

Atelier Femme

Womens Club & Shelter

Interiors Buildings Cities | Mechthild Stuhlmacher, Floris Cornelissen & Paddy Tomeson | P5

The Intimate City

Program & site

Urban strategy

Design

The Intimate City



Questions of boundaries between public and private life

The City Room
Domesticity



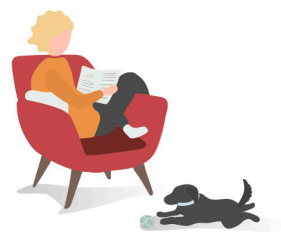
City Room



City Room



Political voice



Self actualisation



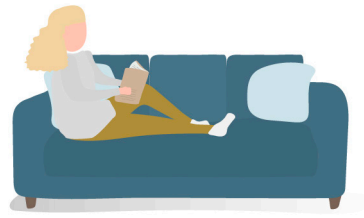
Caring role



Family unit

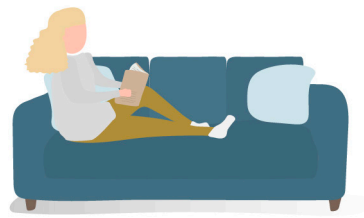


Disintegrates



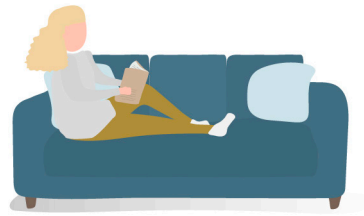


Daycare





Daycare

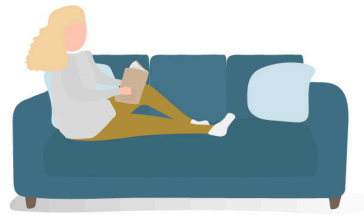


Housing





Daycare



Housing



Self actualisation



The Womens Shelter



Mutal Support System

Two Part Project

1. The Womens Club

Women for women

2. The Womens Shelter

Temporary home for single mothers

Suitable location

Private | Public



Figure ground Antwerp



Urban block



World of the street



Public life



Rendered facades



World of the Interior



School



Bare Brick



Site location



Original situation



Street side



Street view



Garden side



Garden view



Demolish vacant building



Extend garden walls

Program

The Womens Club

Reception 35 m²
5 Offices 100 m²
Salon 100 m²
Library 150 m²
Conference rooms 90 m²
Kitchen 50m²
Dining room 100m²
Bar 100 m²
Lounge 100 m²
Restrooms
SPA (wellness) : 300 m²
Changing rooms
Lockers
Sauna
Jaccuzzi
Pool
10 Guestrooms 300 m²
Staff room 50 m²

Buffer 400 m²

Total: +/- 2500m²

The Womens Shelter

Living rooms 100 m²
Dining rooms 100 m²
Kitchens 50 m²
Washing facilities 20 m²
Kids playrooms 50 m²
Study spaces 50 m²
Resident rooms 400 m²
Guestrooms 150 m²
Storage
Offices 100 m² each
Workshop rooms 200 m²
Meeting rooms 150 m²
Childrens daycare 400 m²

Buffer 400 m²

Total: +/- 2200 m²

Urban Strategy



Original Situation



3 Layers



Street



Back yard



Garden



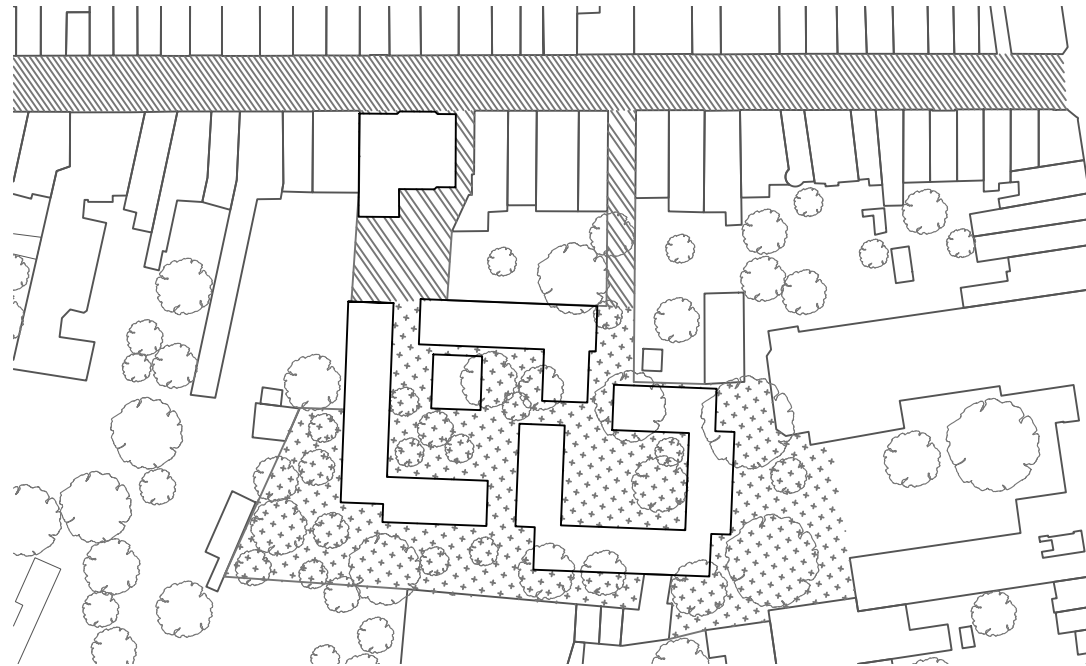
Club
Mother Building
Completing street line



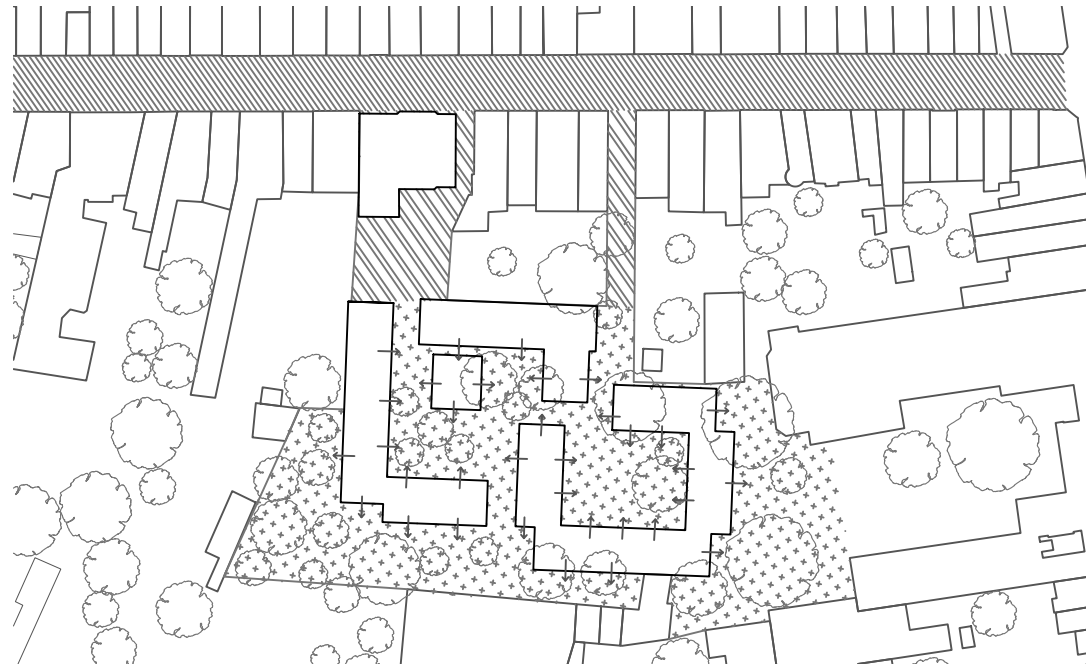
Club

Mother Building

Relationship to street and back yard



Shelter
Children pavillions
Shaping gardens



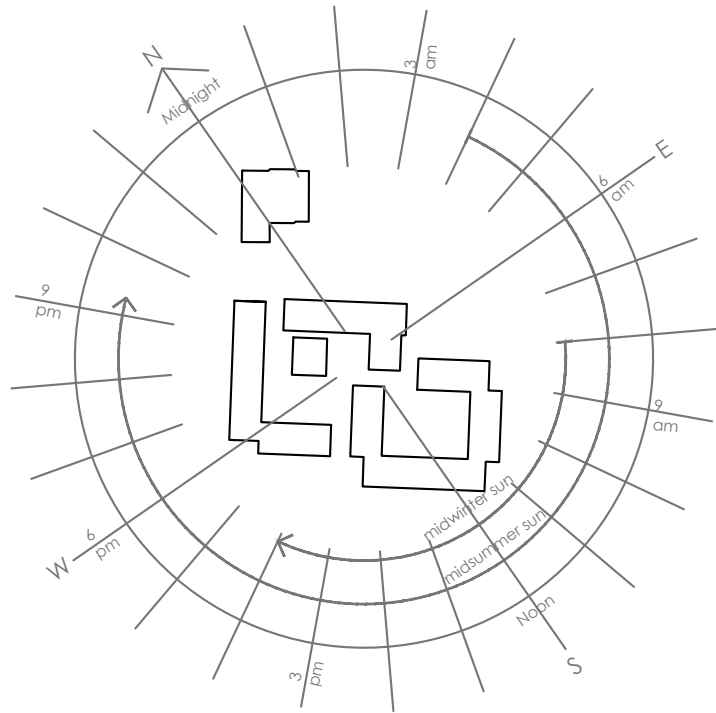
Shelter

Daughter pavilions
Relationship to gardens and each other



Route

U-connection all layers






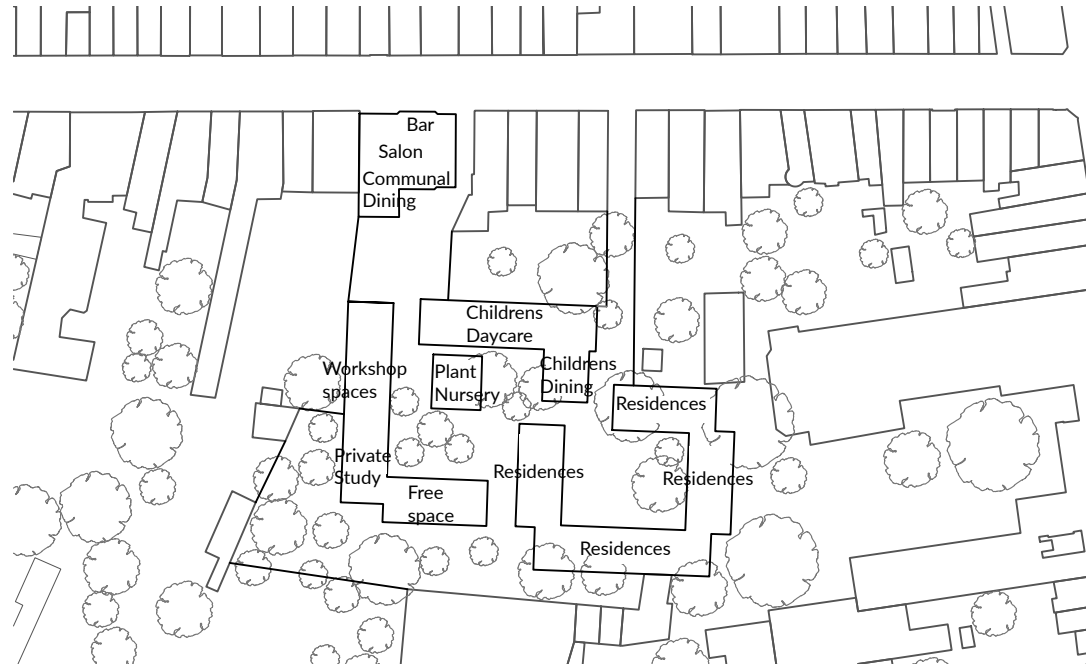
Sundiagram

Sun path & trees



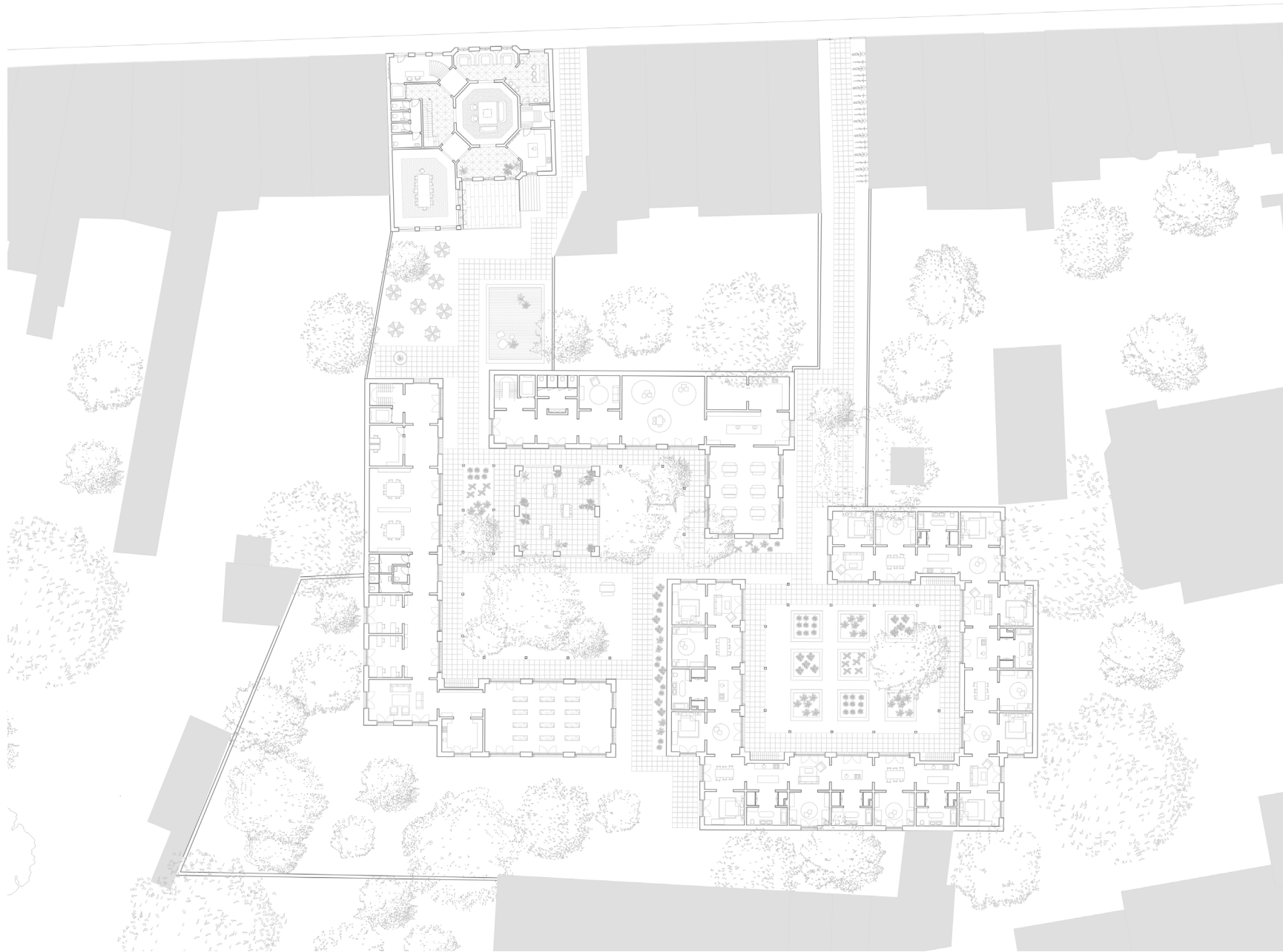
Layers of privacy

-  Public
-  Semi-public
-  Private



Program

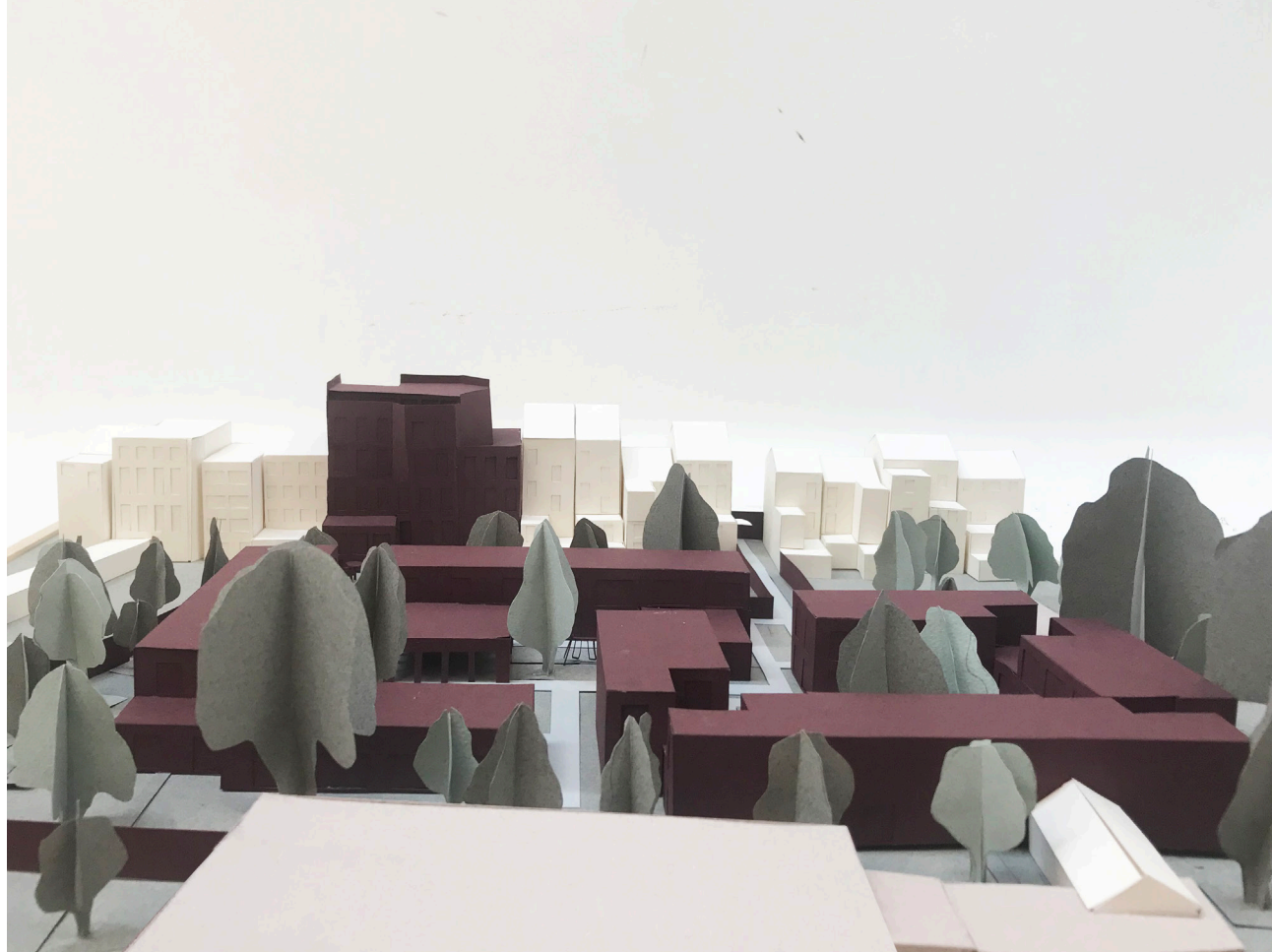
Communal functions shared through club, workshop & daycare



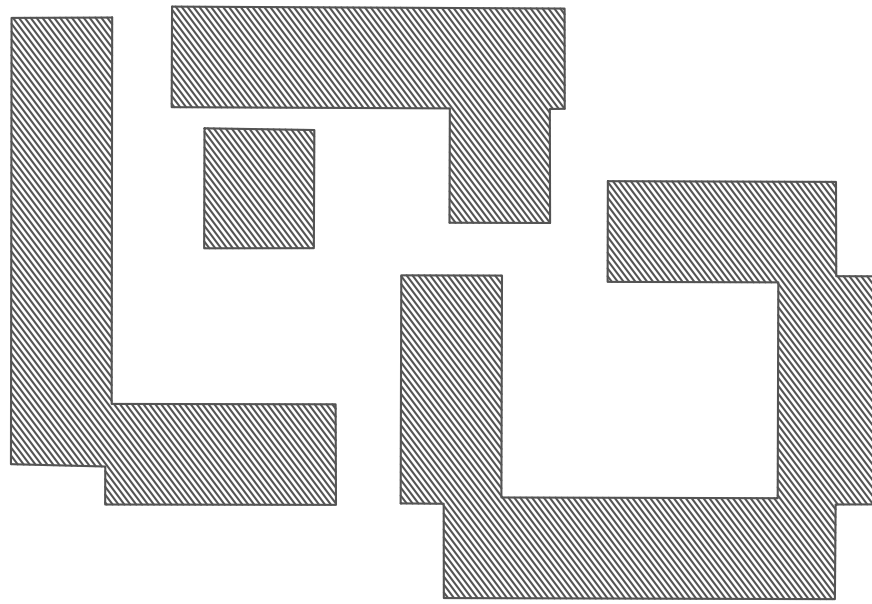
Total plan



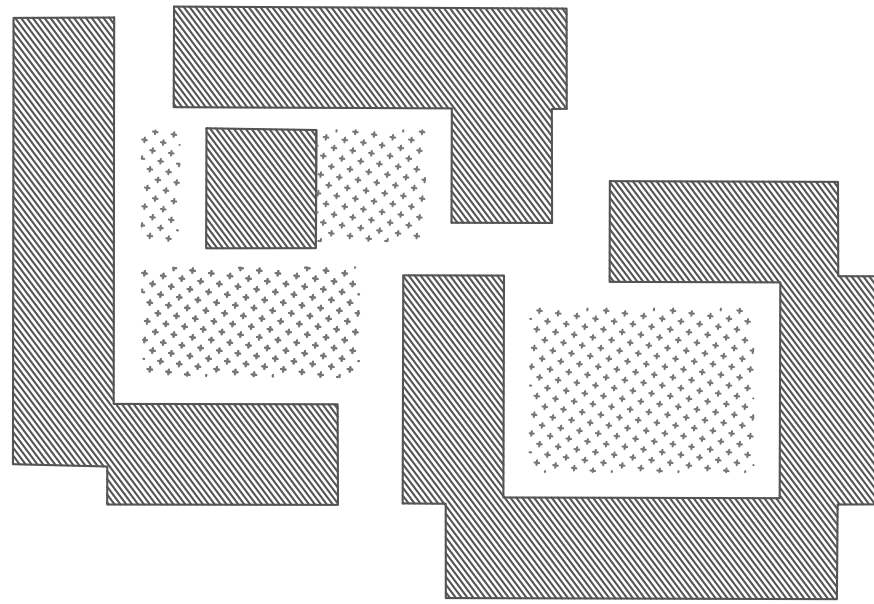
Total plan section



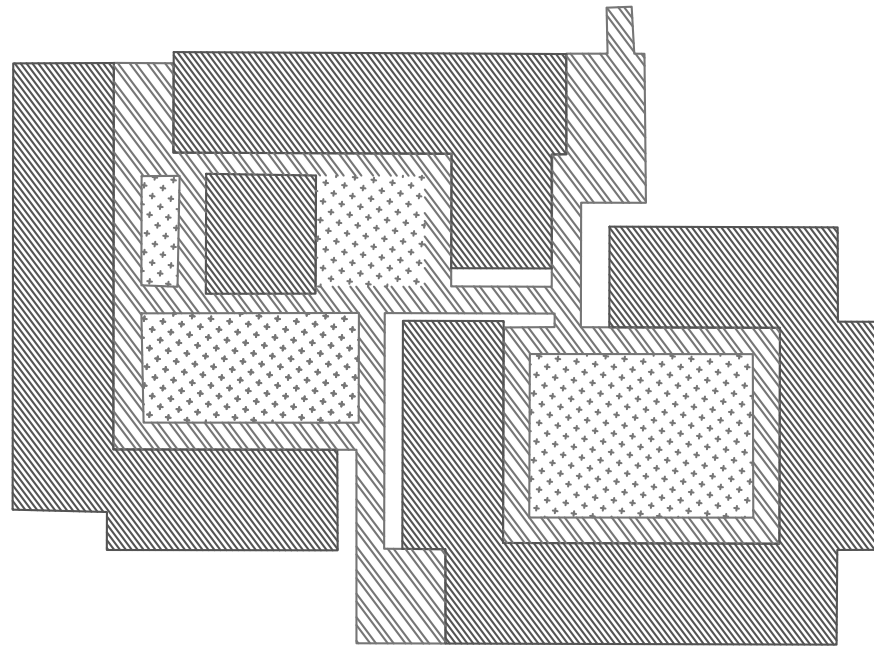
The Womens Shelter



L-shaped pavilions enclosing gardens



Gardens each with different form and program



Partially covered tiled path connecting all buildings



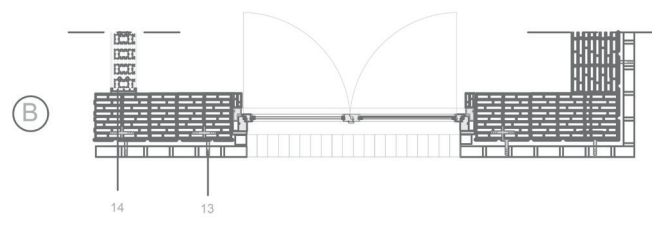
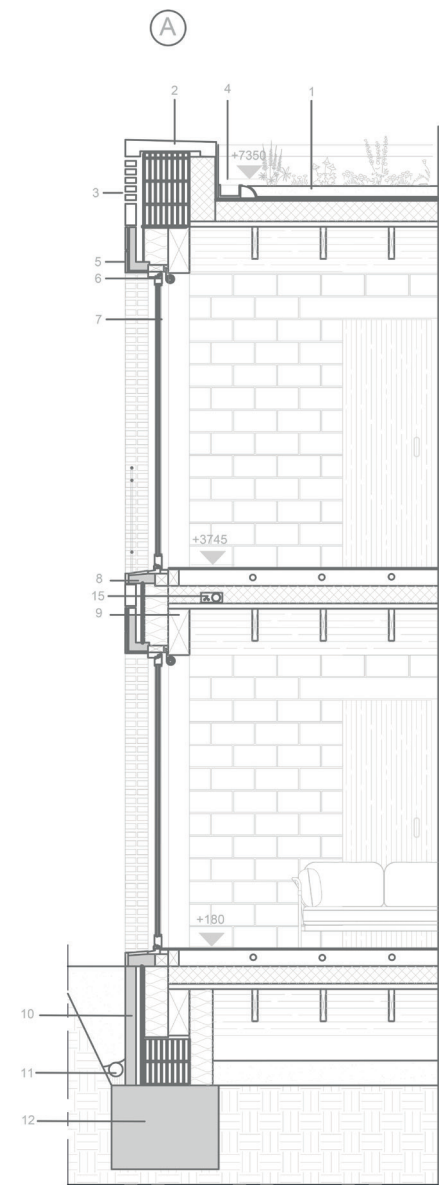
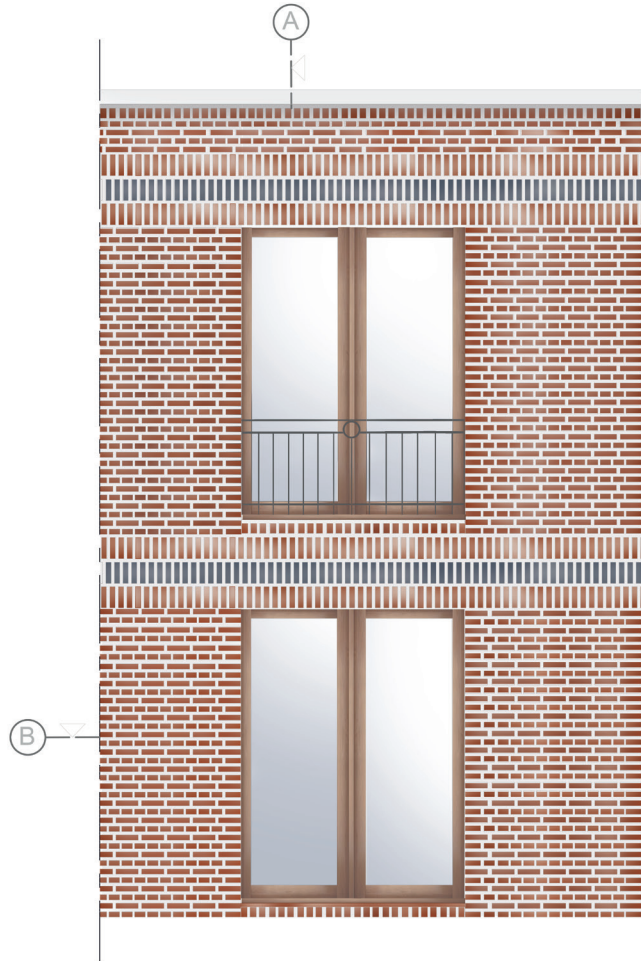


Groundfloor plan



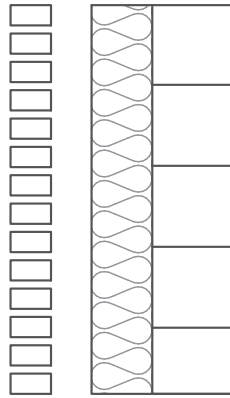
Firstfloor plan





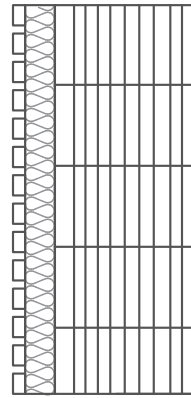
Detailing

Snelbouwsteen

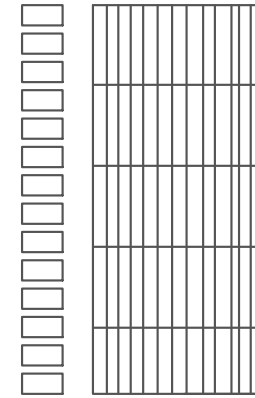


Traditional cavity wall
 $R_c = 3,7$

Poroton



Poroton with stone strips
 $R_c = 3,7$

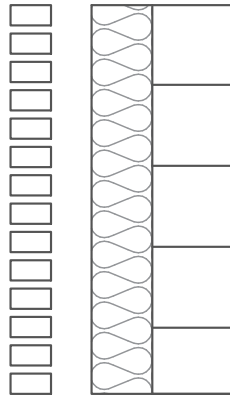


Poroton uninsulated cavity wall
 $R_c = 3,5$

R_c minimum = 3,4

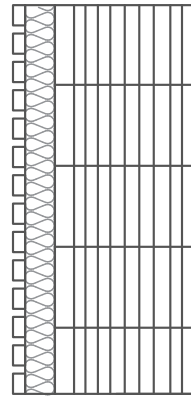
Structural considerations

Snelbouwsteen



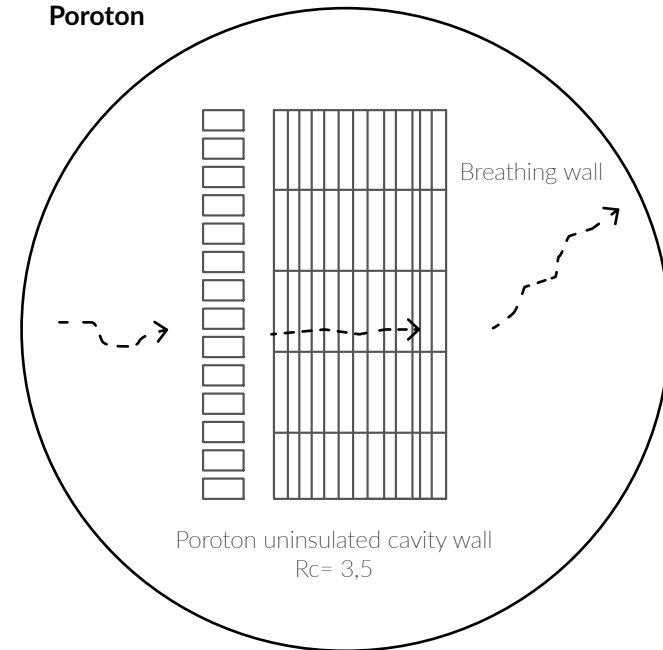
Traditional cavity wall
 $R_c = 3,7$

Poroton



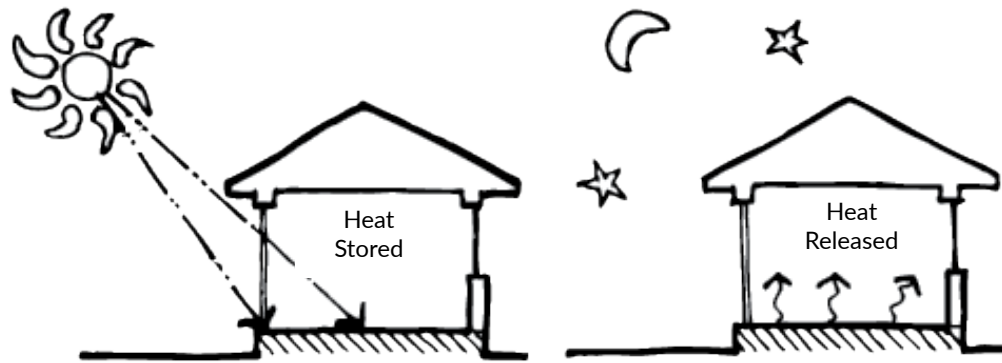
Poroton with stone strips
 $R_c = 3,7$

R_c minimum = 3,4



Poroton uninsulated cavity wall
 $R_c = 3,5$

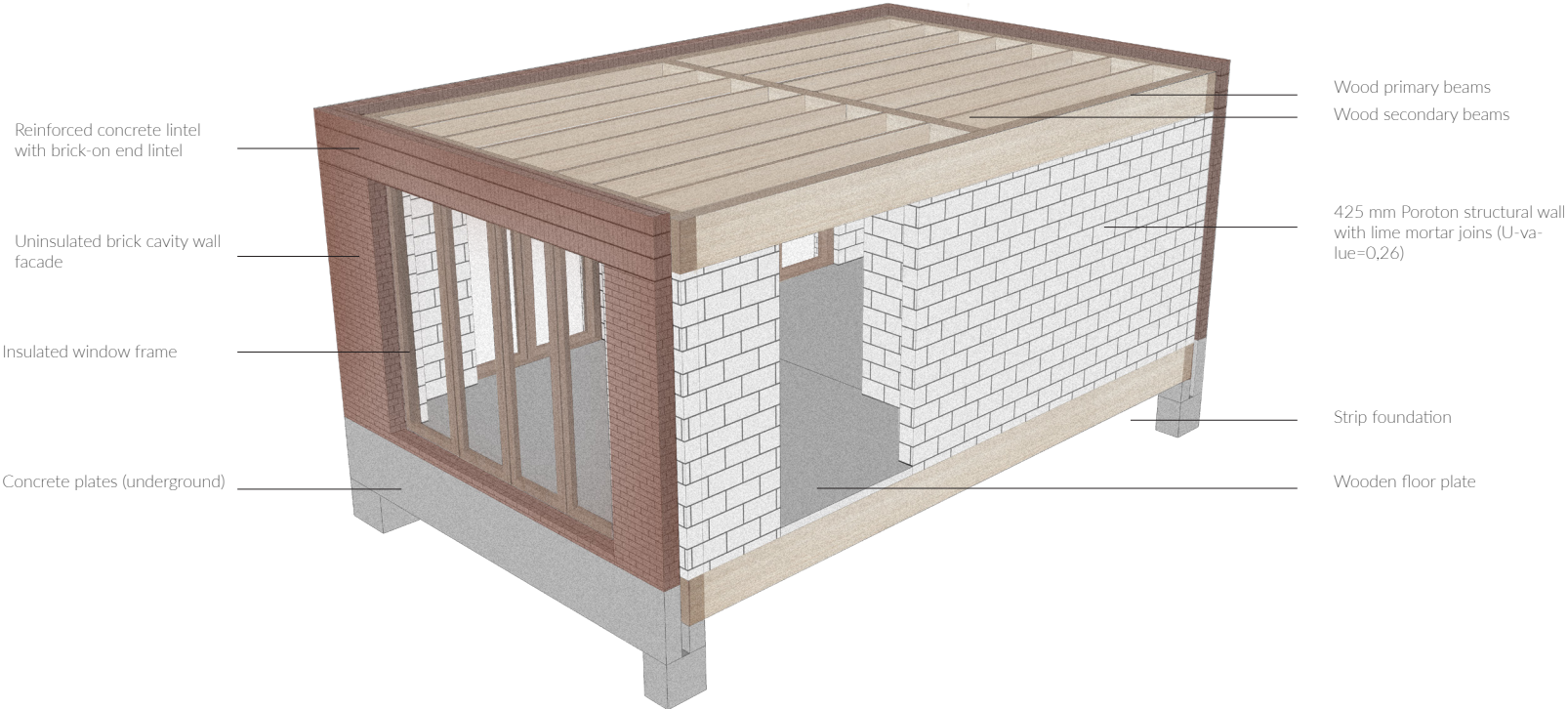
Structural considerations



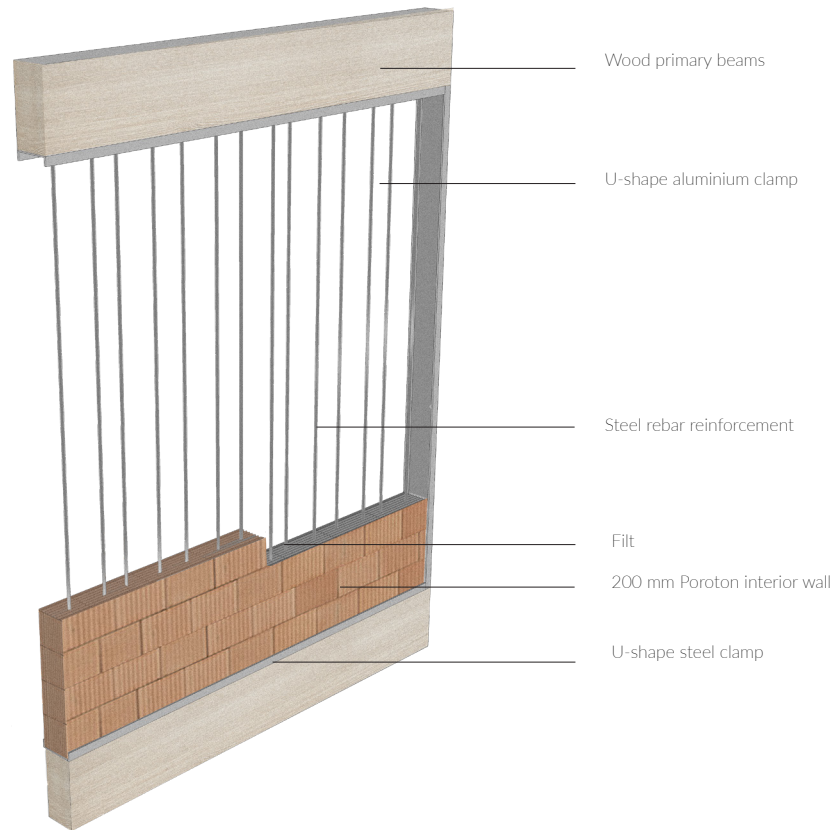
Thermal Mass principle

Facade

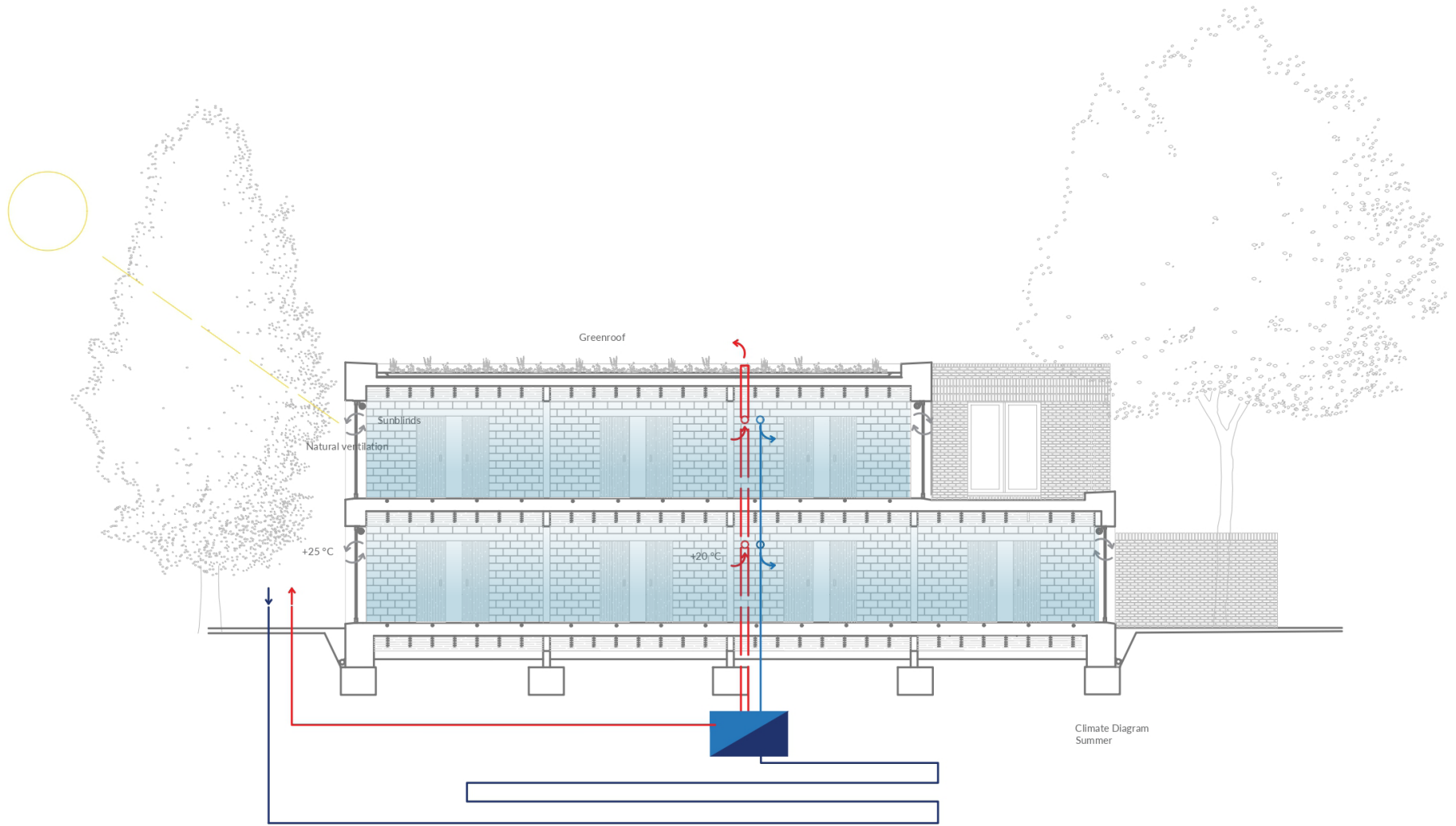
Structure



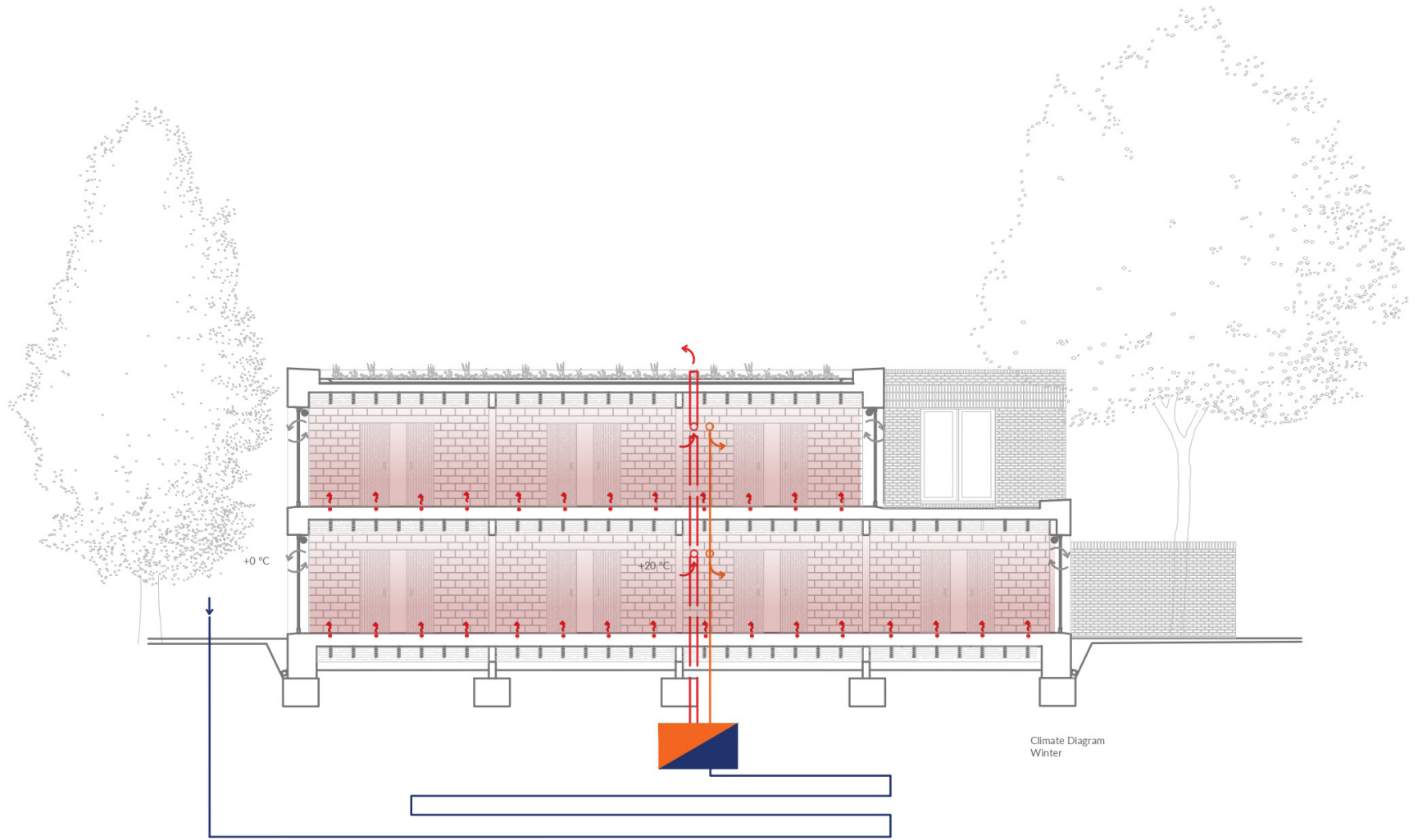
Structural principle



Structural principle

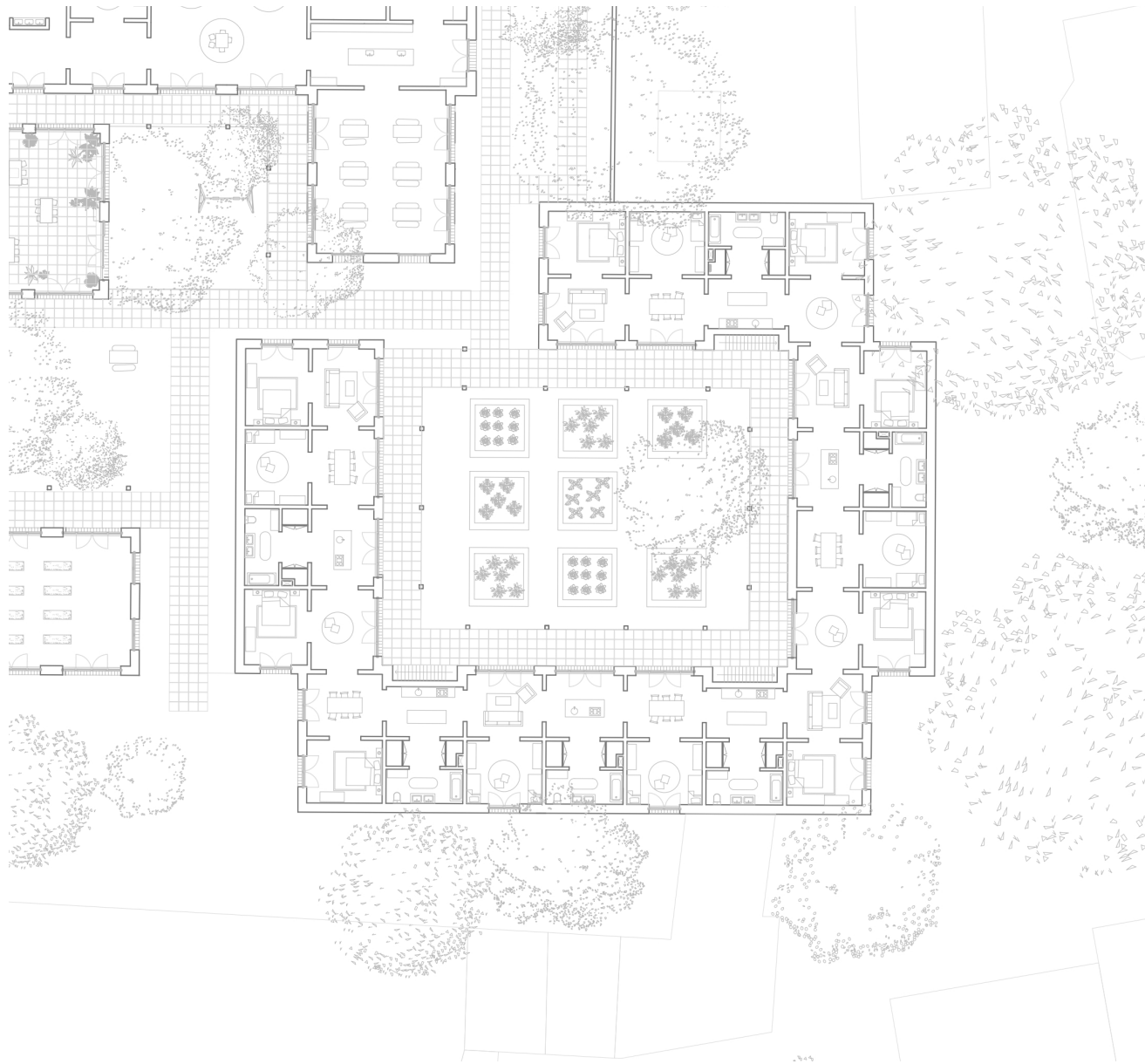


Climate scheme
Summer



Ventilation with heat recovery unit &
ground heat exchanger
Constant floor heating

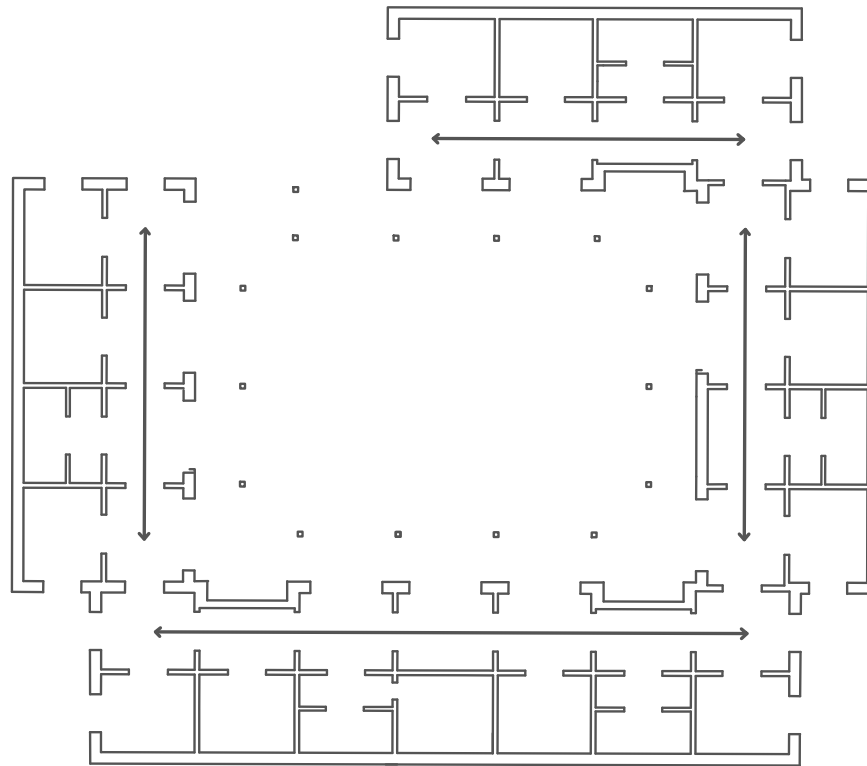
Climate scheme Winter



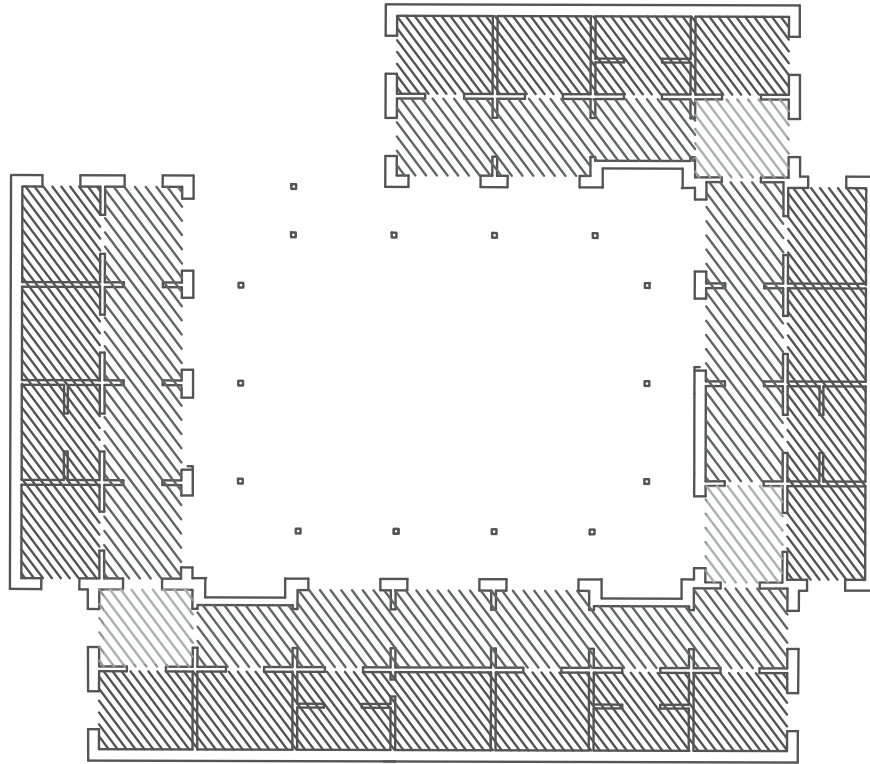
Groundfloor plan residences








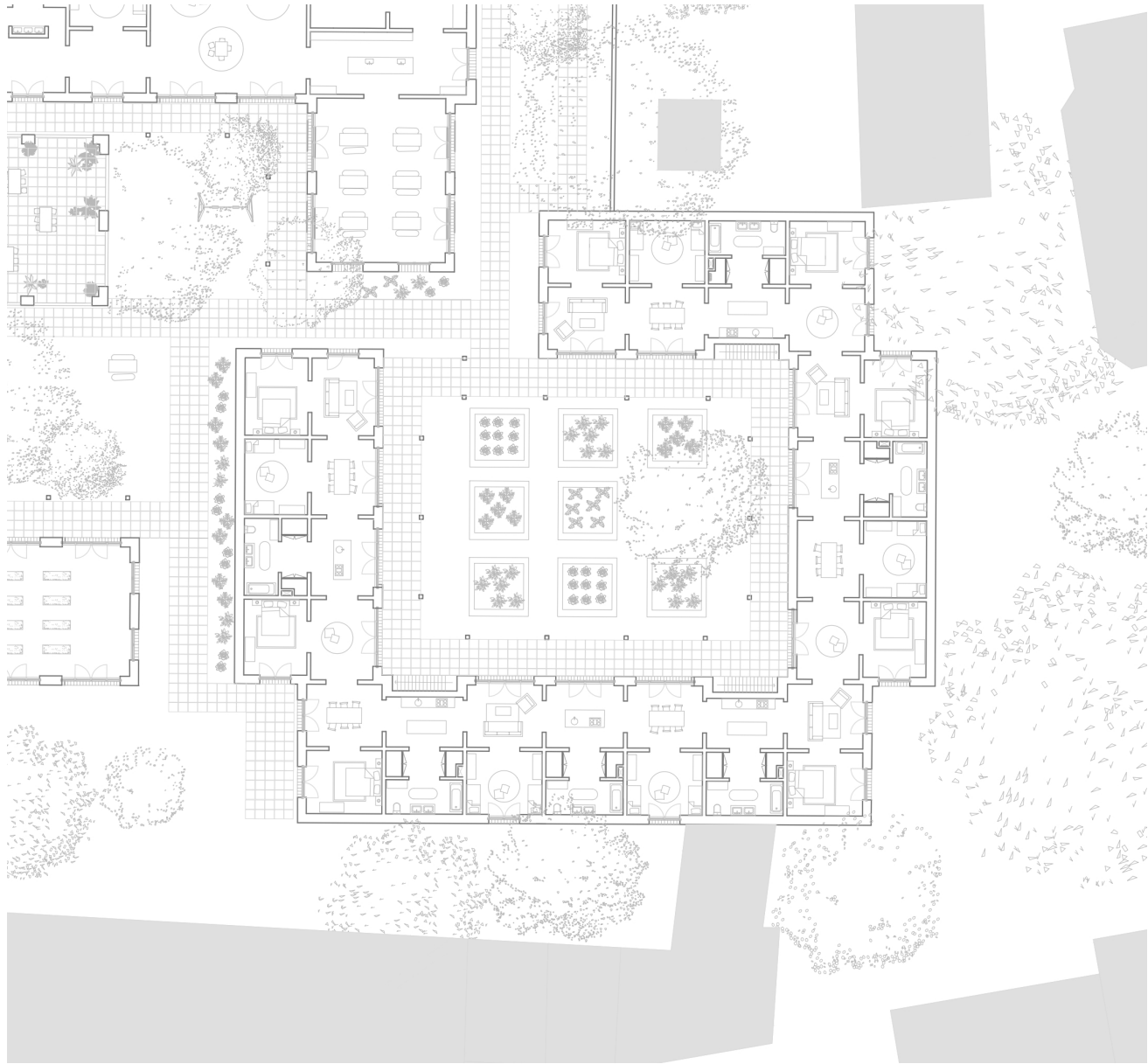


Sequence of connected rooms



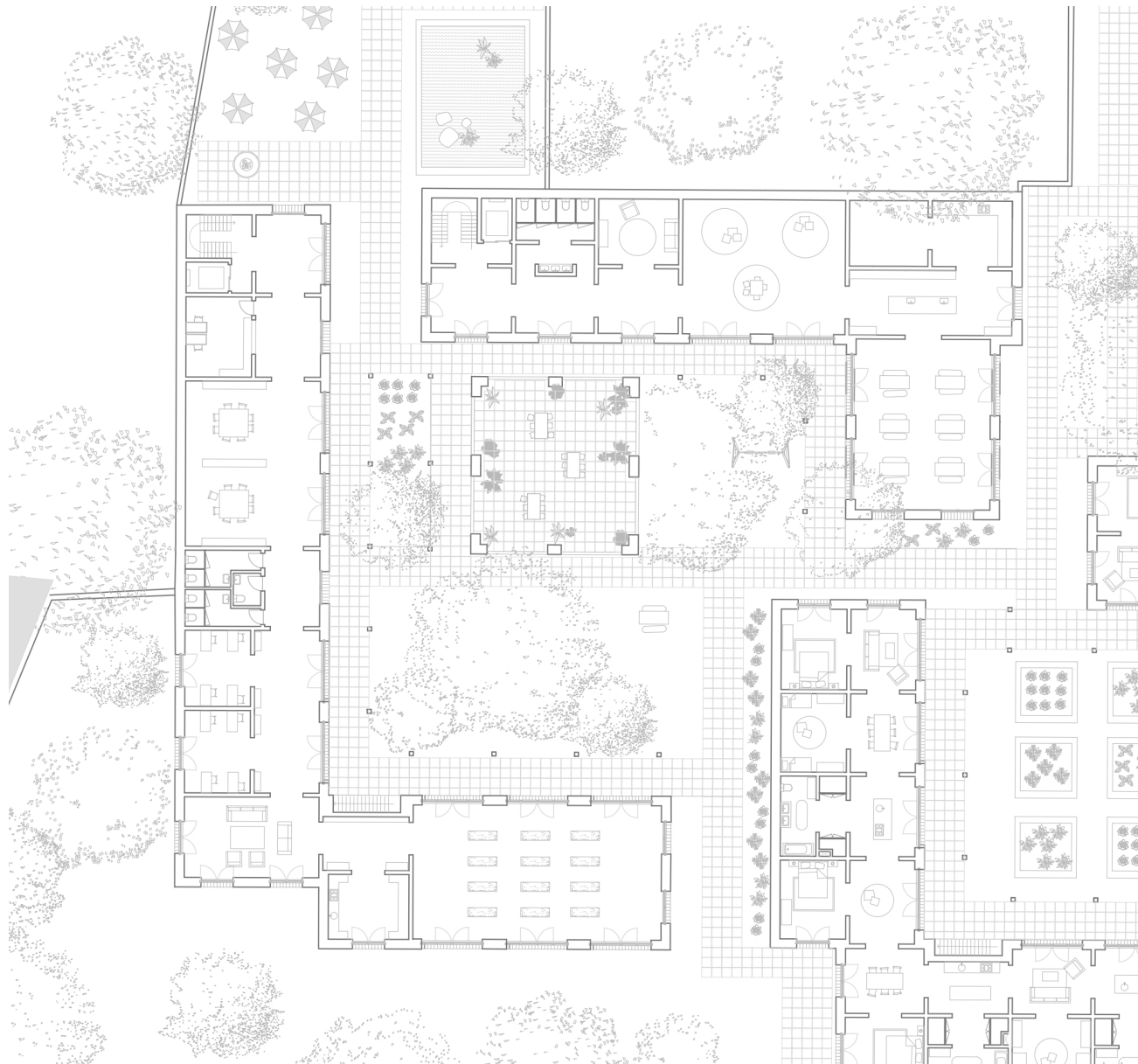
Layers of privacy

-  Private spaces
-  Living spaces
-  Communal spaces



Groundfloor plan residences





Groundfloor plan daycare & residences

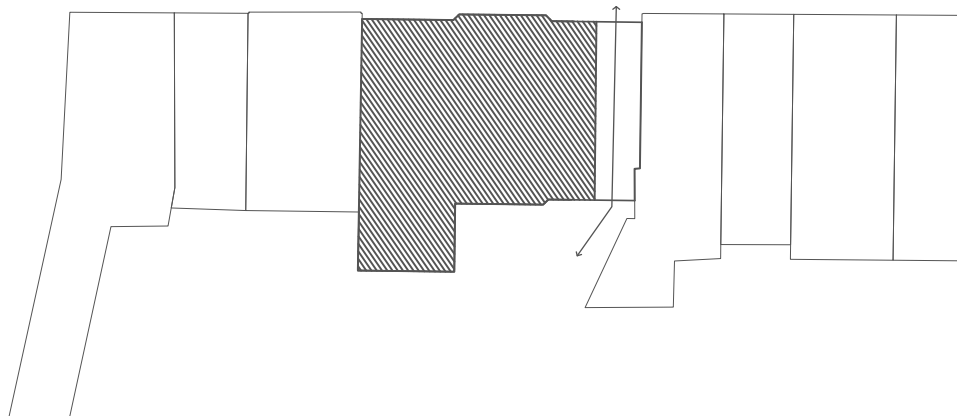




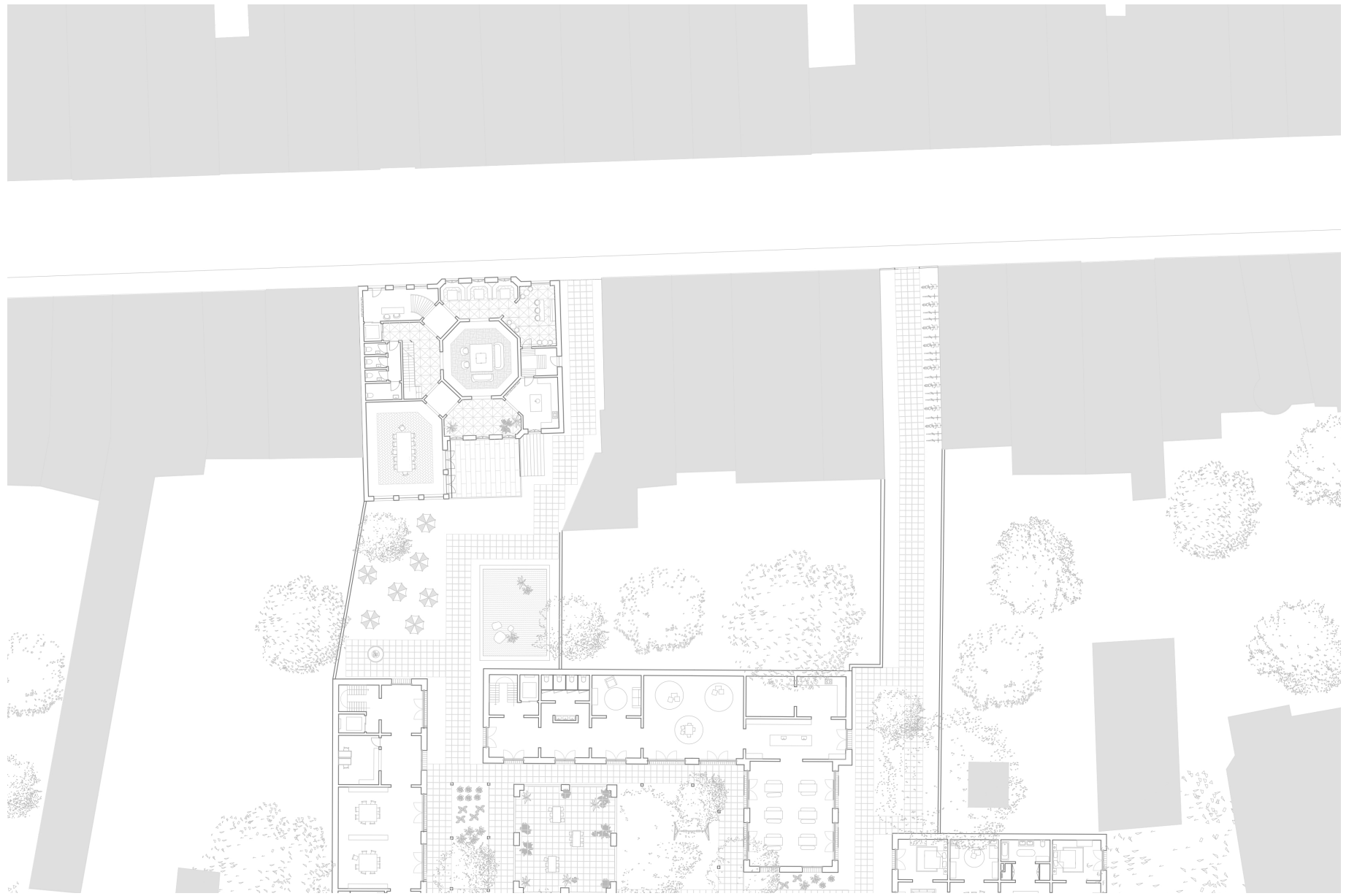
The Womens Club



Filling in street line



Gate making front back connection



Groundfloor plan





Facade





Detailing



Facade

Reinforced concrete lintel
with brick-on end lintel

Uninsulated brick cavity wall
facade

Insulated double layer window
frame: Aluminium

Stone window sill

Concrete plates (underground)

Structure

Reinforced concrete beams

Concrete lintels

425 mm Poroton structural wall
with lime mortar joints (U-value=0,26)

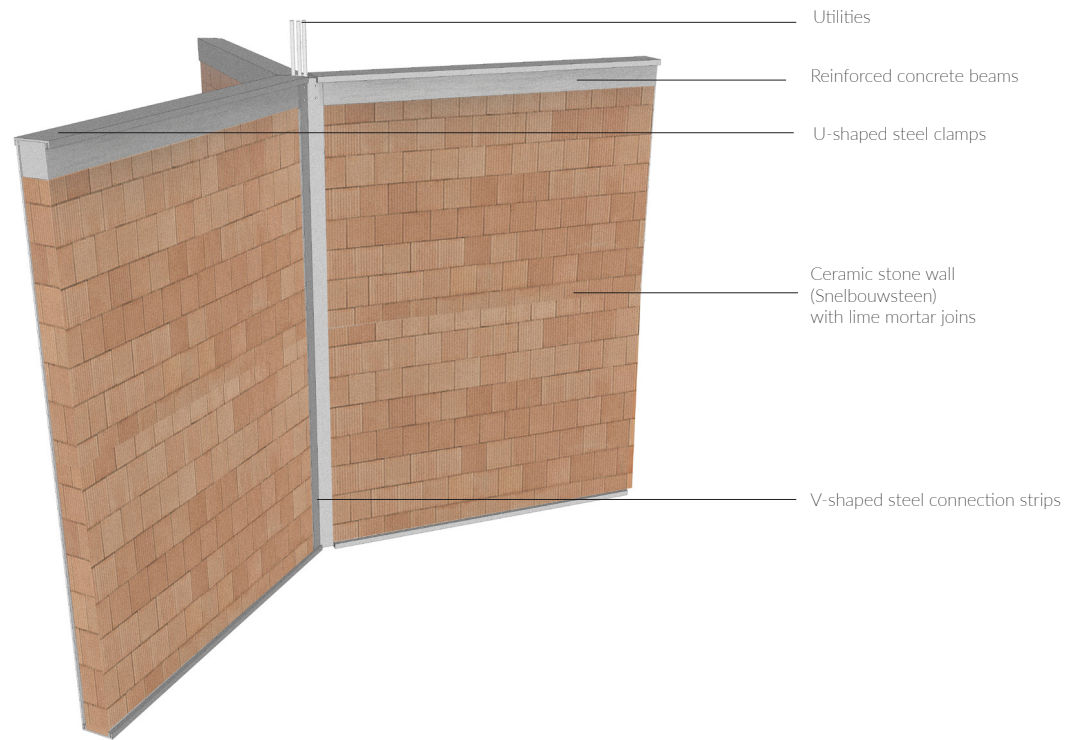
Concrete hollow core slabs

Concrete structural walls
(underground)

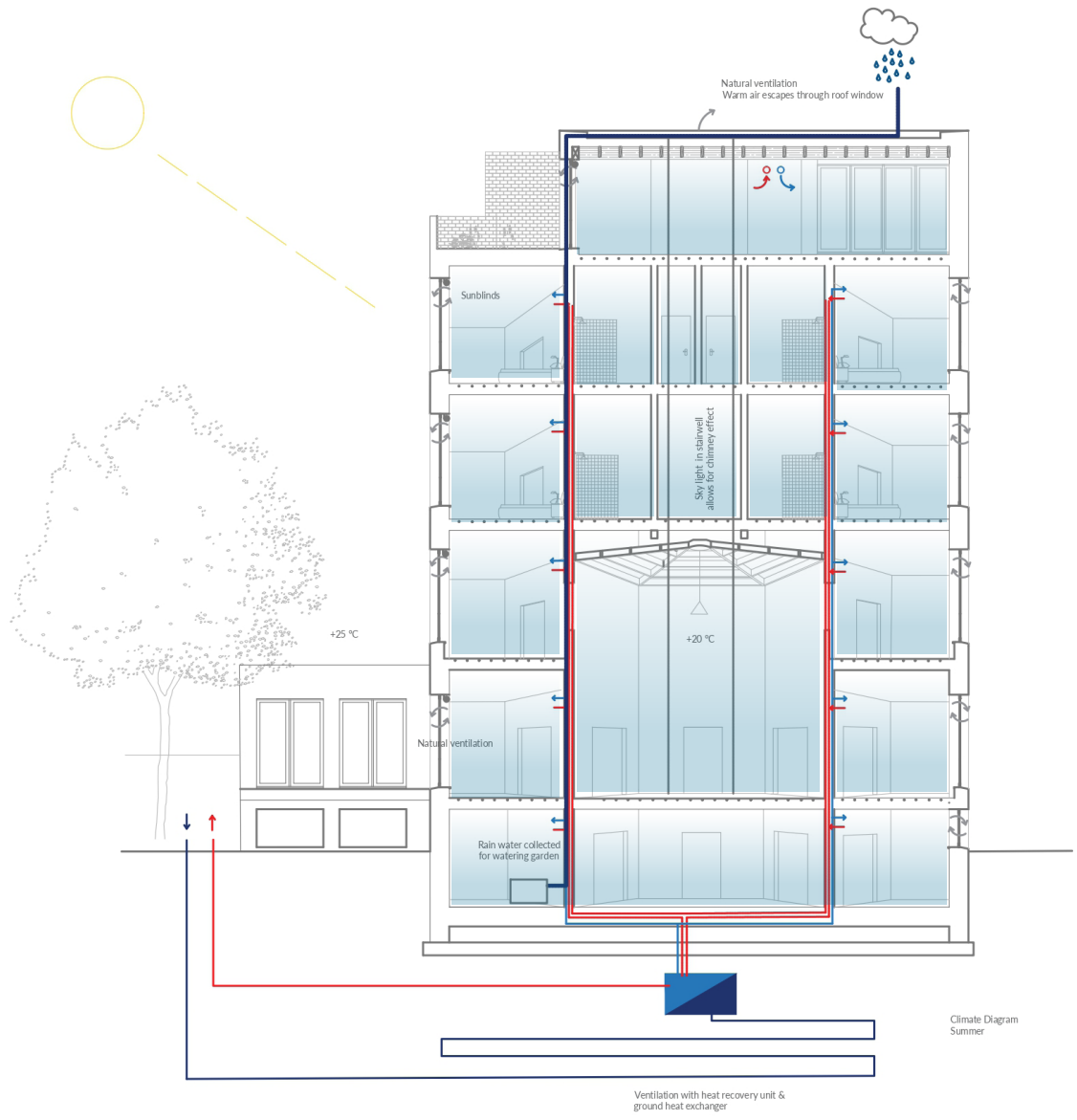
Pad foundation



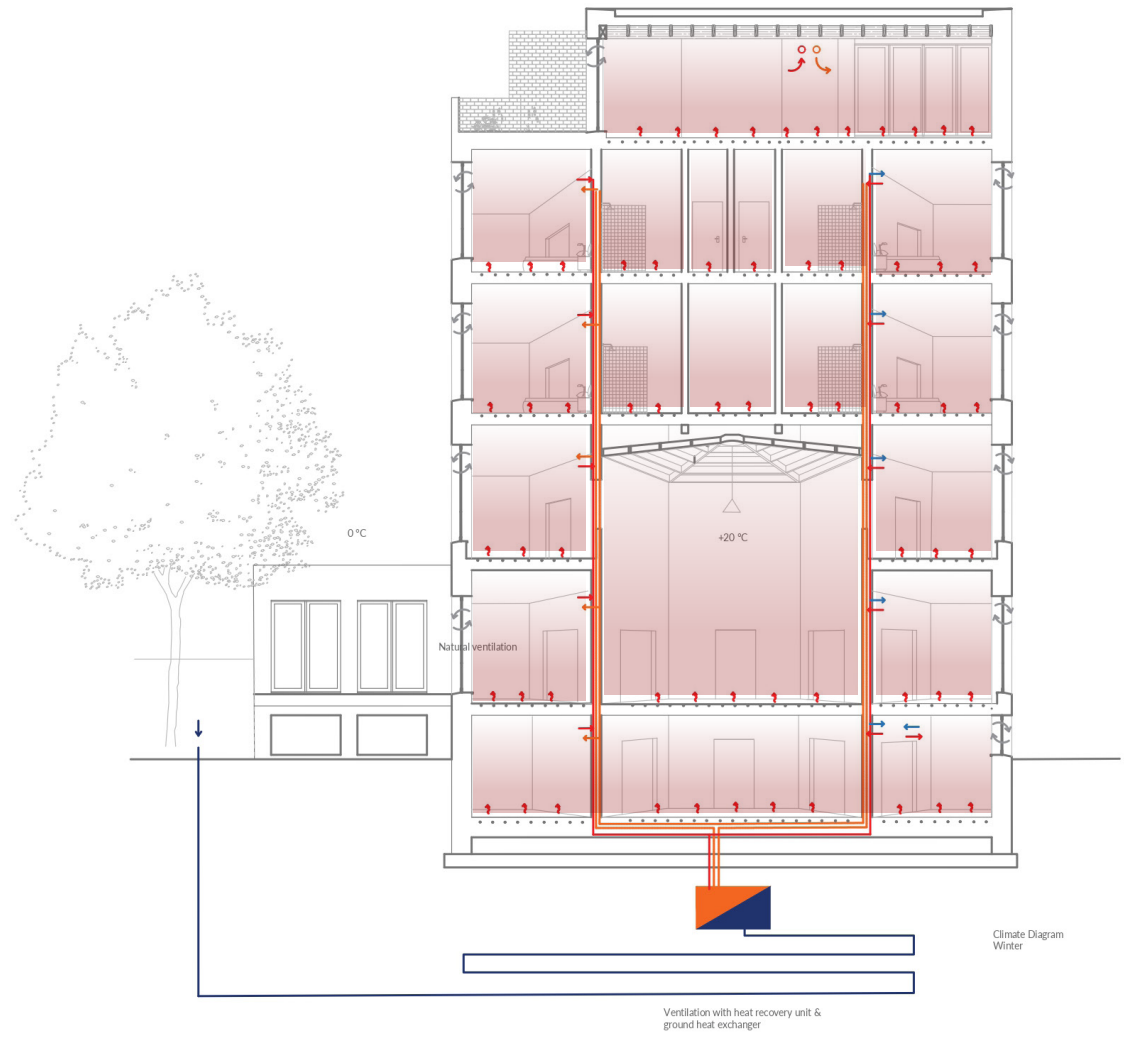
Structural principle



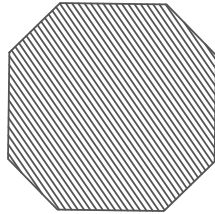
Structural principle



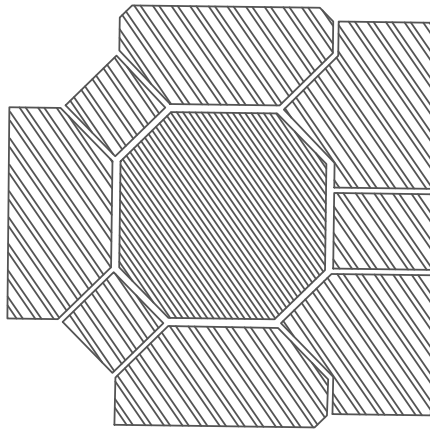
Climate scheme
Summer



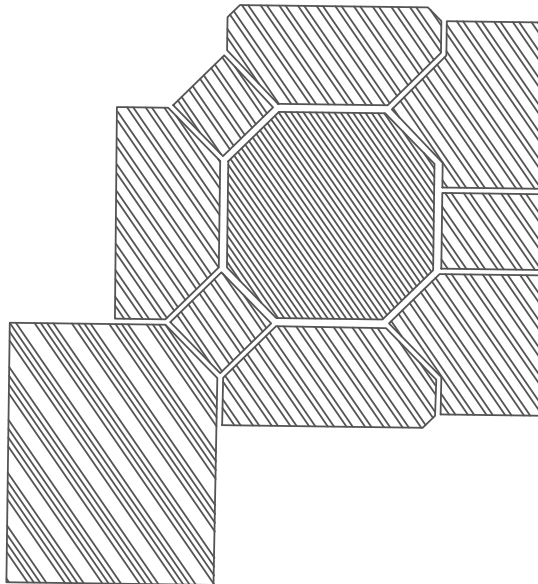
Climate scheme
Winter



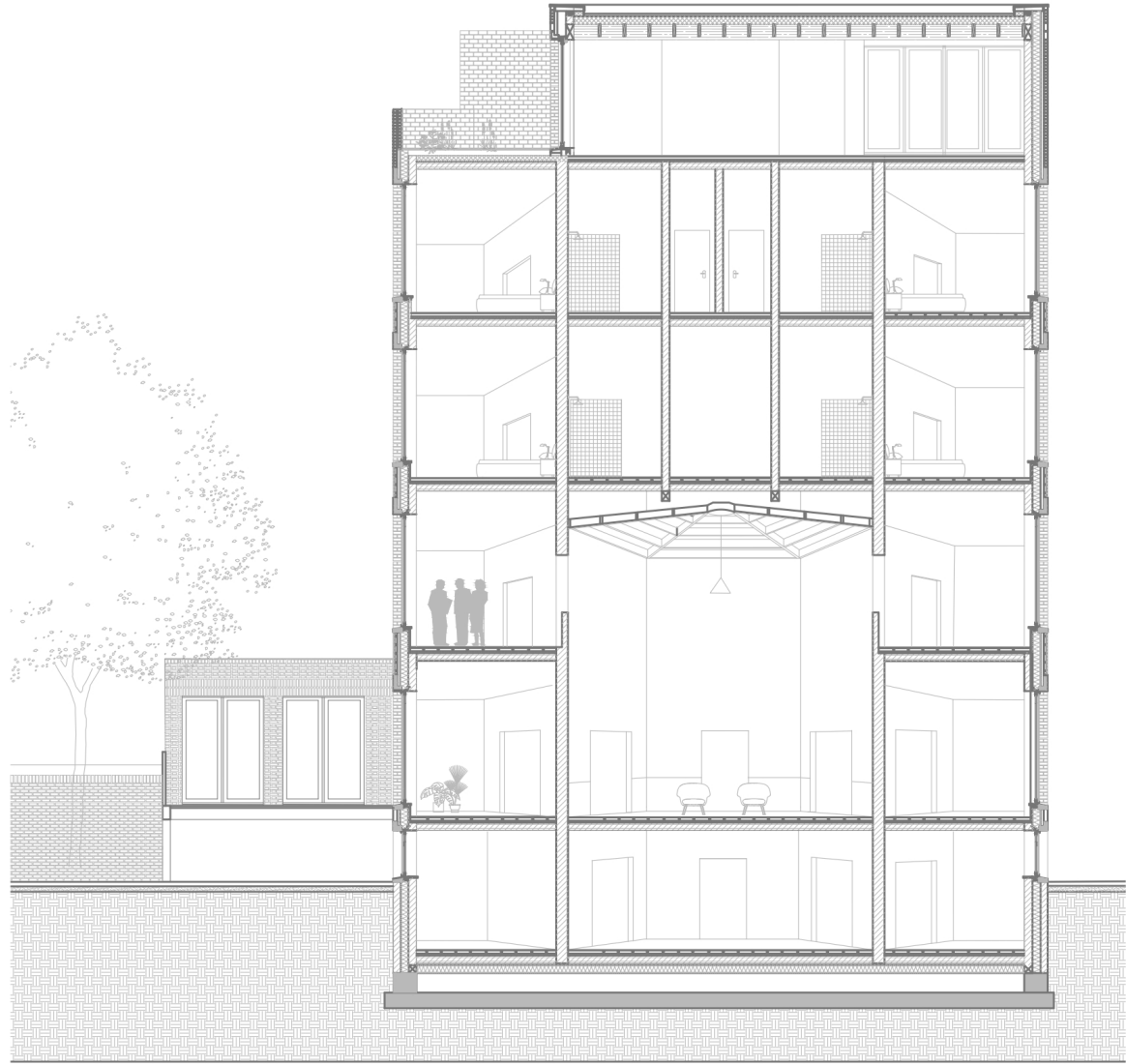
Octagonal central room



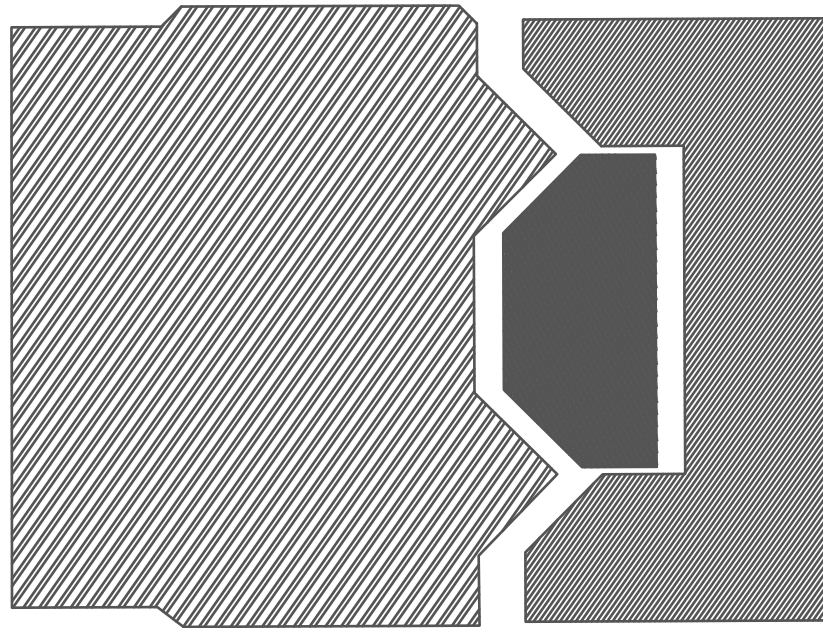
Rooms shaped around centre



Backside reaching out into garden



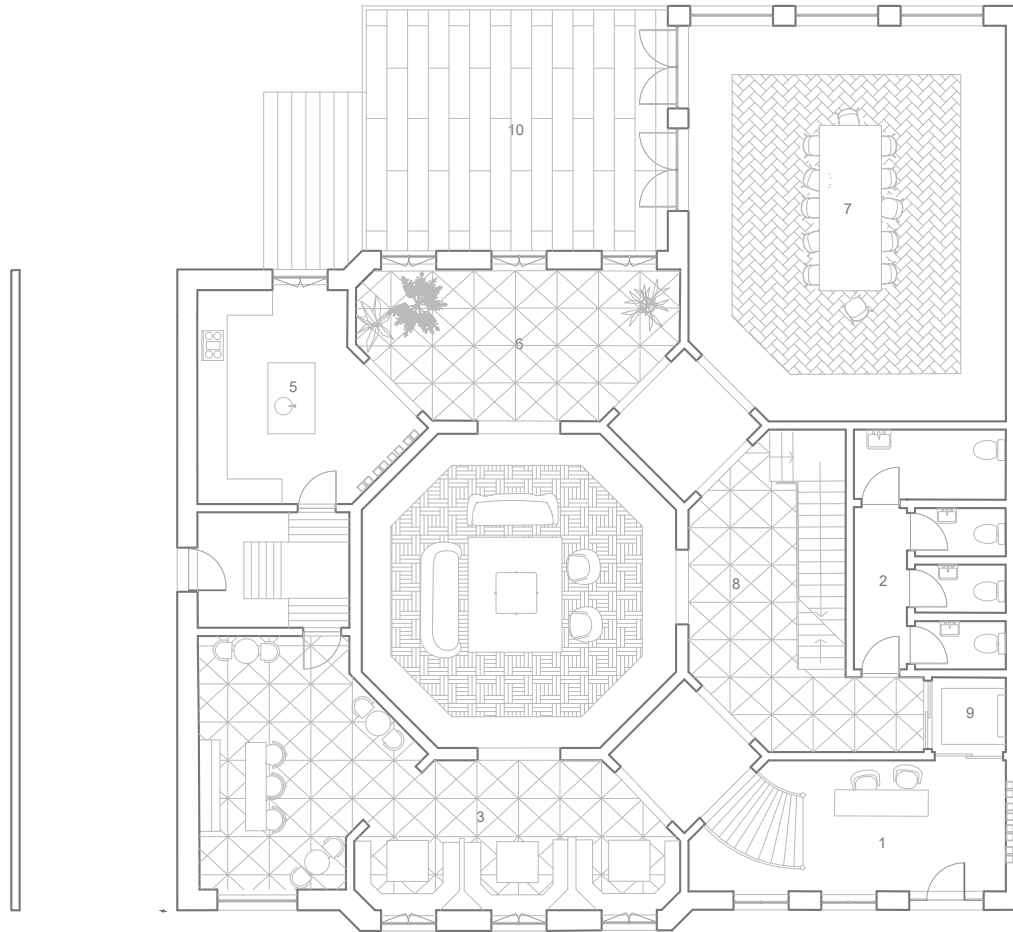
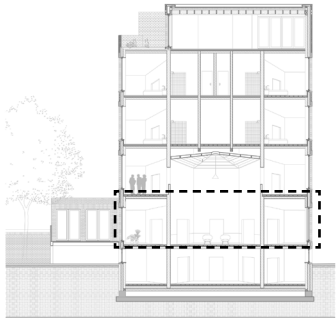
Latitudinal section



Programmatic scheme

-  Work spaces & utilities
-  Central staircase
-  Leisure spaces



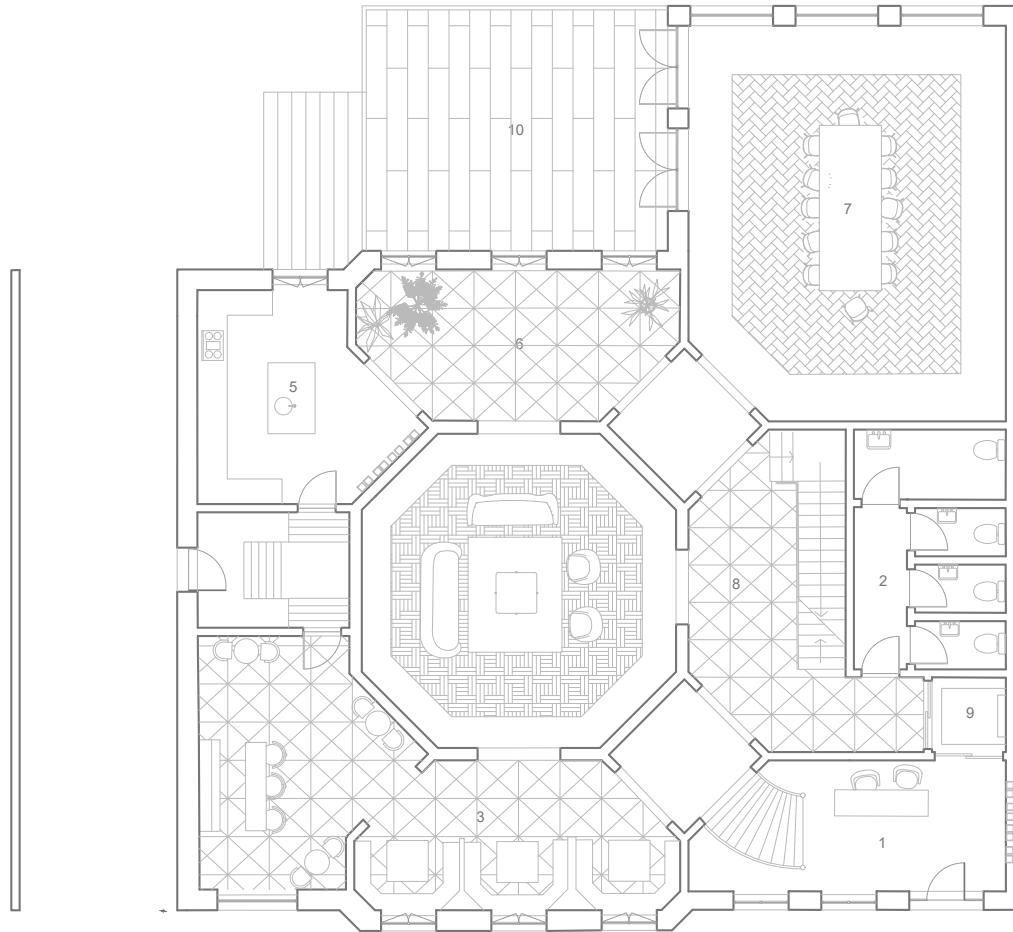
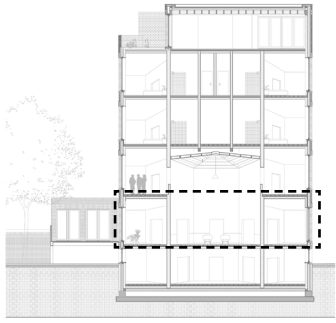


Groundfloor Plan
1:100

- 1. Entrance
- 2. Lavatories
- 3. Bar
- 4. Salon
- 5. Kitchen
- 6. Gardenroom
- 7. Diningroom
- 8. Hall
- 9. Elevator
- 10. Patio

Ground floor



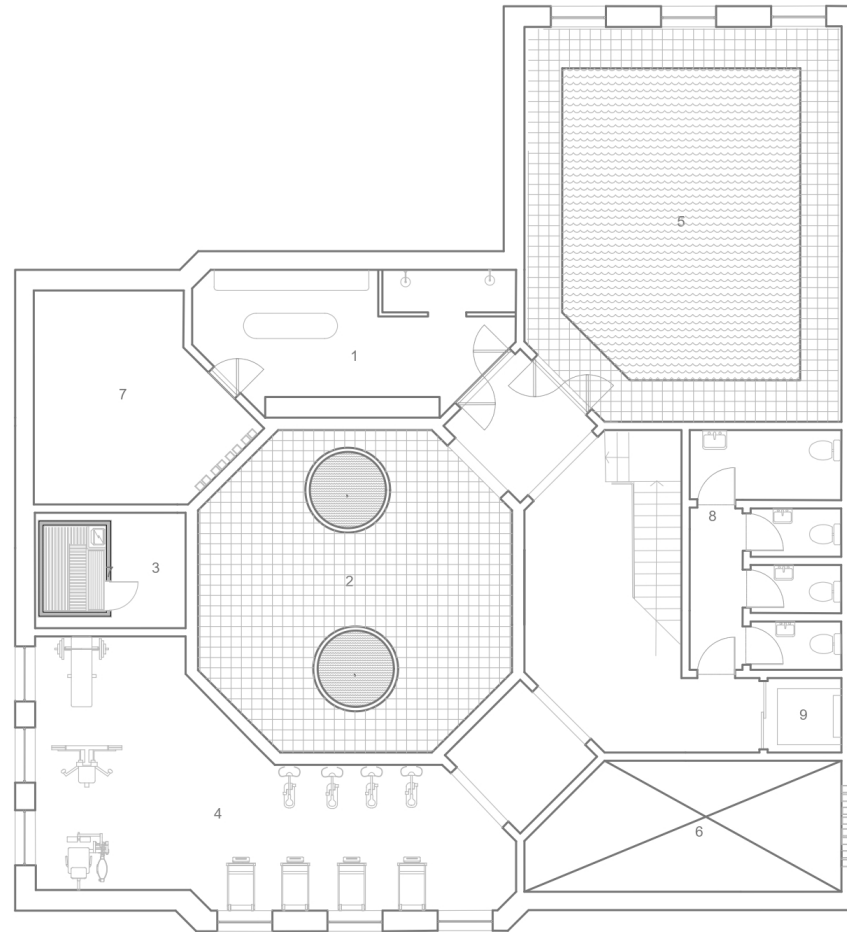
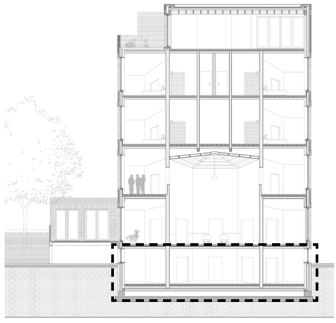


Groundfloor Plan
1:100

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Ground floor

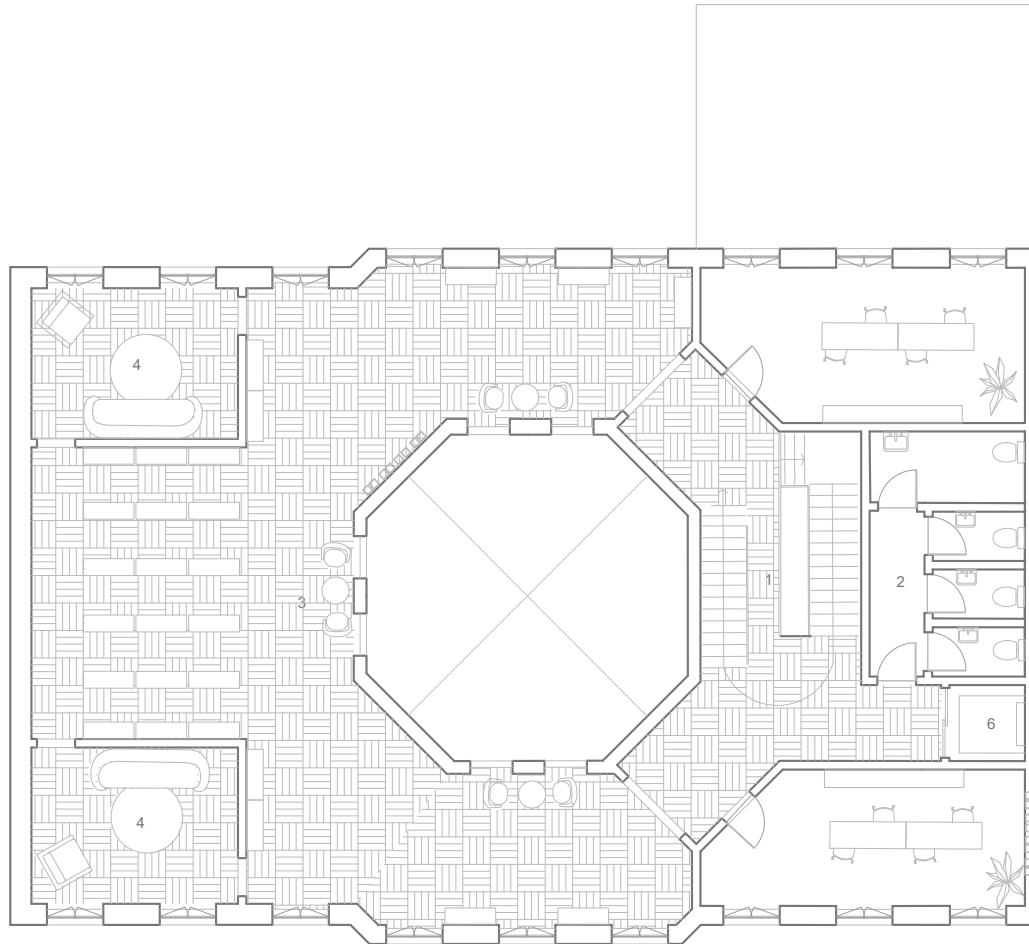
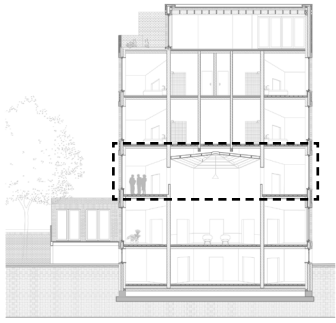




Souterrain Plan
1:200

- 1.Changingrooms
- 2.Jacuzzi
- 3.Sauna
- 4.Fitness
- 5.Pool
- 6.Storage
- 7.Technical Room
- 8.Lavatories
- 9.Elevator

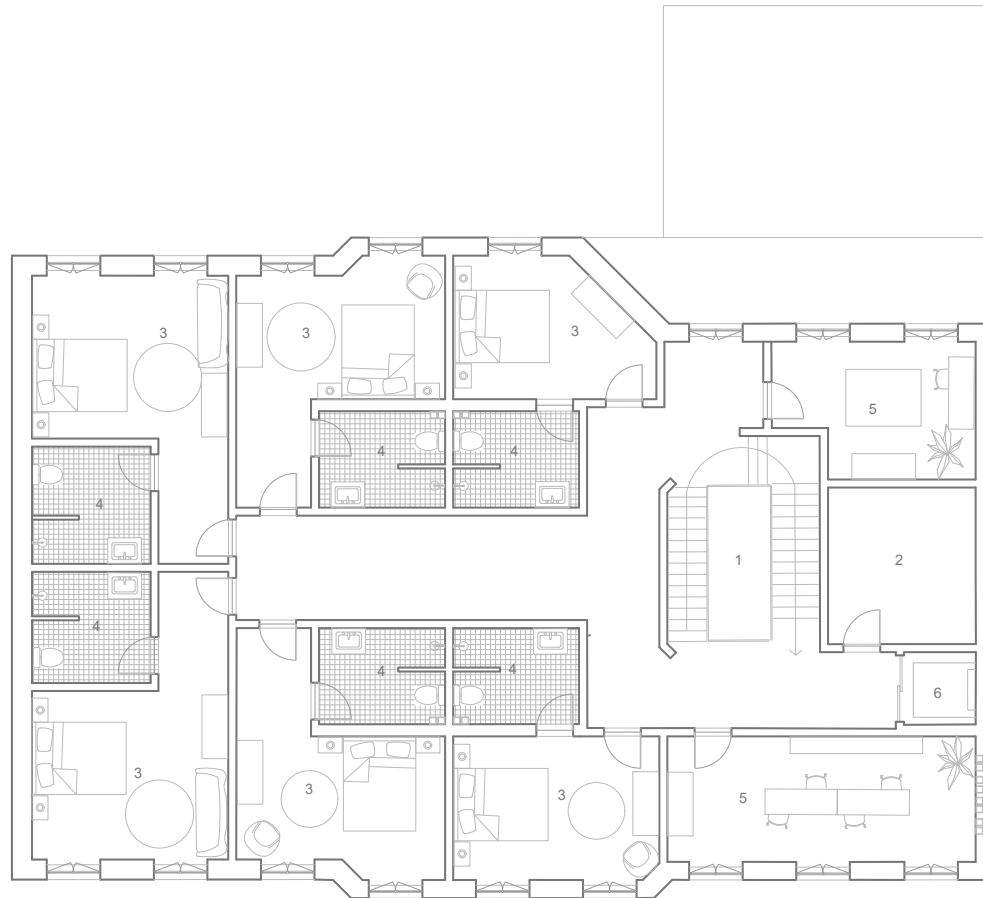
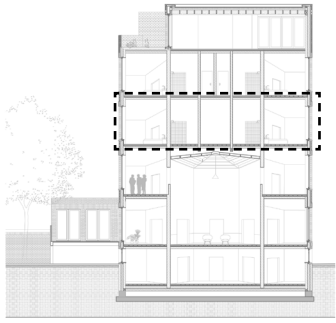
Souterrain



1st floor Plan
1:100

- 1. Stairwell
- 2. Lavatories
- 3. Library
- 4. Private reading space
- 5. Office
- 6. Elevator

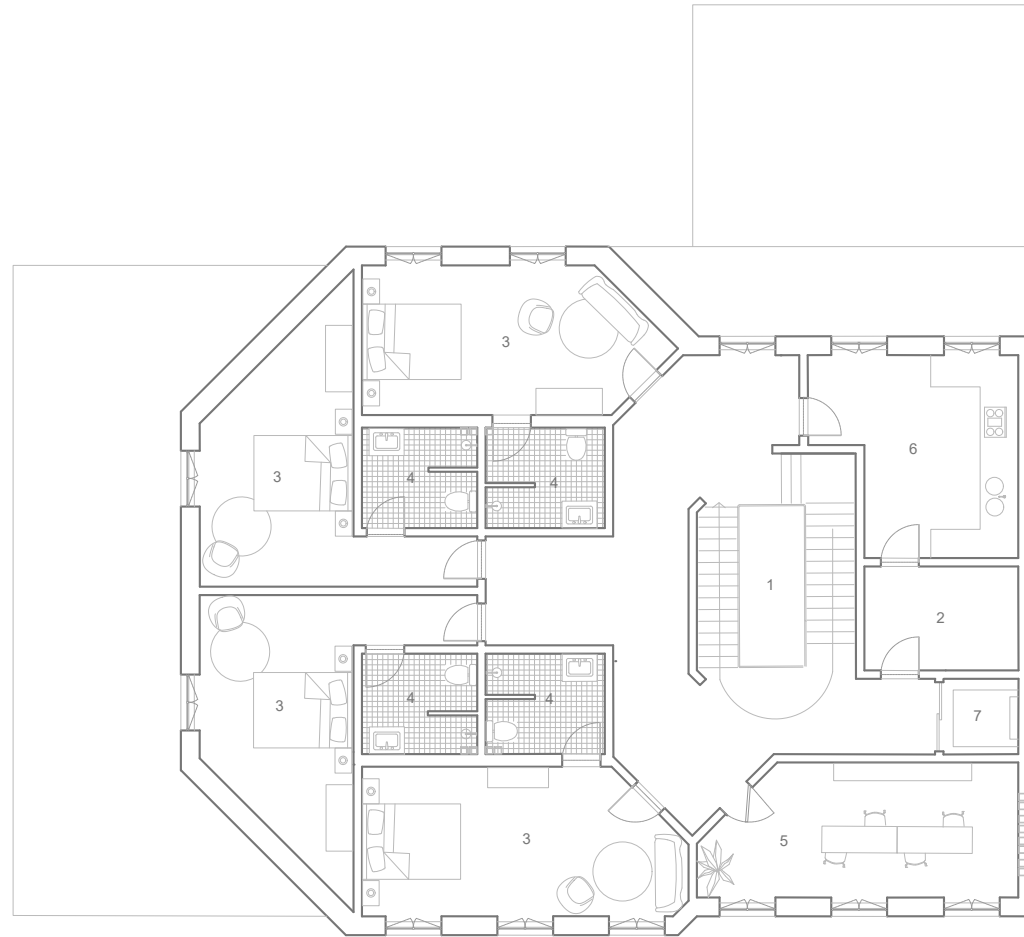
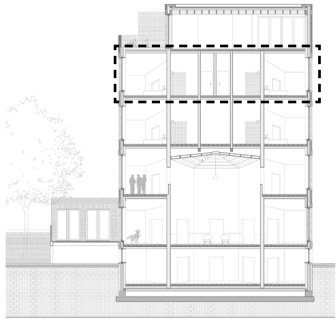
First floor



2nd floor Plan
1:100

- 1. Stairwell
- 2. Linenroom
- 3. Guestroom
- 4. Bathroom
- 5. Office
- 6. Elevator

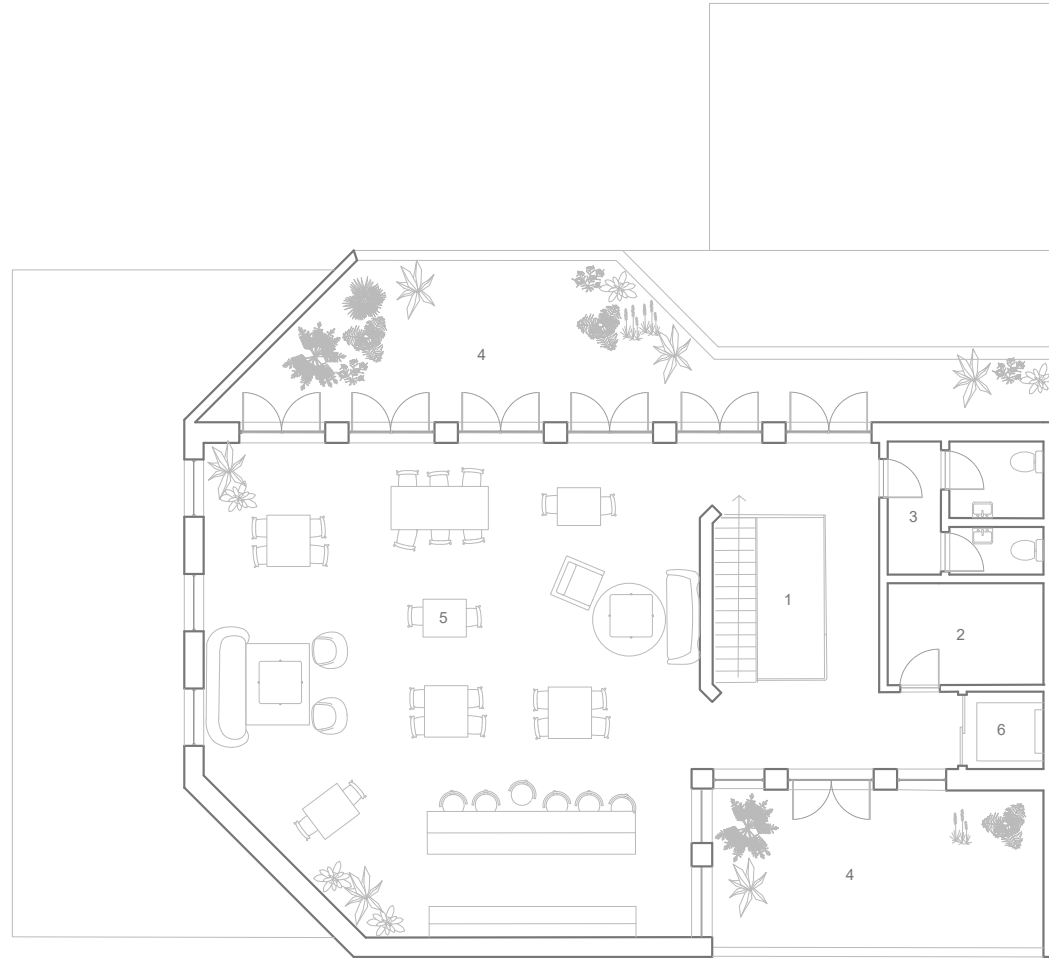
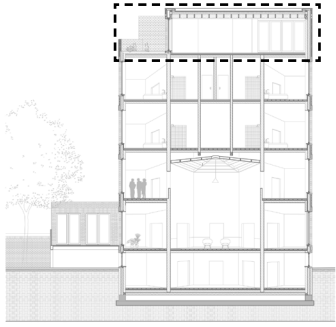
Second floor



3rd floor Plan
1:100

- 1. Stairwell
- 2. Storage
- 3. Guestroom
- 4. Bathroom
- 5. Office
- 6. Bar Kitchen
- 7. Elevator

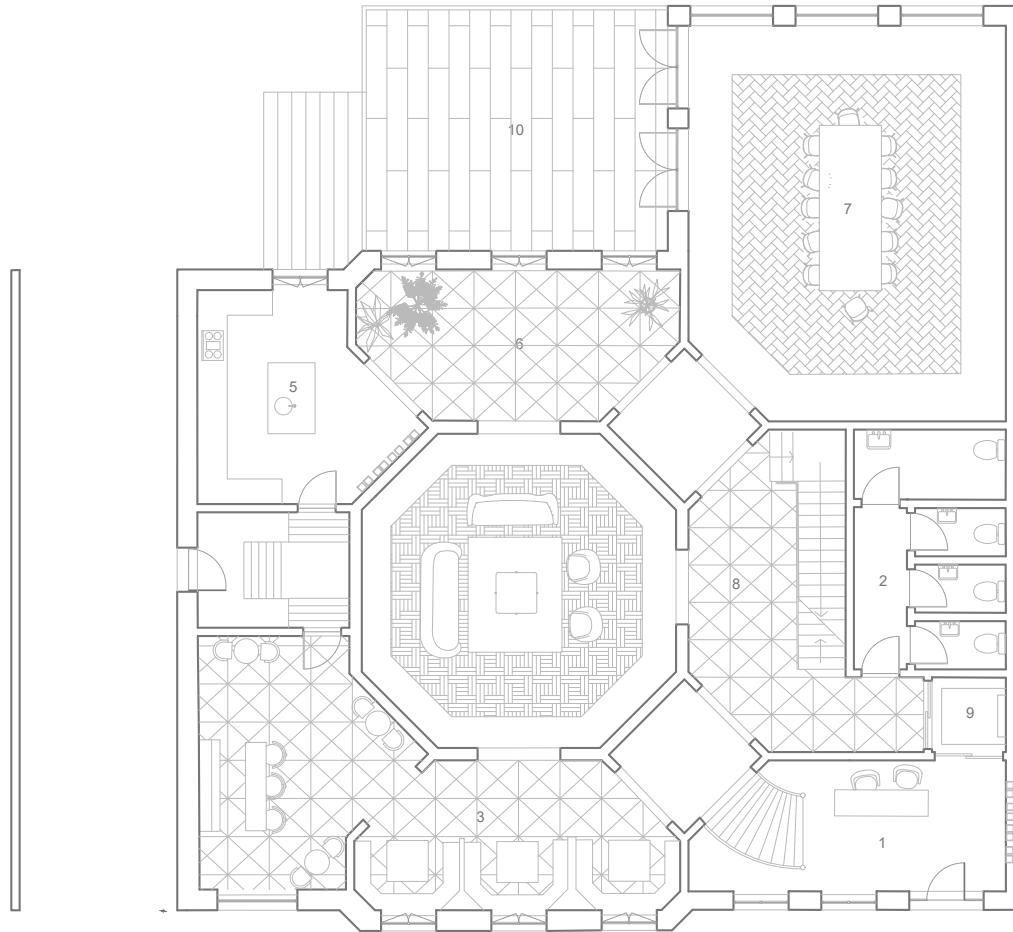
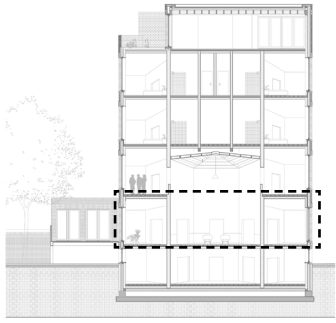
Third floor



4th floor Plan
1:100

- 1. Stairwell
- 2. Storage
- 3. Lavatories
- 4. Rooftop Garden
- 5. Bar
- 6. Elevator

Fourth floor

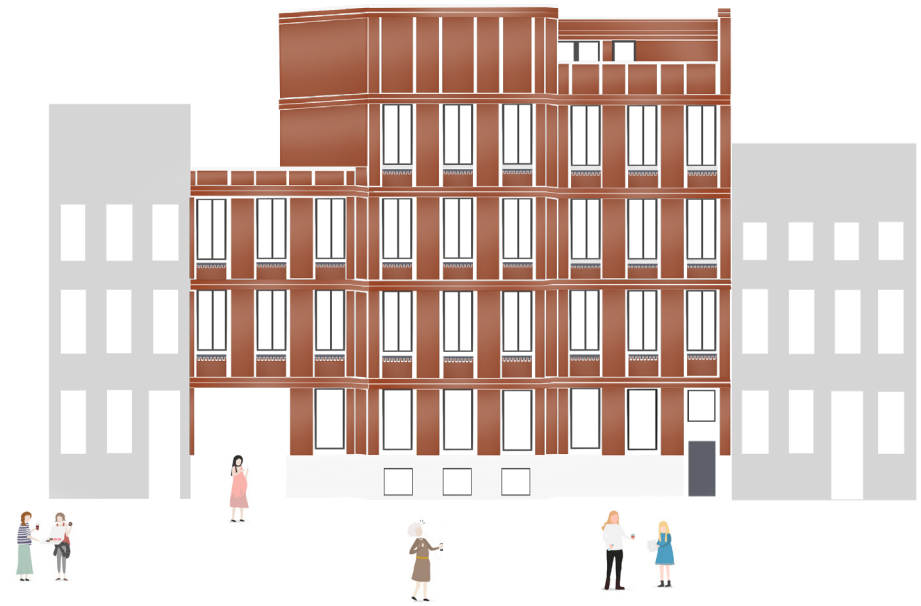


Groundfloor Plan
1:100

- 1. Entrance
- 2. Lavatories
- 3. Bar
- 4. Salon
- 5. Kitchen
- 6. Gardenroom
- 7. Diningroom
- 8. Hall
- 9. Elevator
- 10. Patio

Ground floor







Thank you!