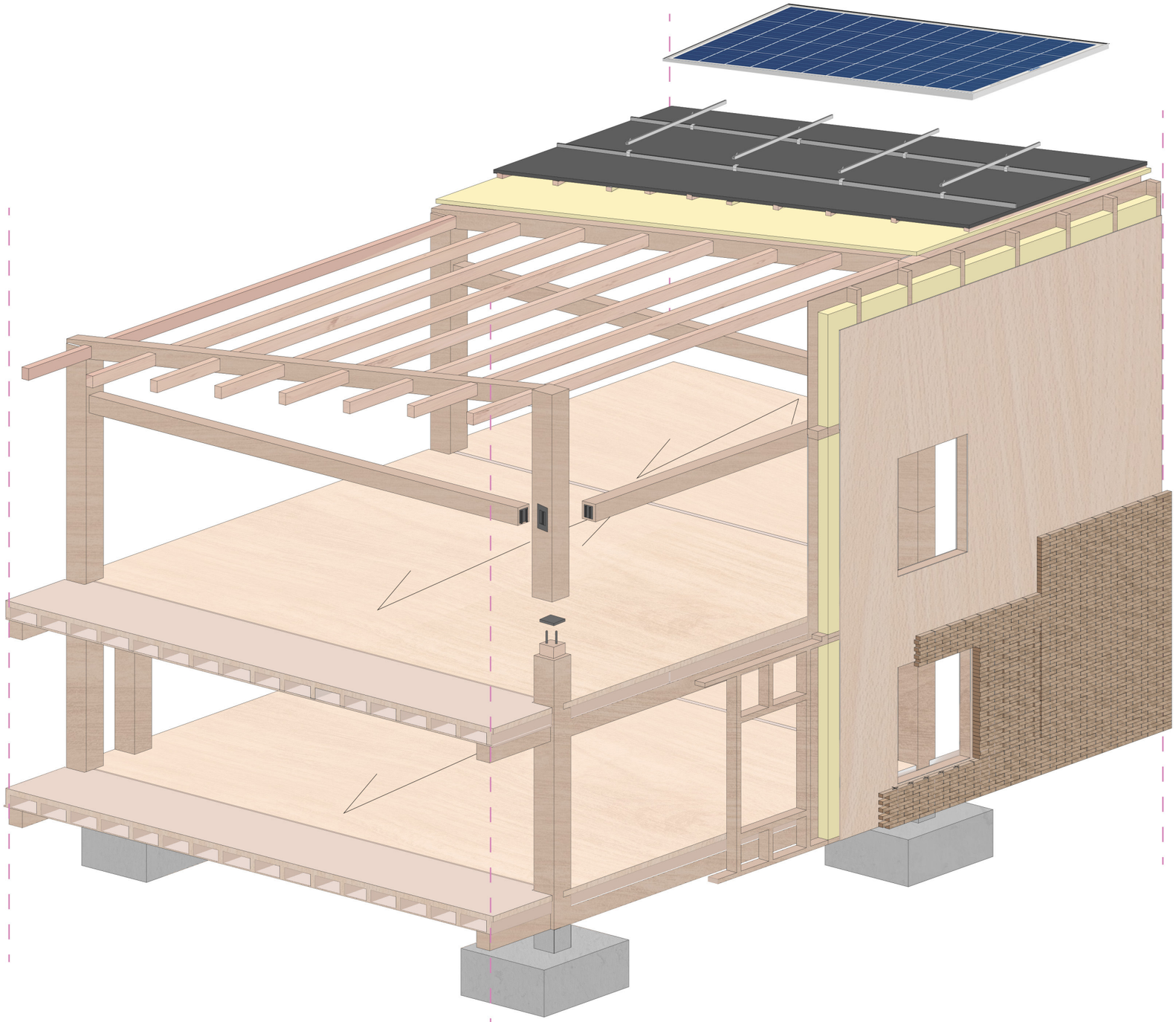


Ventilation Second floor ceiling (1:200)

Building Technology- Ventilation



Ventilation Roof Plan (1:200)

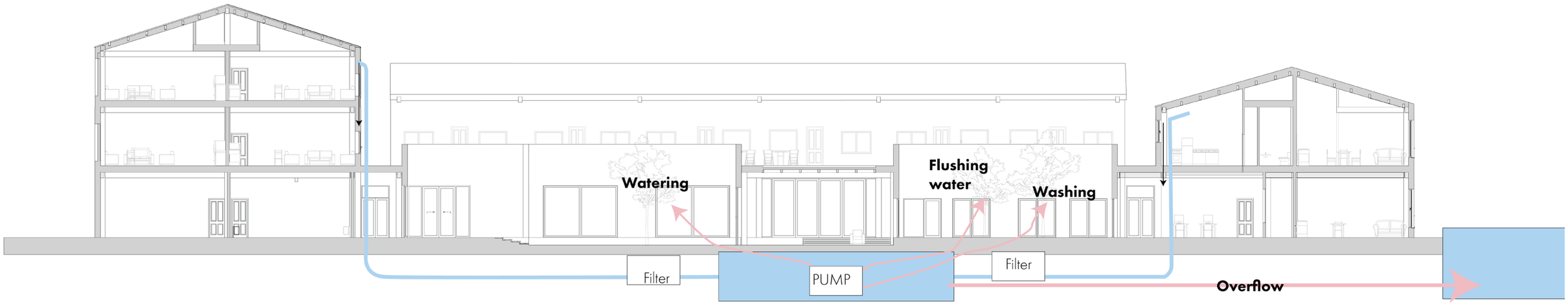


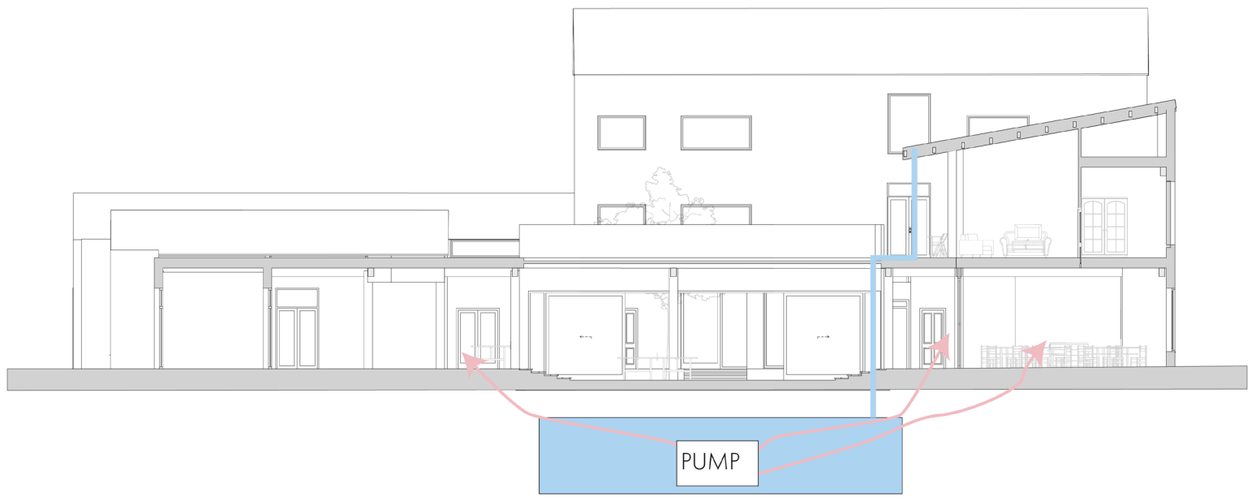
Construction Segment

Energy Diagrams (1:200)

ENERGY

- Underground thermal battery
- PV panels
- Floor heating





Water Management Diagrams (1:200)

WATER MANAGEMENT

- Rainwater Storage
- Reusing for flushing and watering plants
- Surplus water is mixted into the canal

Climate- Ventilation

VENTILATION

- Mechanical ventilation
- Heat recovery system

Ventilation Diagrams (1:200)