

THIRD PLACE

Folding and Unfolding Third Place in a High-rise

Drawing set

Sarvin Sarabi Daryani | 5325048

THIRD PLACE

Folding and Unfolding Third Place in a High-rise

Delft University of Technology
Faculty of Architecture and the Built Environment
Graduation Studio
AR3AD100 Advanced Housing Design
Academic Year: 2021-2022

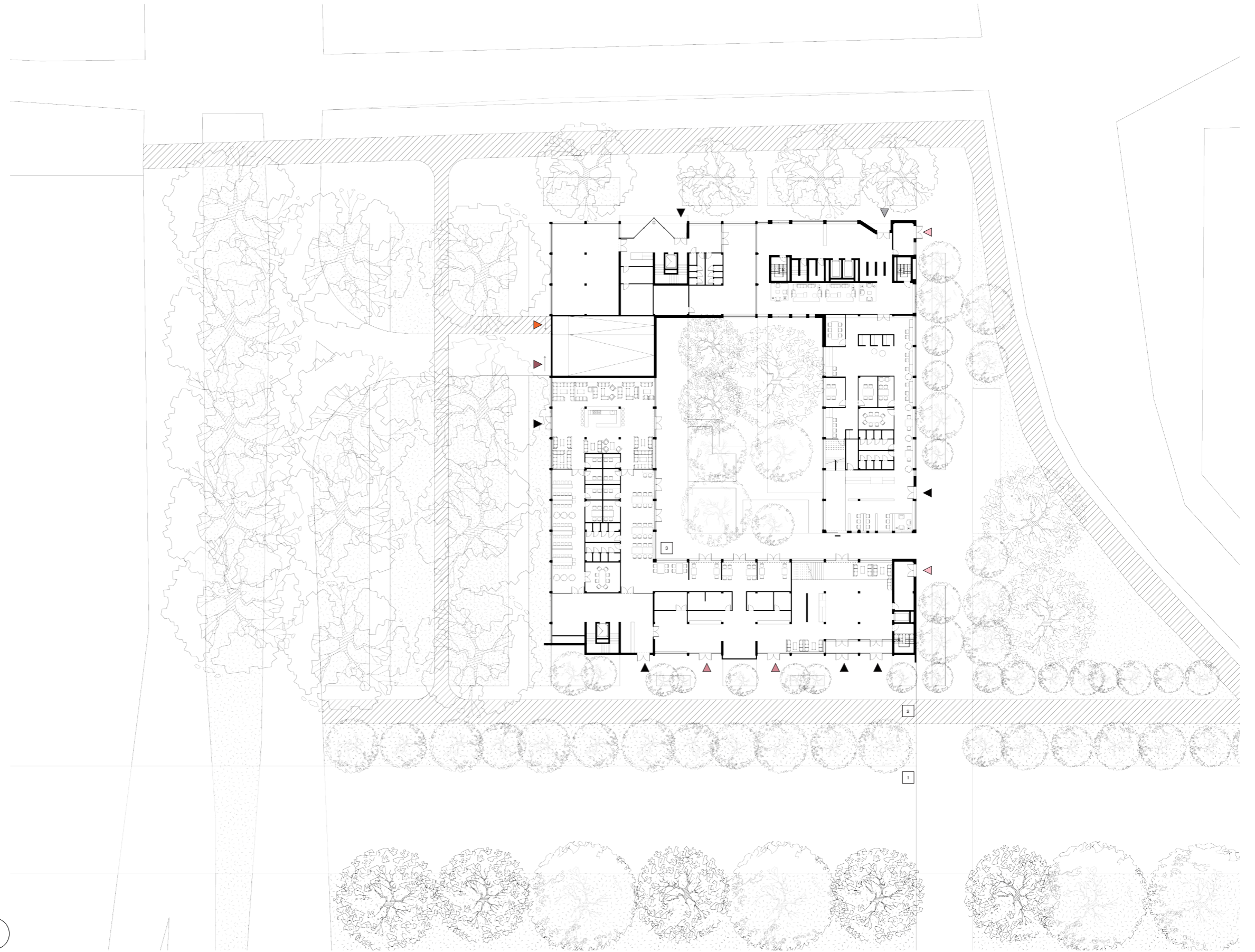
Research Mentor:
Anne Kockelkorn
Design Mentors:
Olv Klijn
Ferry Adema

All graphics are produced and owned by the author unless stated otherwise.
TU Delft
BK Bouwkunde

Site

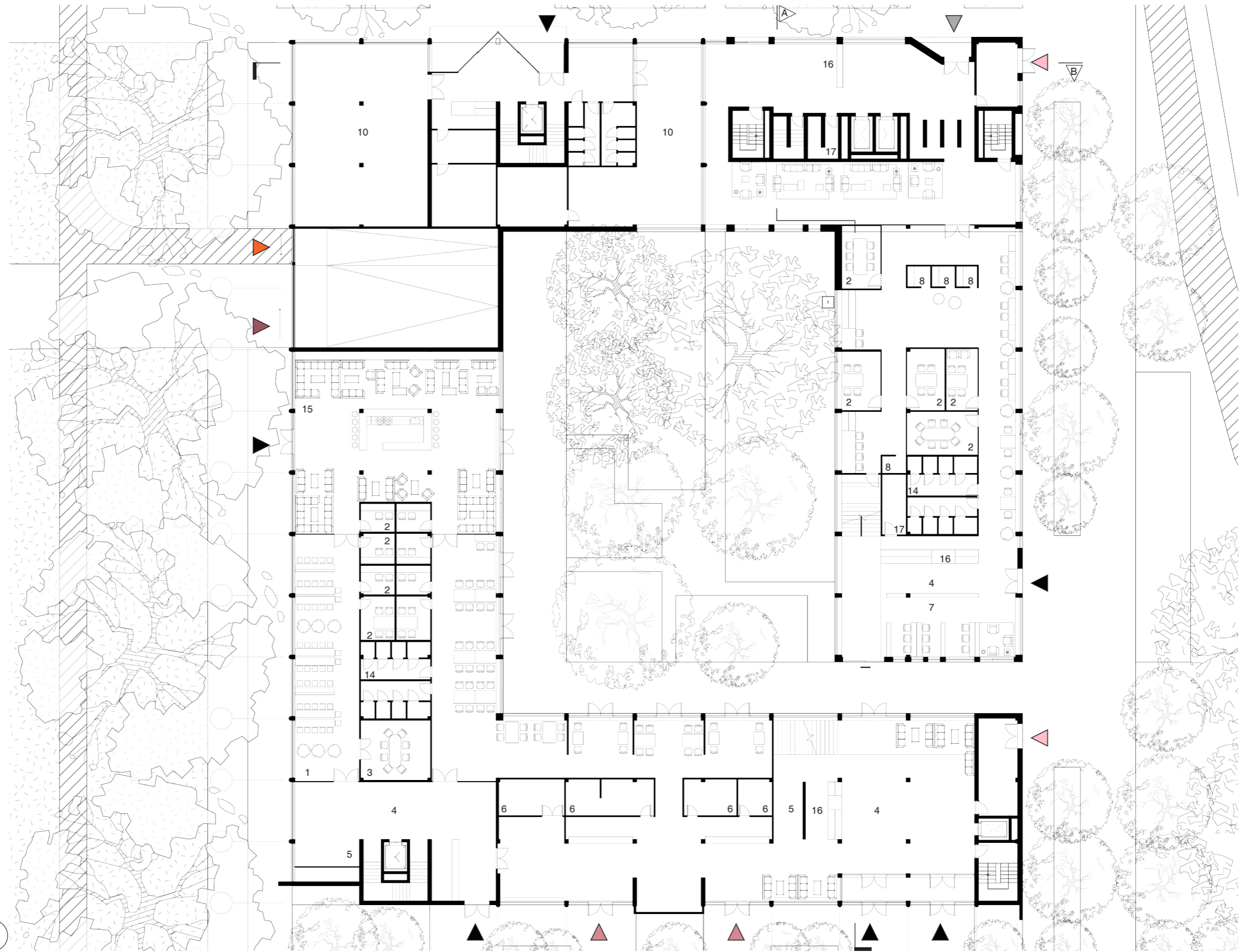
- 1 green corridor
- 2 bike lane
- 3 courtyard
- ▲ residential entrance
- ▲ workspace entrance
- ▲ shops' entrance
- ▲ car parking
- ▲ bike parking
- △ waste room entrance

0 2.5 5 10 m

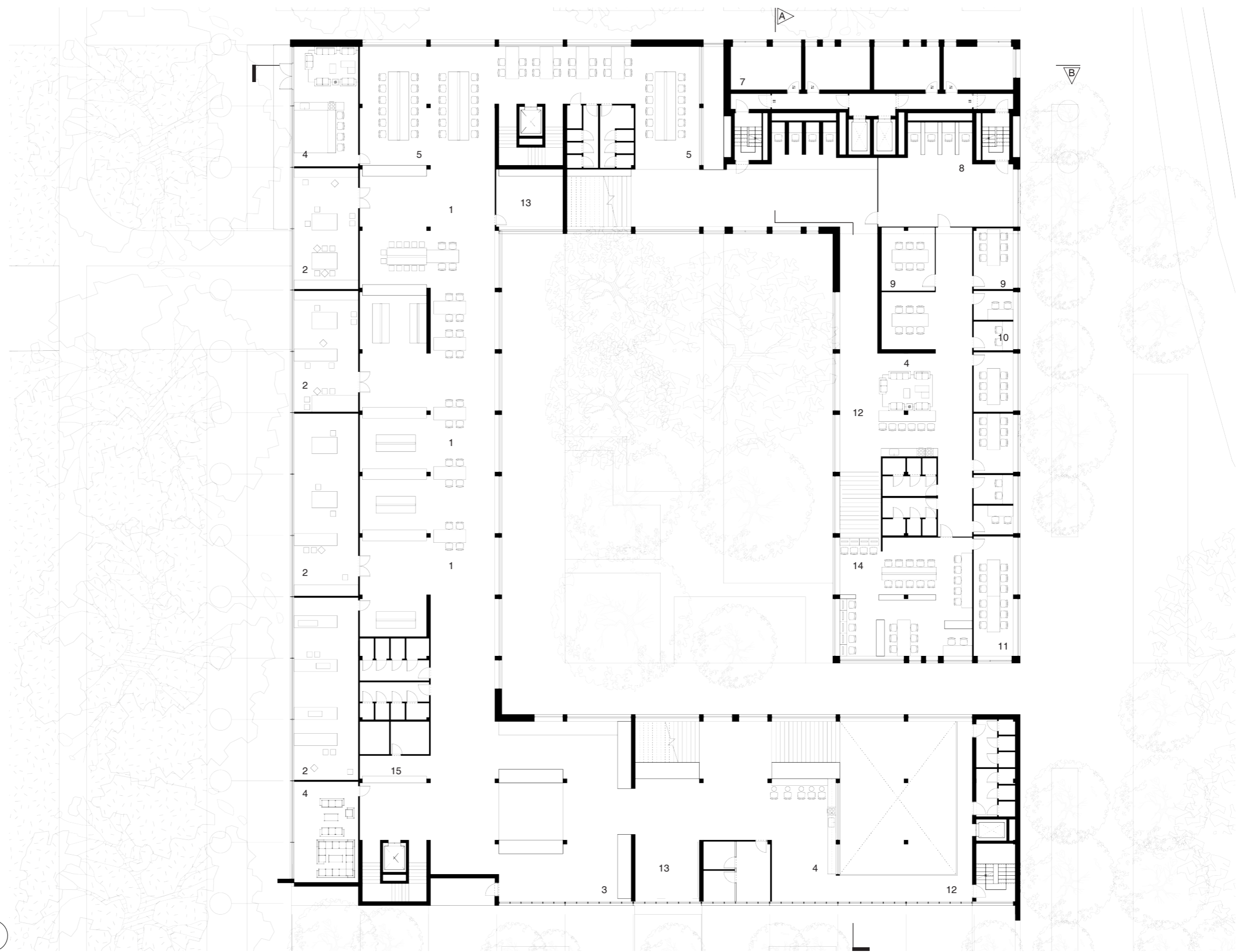


Ground floor

- 1 Collaborative workspace
- 2 Focus room
- 3 Conference room
- 4 Foyer
- 5 Print corner
- 6 Shop
- 7 Informal library
- 8 Seclusion space
- 9 Residential lounge
- 10 Exhibition space
- 11 Public lounge
- 12 Waste room
- 13 Courtyard
- 14 Toilet
- 15 Cafe
- 16 Reception
- 17 Reception room
- ▲ Residential entrance
- ▲ Workspace entrance
- ▲ Shops' entrance
- ▲ Car parking entrance
- ▲ Bike entrance
- △ Waste room entrance



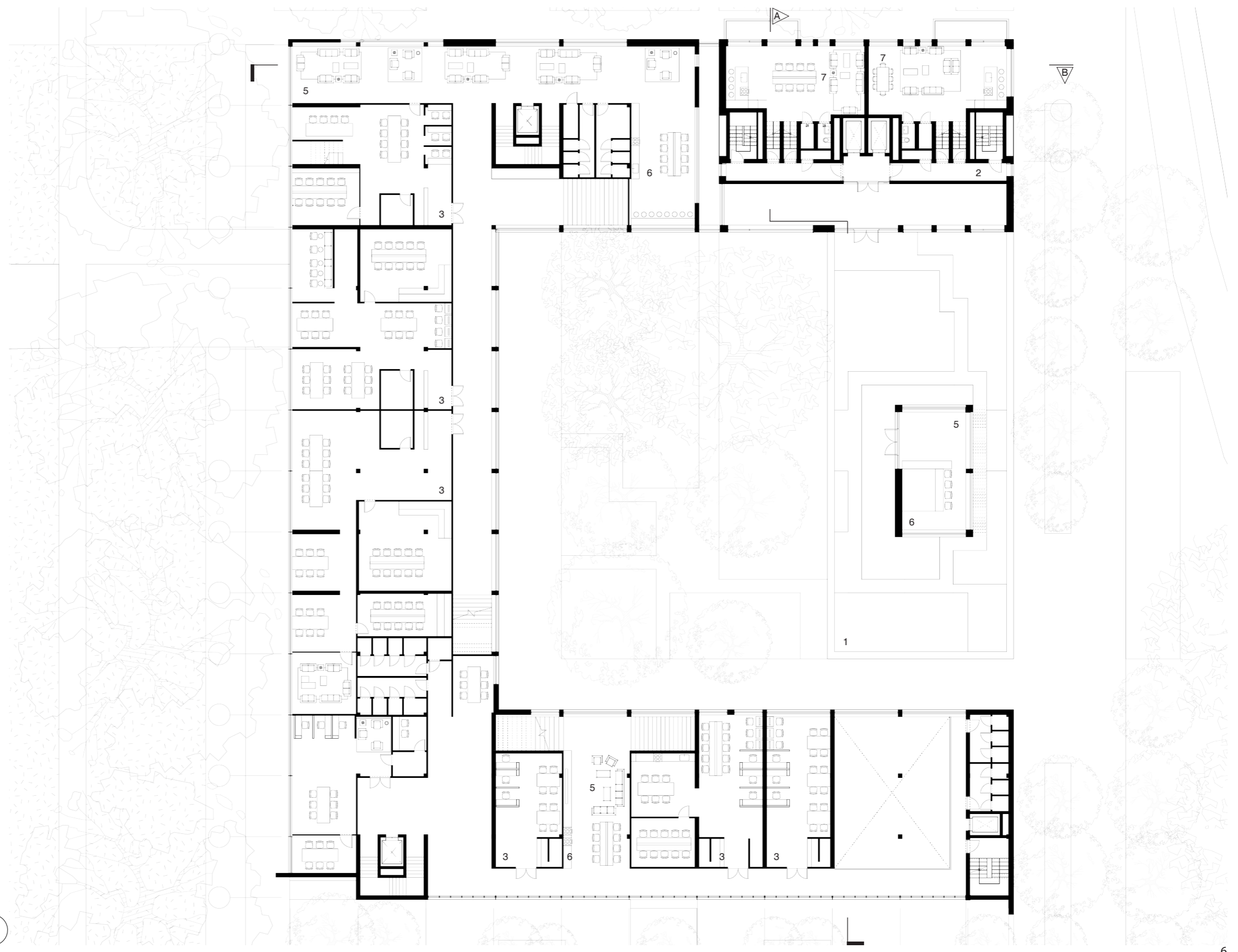
Level 01



- 1 Model making space
- 2 Model making facilities
- 3 Material shop
- 4 Meeting corner
- 5 Collaborative workspace
- 6 Toilet
- 7 Temporary stay room
- 8 Focus cubes
- 9 Void space
- 10 Focus room
- 11 Conference room
- 12 Entrane
- 13 Print corner
- 14 Formal library
- 15 Reception room



Level 02

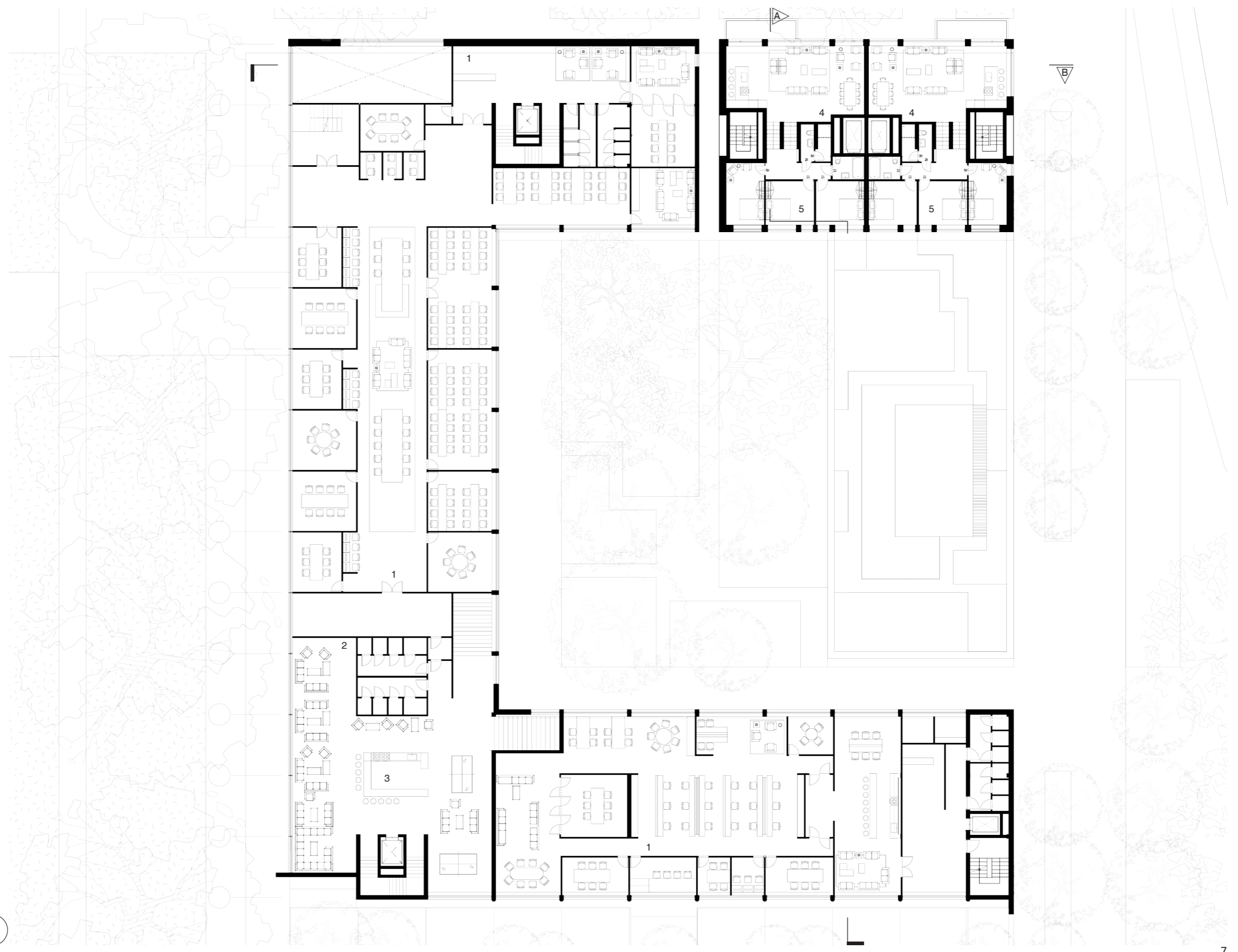


- 1 Roof garden
- 2 Residential corridor
- 3 Small offices
- 4 Shared office
- 5 Meeting space
- 6 Kitchen
- 7 Residential livingroom

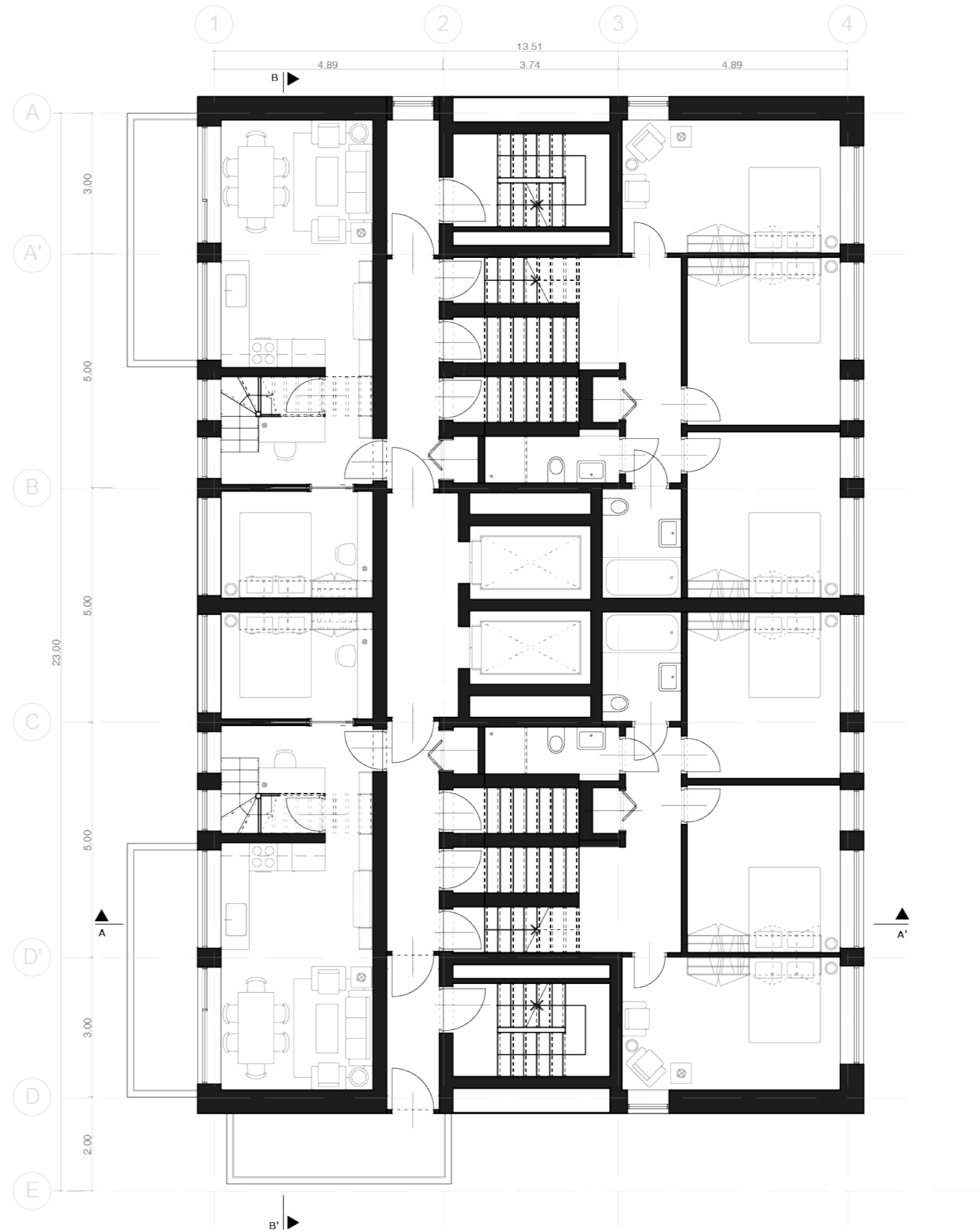


Level 03

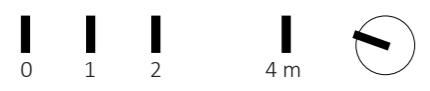
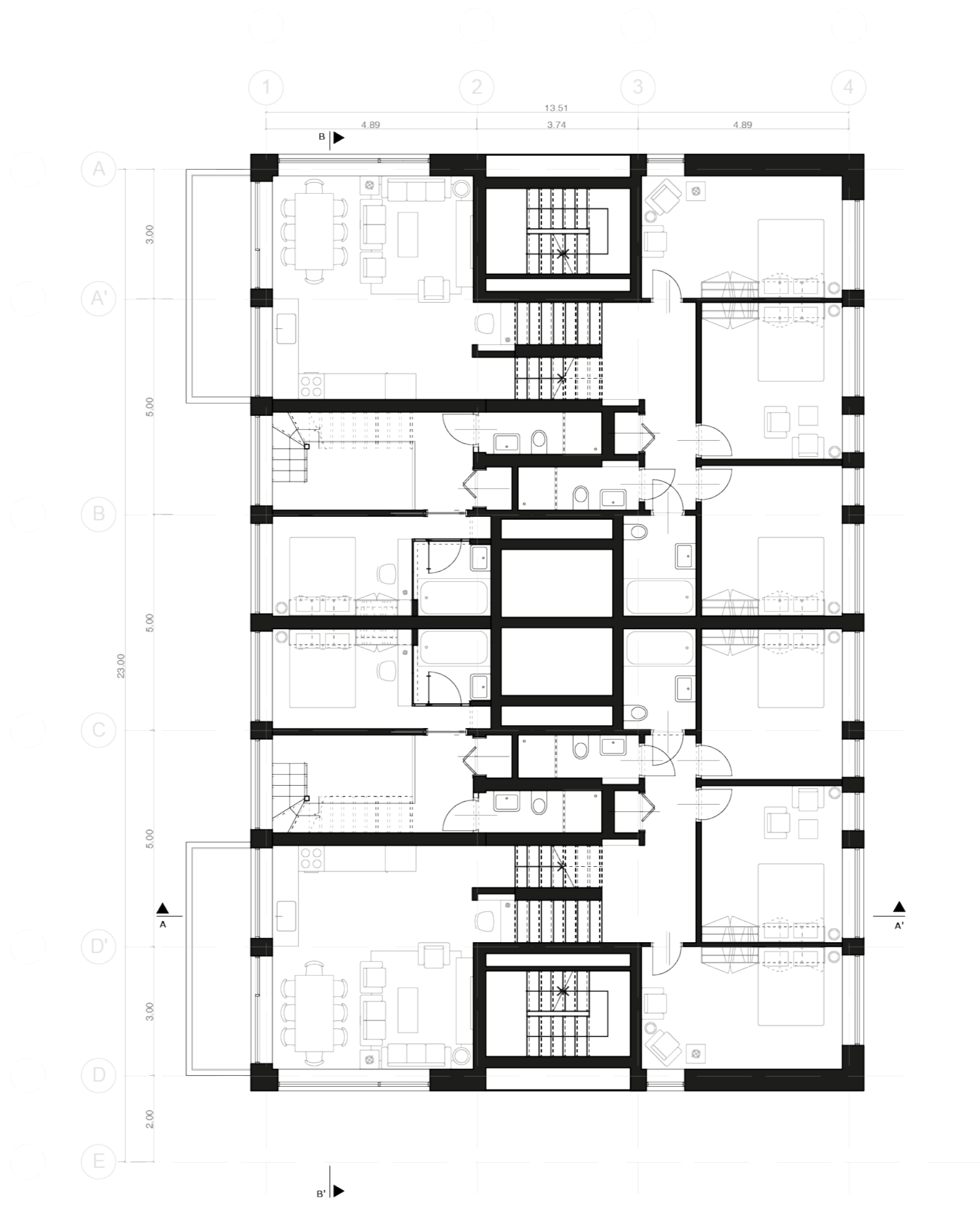
- 1 Large offices
- 2 Shared meeting space
- 3 Bar
- 4 Residential livingroom
- 5 Residential bedroom



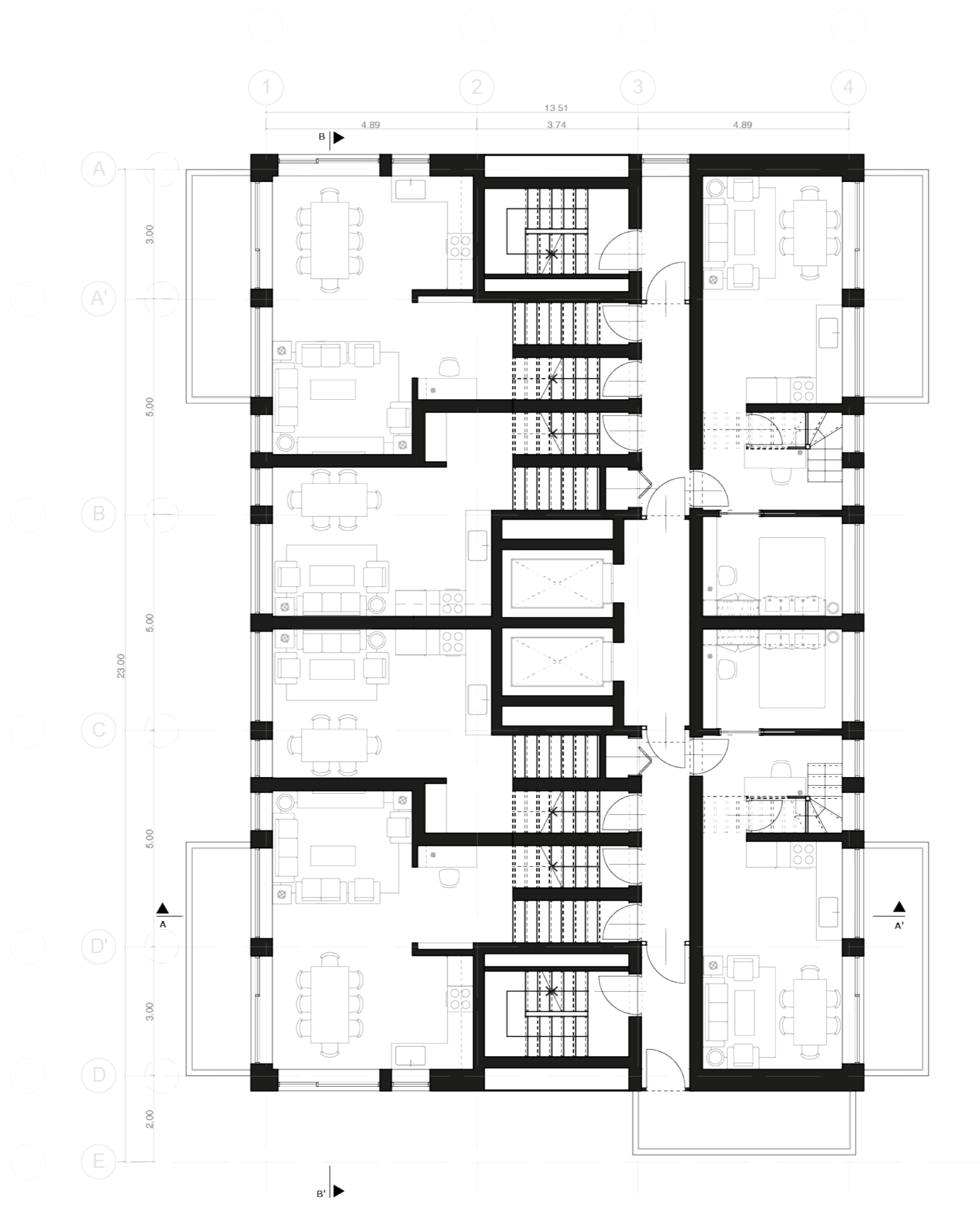
Typical floor plan



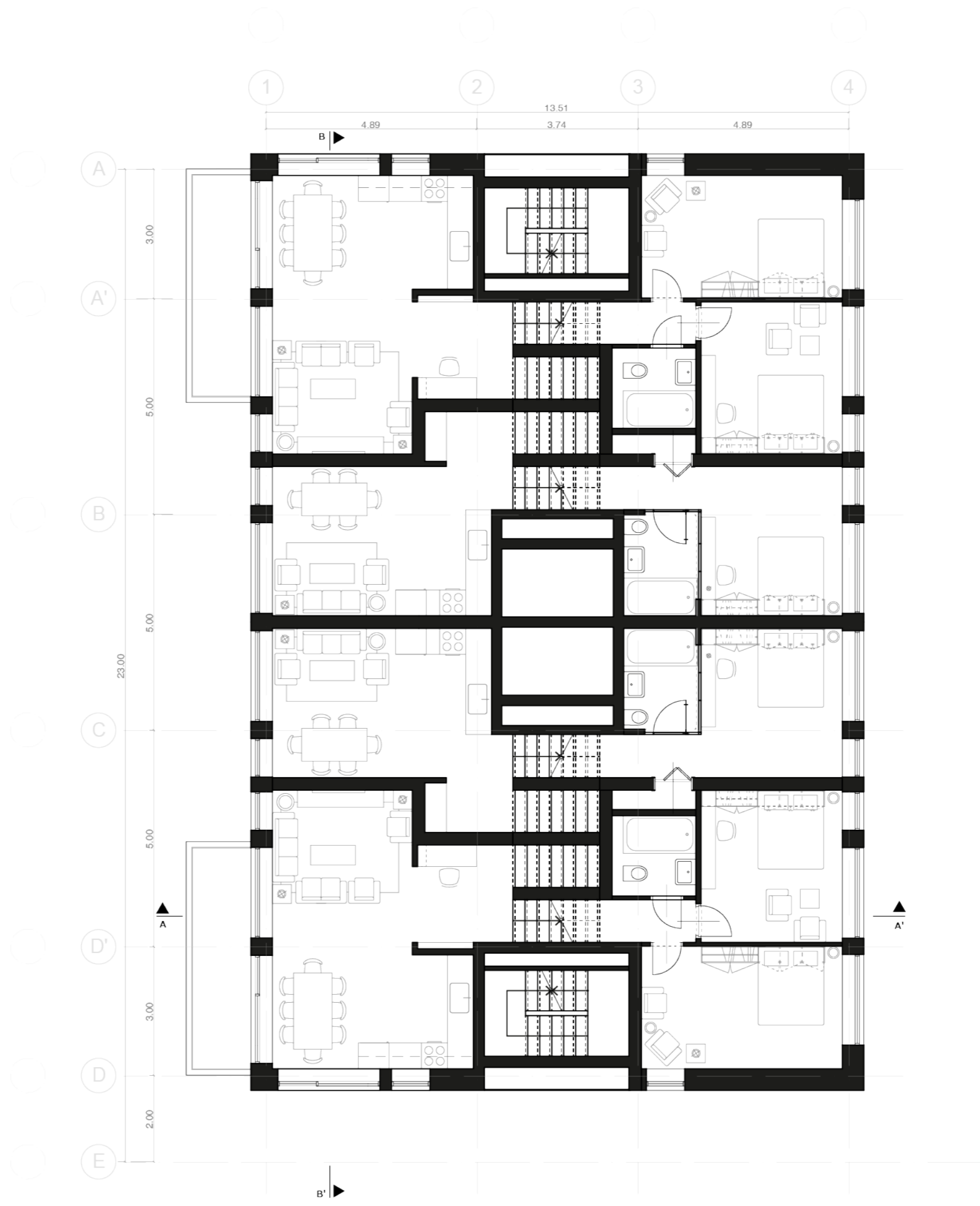
Typical floor plan



Typical floor plan



Typical floor plan



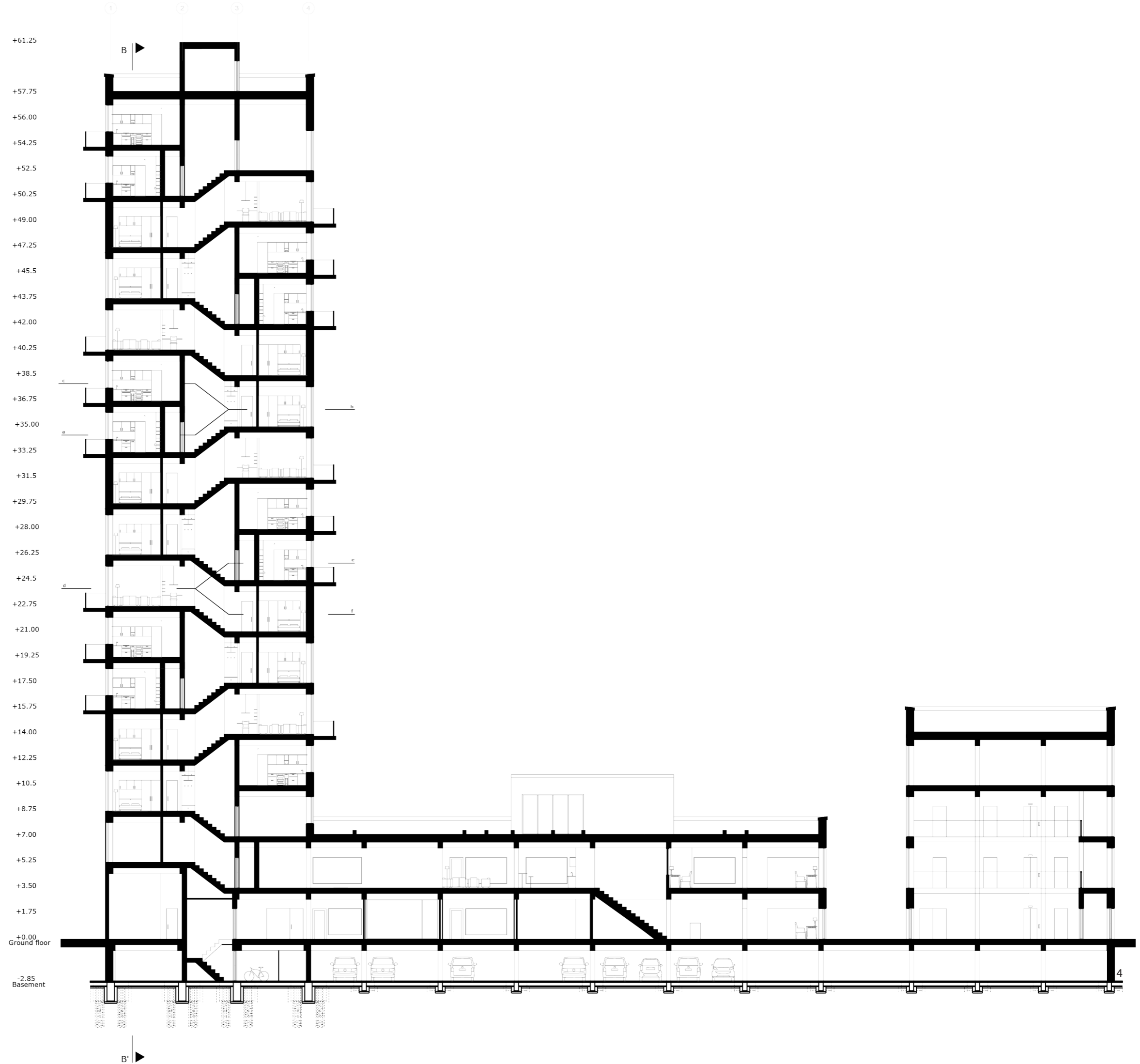
East Elevation



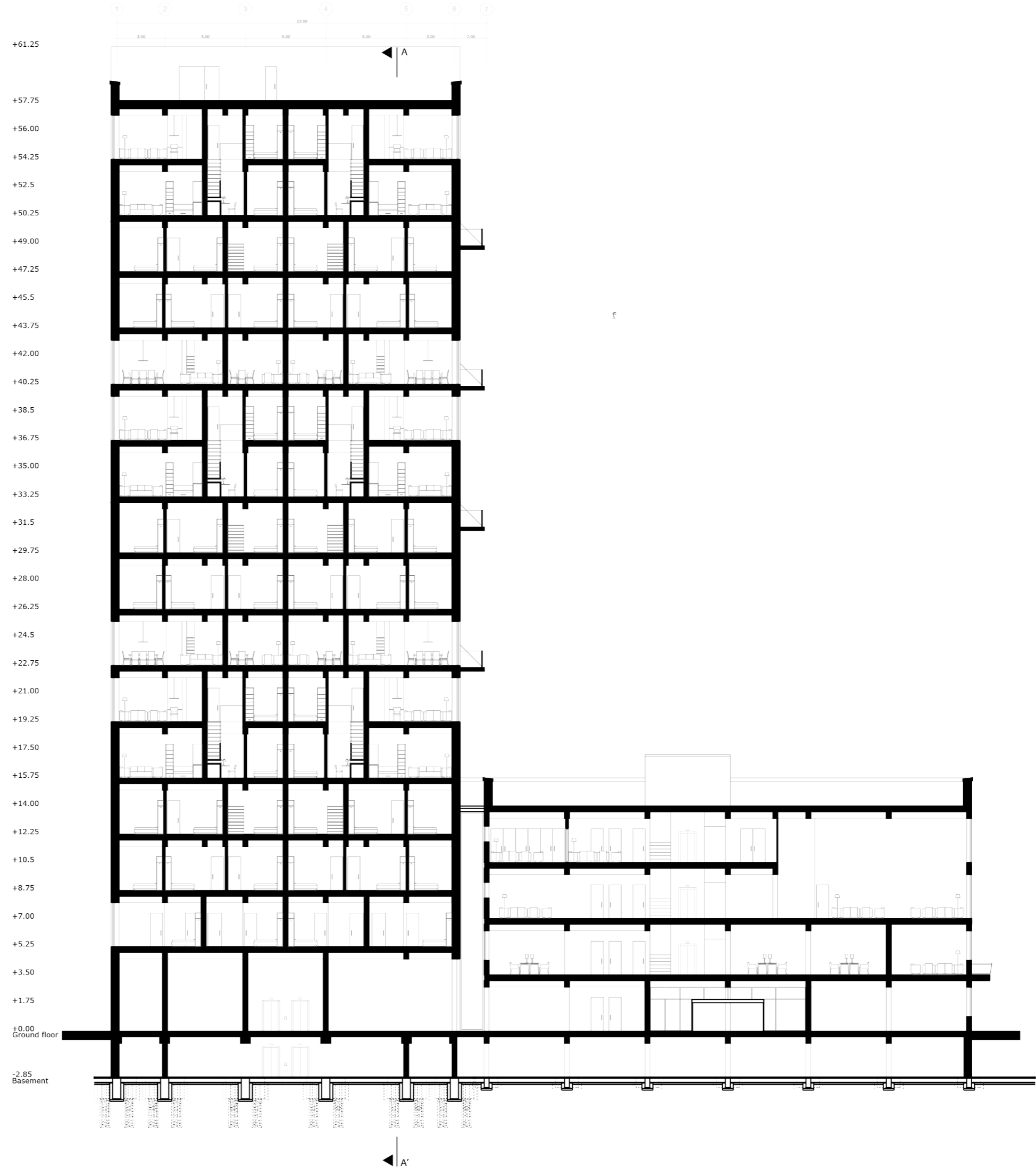
North Elevation



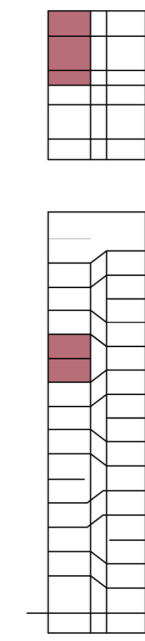
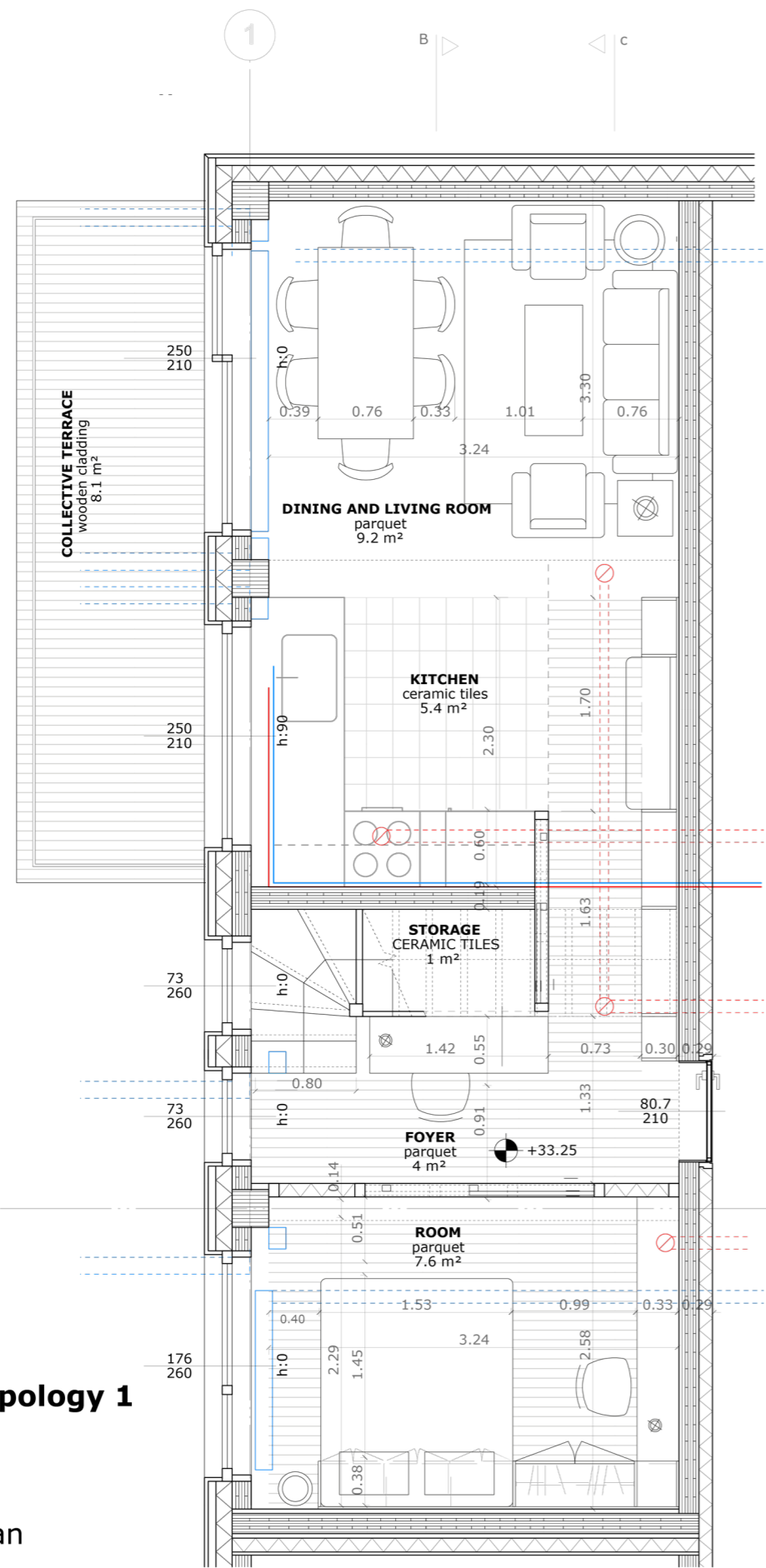
Section A-A'



Section B-B'



Dwelling typology 1
 2 Bedrooms
 Area: 70 m²
 First floor plan



- Rectangular horizontal inlet □
- Rectangular vertical inlet □
- Supply air duct ⊙
- Return air duct ⊙
- Supply water plumbing ○
- Return water plumbing ○

A

A'

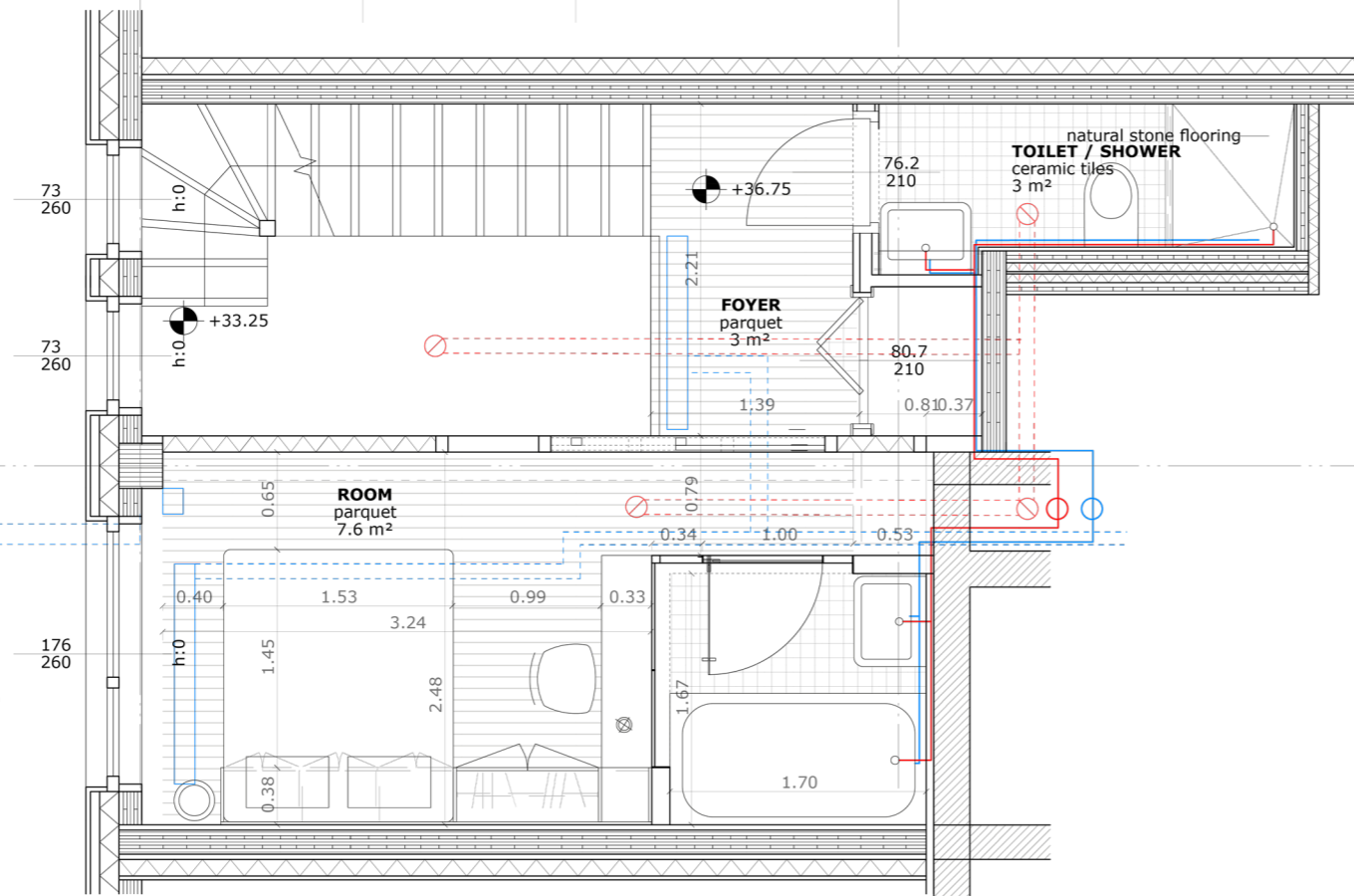
B

1

2

B

c



Dwelling typology 1

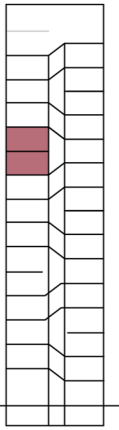
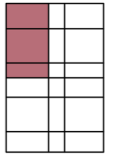
2 Bedrooms
Area: 70 m²

Second floor plan



B'

c

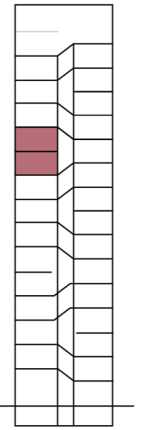
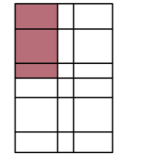
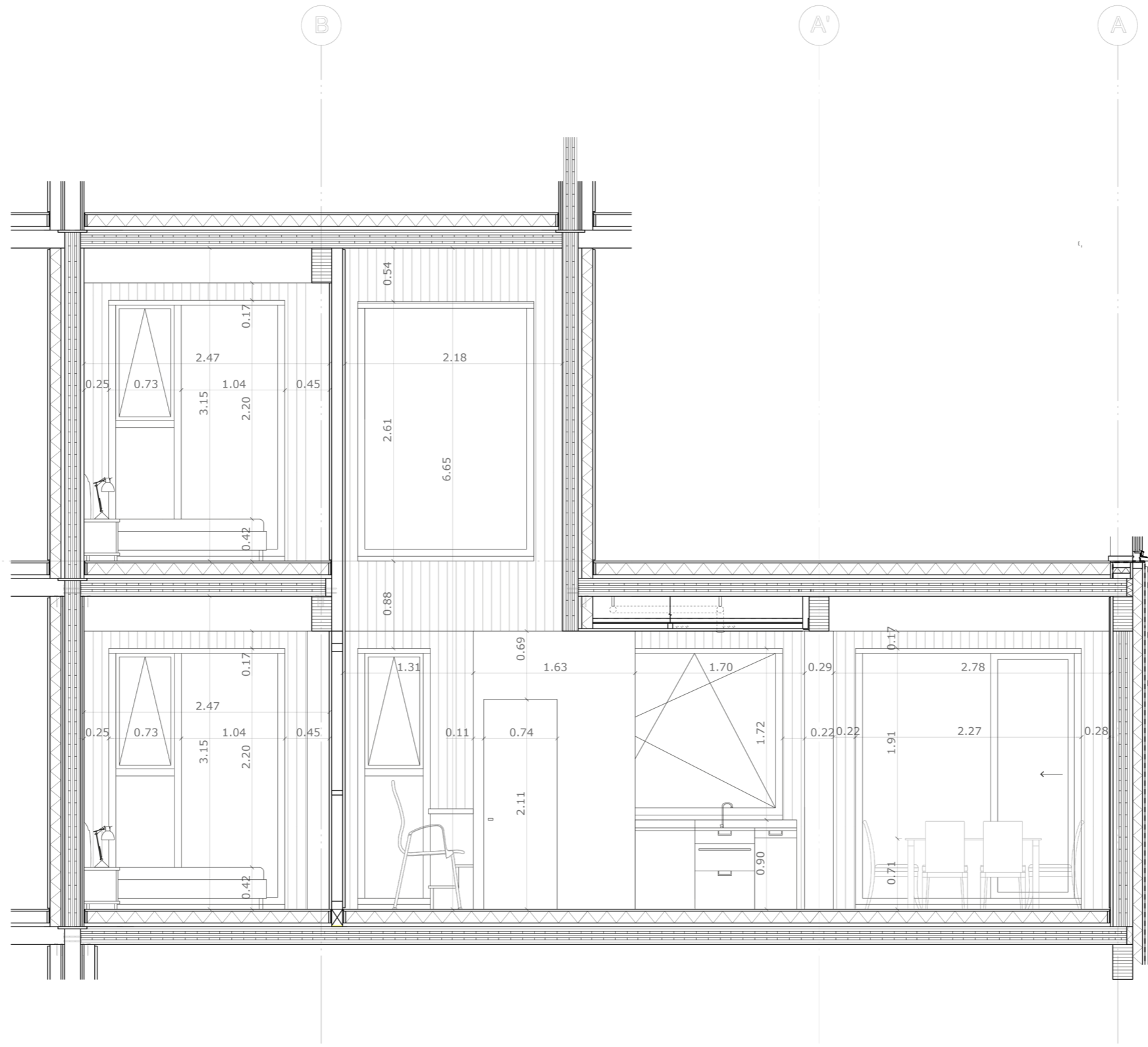


- Rectangular horizontal inlet
- Rectangular vertical inlet
- Supply air duct
- Return air duct
- Supply water plumbing
- Return water plumbing

+40.25

+36.75

+33.25



Dwelling typology 1

2 Bedrooms
Area: 70 m²

Section cc





Timber window,
silver fir, sanded
smooth with
insulated triple
glazing

rough-sawn
silver cladding
30/50 - 120mm
outdoor lighting

timber sliding
door, sanded
smooth with
insulated triple
glazing

rough-sawn
silver cladding
40/80 - 90mm

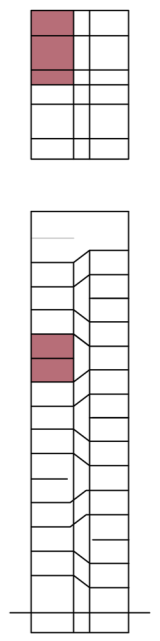
+39.35

+38.06

+35.85

+35.00

+34.00

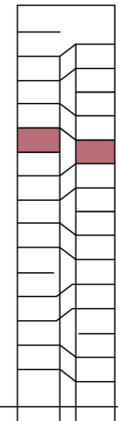
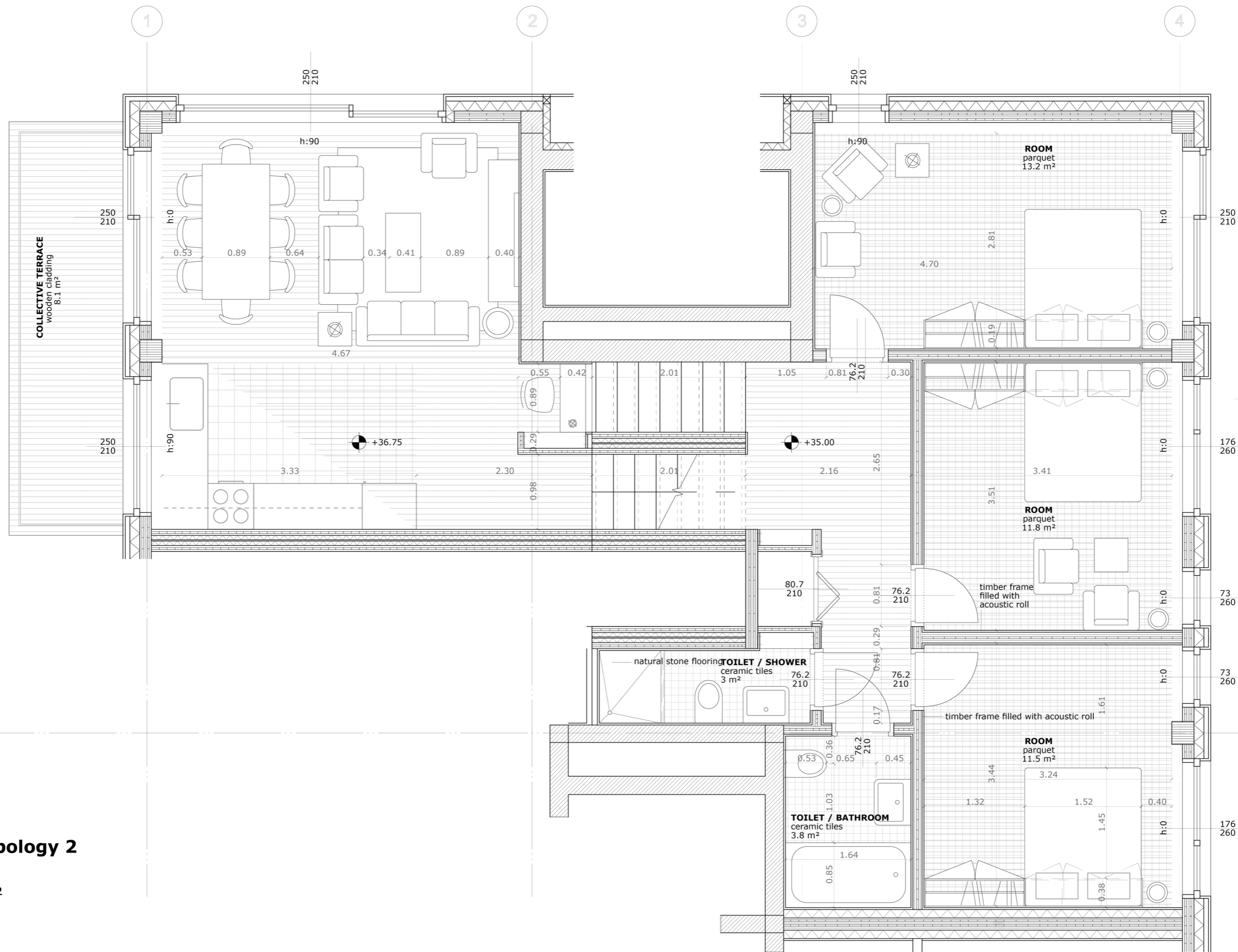


Dwelling typology 1

2 Bedrooms
Area: 70 m²

North elevation



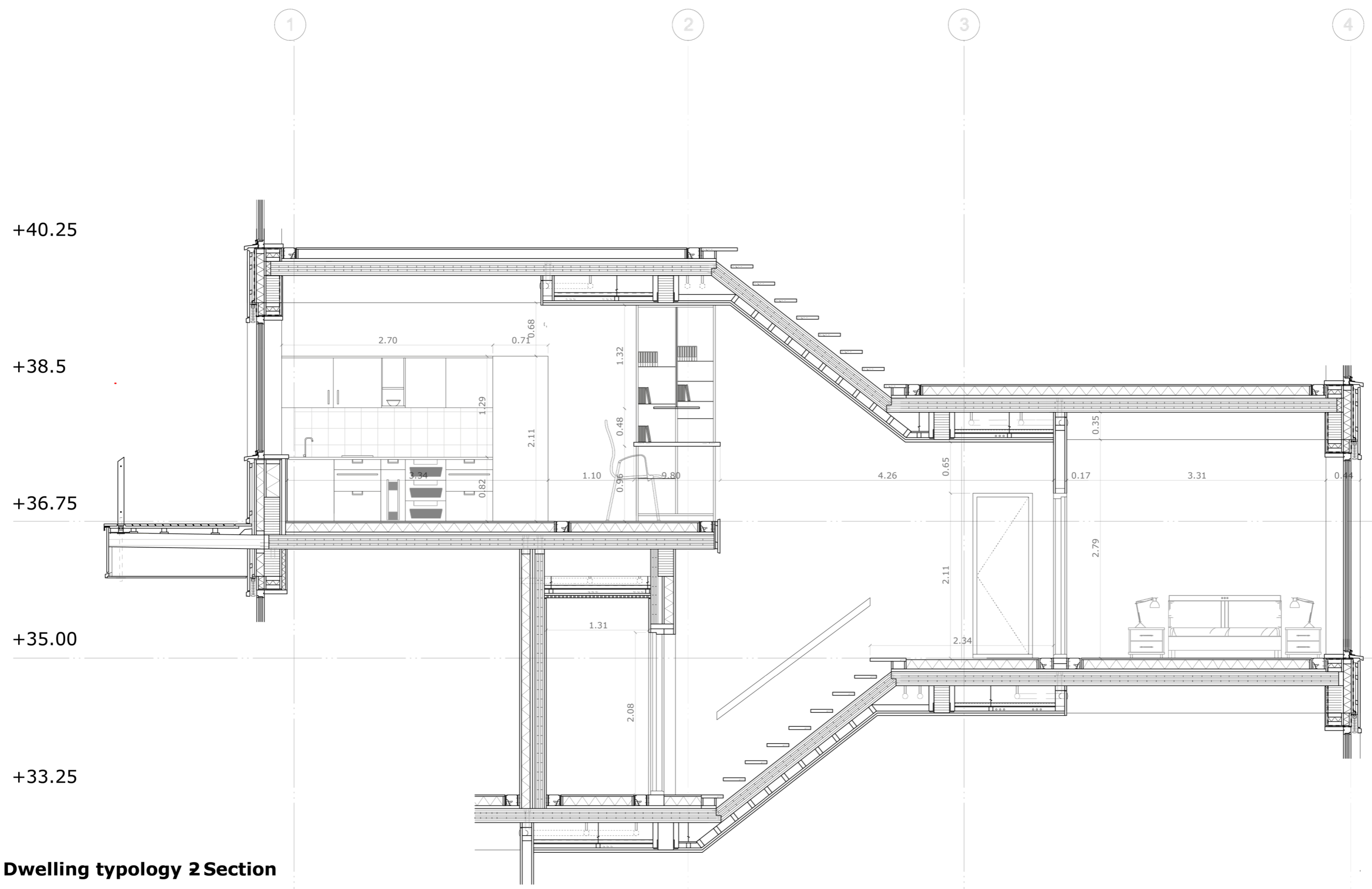
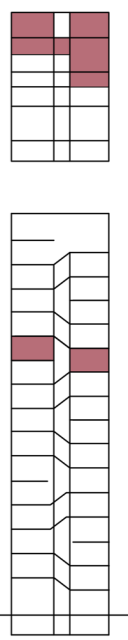


Dwelling typology 2

3 Bedrooms
Area: 100 m²

Floor plan



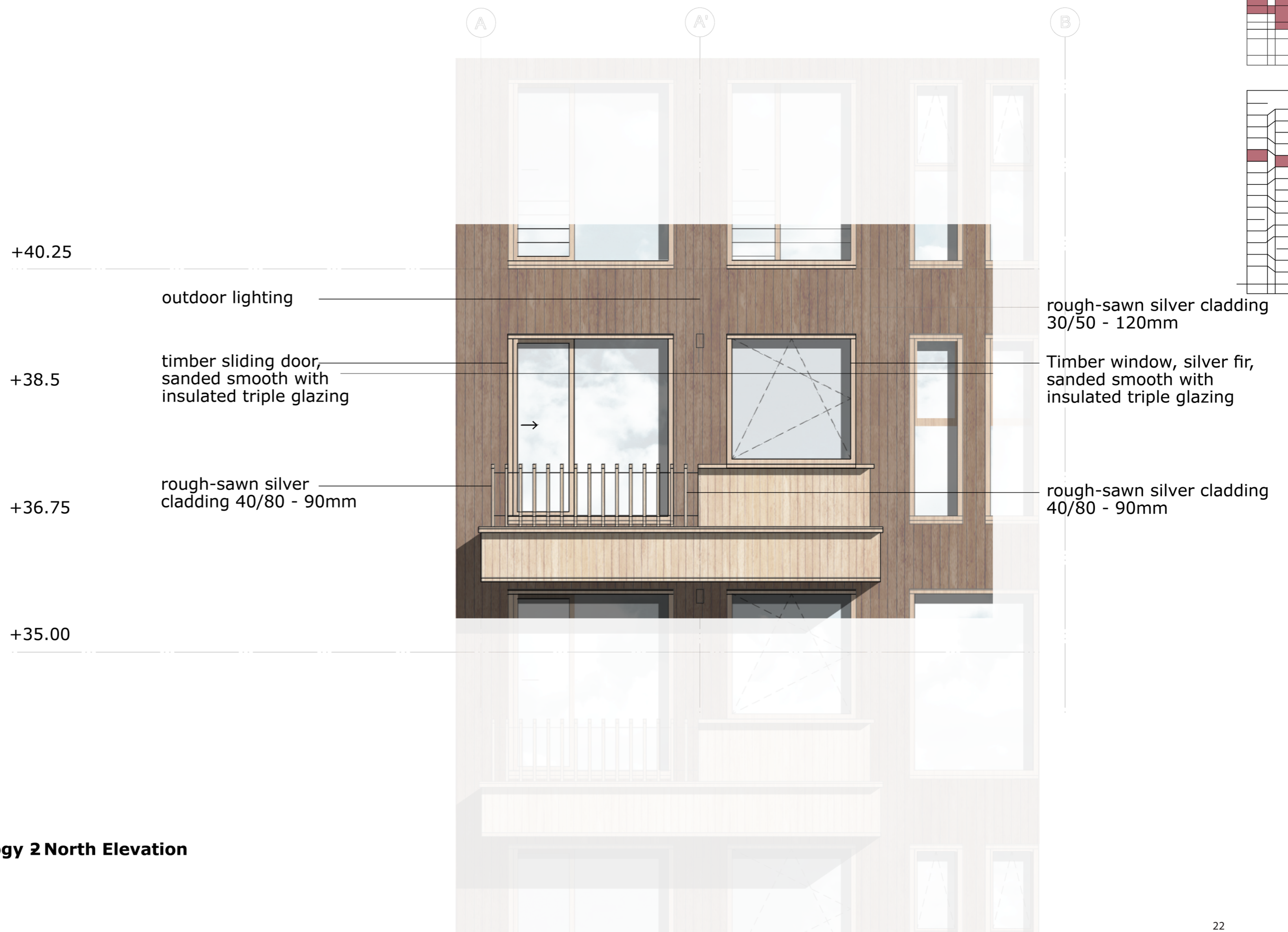


Dwelling typology 2 Section

3 Bedrooms
Area: 100 m²

Section dd



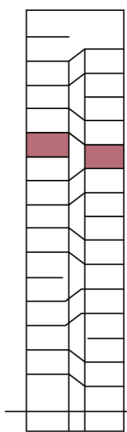
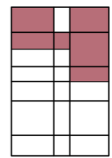


Dwelling typology 2 North Elevation

3 Bedrooms
Area: 100 m²

North elevation





+38.5

+36.75

+35.00

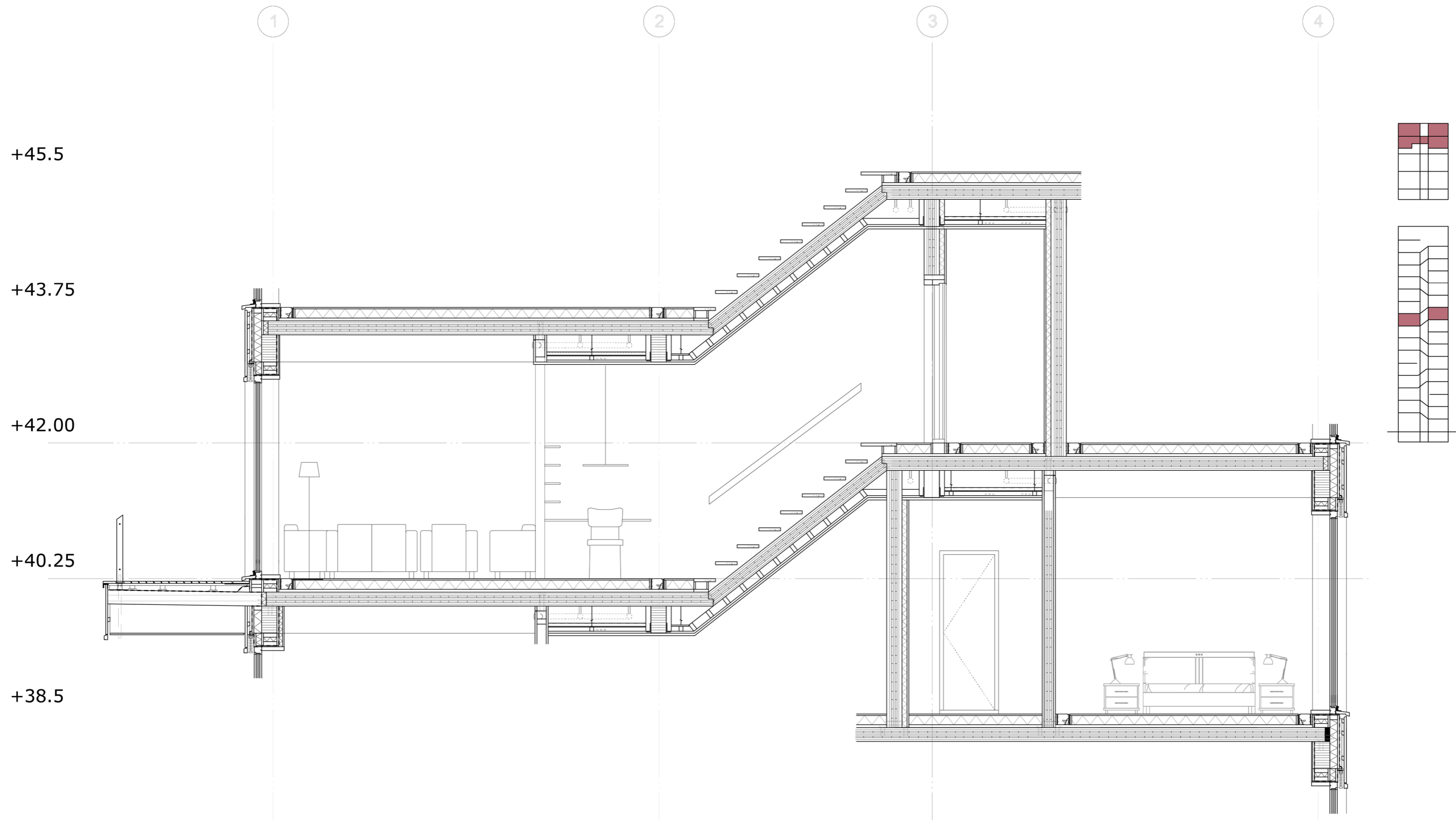


Dwelling typology 2 South Elevation

3 Bedrooms
Area: 100 m²

South elevation

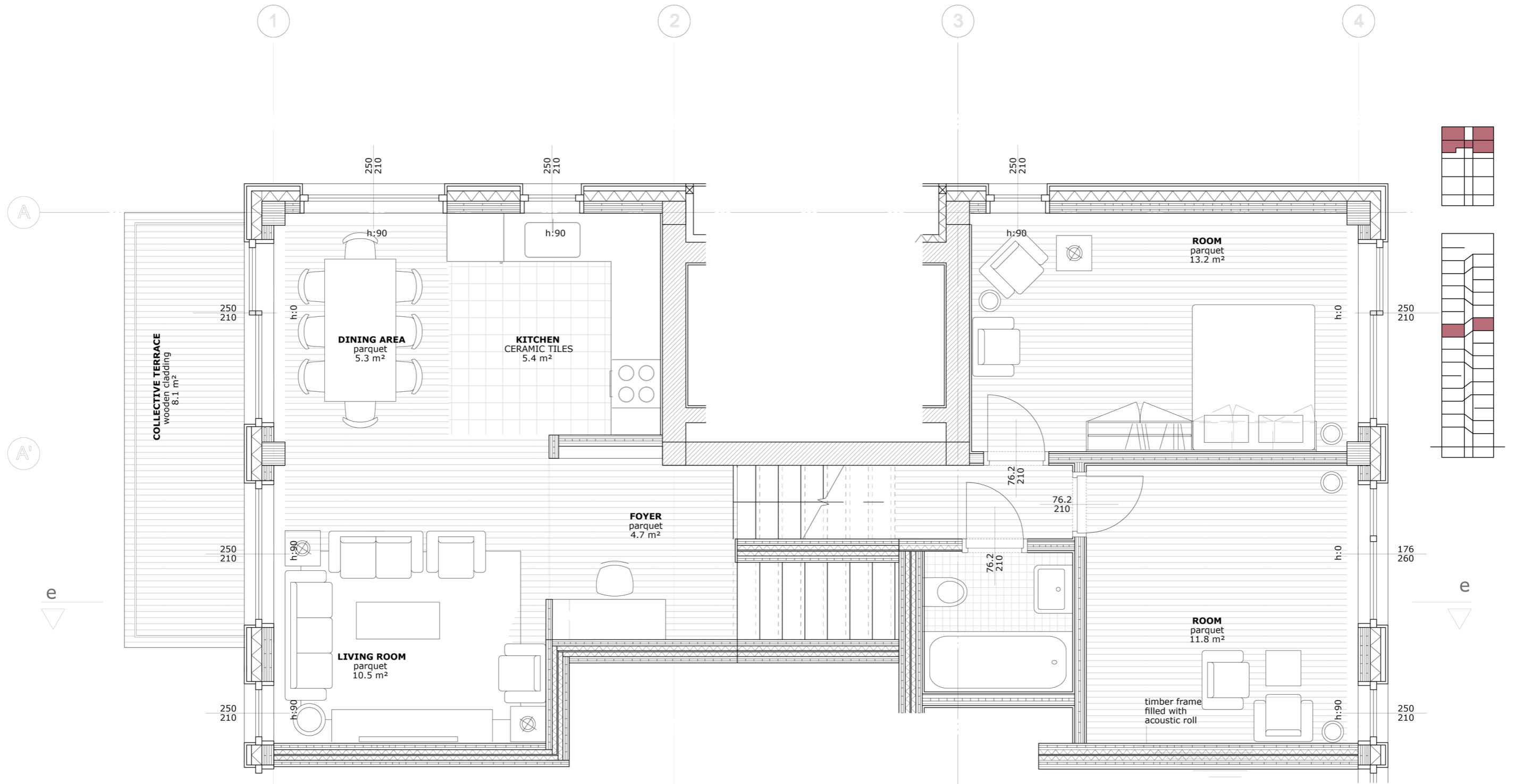




Dwelling typology 3

2 Bedrooms
 Area: 75 m²





Dwelling typology 3

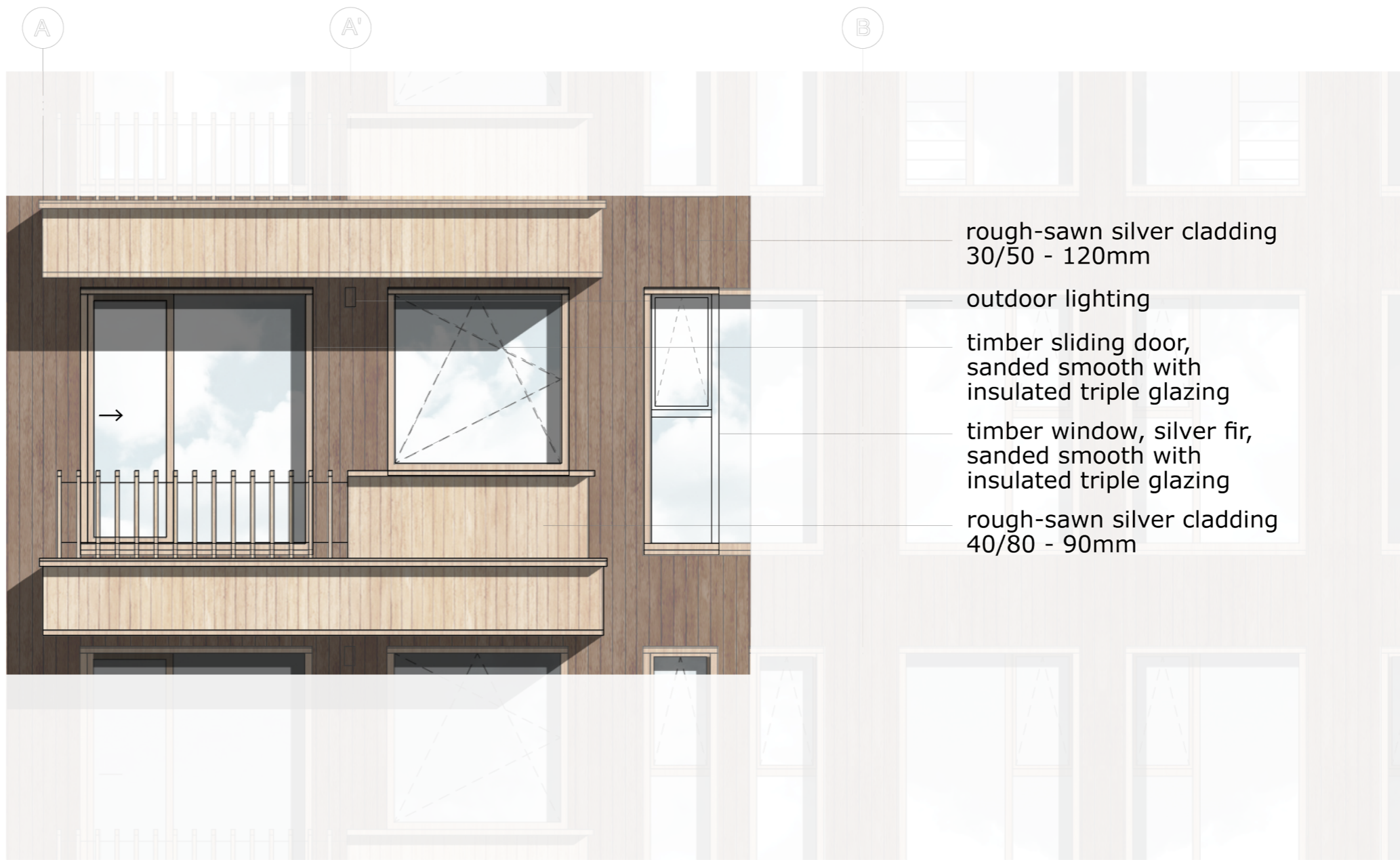
2 Bedrooms
Area: 75 m²



+38.5

+36.75

+35.00



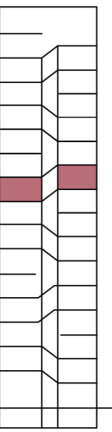
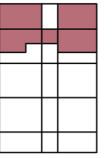
rough-sawn silver cladding
30/50 - 120mm

outdoor lighting

timber sliding door,
sanded smooth with
insulated triple glazing

timber window, silver fir,
sanded smooth with
insulated triple glazing

rough-sawn silver cladding
40/80 - 90mm

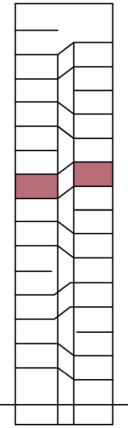
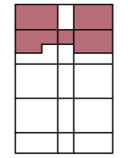


Dwelling typology 3

2 Bedrooms
Area: 75 m²

North elevation



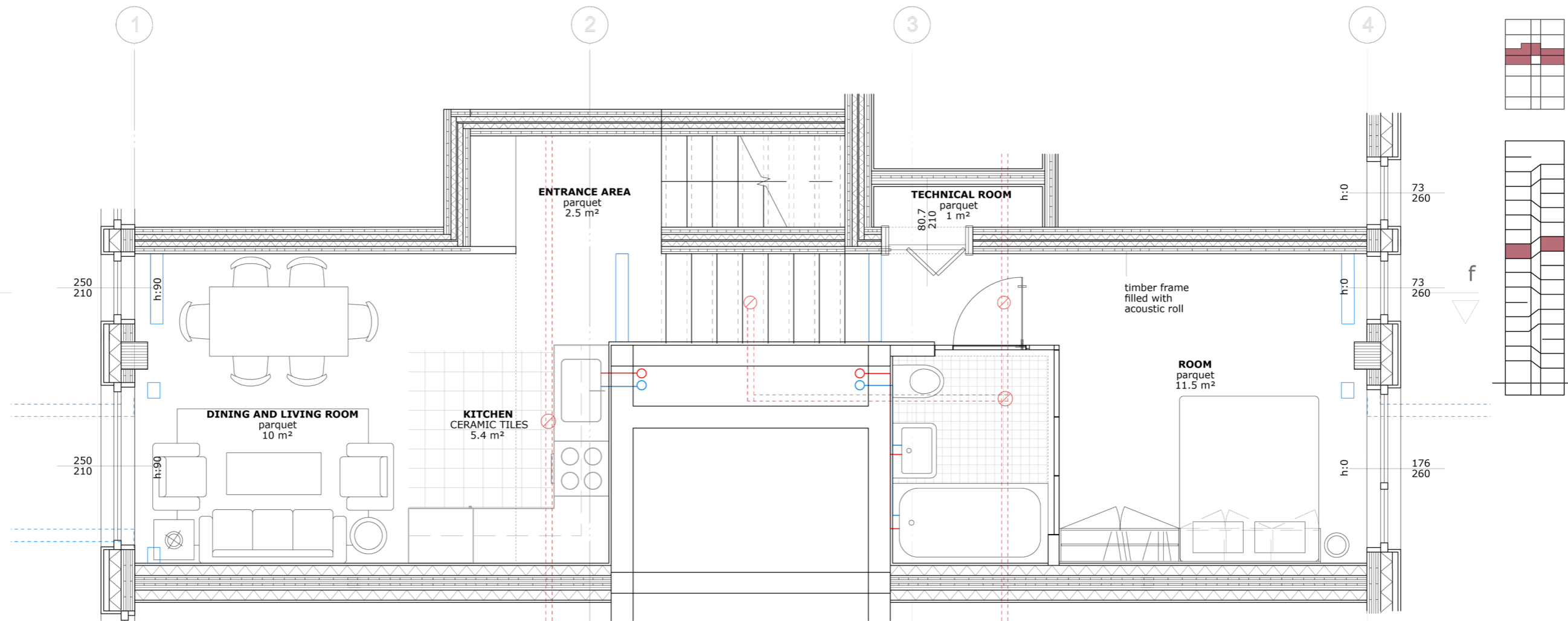


Dwelling typology 3

2 Bedrooms
Area: 75 m²

South elevation



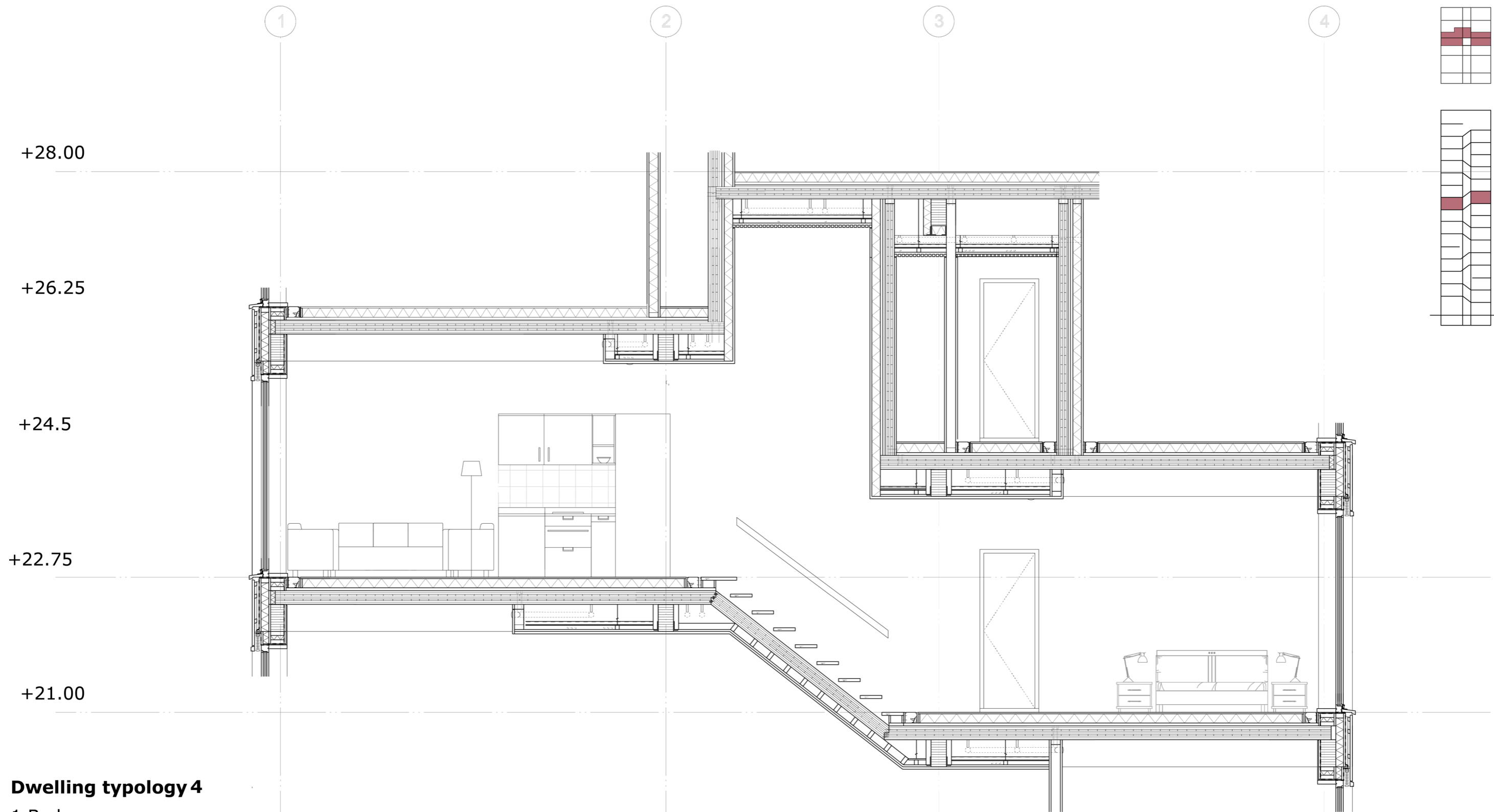


Dwelling typology 4

1 Bedroom
Area: 50 m²

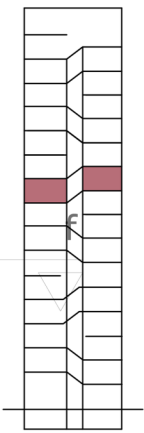
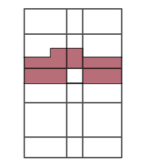
- Rectangular horizontal inlet
- Rectangular vertical inlet
- Supply air duct
- Return air duct
- Supply water plumbing
- Return water plumbing





Dwelling typology 4
 1 Bedroom
 Area: 50 m²
 section ff





+26.25

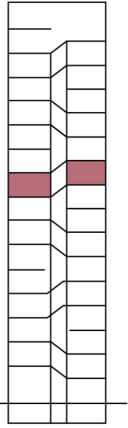
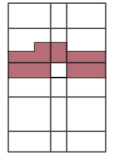
+22.75

Dwelling typology 4

1 Bedroom
Area: 50 m²

North elevation





B

A'

+24.5

+21.00



Dwelling typology4

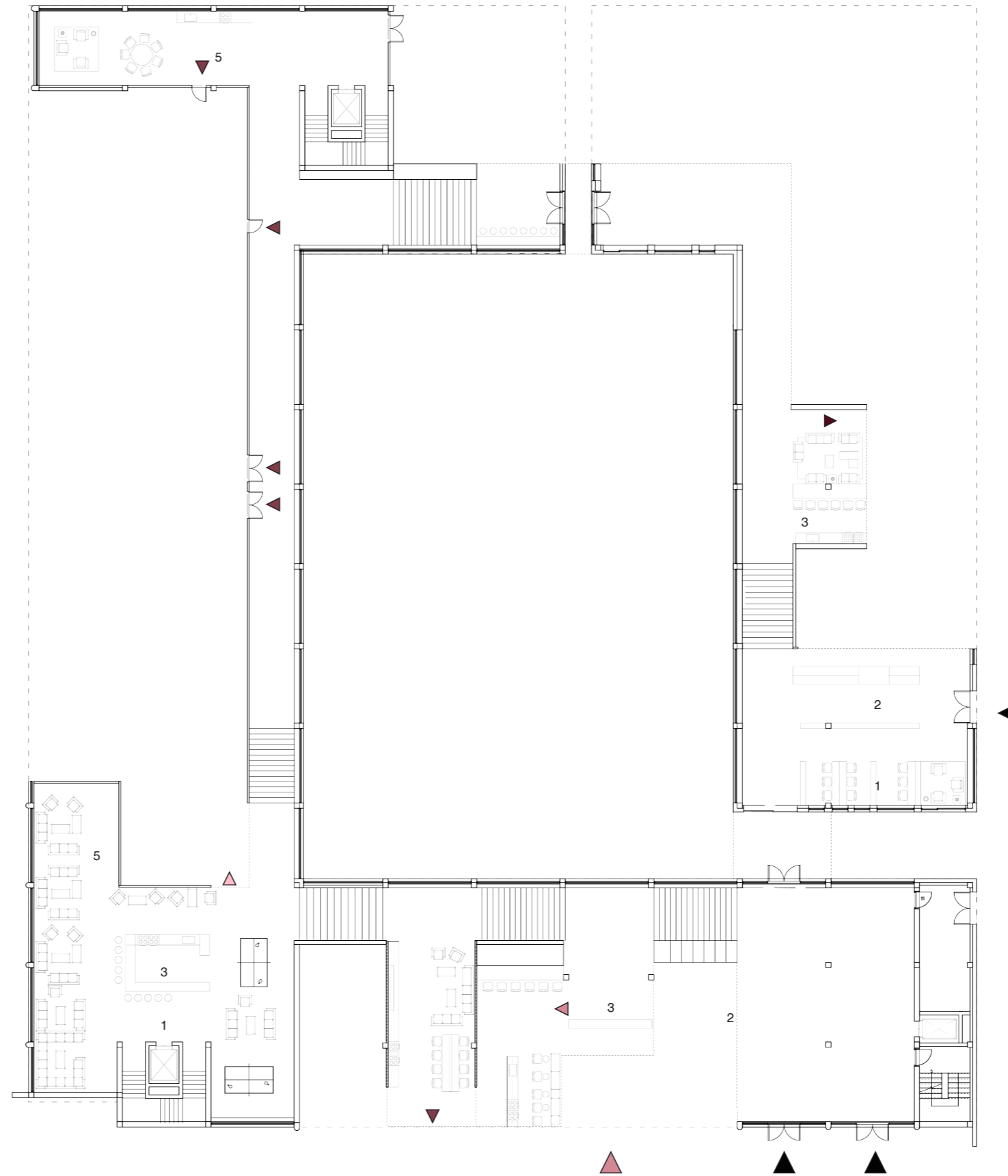
1 Bedroom
Area: 50 m²

South elevation



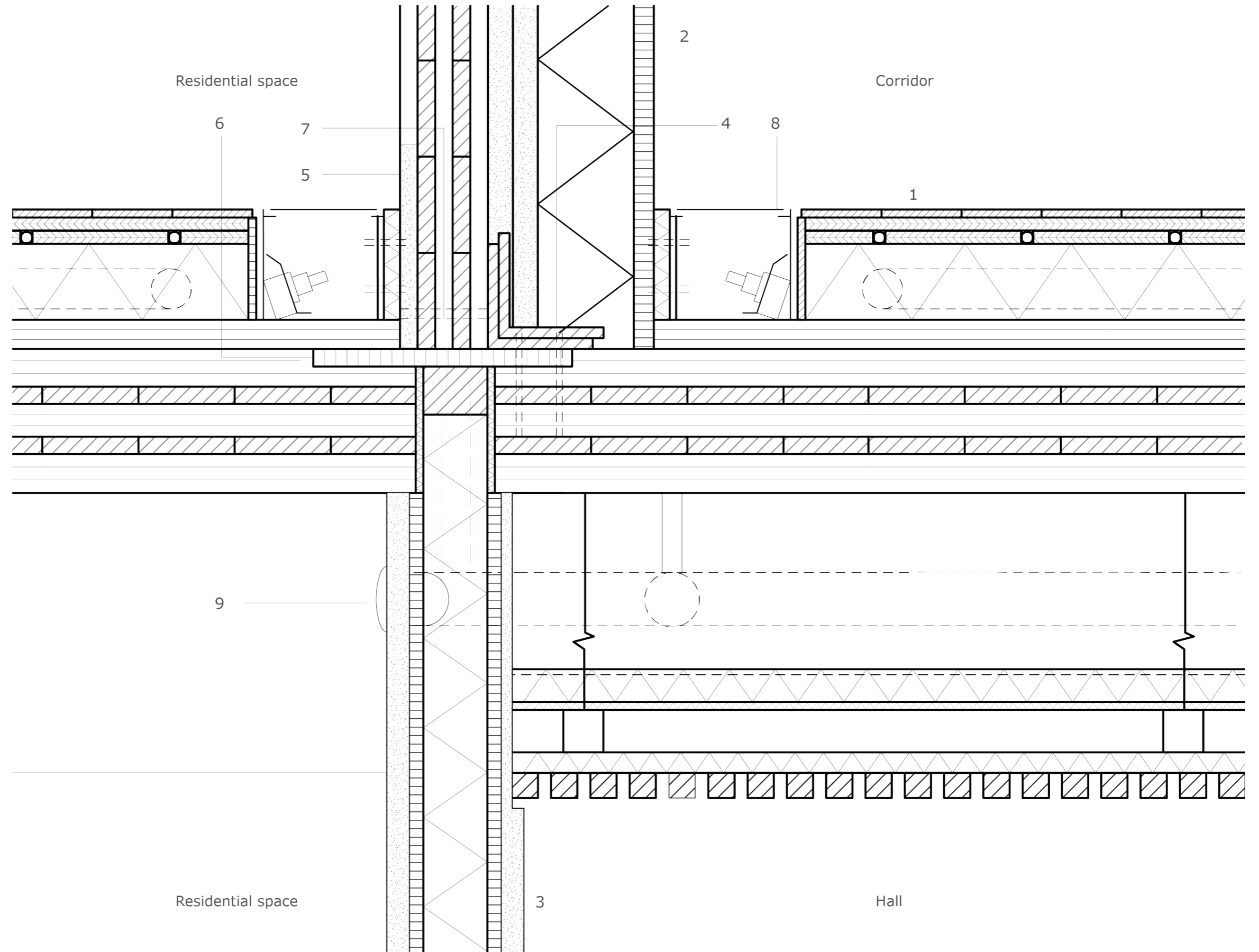
Third place mapped plan

- 1 Informal library
- 2 Reception
- 3 Meeting area
- ▲ Ground floor entrance
- ▲ Entrance to large office
- ▲ Entrance to the material library
- ▲ Entrance to the small offices
- ▲ Entrance to the collaborative workspaces

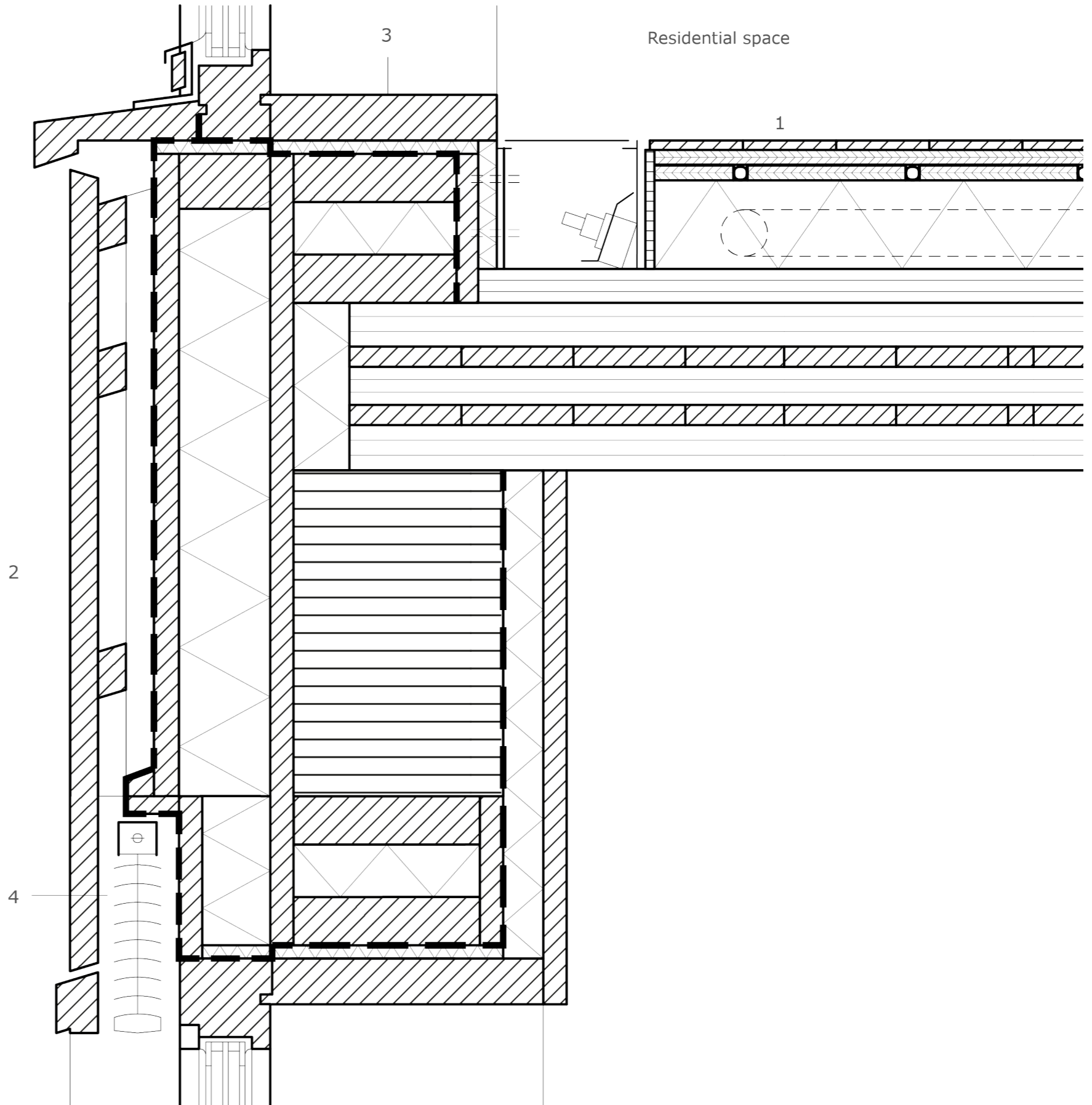


Detail Residential area

- 1 **Foyer floor slab**
 Strap floor, silver fir, rough-sawn 27/80-100mm
 Plywood sub-floor 15mm
 Aluminium heat-transfer plates 1-16mm
 Tubing pressed into aluminium plates
 Plywood sleepers 15mm
 Plumbing pipes pressed into thermal insulation, mineral wool 95mm
 Impact sound insulation, wood fibre 36mm
 Cross laminated floor 180mm
 Installation level 220mm
 Soundproofing, sheep's wool 40mm
 Gypsum fibreboard 15mm
 Installation level 50mm
 Acoustic insulation, sheep's wool 30mm
 Trickle protective membrane, black
 Ceiling, silver fir, untreated 40/35mm laid at distance
- 2 **Interior separating wall**
 Cladding 25mm
 Acoustic insulation, sheep's wool 110mm
 Plasterboard strips 2x18mm
 Cross laminated timber 120mm
- 3 **Interior wall**
 Gypsum fibreboard 12.5mm
 OSB panel 18mm
 Supporting structure, spruce 80/60mm, filled with thermal insulation, sheep's wool, 80mm
- 4 Steel angle connection for positional stability (two per element)
- 5 Horizontal continuous plasterboard
- 6 OSB panel
- 7 Slotted plate
- 8 Floor air duct with steel plate 80x150mm, screwed into gypsum
- 9 Fibreboard
- 10 Ventilation duct



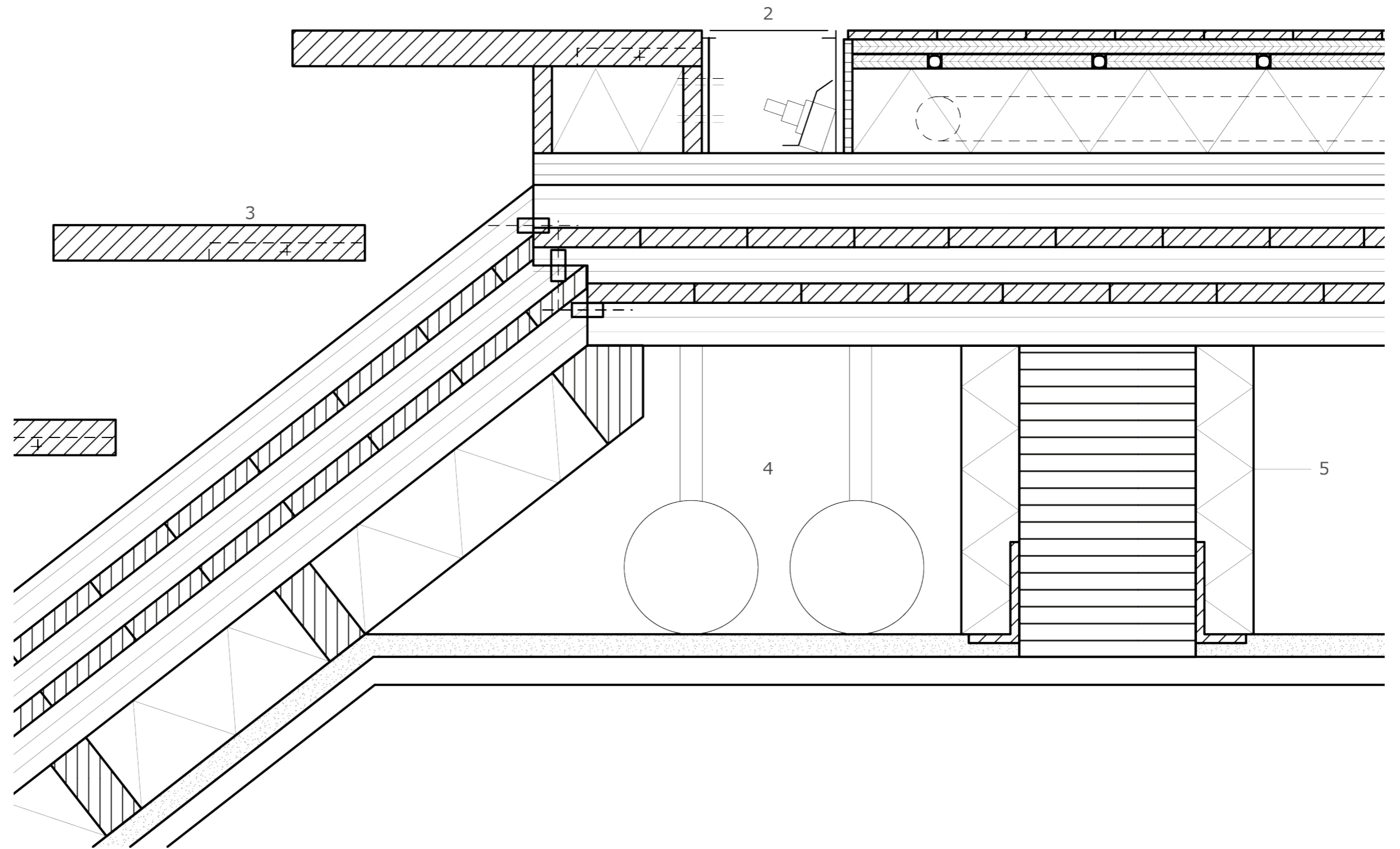
Detail Residential area



- 1 **Floor slab**
 Strap floor, silver fir, rough-sawn, nailed, tongue-and-groove 27/80-100mm
 Plywood sub-floor 15mm
 Aluminium heat-transfer plates 1-16mm
 Tubing pressed into aluminium plates
 Plywood sleepers 15mm
 Plumbing pipes pressed into thermal insulation, mineral wool 95mm
 Impact sound insulation, wood fibre 36mm
 Cross laminated floor 180mm
- 2 **Facade:**
 Cladding, silver fir, rough-sawn 30/50-120mm
 Substructure, battens, spruce 30/50mm
 Counter battens/rear ventilation, spruce 30/50mm
 Wind paper, black
 Prefabricated element:
 cladding, spruce, tongue-and-groove, diagonal 25/80-150mm
 Post, spruce 125/60mm
 between them insulation, wood fibre
 Cladding, vapour barrier
 Battens, between them:
 installation level, thermal insulation, sheep's wool
 Interior cladding, silver fir
- 3 Window still, silver fire, solid
- 4 Timber window, silver fir, sanded smooth with insulated triple glazing
 Sun proction, shading



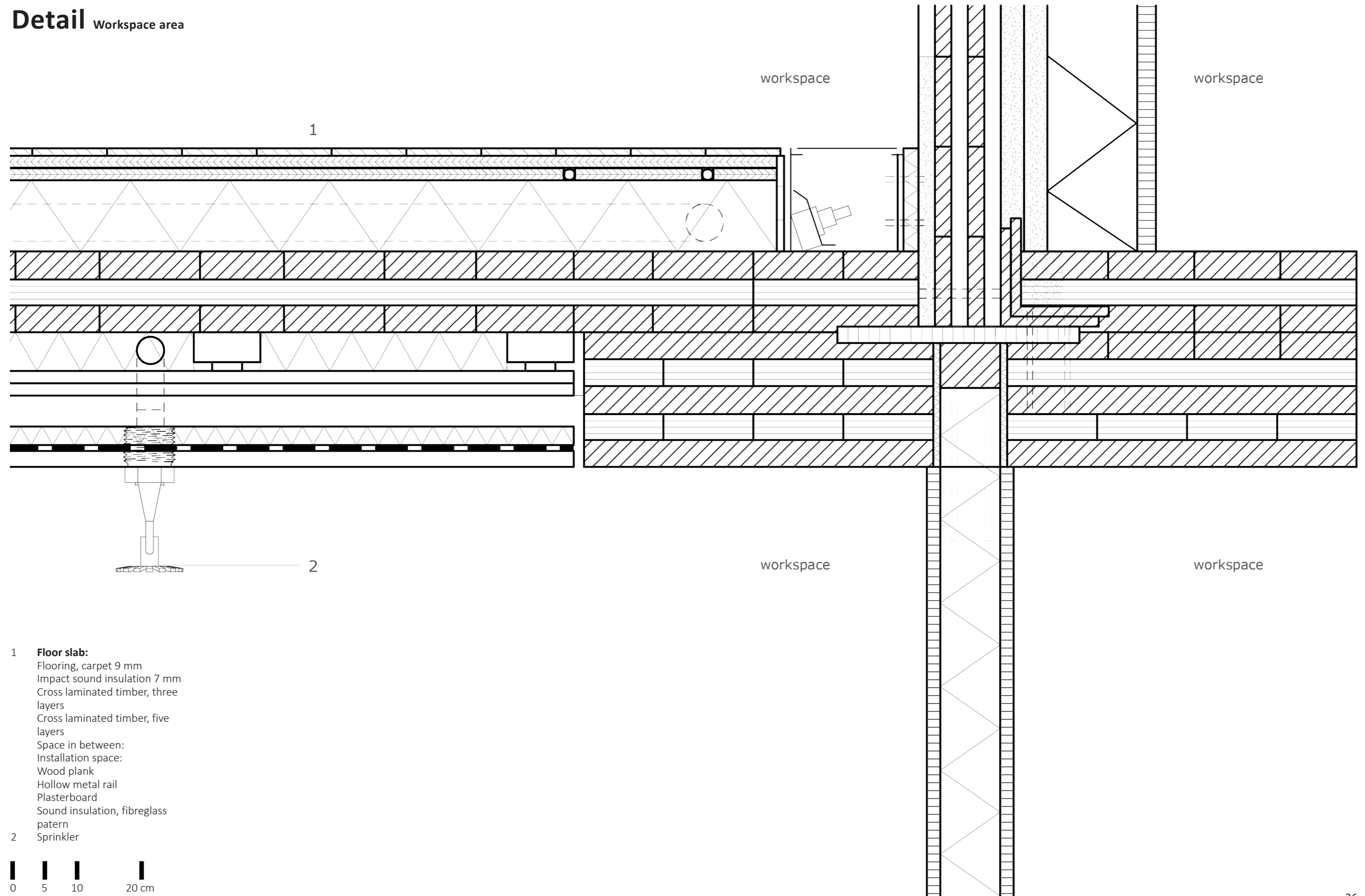
Detail split units' stairs



- 1 Cross laminated timber 180mm
Fixing battens 50x100mm with
fire resistant wool between
them
Interior cladding, silver fire
30/50-120mm
- 2 Floor air duct with steel plate
80x150mm, screwed into
gypsum fibreboard
Pine stair board 350x40mm.
Connected to the load-bearing
wall by brackets, the interface
between the tread and the
vertical element in the load-
bearing wall
- 3 Installation level for ventilation
pipes Ø-240mm
- 4 Glued laminated beam

0 5 10 20 cm

Detail Workspace area

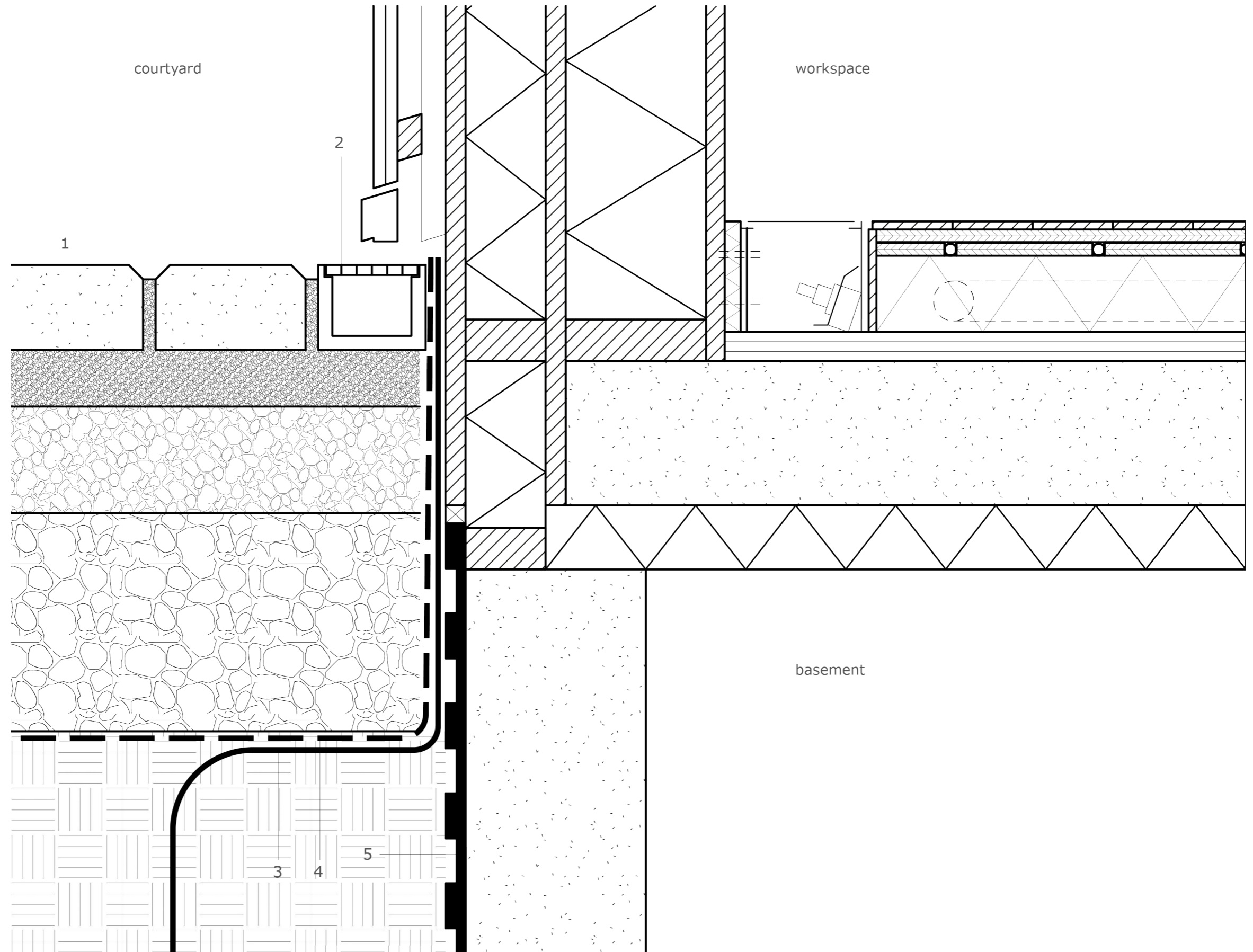


- 1 **Floor slab:**
 - Flooring, carpet 9 mm
 - Impact sound insulation 7 mm
 - Cross laminated timber, three layers
 - Cross laminated timber, five layers
 - Space in between:
 - Installation space:
 - Wood plank
 - Hollow metal rail
 - Plasterboard
 - Sound insulation, fibreglass pattern
- 2 Sprinkler



Detail

Courtyard and workspace



- 1 **Paving slab:**
 - Permeable pavers
 - Bedding course
 - Stone open-graded base
 - Stone subbase
 - Drainage geotextile on subgrade
- 2 Extended impermeable liner to bottom of foundation
- 3 Drainage gutter
- 4 Permeable subgrade
- 5 Drainage board

