

# THE TETRIS HOUSES

LUUK GOOSSEN | 4431847

EXPLORELAB 31

## Residential Unit

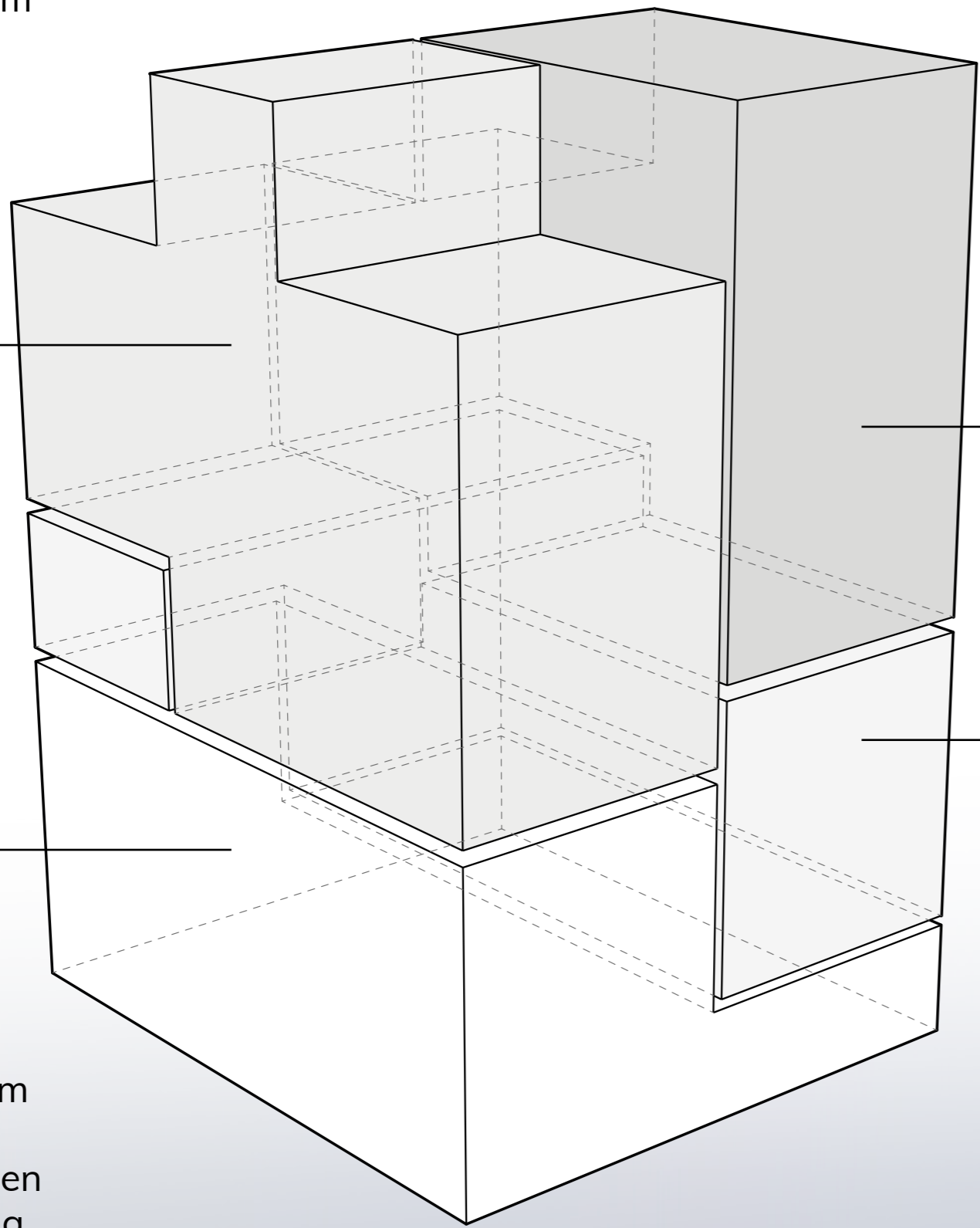
Living Room + Kitchen  
Rooftop Garden  
Kids Play Room  
VR Room  
3 Bedrooms  
2 Bathrooms  
1 Toilet

## Residential Unit

Living Kitchen  
Media Room  
Rooftop Garden  
Kids Play Room  
3 Bedrooms  
1 Guest Room  
2 Bathrooms  
1 Toilet

## Common Space

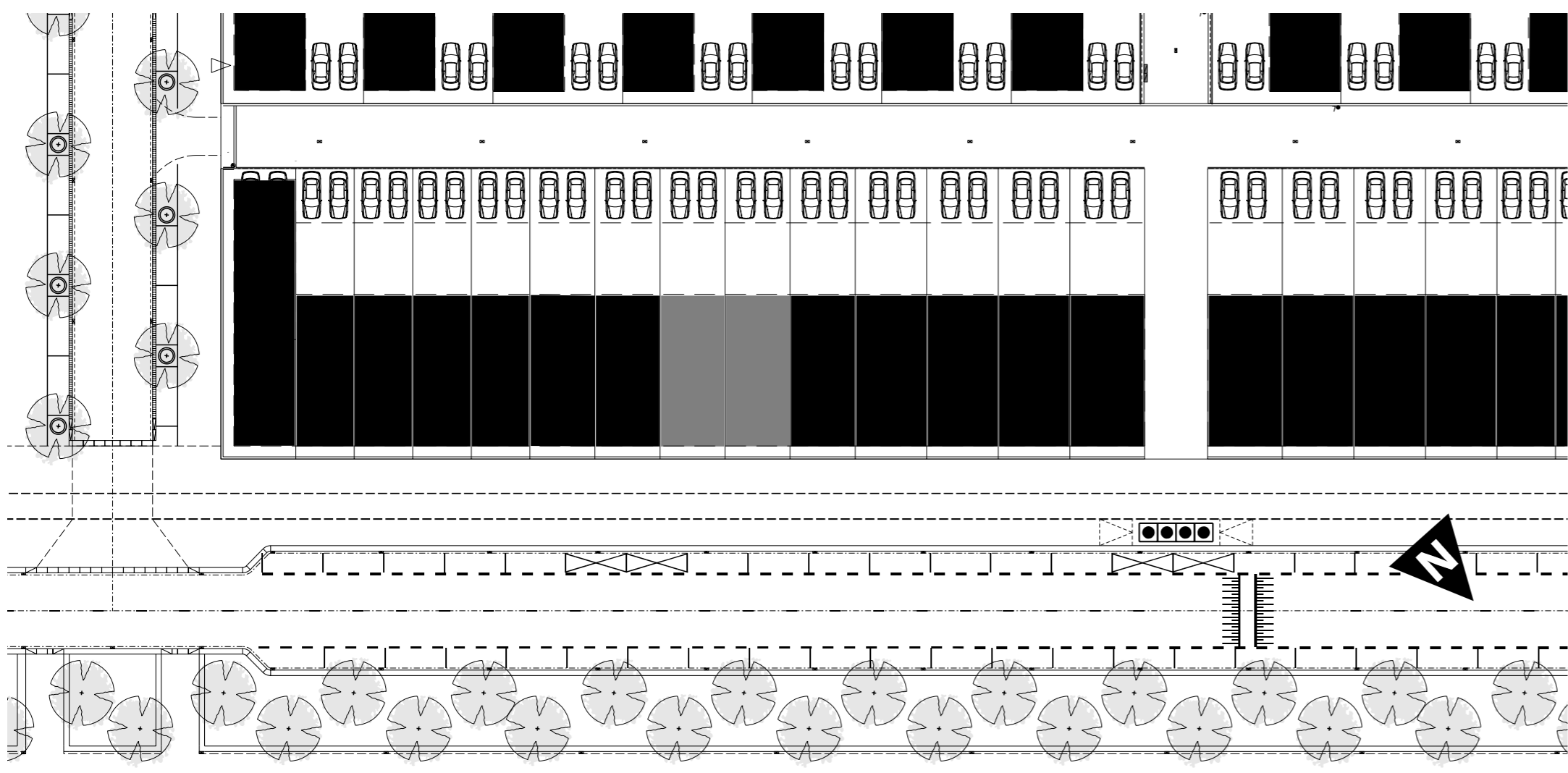
Common Room  
Home Office  
Outdoor Kitchen  
Bicycle Parking  
Workshop  
Laundry  
Toilet  
Storage  
Technical Room



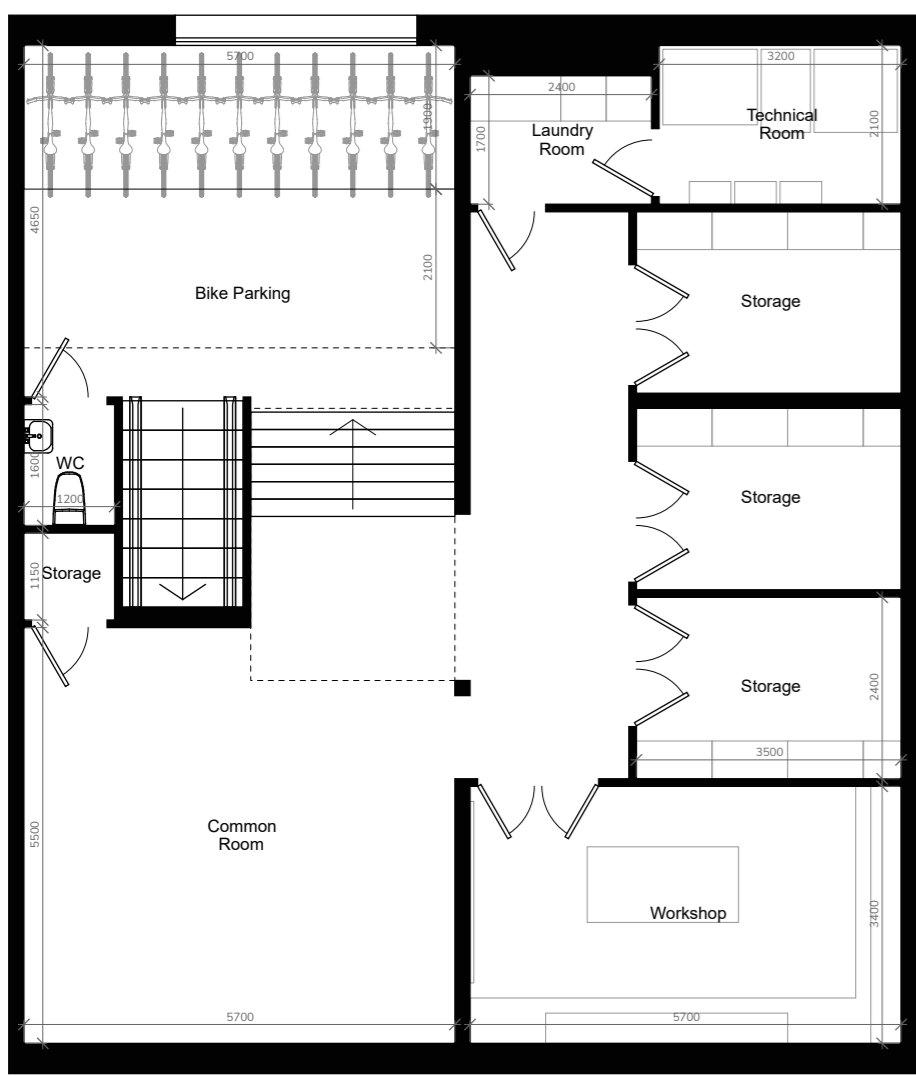
## Residential Unit

Living Room + Kitchen  
Home Office  
Gym  
2 Bedrooms  
1 Guest Room  
2 Bathrooms  
1 Toilet

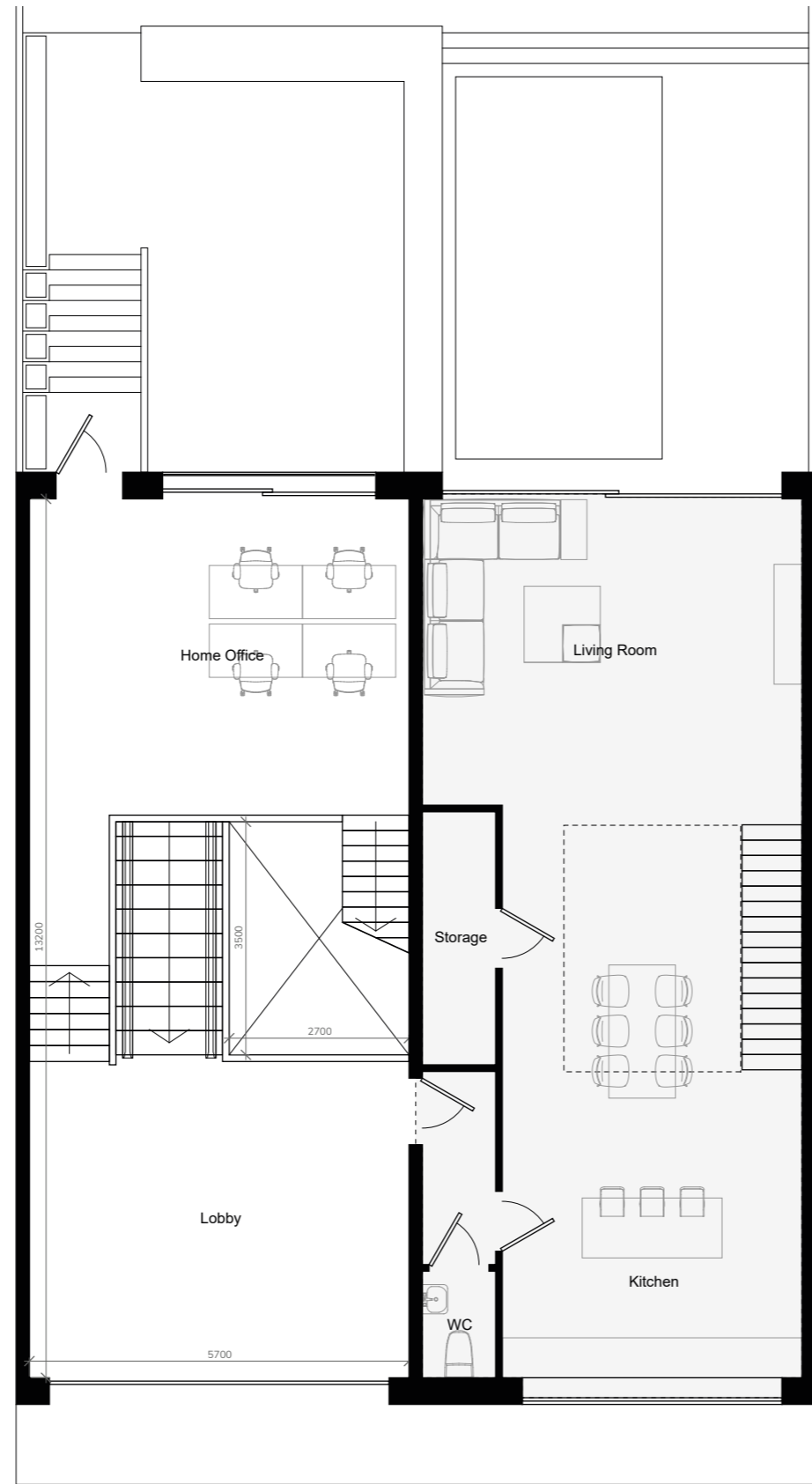




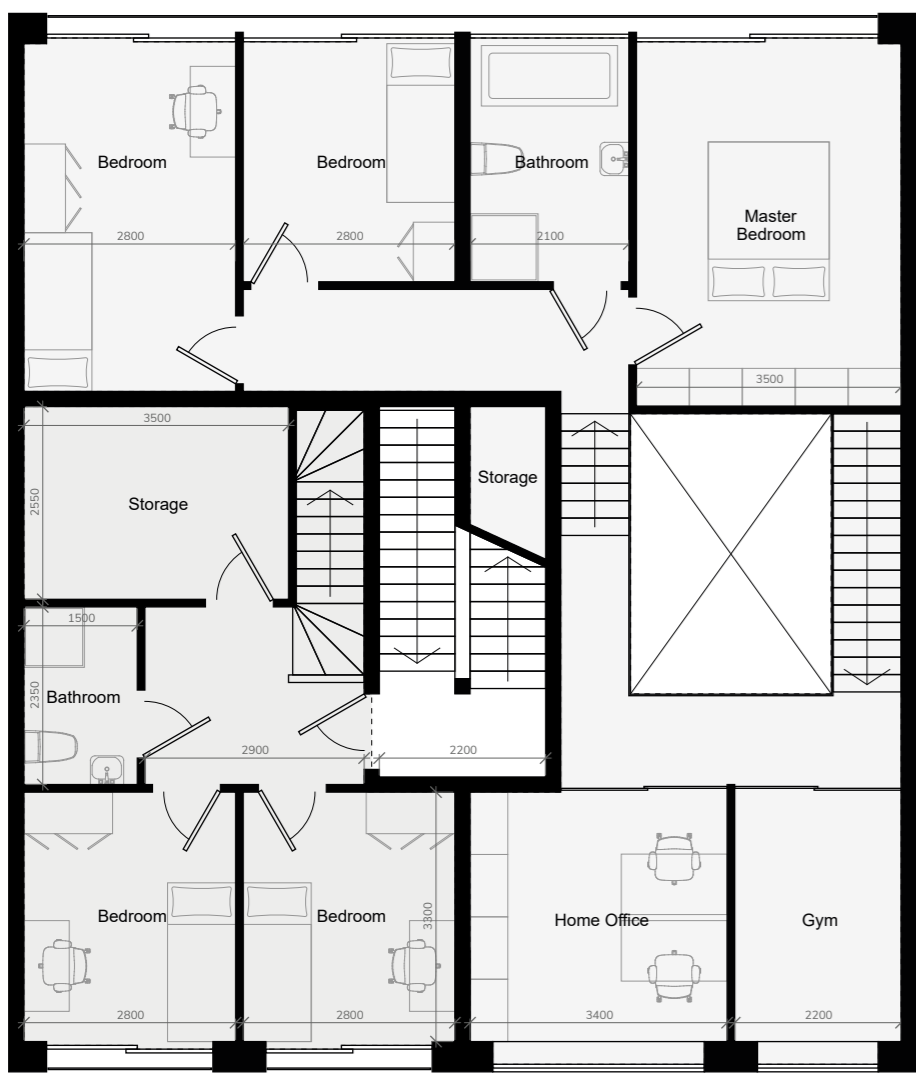
LOCATION (1:500)



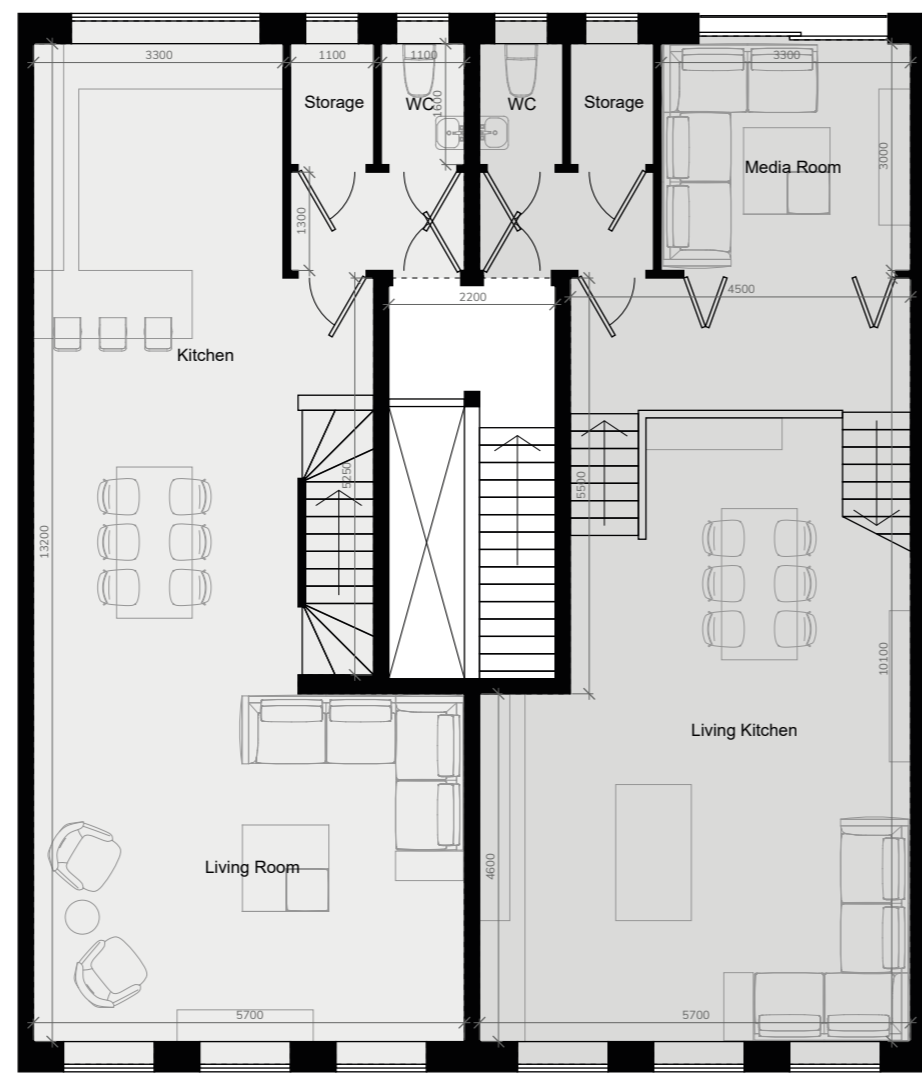
BASEMENT (1:100)



GROUND FLOOR (1:100)



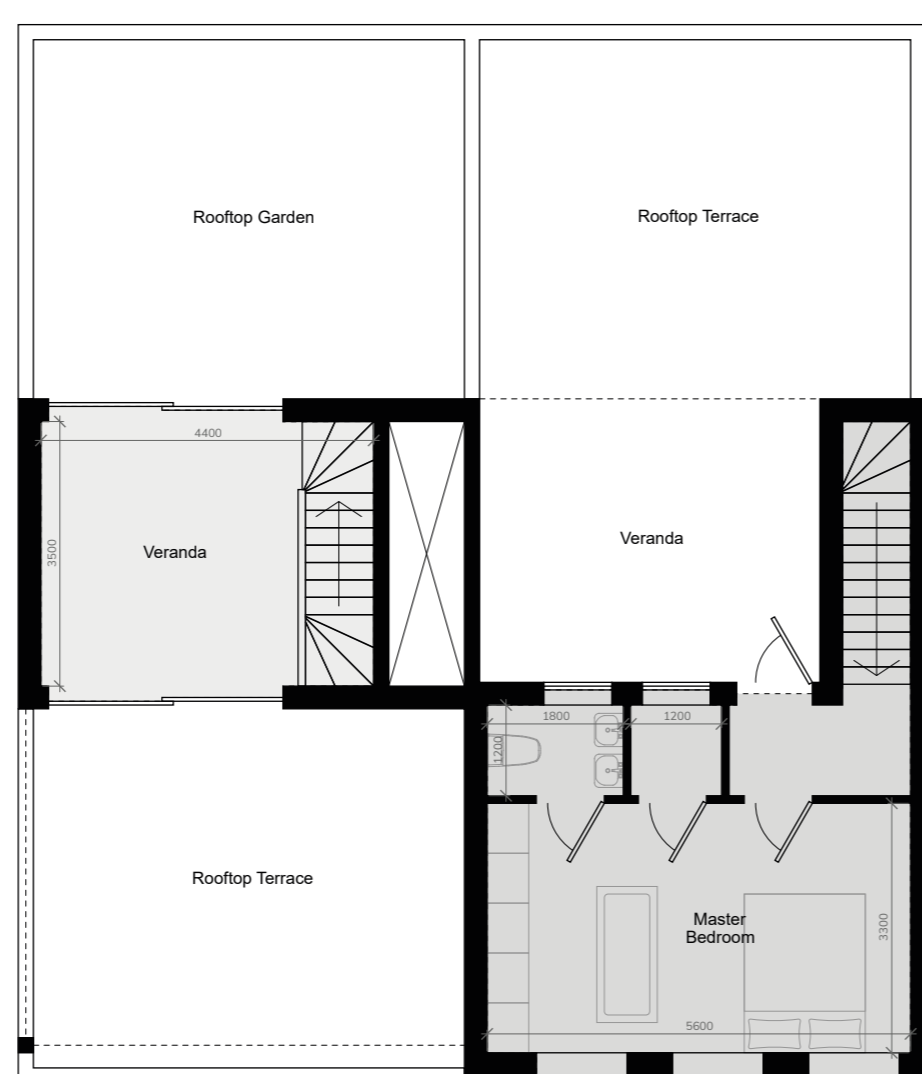
FIRST FLOOR (1:100)



SECOND FLOOR (1:100)



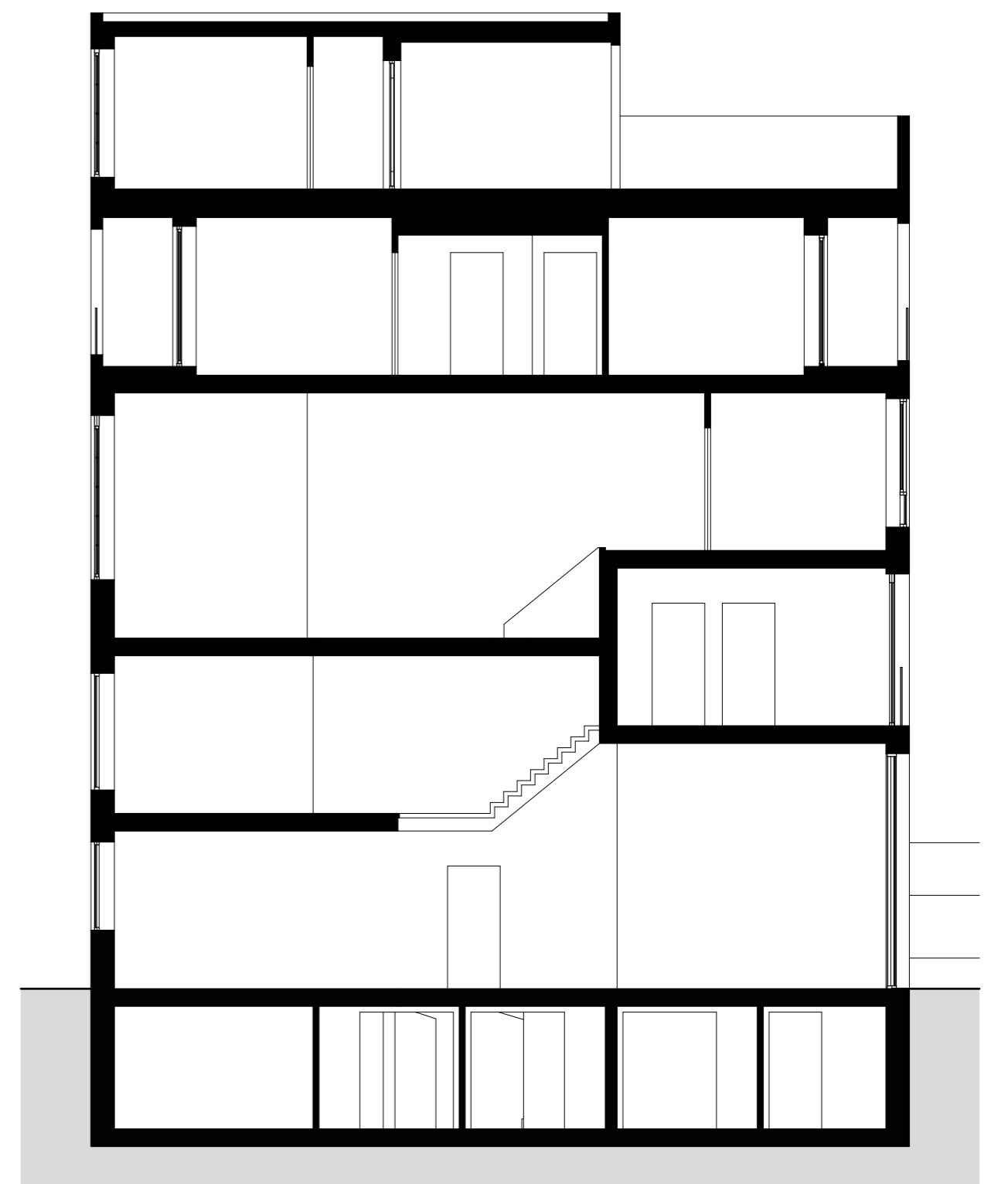
THIRD FLOOR (1:100)



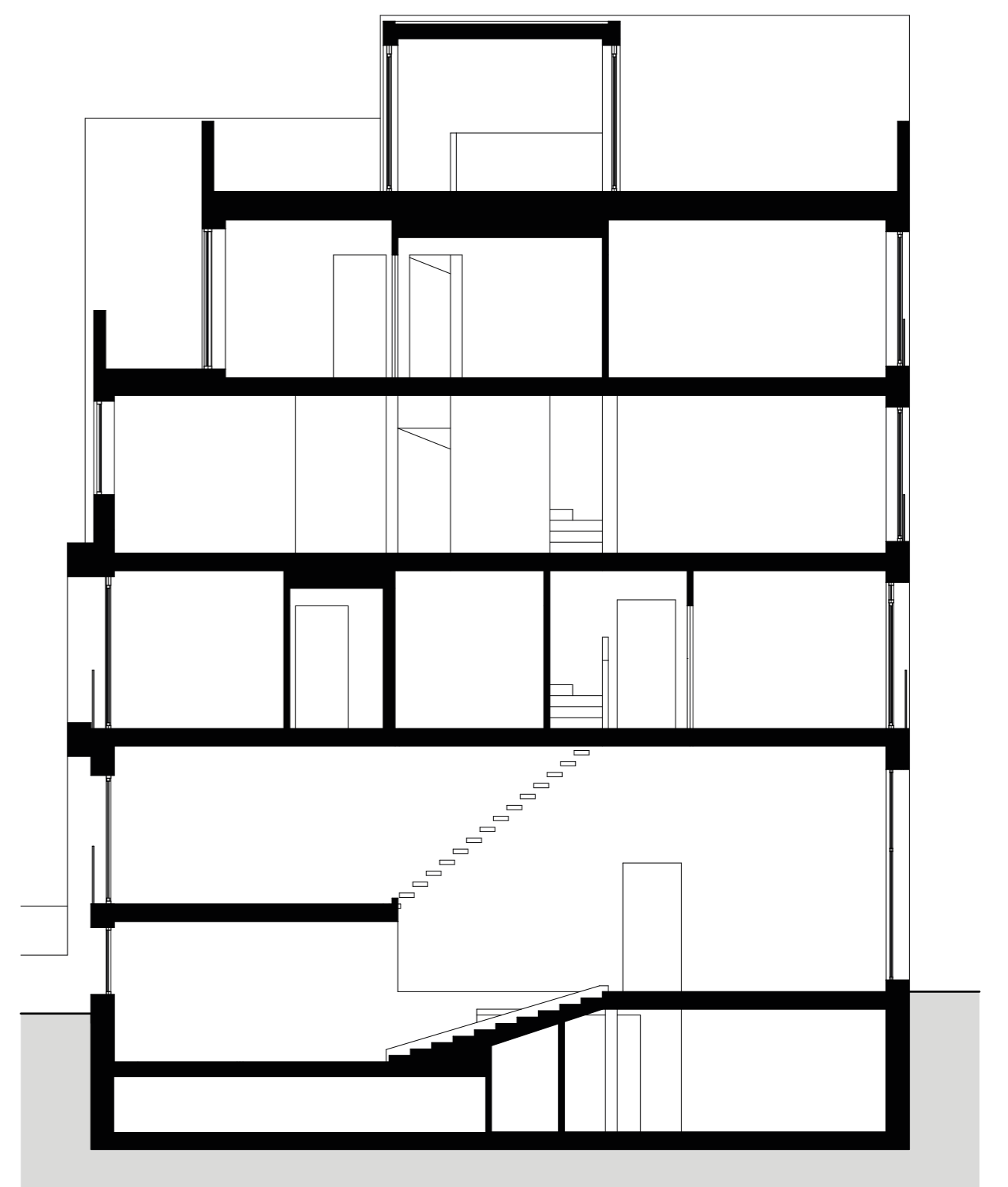
FOURTH FLOOR (1:100)



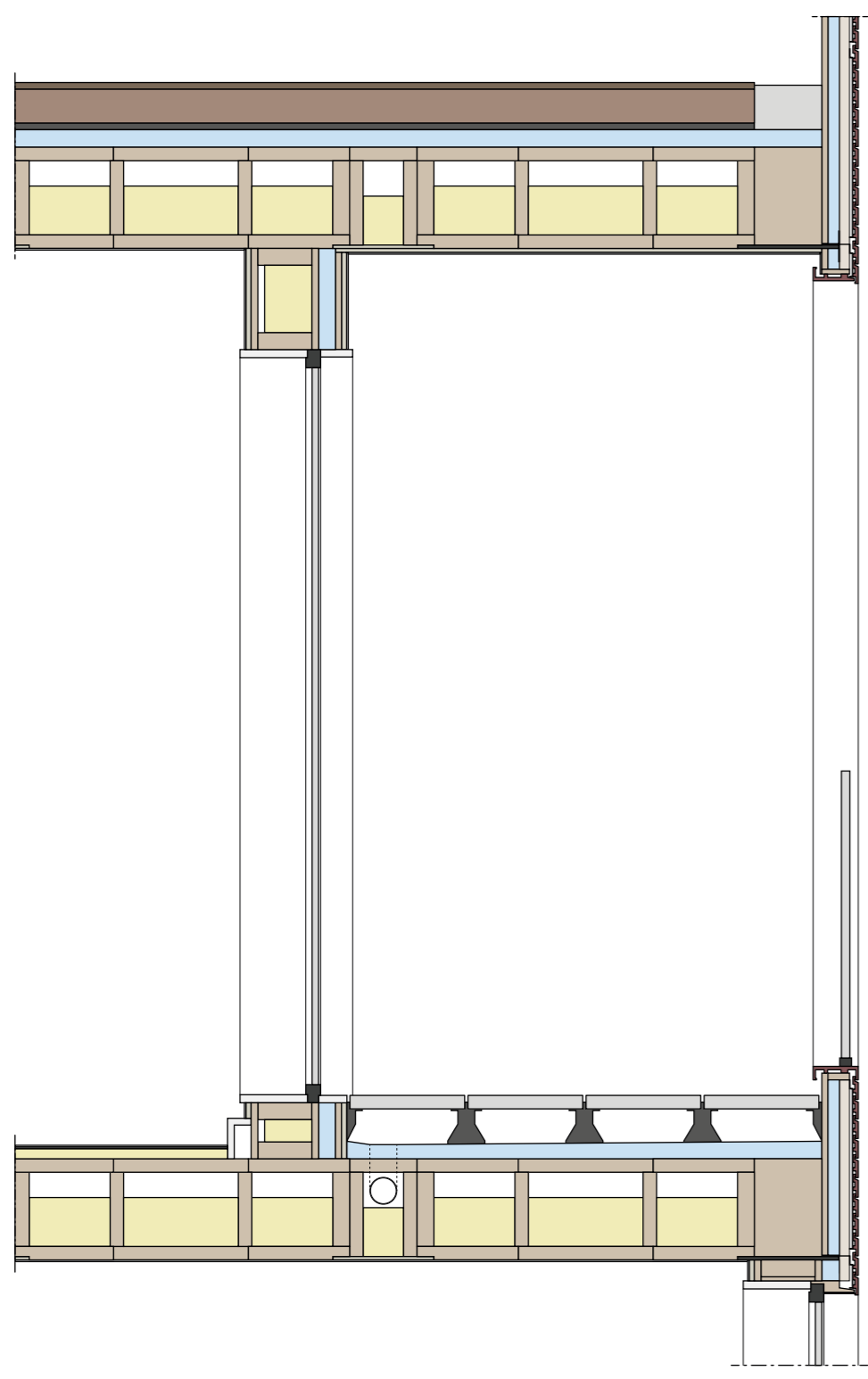
SECTION CC' (1:100)



SECTION BB' (1:100)



SECTION AA' (1:100)



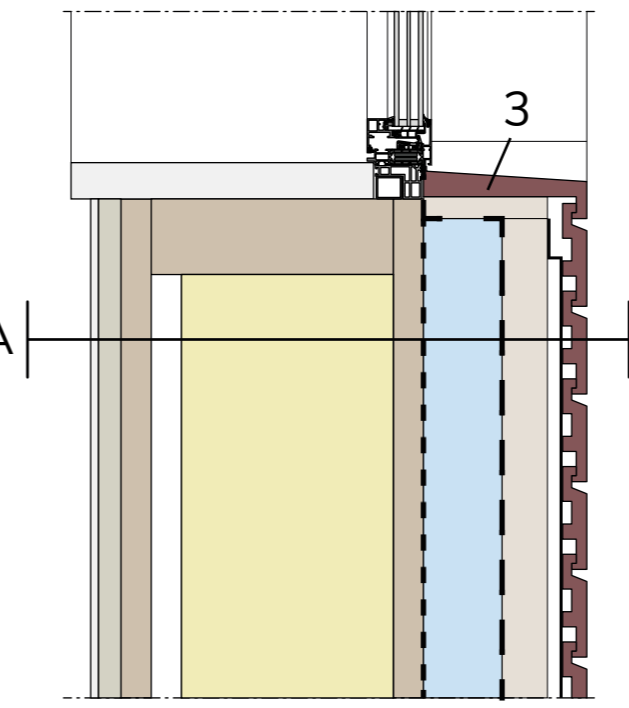
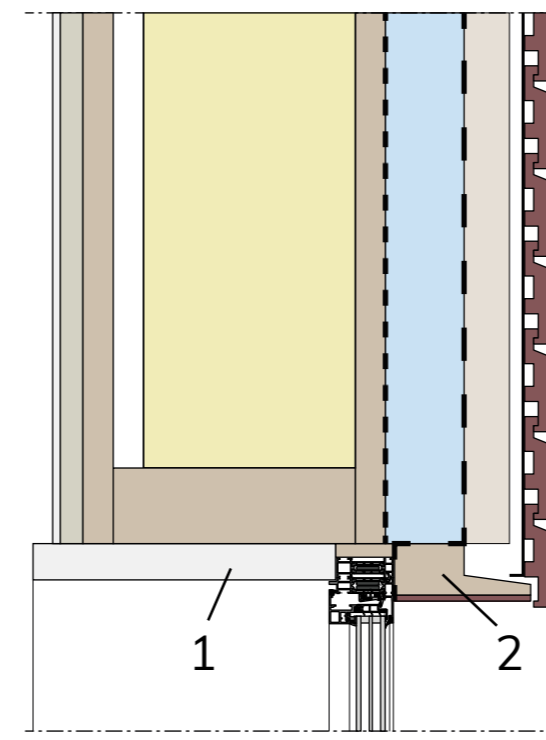
LOGGIA DETAIL (1:20)

<b>A</b> Paint Finish	5 mm
Gypsum Board	12 mm
Wood	18 mm
Air Gap	20 mm
Soft Glass Wool	144 mm
Wood	18 mm
Damp Protection	--
Hard Glass Wool	52 mm
Water Protection	--
Wooden Studs	30 mm
Air Gap	8 mm
Metal Frame	2 mm
A-Brick Finish	16 mm

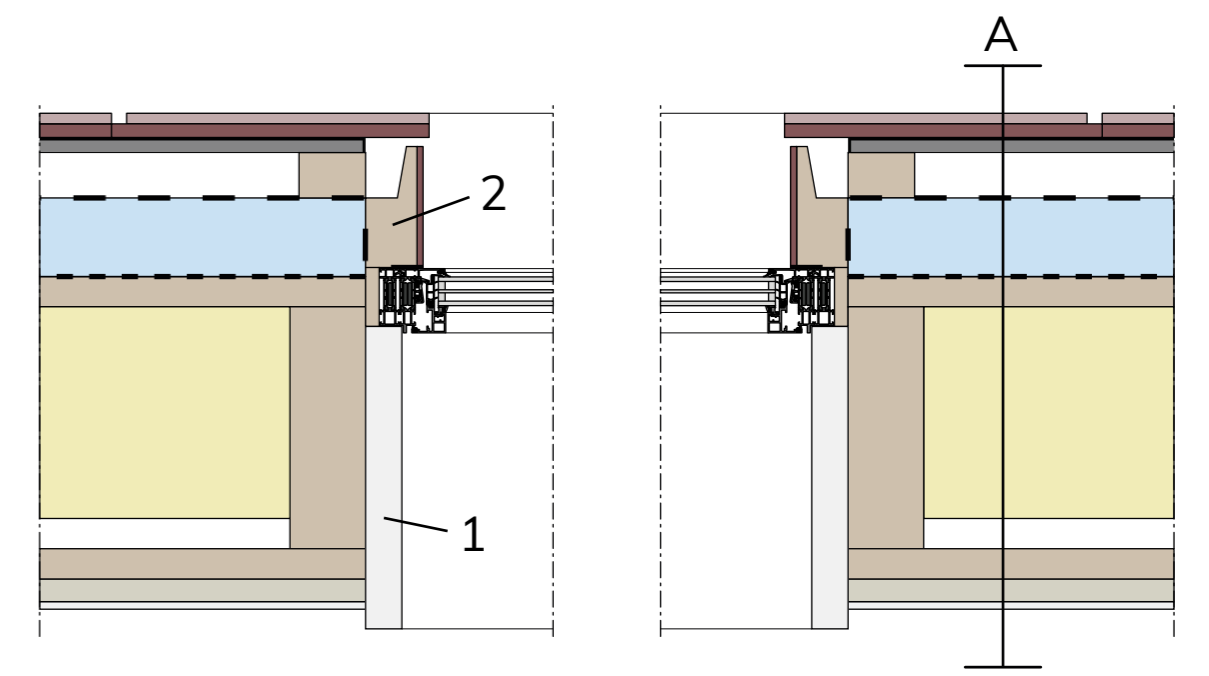
<b>B</b> Flooring Finish	5 mm
Underfloor Layer	5 mm
Hard Glass Wool	30 mm
with Underfloor Heating	
Wood	40 mm
Air Gap	75 mm
Soft Glass Wool	145 mm
Wood	40 mm
Stucco Finish	5 mm

<b>C</b> Sedum	--
Substrate	60 mm
Water Retention	60 mm
Drainage	18 mm
Slip Layer	--
Water Protection	--
Hard Glass Wool	52 mm
Damp Protection	--
Wood	40 mm
Air Gap	75 mm
Soft Glass Wool	145 mm
Wood	40 mm
Stucco Finish	5 mm

<b>D</b> Paint Finish	5 mm
Gypsum Board	12 mm
In-Situ Concrete	200 mm
Damp Protection	--
XPS Insulation	80 mm
Soil	--

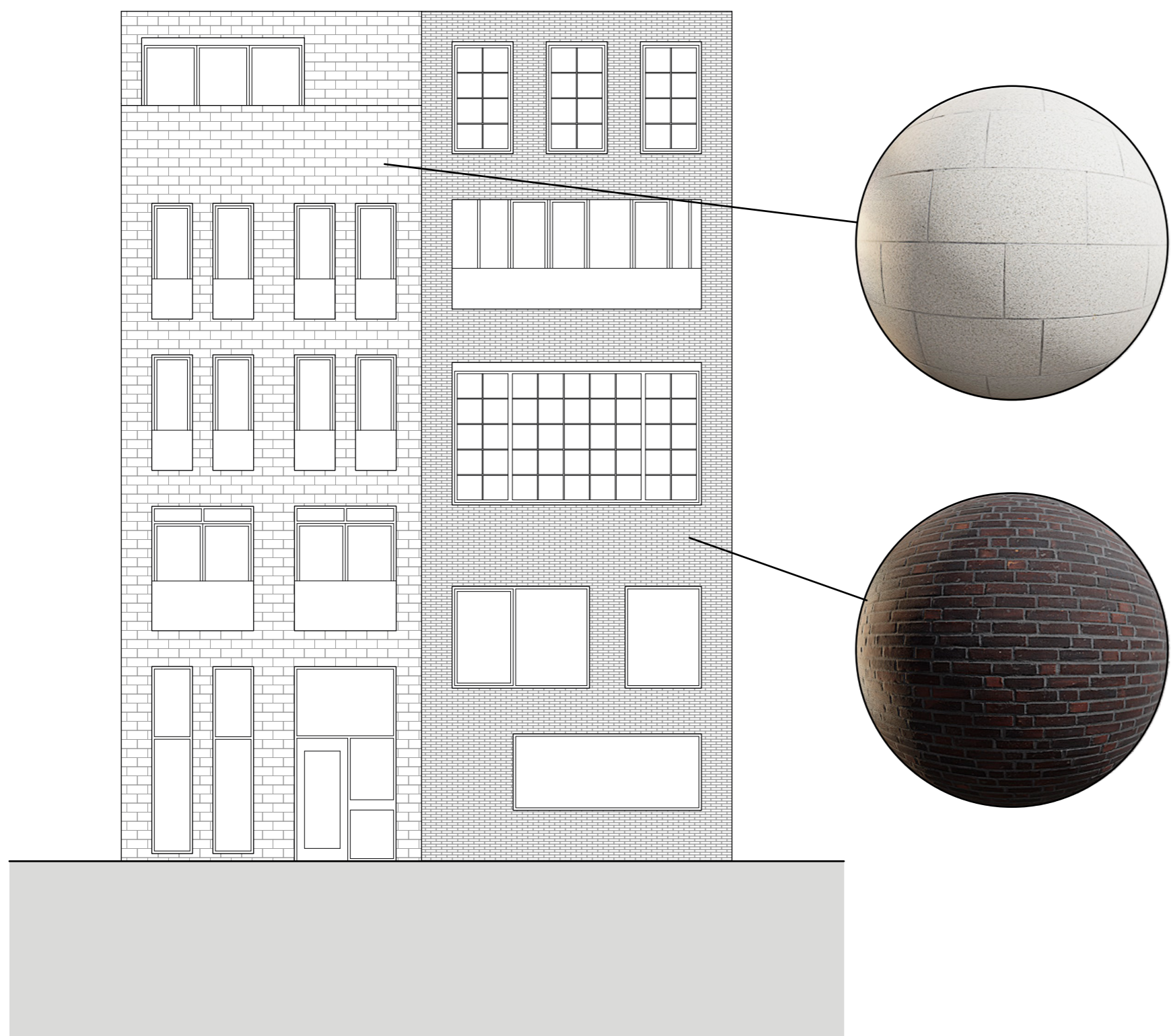


VERTICAL WINDOW DETAIL (1:5)

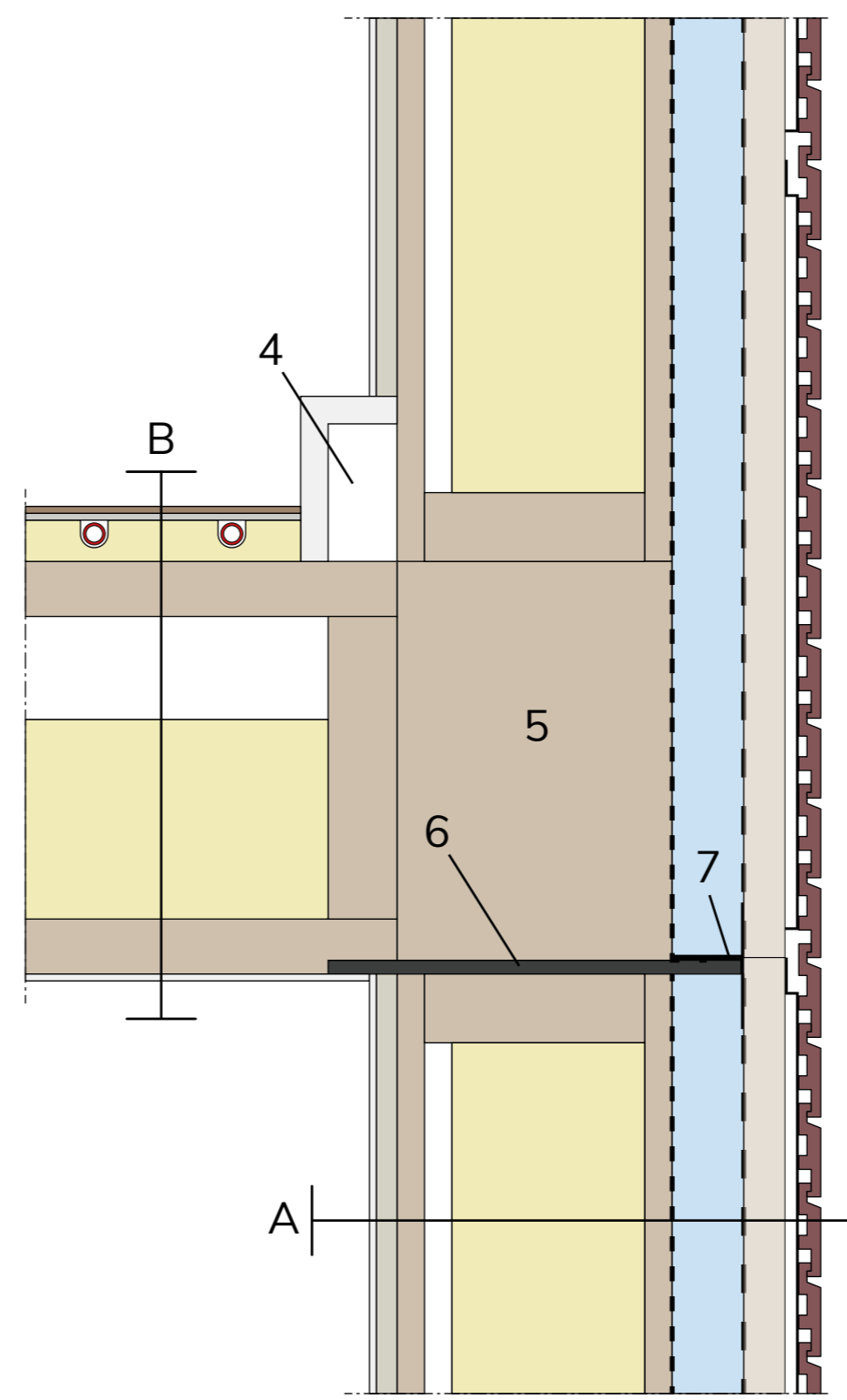


HORIZONTAL WINDOW DETAIL (1:5)

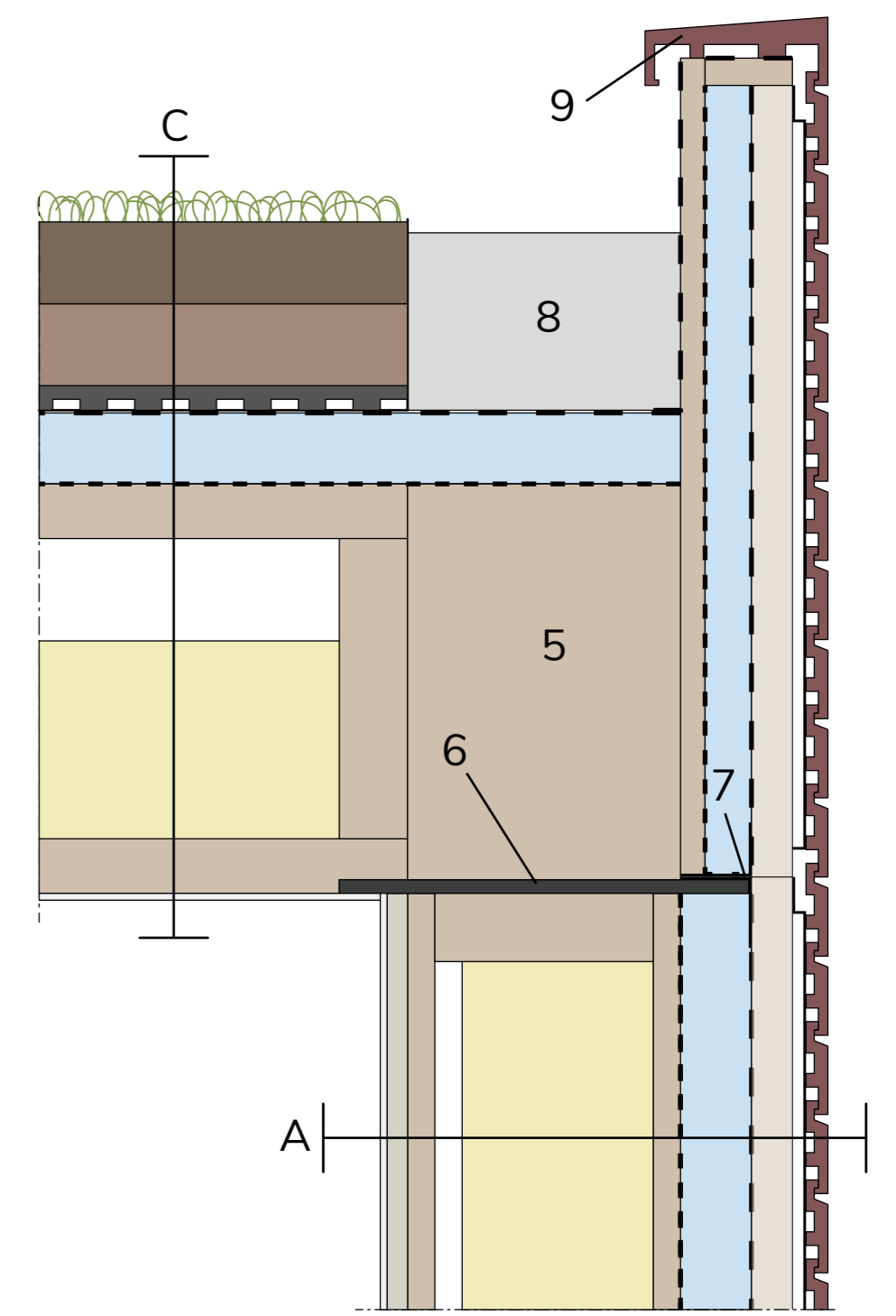
- 1 Interior Window Sill
- 2 Side Exterior Window Sill
- 3 Bottom Exterior Window Sill
- 4 Systems Channel
- 5 Structural Beam
- 6 Floor and Facade Connector
- 7 Facade Panel L-Brackets
- 8 Gravel Border
- 9 Facade Cap Element
- 10 In Situ Concrete Basement
- 11 Foundation Pile
- 12 Neighbouring Building
- 13 Toeboard



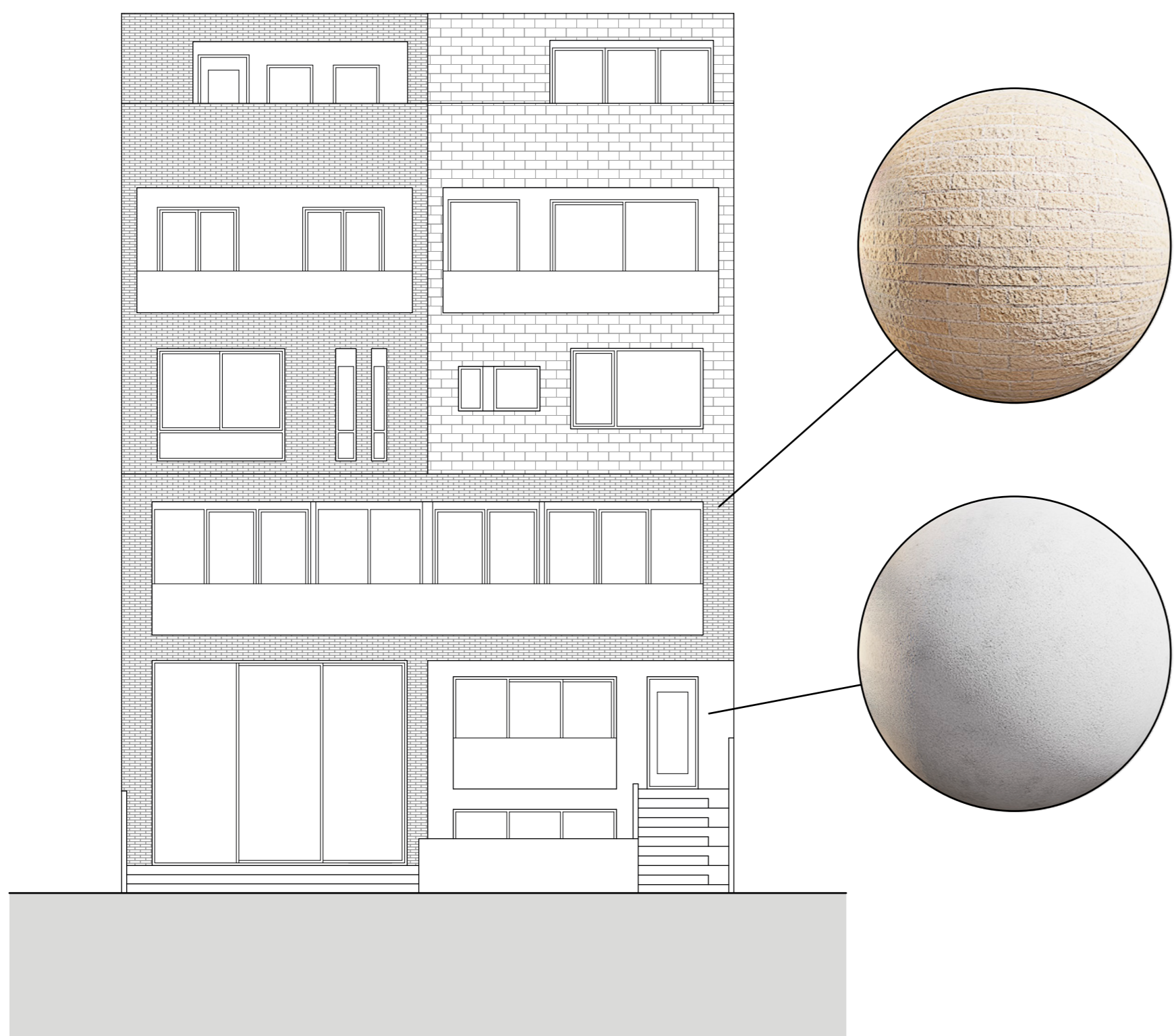
FRONT ELEVATION (1:100)



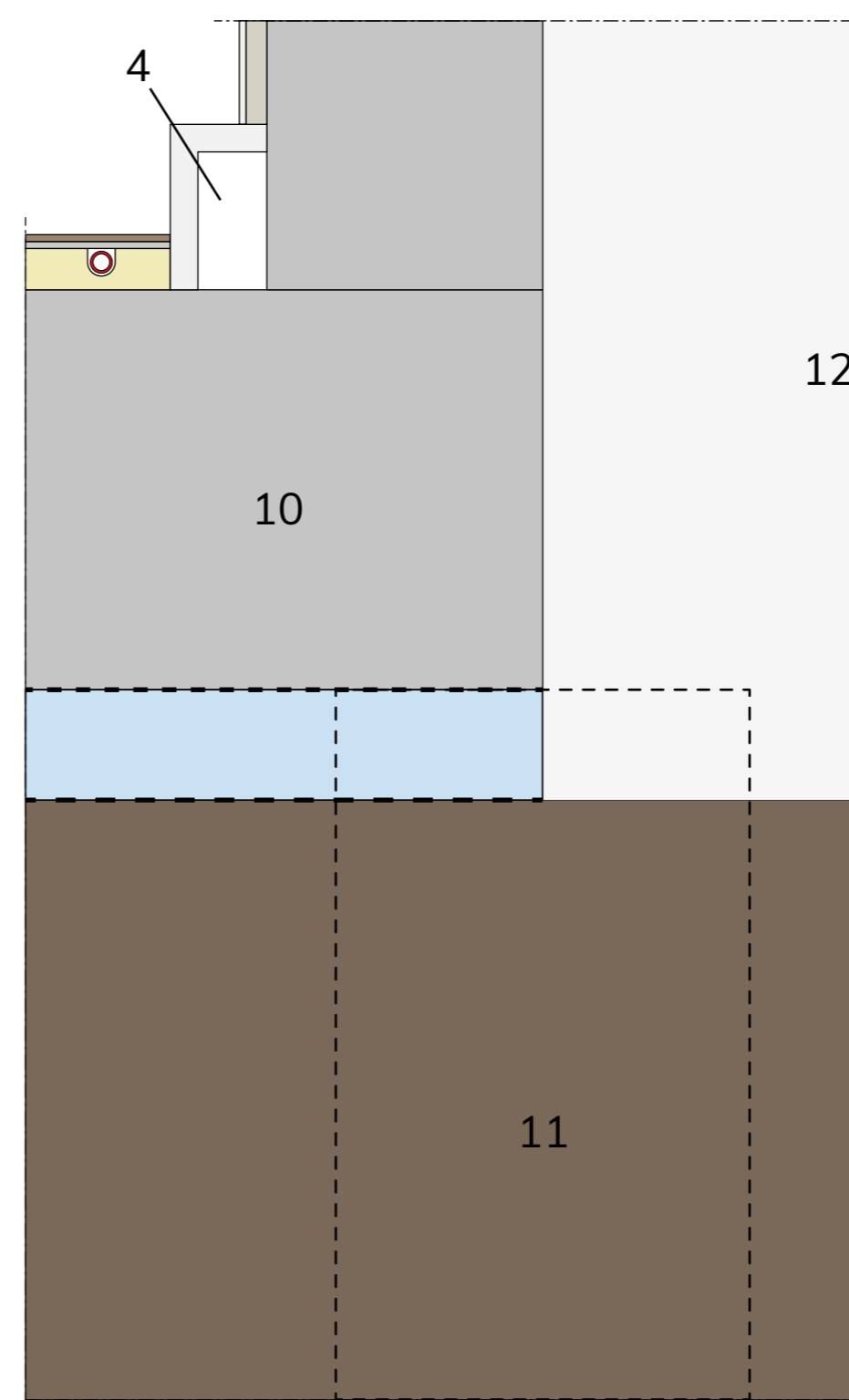
FLOOR DETAIL (1:5)



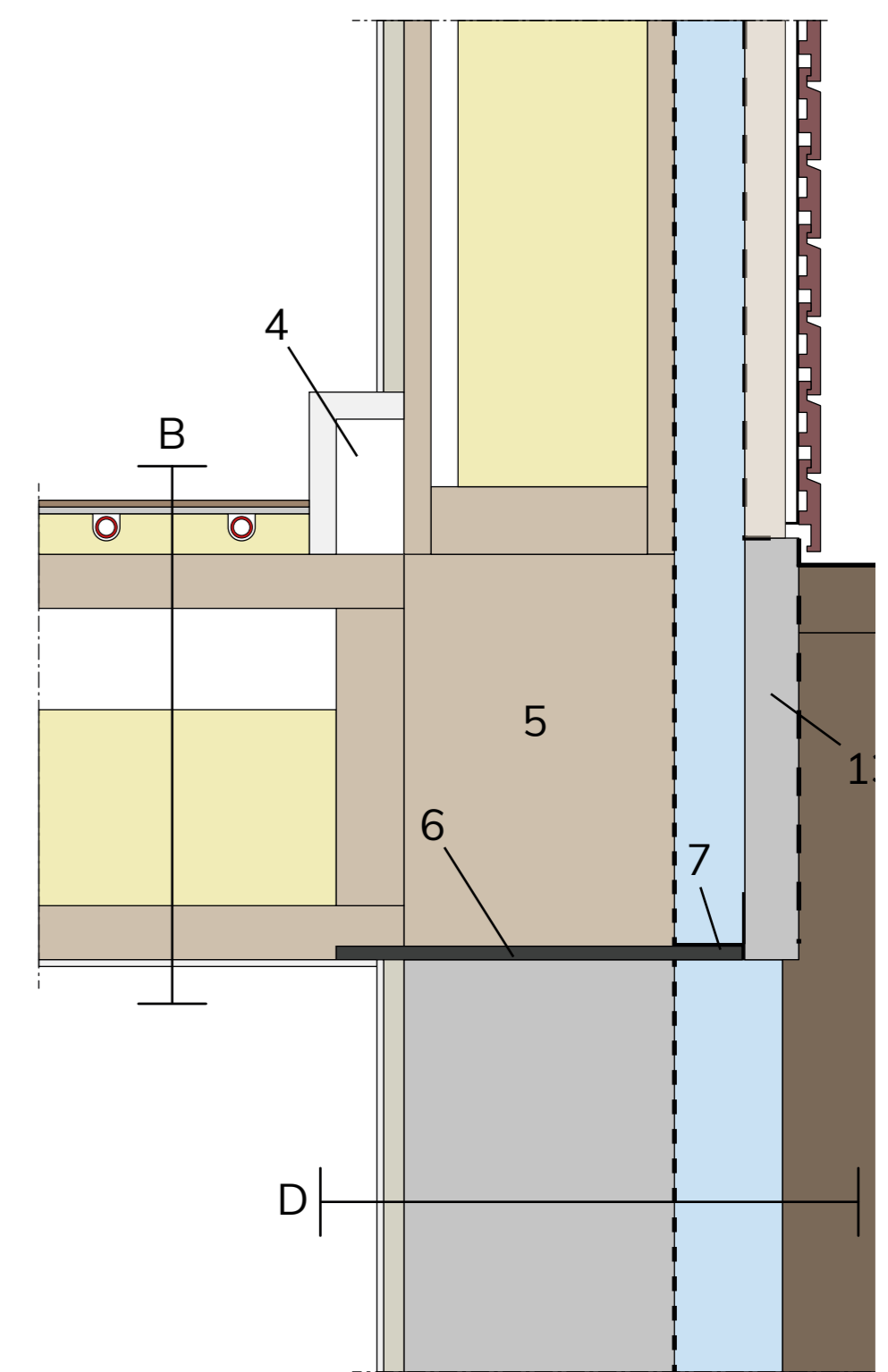
ROOF DETAIL (1:5)



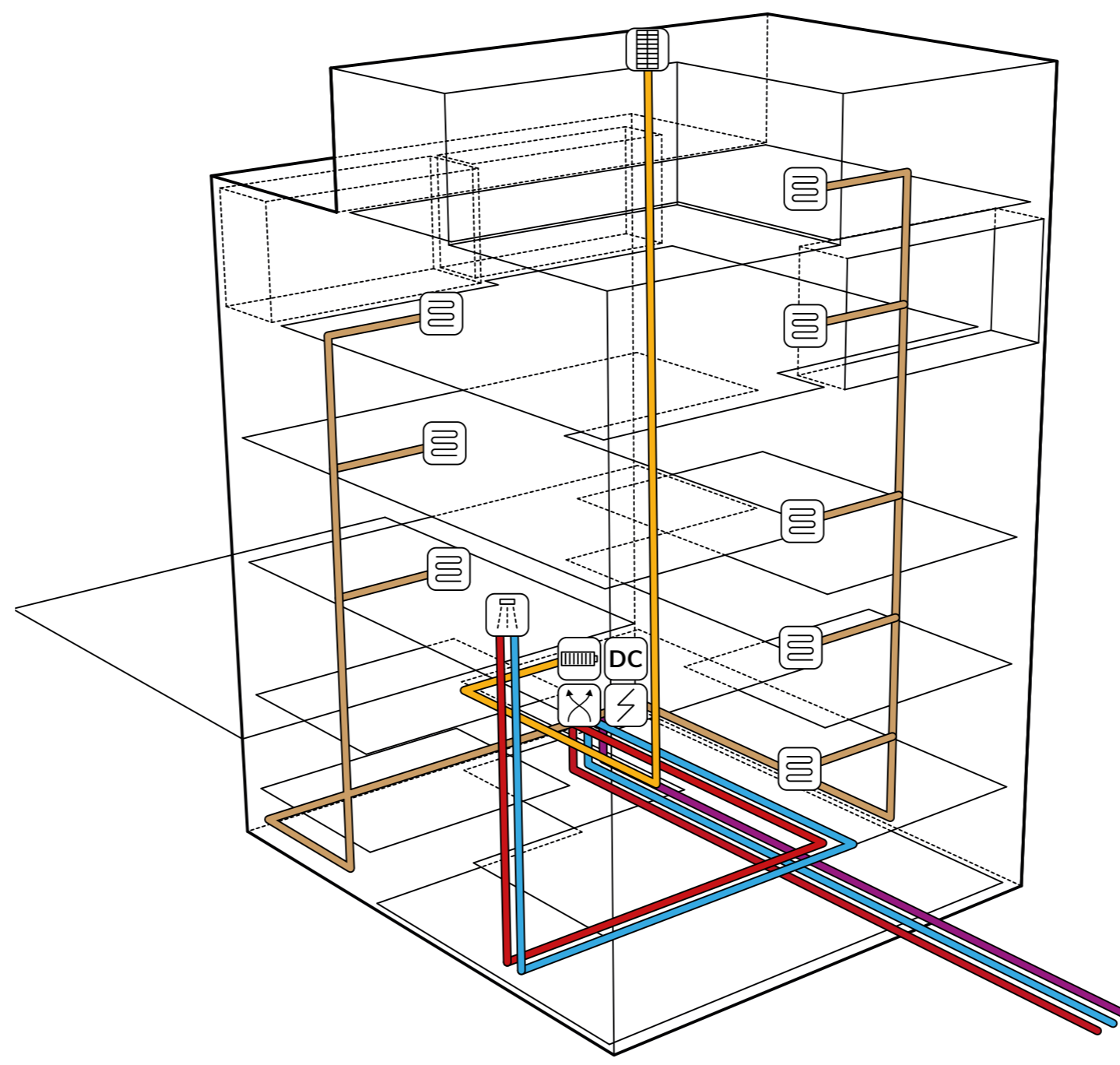
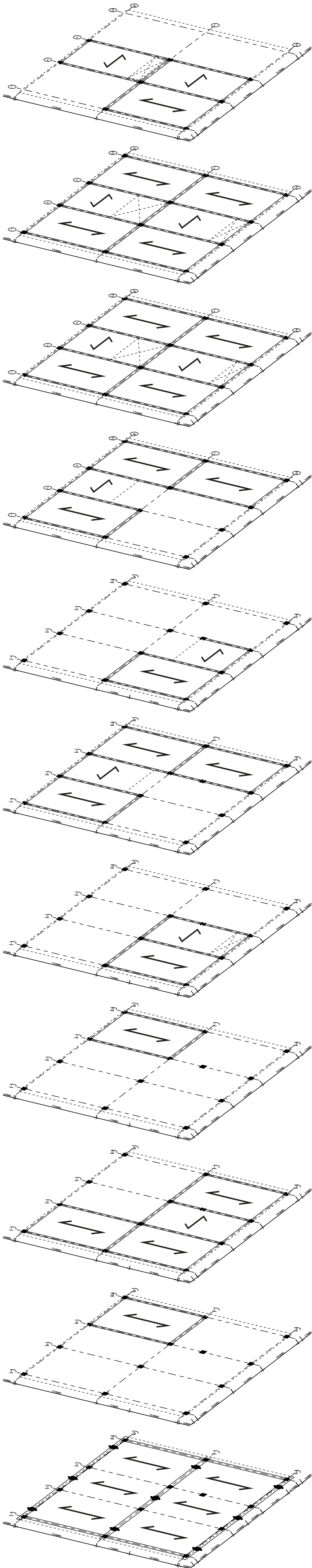
BACK ELEVATION (1:100)



FOUNDATION DETAIL (1:5)

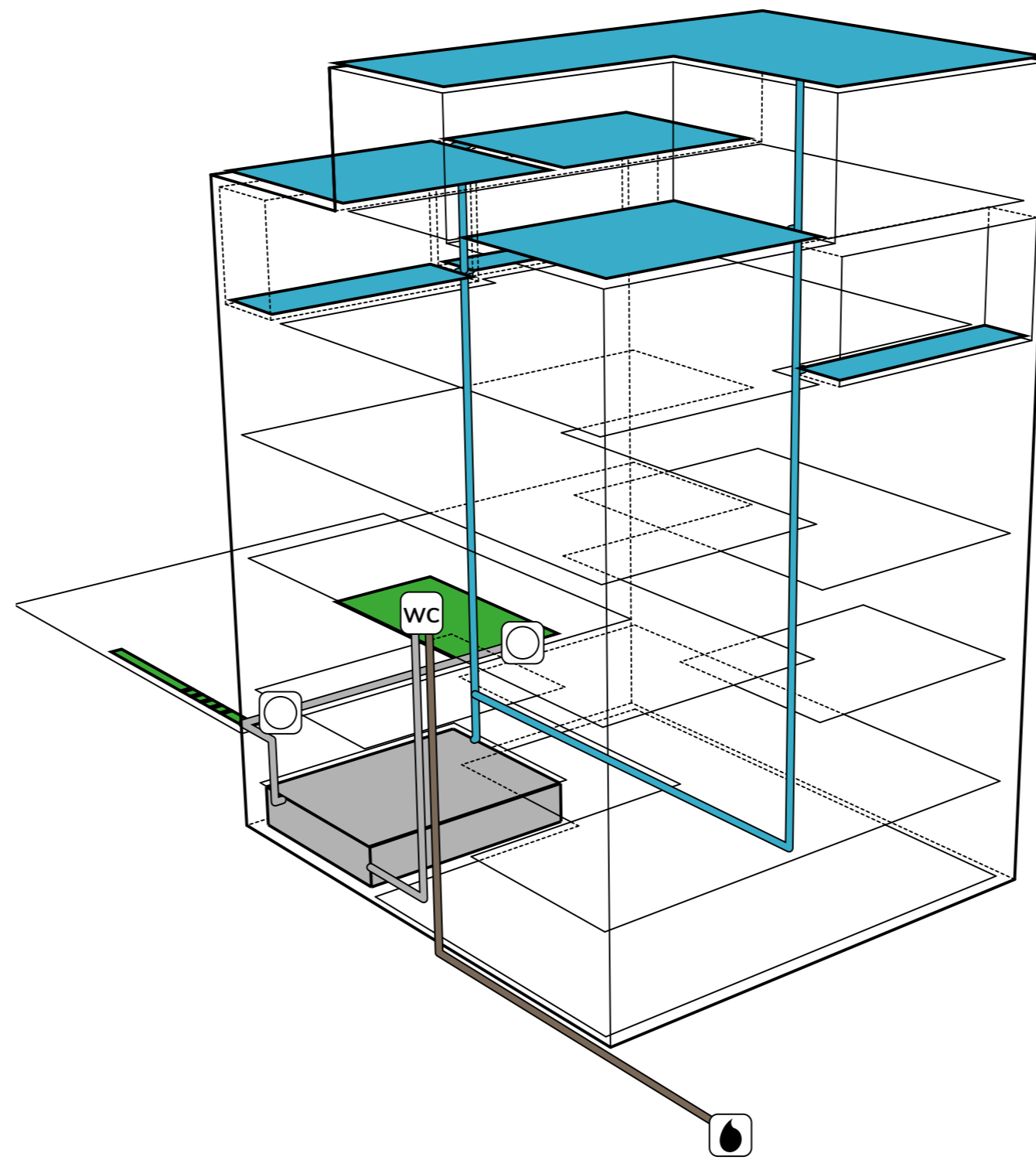


GROUND DETAIL (1:5)



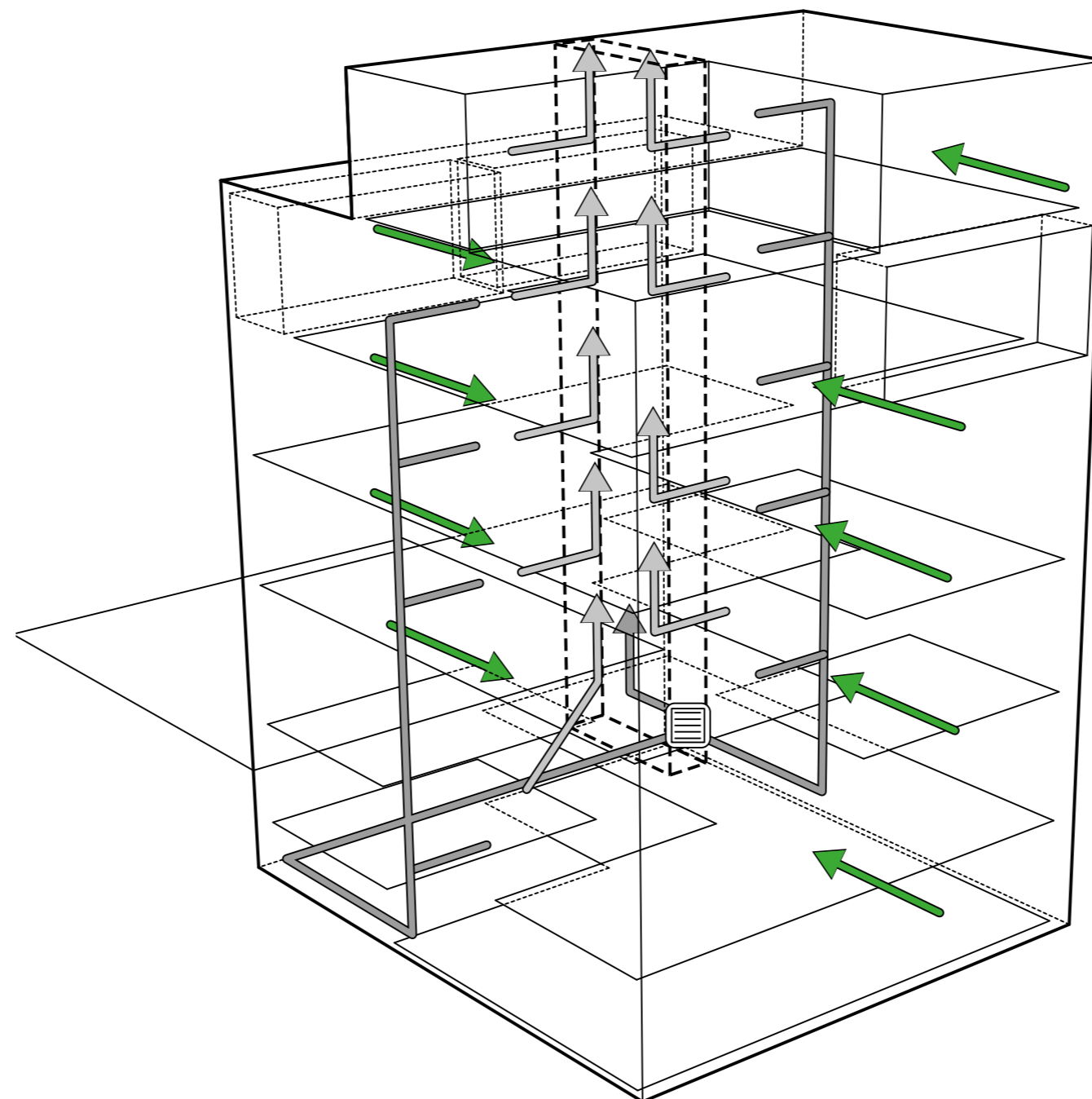
- PV Panels
- Battery
- AC/DC Converter
- Power Grid Connection
- Heat Exchanger
- Underfloor Heating
- Cold Water
- Warm Water
- District Heating Retour
- Underfloor Heating Loop

CLIMATE DIAGRAM POWER AND HEAT



- Sewage
- Toilets
- Rain Water Tap
- Rain Water Source
- Grey Water Target
- Grey Water Storage
- Drainage Pipe
- Grey Water Pipe
- Sewage Pipe

CLIMATE DIAGRAM WATER



- Mechanical Ventilation
- Passive Ventilation Shaft
- Natural Ventilation Intake
- Natural Ventilation Exhaust
- Mechanical Ventilation Exhaust

CLIMATE DIAGRAM VENTILATION

STRUCTURAL AXONOMETRY