

In which young people with a migration background have a sense of belonging

Graduation project MSC Architecture Dutch Housing

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Alice Alkateb

Mentors:
Theo Kupers
Ferry Adema
Pierijn van der Putt

Content

Research

Urban

Design

Technical aspects

Relevance

Refugees / Status holders

A refugee is a person who, for a well-founded fear of persecution because of race, religion, nationality, political opinion, or because opinion, or because of an ongoing war, currently resides outside of his native country. Refugees cannnot return to their native country unless the situation there becomes safe.





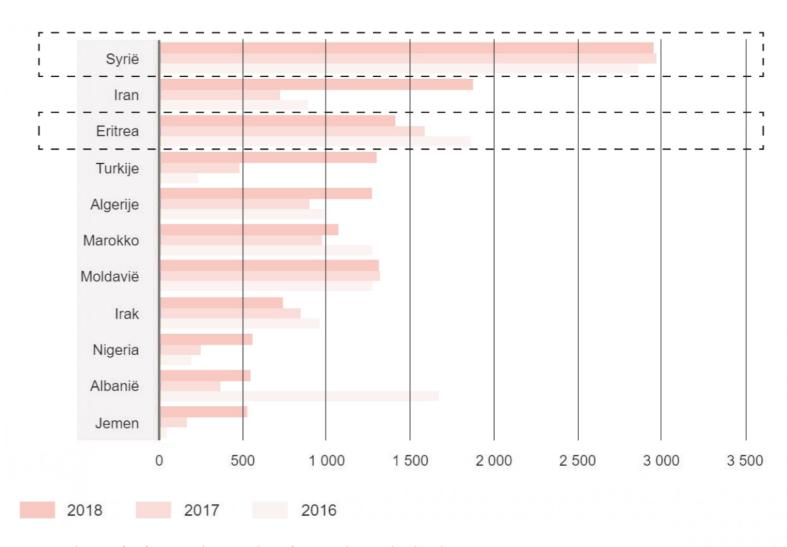
Number of asylum requests in each year in The Netherlands. Source: VWNL, 2017.

30 %

Status holders are one of these

Vulnerable groups

Refugees nationalities



Nationalities of refugees who sought refuge in the Netherlands. Source: CBS, IND.

Number of refugees



De Volkskrant

Take refugees and their integration seriously

Integration policy must better match the knowledge and skills of newcomers.

5,500 status holders are waiting for a home in AZC

5,500 status holders in the Netherlands - people with a residence permit who are waiting for a home. These people reside in asylum centers. That number is considerably higher thn at the beginning of this year. Then the counter was still 4600.

Reception of asylum seekers is bulging due to a shortage of housing

Asylum seekers' centers are overflowing with refugees who are entitled to a home but are not given one. More than half of the 25 thousand residents of Dutch asylum seekers' centers are waiting for a house from the municipality. The municipalities say they do not have enough vacant rental properties to meet the demand.

Charlotte Huismas, 2015

A status holder is an asylum seeker with a temporary or conditional residence permit. After granting the permit, they get a house.

At this stage they start their integration into the society.

Research question

How to design social housing in an affordable manner that can provide the status holders a comfortable living environment and help them with the integration?

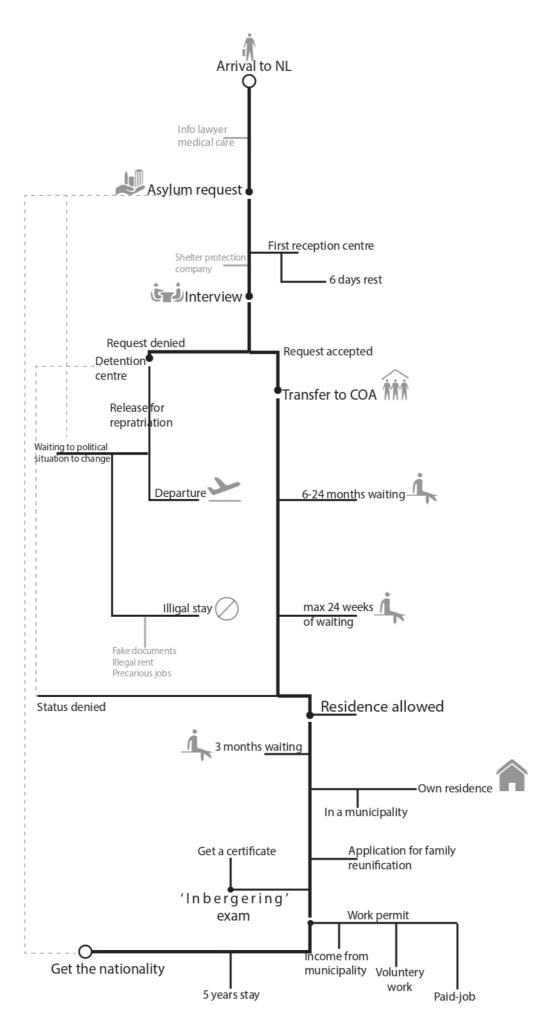
Integration related question:

How can an architectural environment be created that includes both people with migration background as well as people with Dutch background?

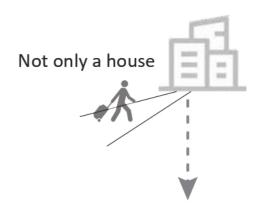
Design related question:

What are the specific spatial and social design needs of refugees at the level of housing and building?

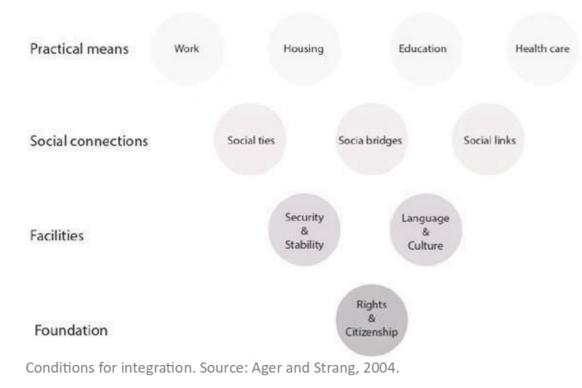
Problems



Research results (their needs)



Conditions should be facilitated to promote integration



Role of architects is to help through providing...



spaces



Collective living Collective study\work room



Restaurant Cafe language



Collective roof garden

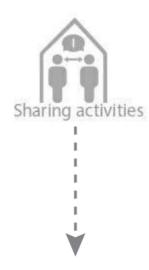


Collective bike parking









Integration is promoted a sense of belonging is created

Building-related requirements to avoid friction between residents

Design coherence of the housing units

----> reduces observable differences between different tenures ----> contributes to bridging social divides ----> may overcome prejudice

Shared environment among residents of different backgrounds

----> encourages informal positive interactions (ex: in parking - corridor) ----> in which possitive experiences can occur between residents ----> develops positive perceptions between residents

Shared facilities and amenities









such as: communal living room (social gathering) study room (enhancing Dutch language) Shared kitchen (social gathering) workshop space



----> reduce prejudice and decrease distances







Reference project: **Startblock**

50% Dutch people & 50% Refugees

Startblock, Amsterdam, housing foundation De key



Startblock complexes in different areas in the Netherlands







Policies followed by Startblock to achieve successful integration & harmony between residents



----> giving residents the resposibility in organizing everything on their own



Meetings



Celebrations

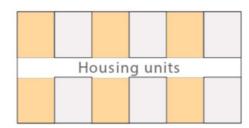


Music events



----> giving residents educational and awareness lectures about their duties & rights and tips to accept each other

Conclusion









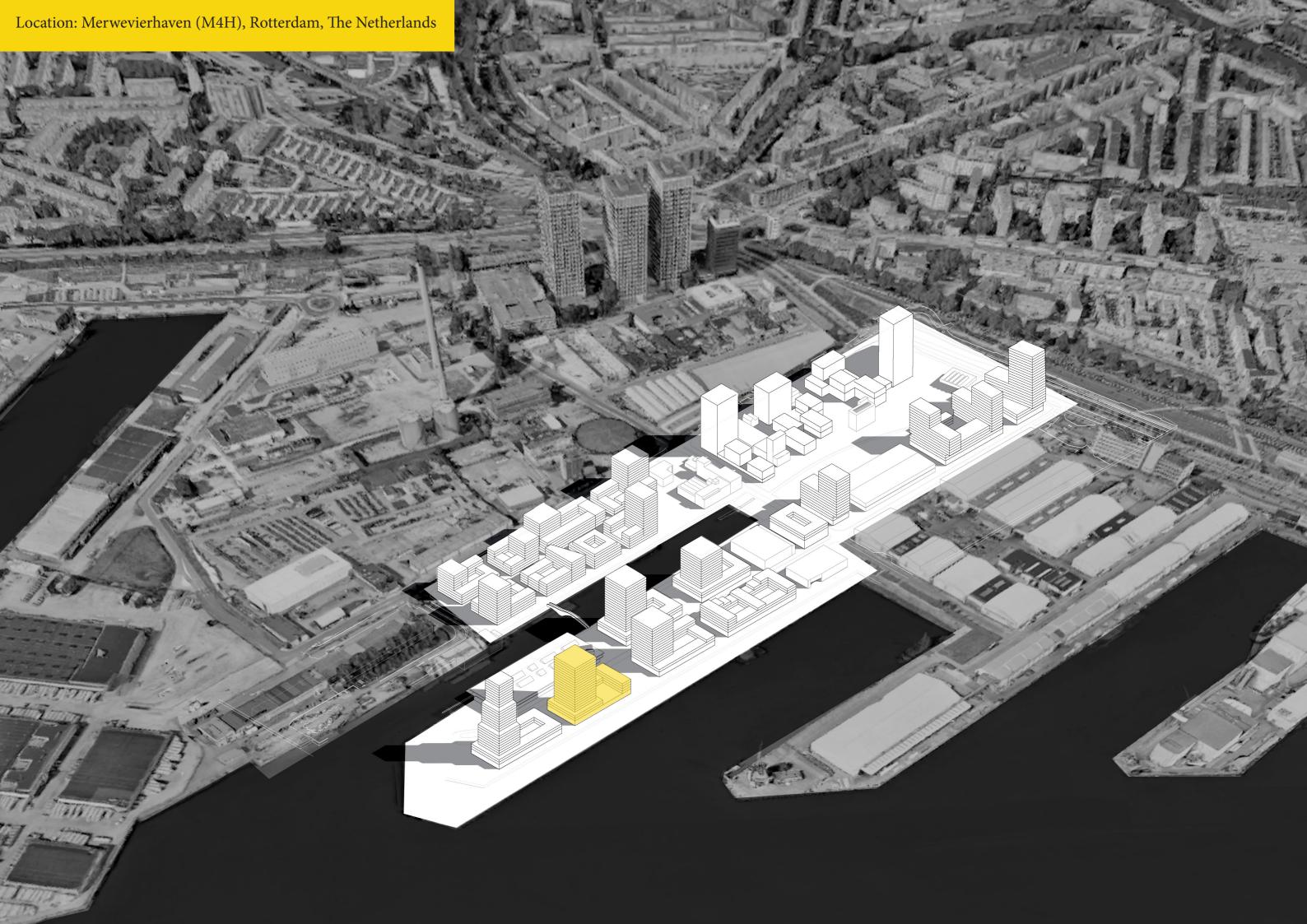








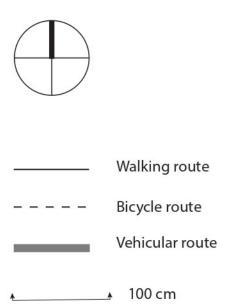


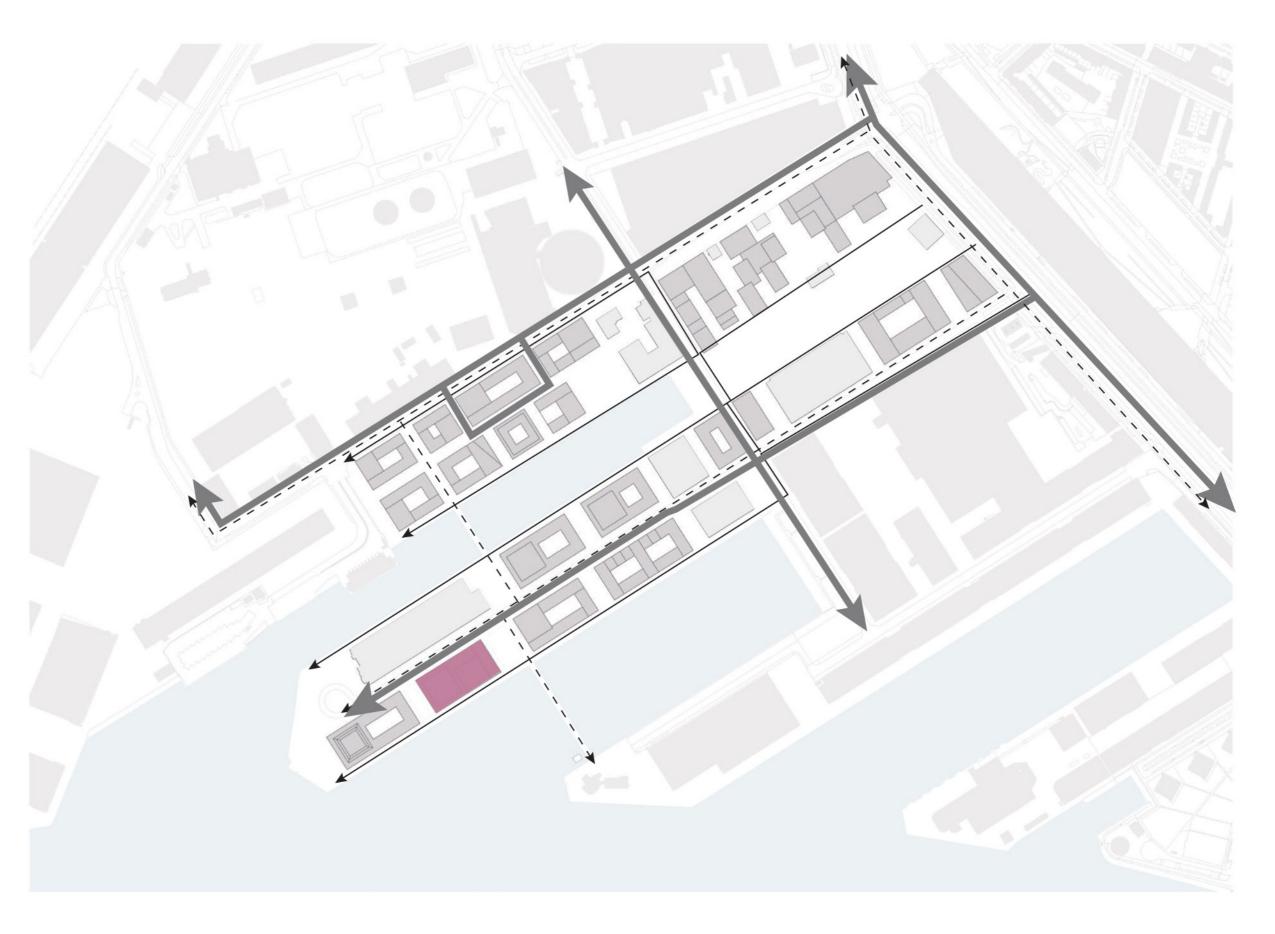


Urban context Keilekwartier

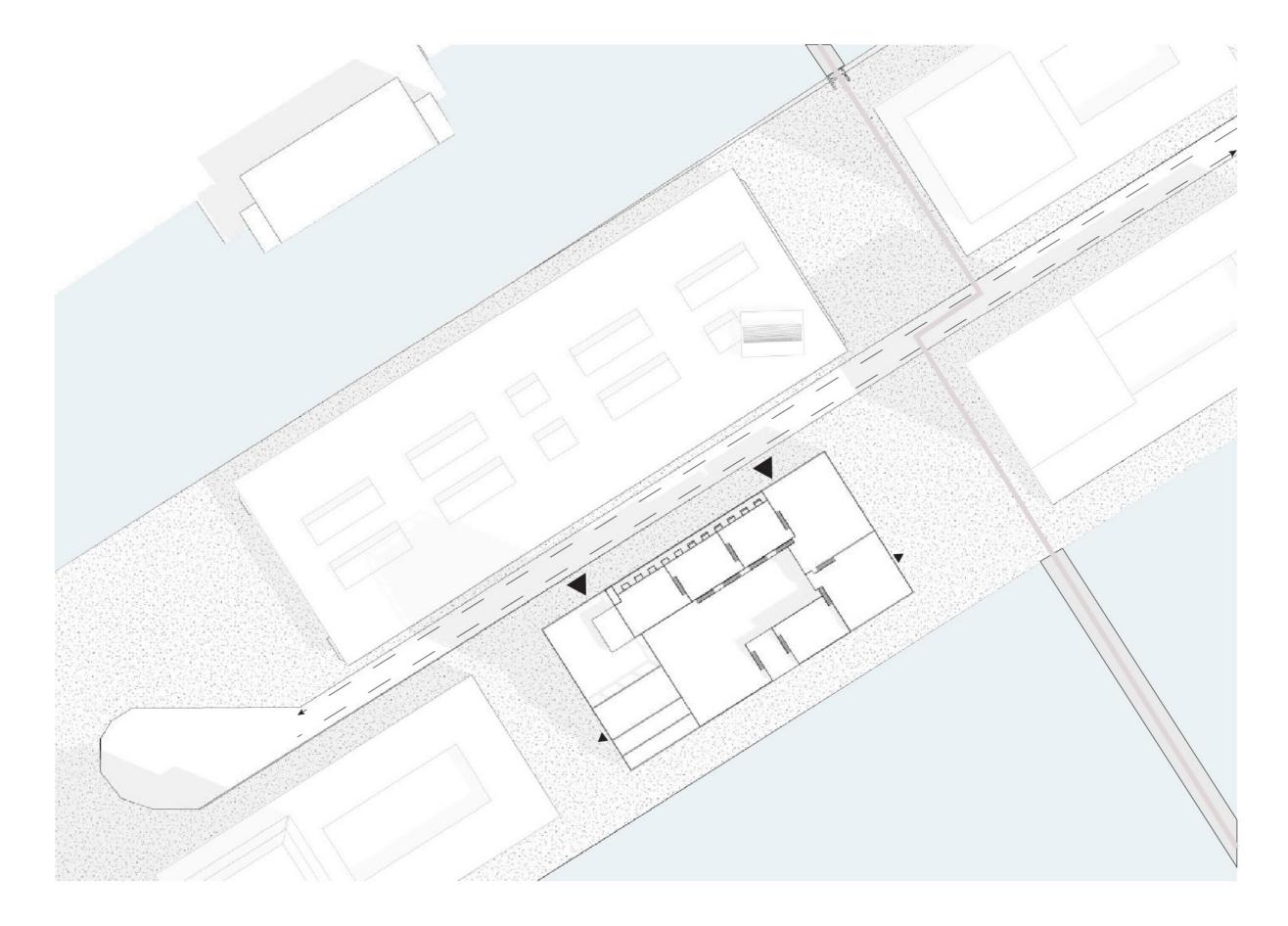


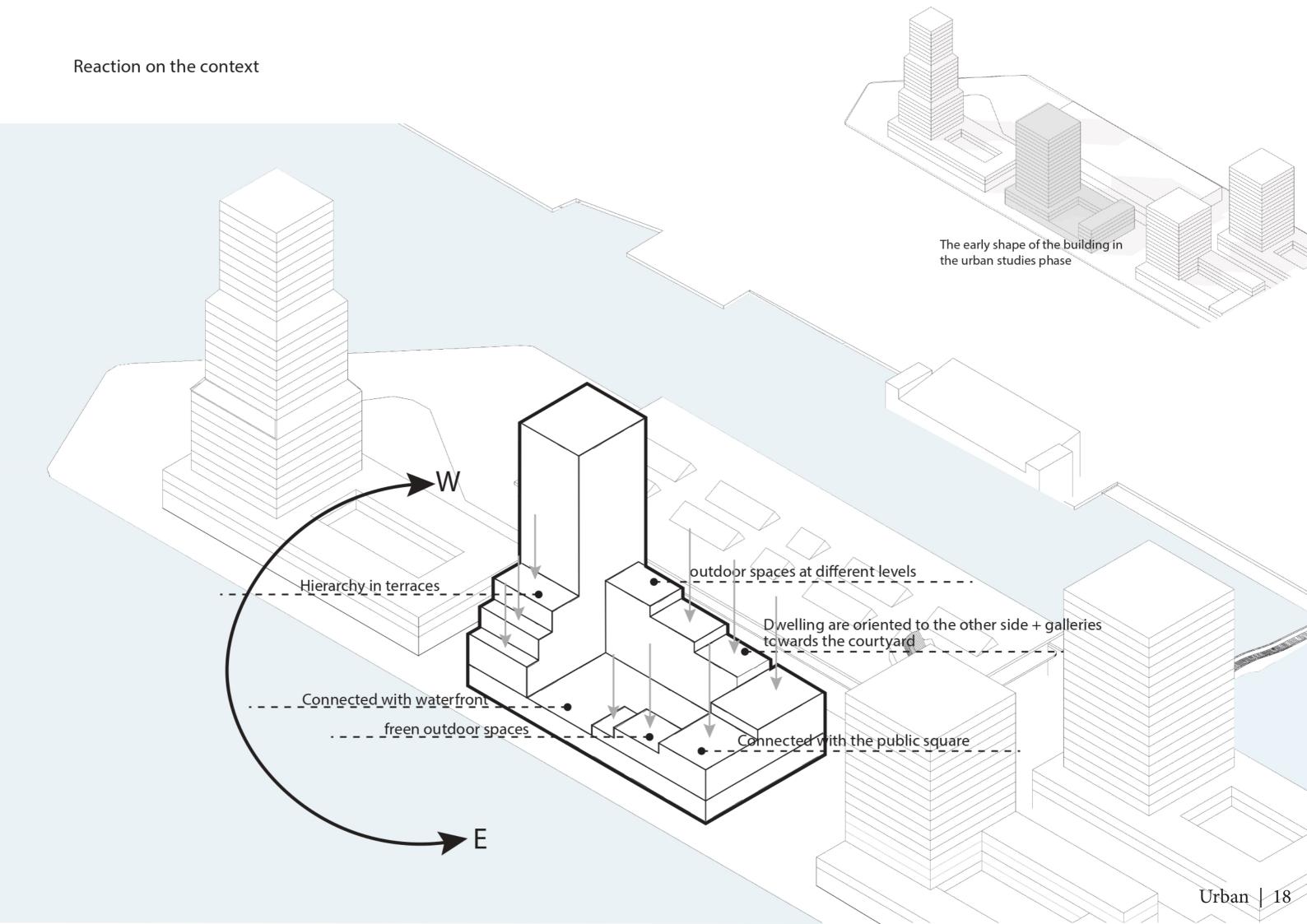
Urban context Keilekwartier





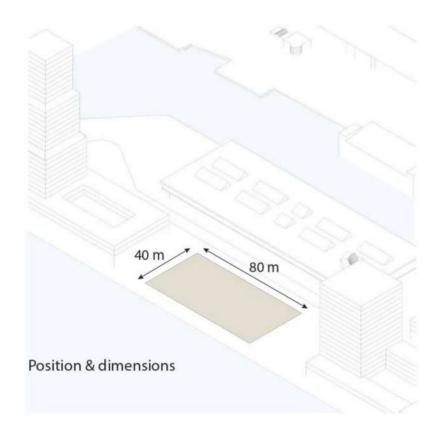


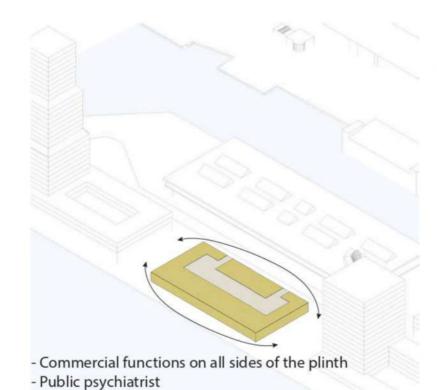






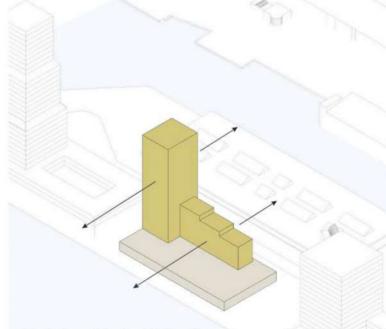
Diagrams explaining the design concept





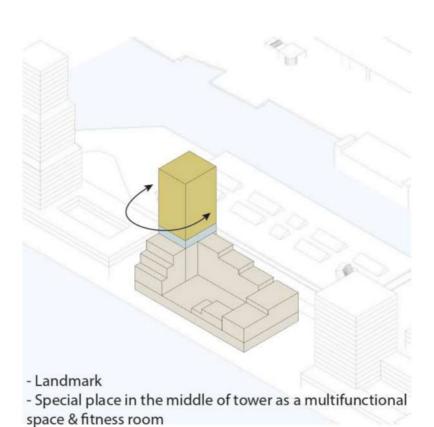
- Language center

- Cafes



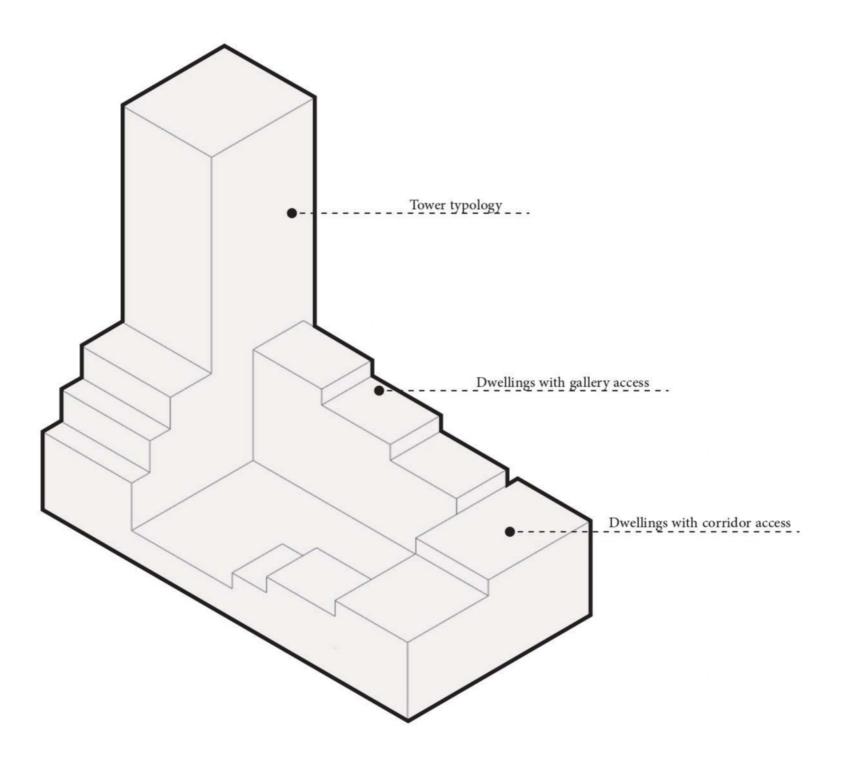
- High rise at back side to allow more sun light in the inner courtyard
- View on water from both sides thanks of open courtyard from one side and the low height of Katoenveen building on the other side



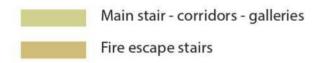




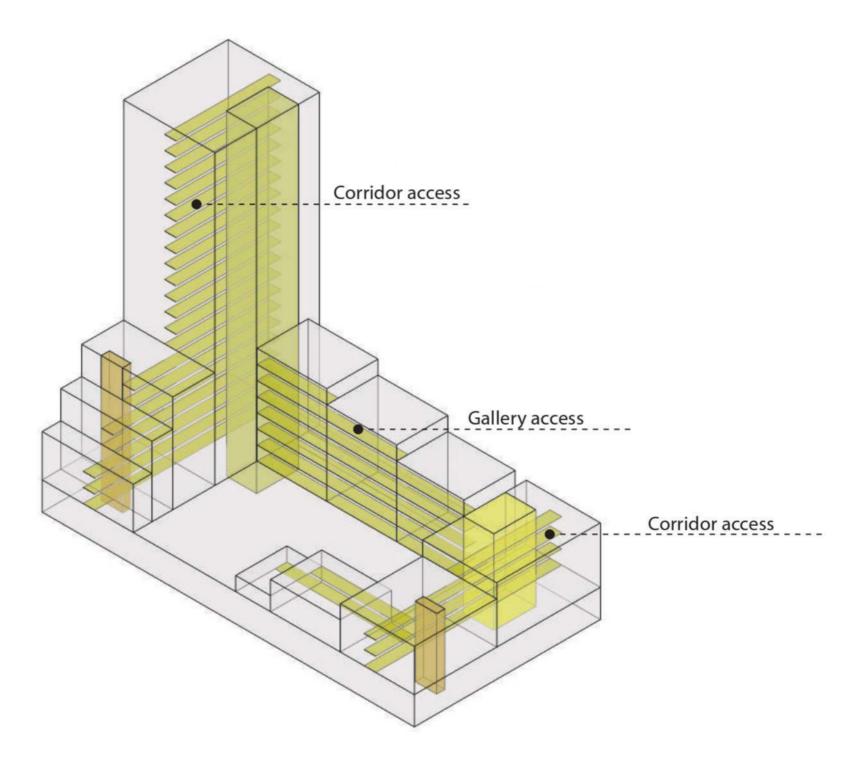
- Vertical movement between different levels to motivate residents to move around and interact with eachothe



Circulation



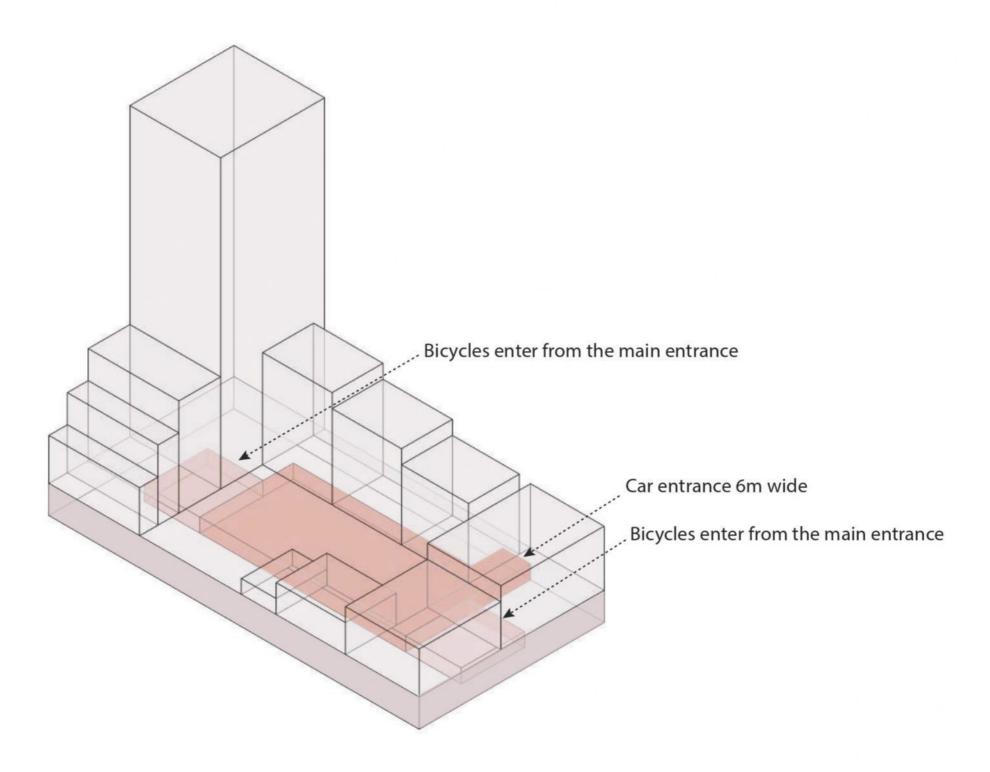
- Two main entrances that connect the street with the dwellings + two fire escape entrances
- Combination between corridor access and gallery access
- The courtyard can be reached from all dwellings



Car parking & Bicycle garage & commercial plinth



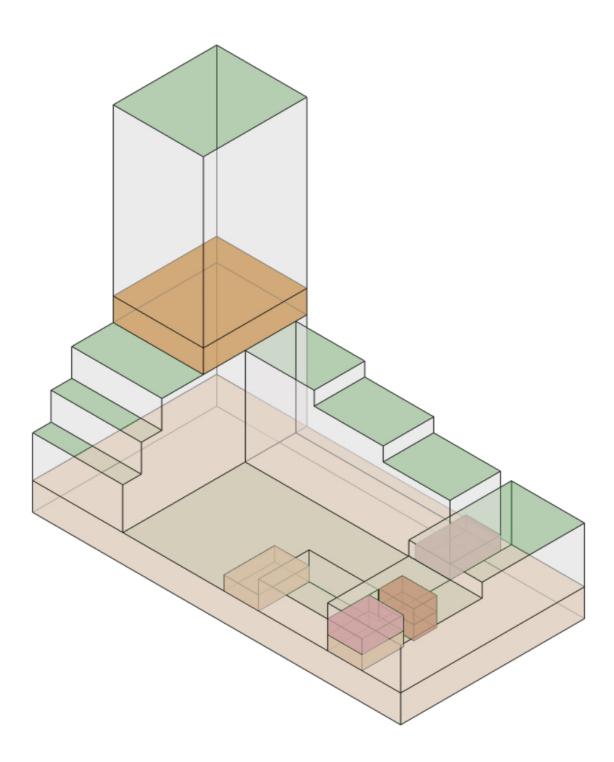
- Parking garage with 27 shared cars located in the middle of the plinth
- Two bicycle garages to be used by all residents of the building. They are located at the same level of the entrance.
- Plinth with different public function that facilitates activities to the area. Its transparent elevations make it connected with the adjacent buildings and increases the quality of the area



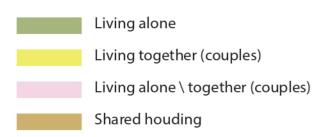
Public & Private & collective



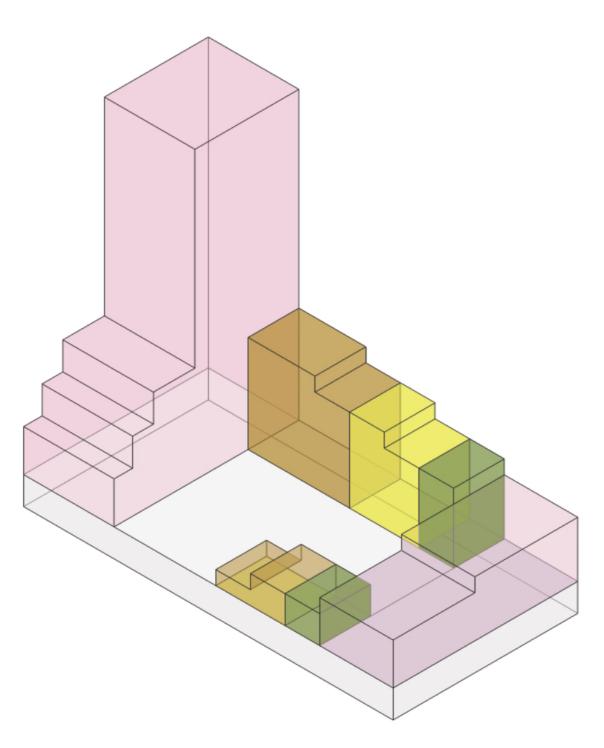
- Different types of collective rooms
- lots of green roof terraces as places where residents can meet
- Small size of the dwellings in comparision with many collective spaces



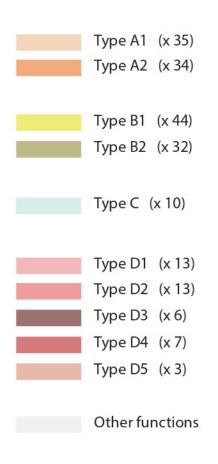
Configuration of household



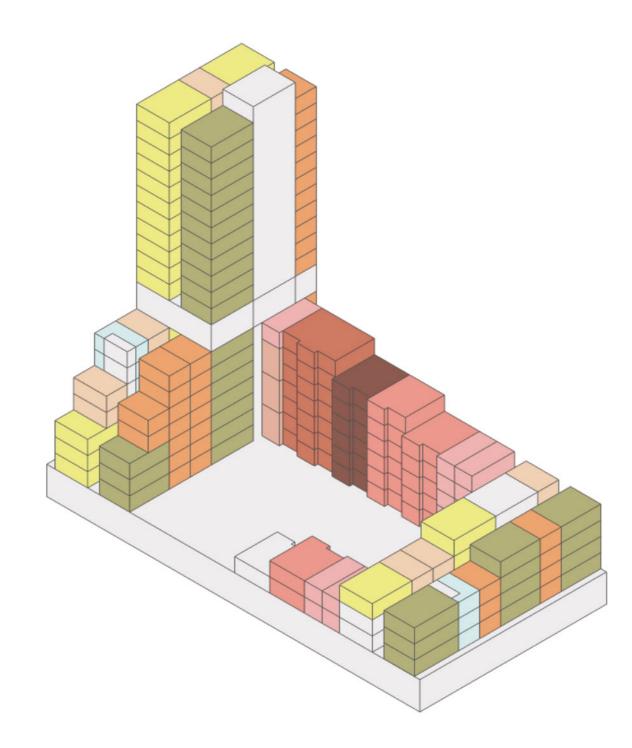
- Percentage of shared housing is low in the building in comparision with the amount of other types of dwellings

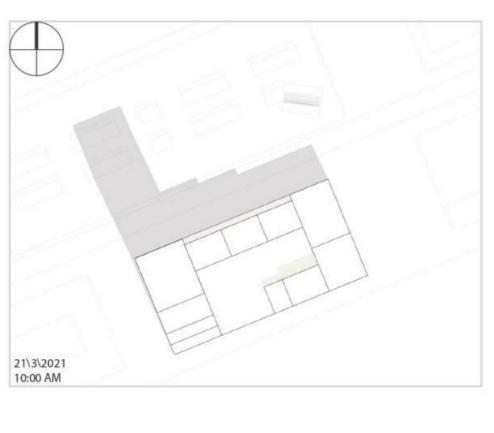


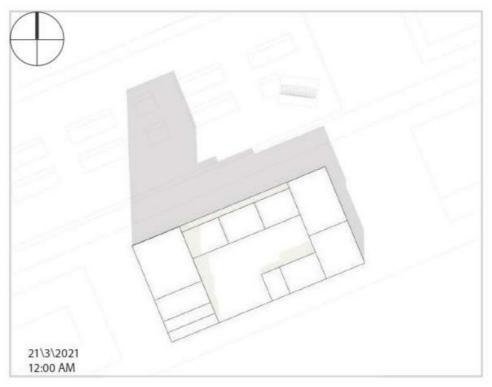
Dwellings typology

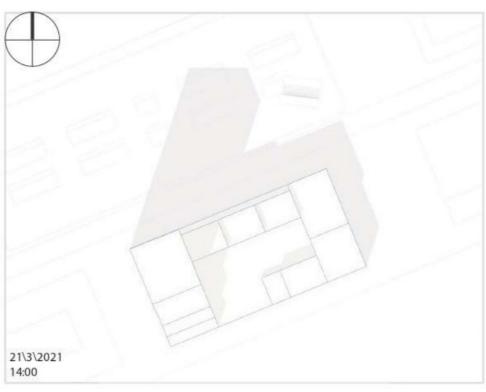


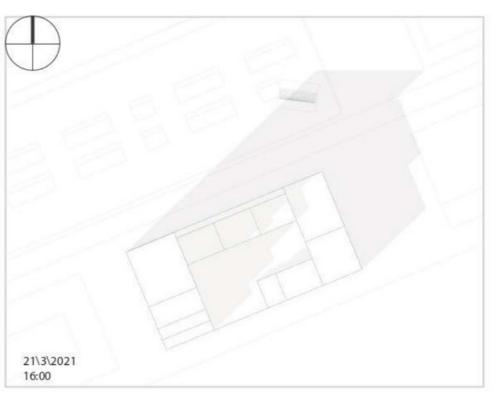
- Many types of dwellings that can be suitable for all residents (status holders, starters, students, other types)
- Total number of dwellings is: 197



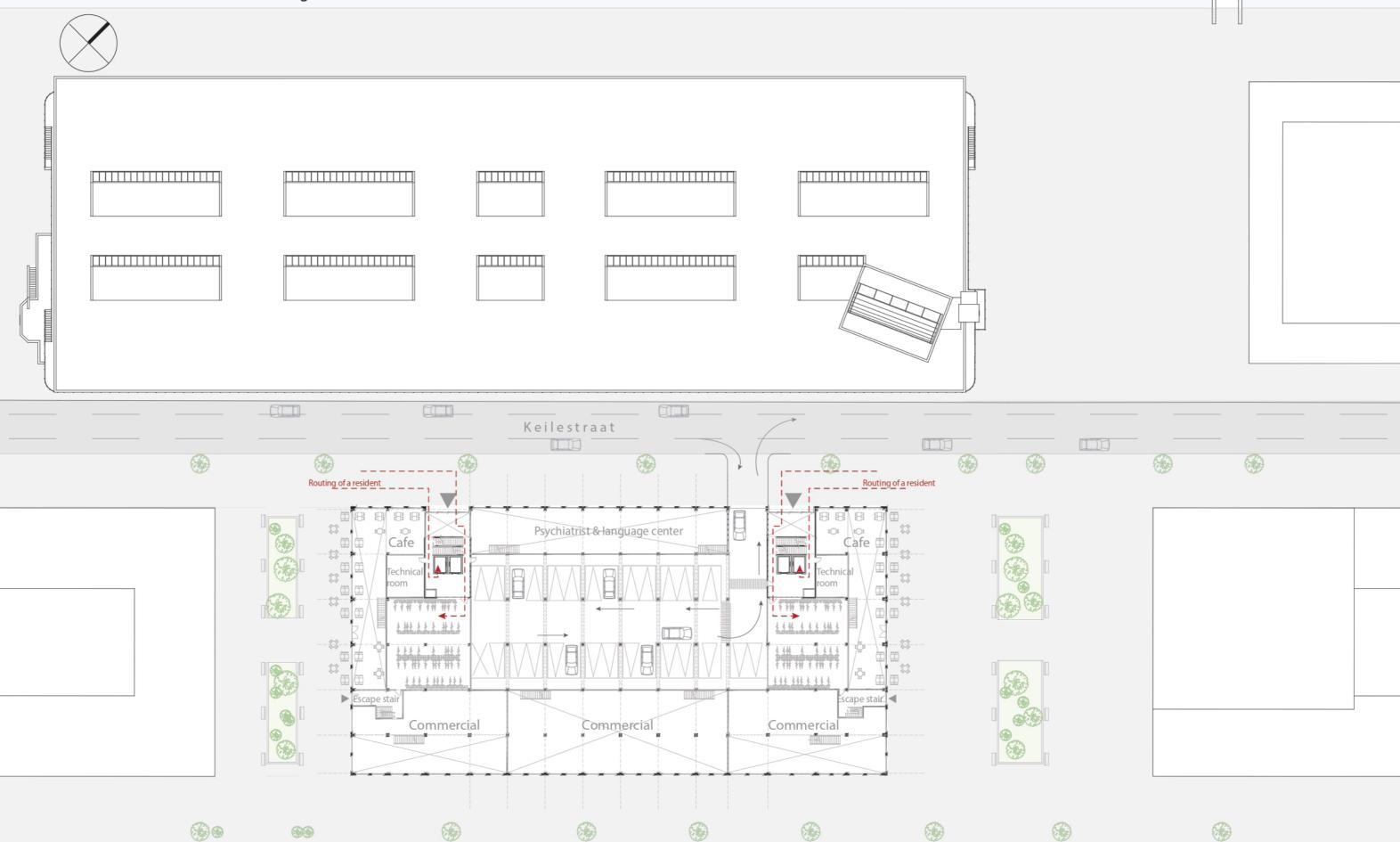


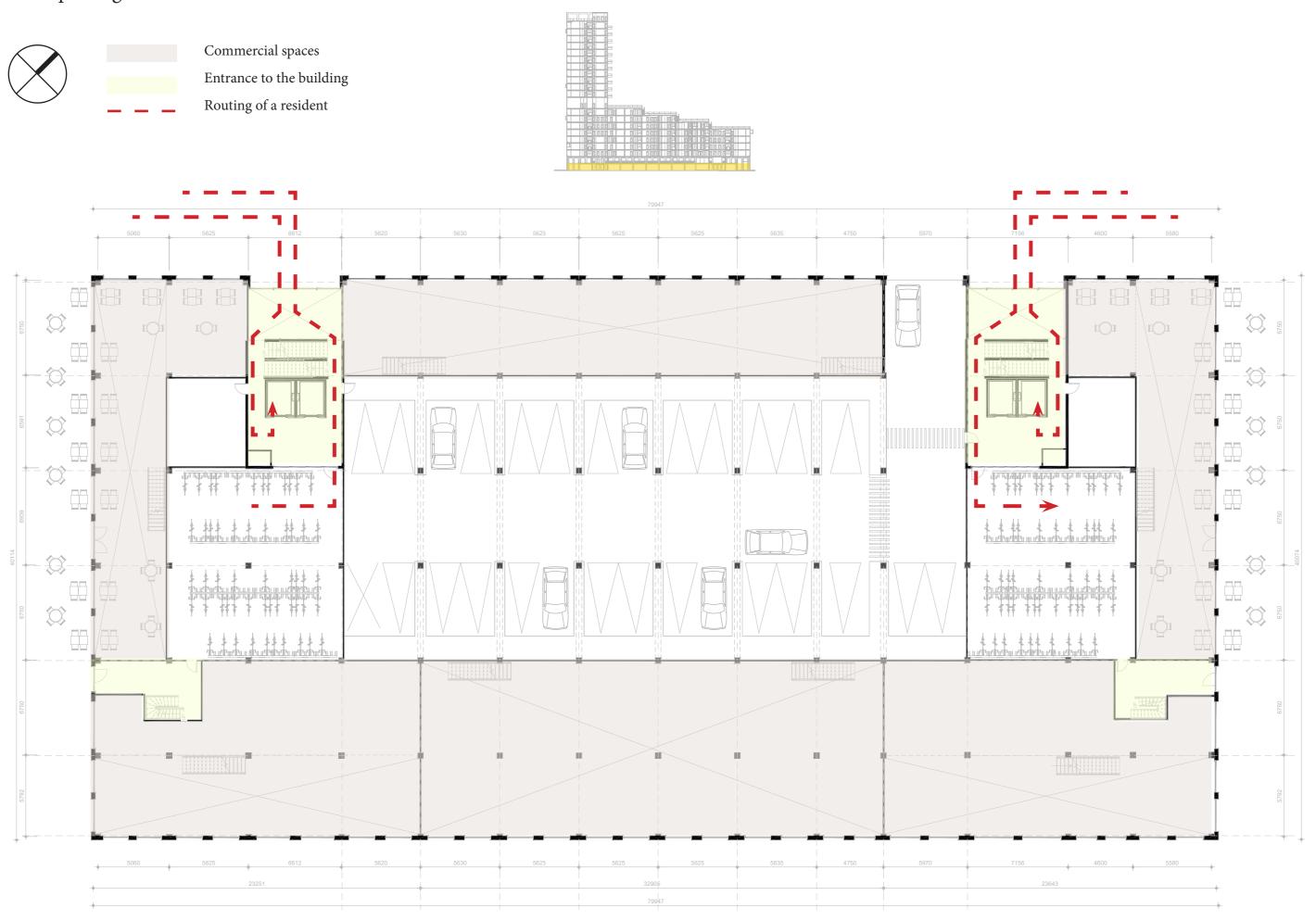




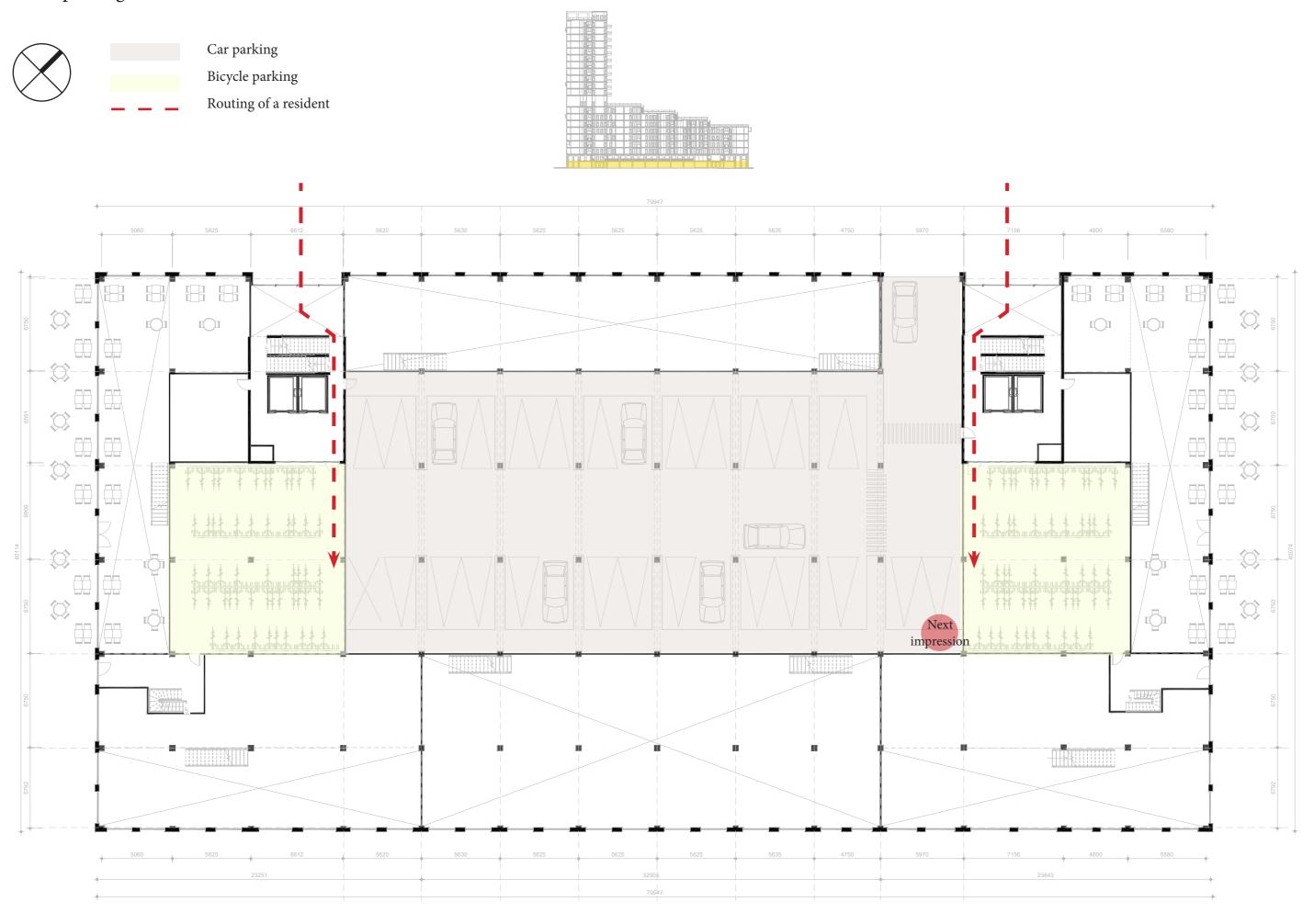




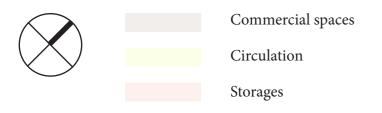




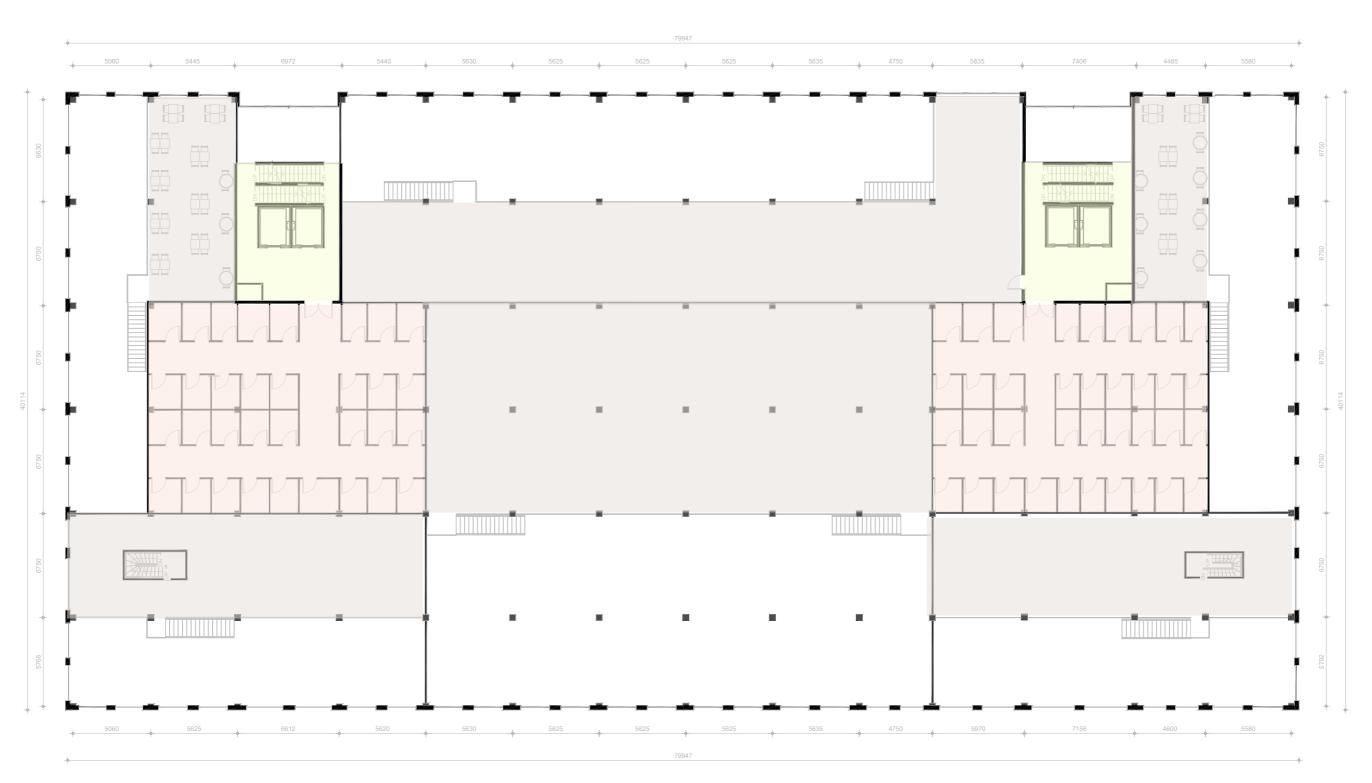


















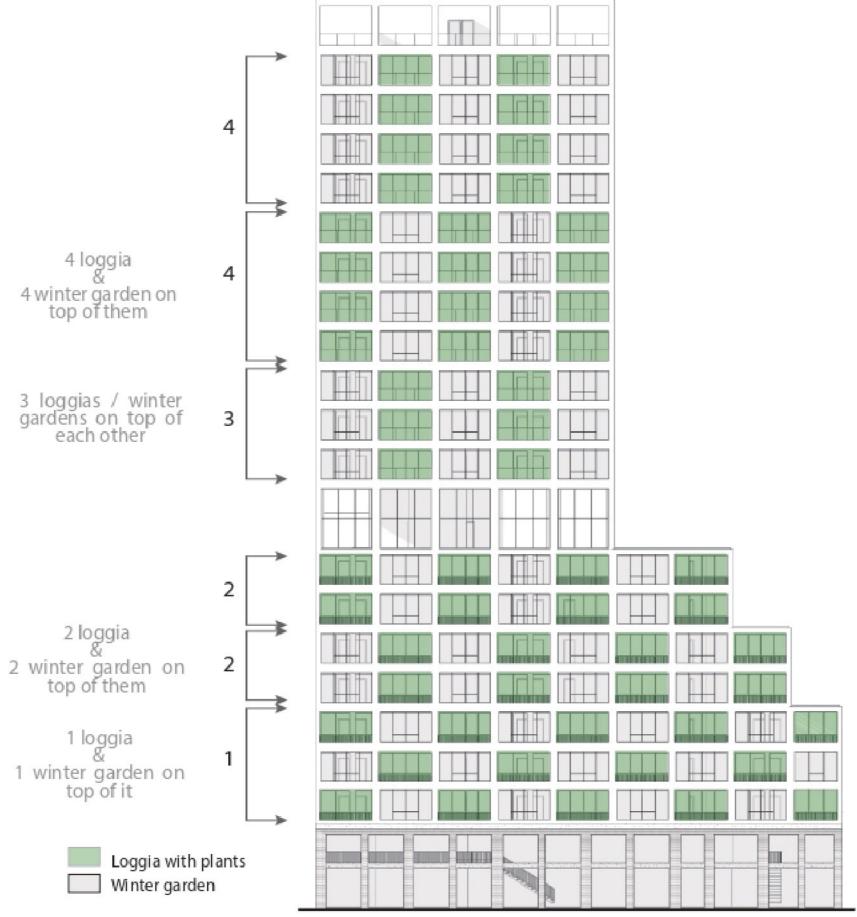




Floor plan - 4th floor 1\250

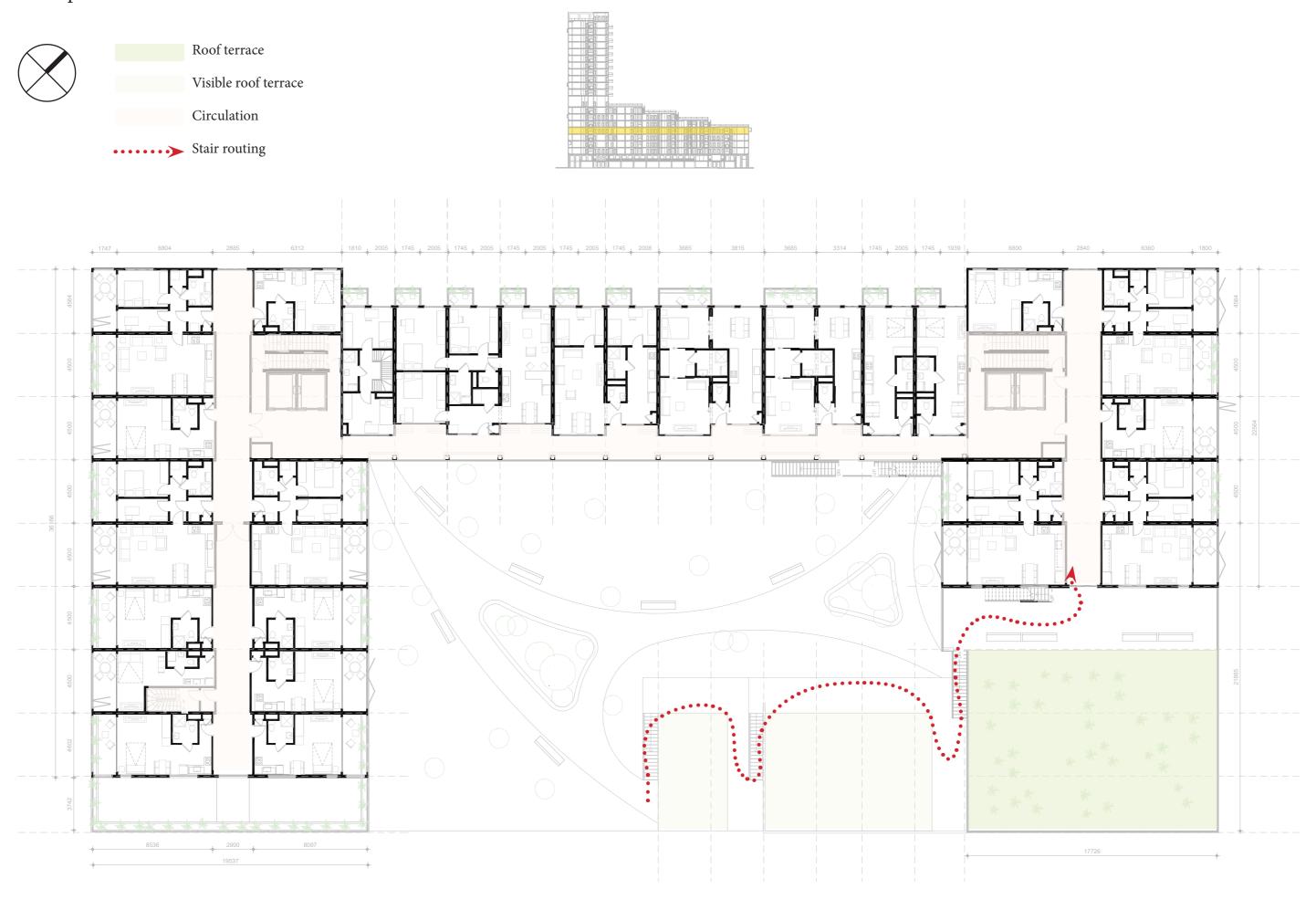


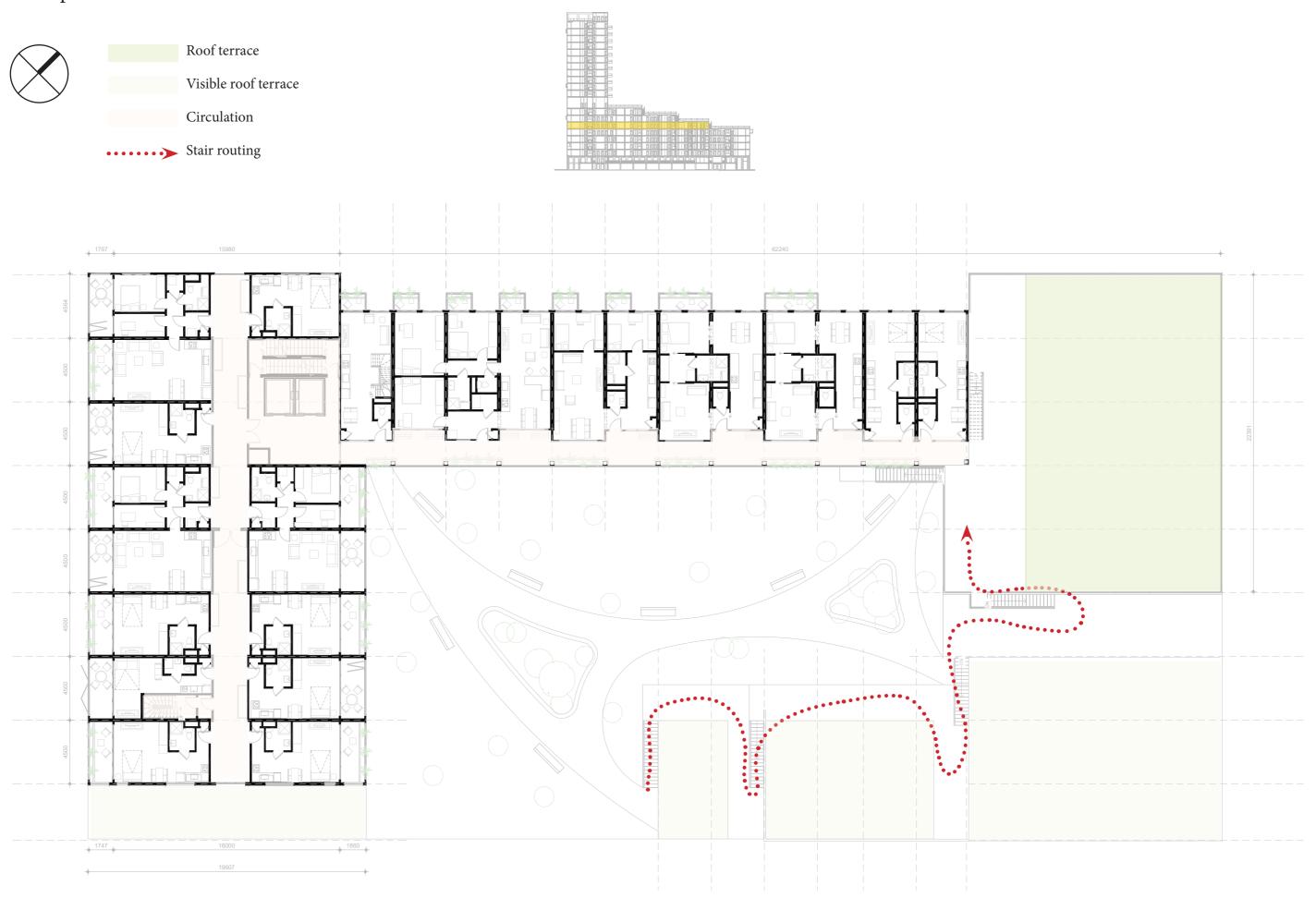
Tower facade concept of loggias and winter gardens

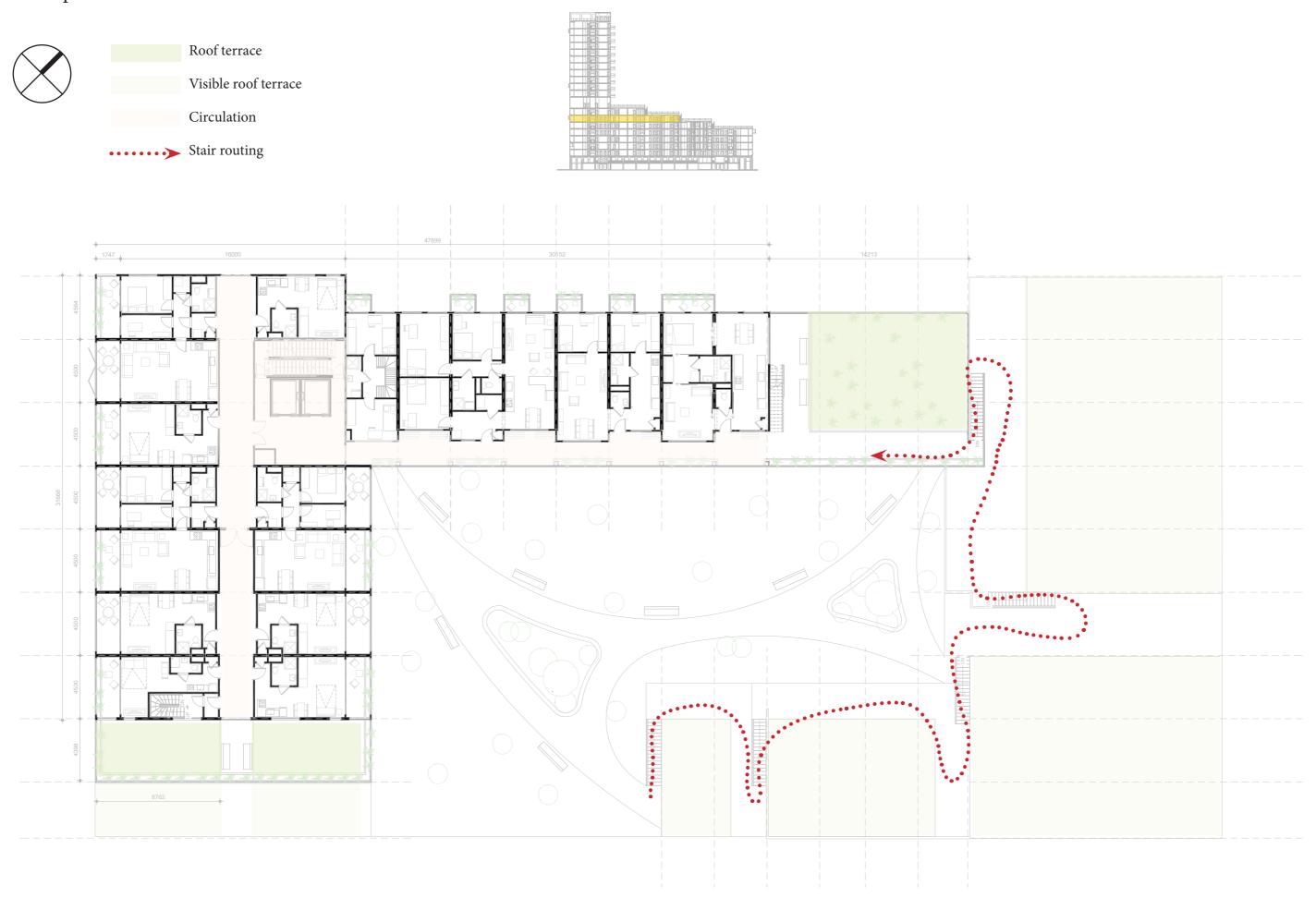


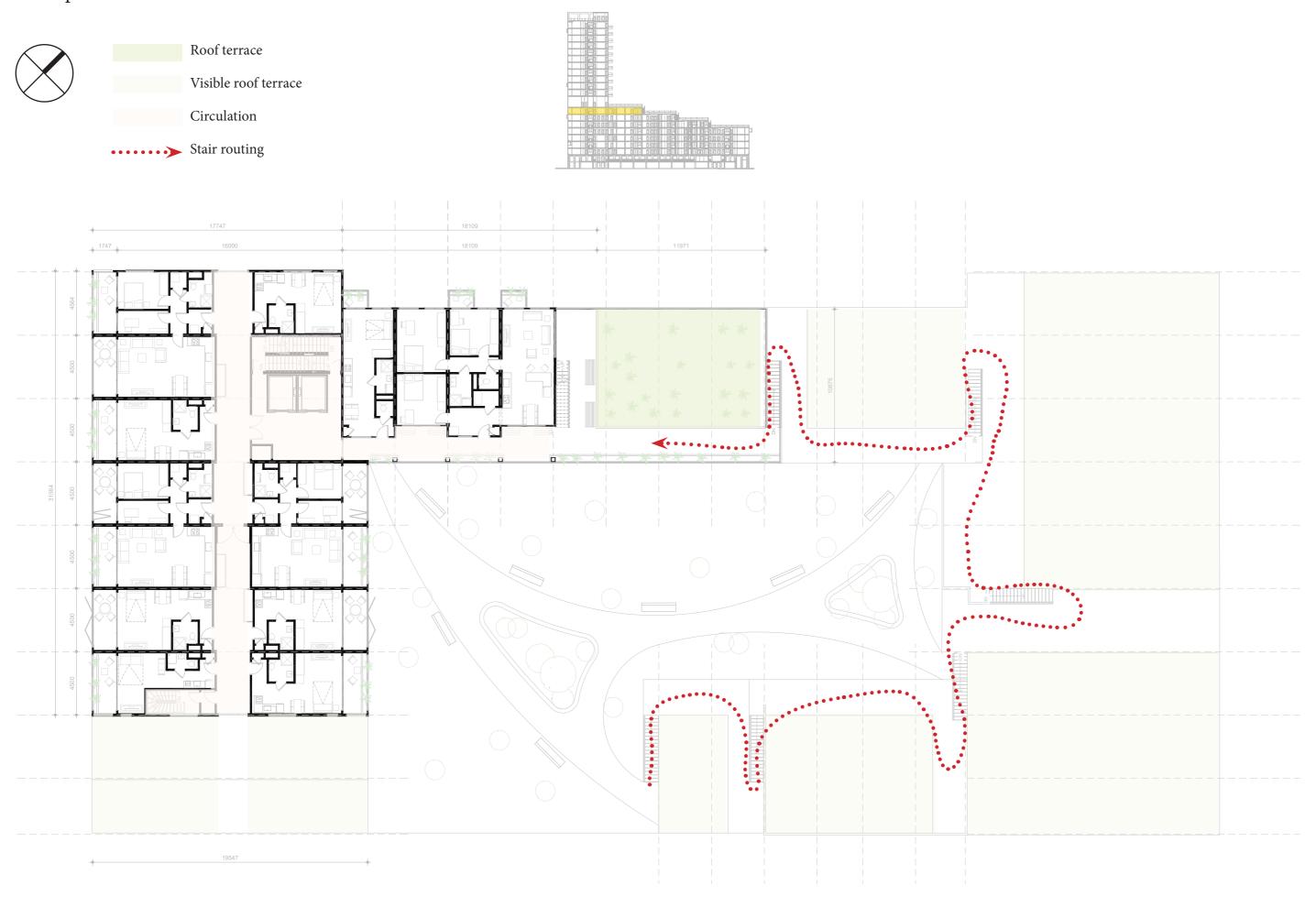


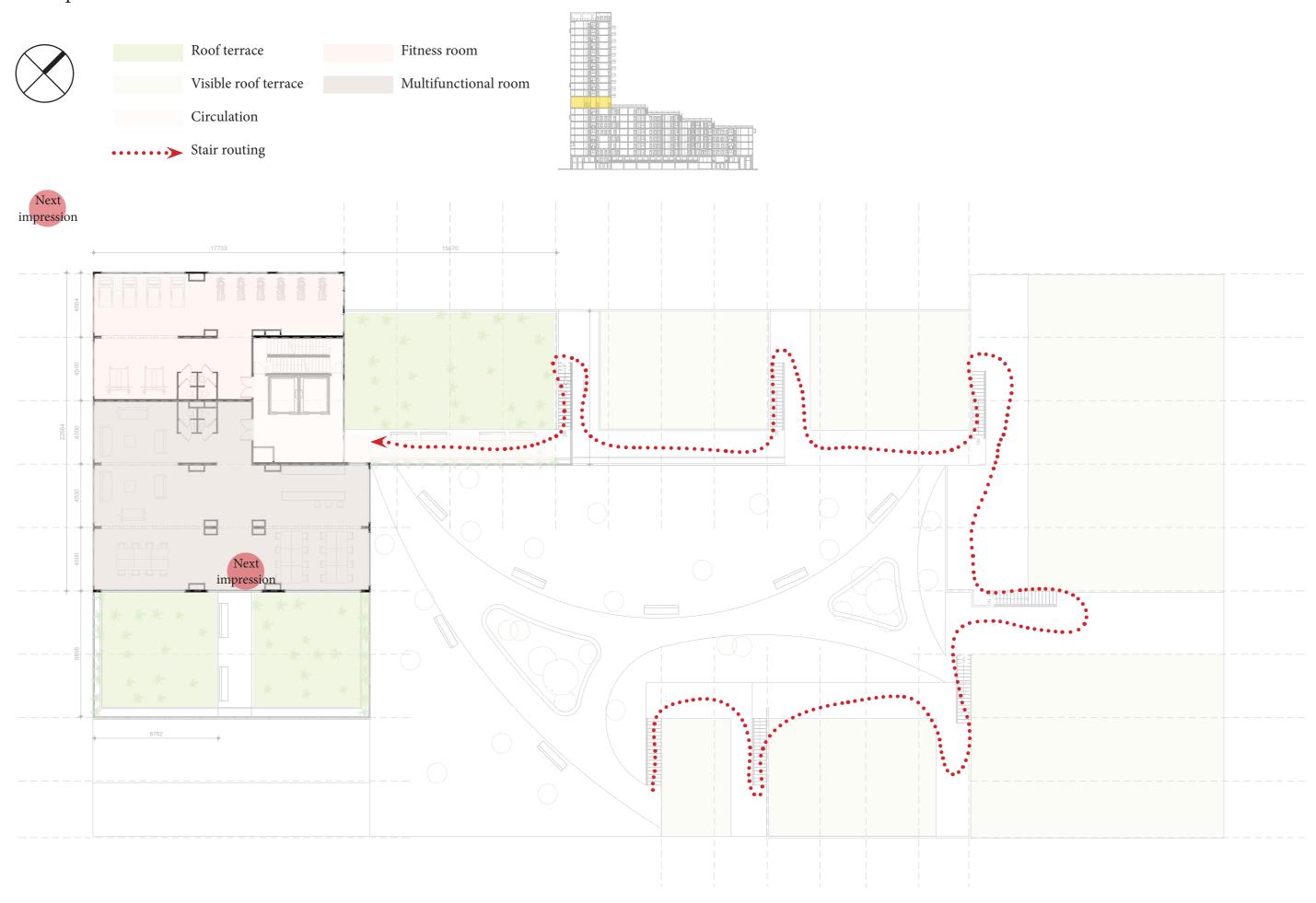








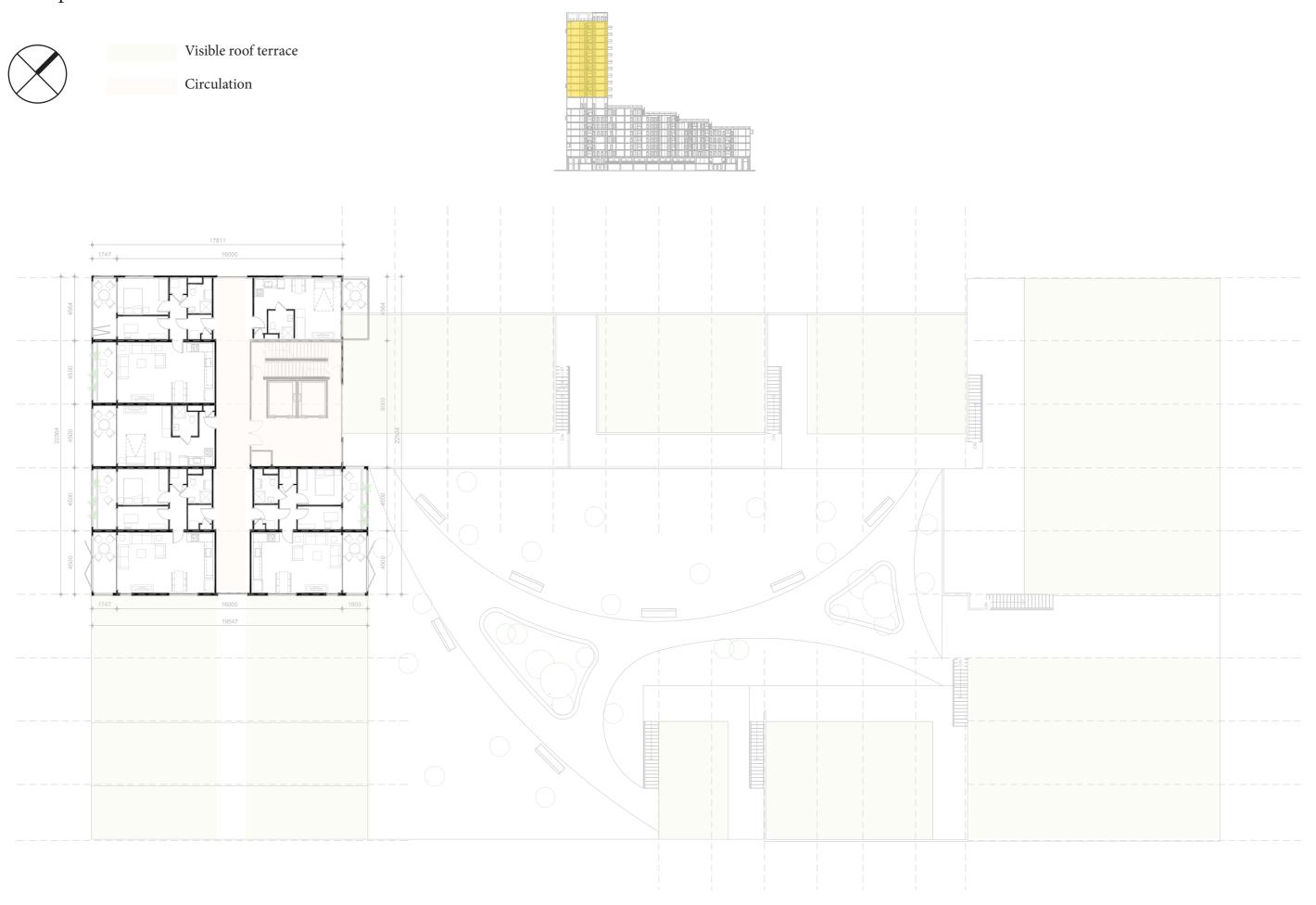


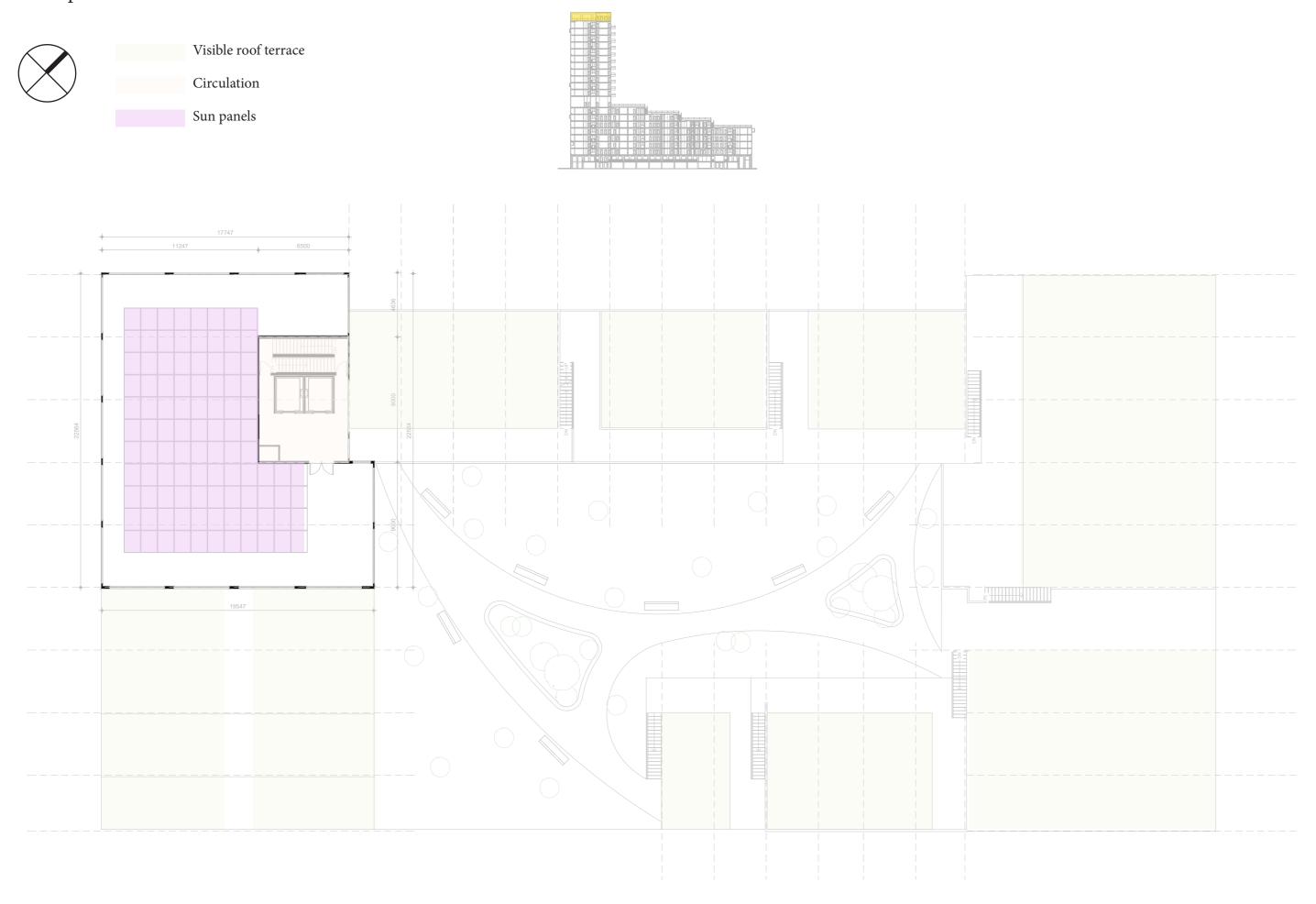






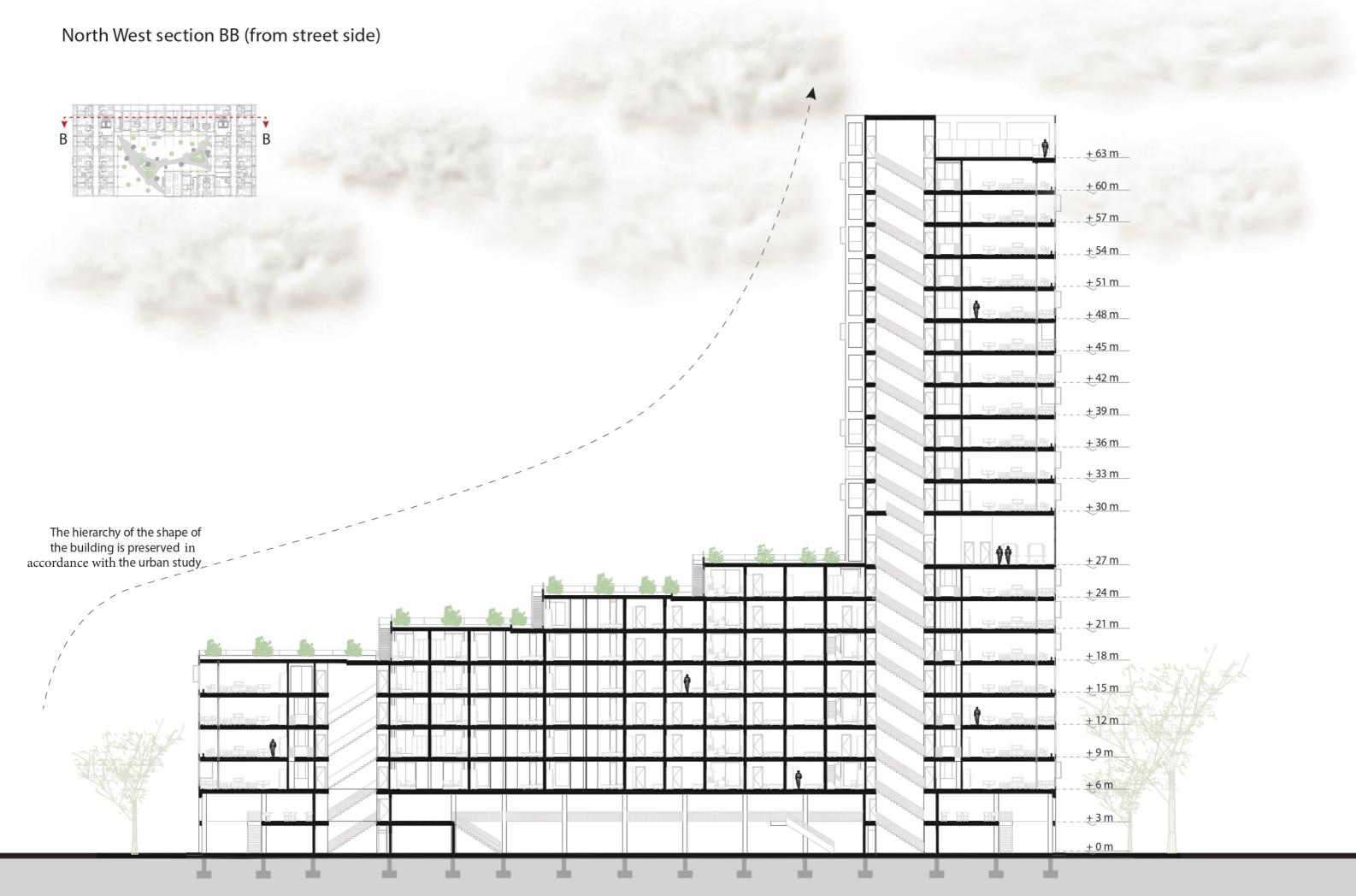




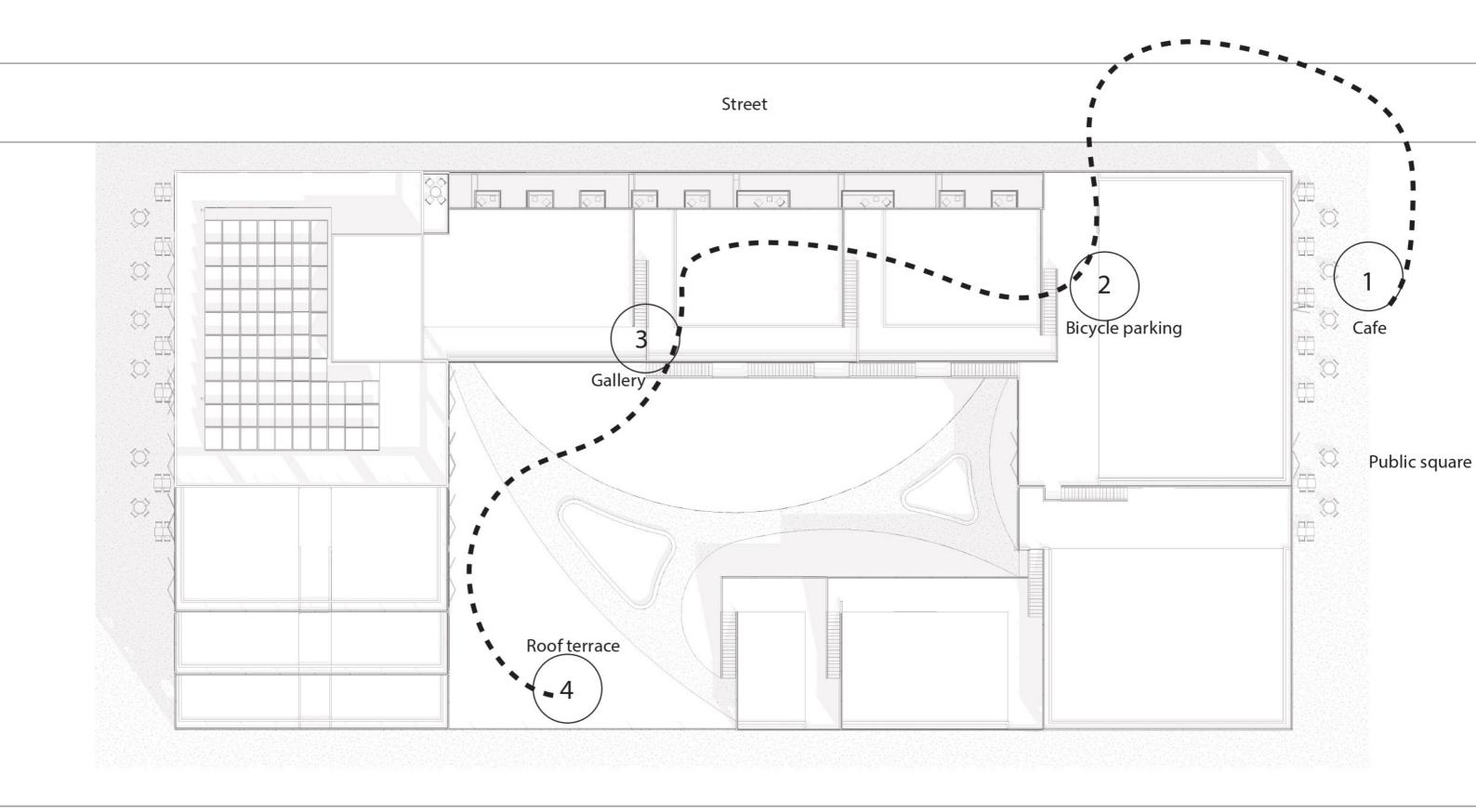








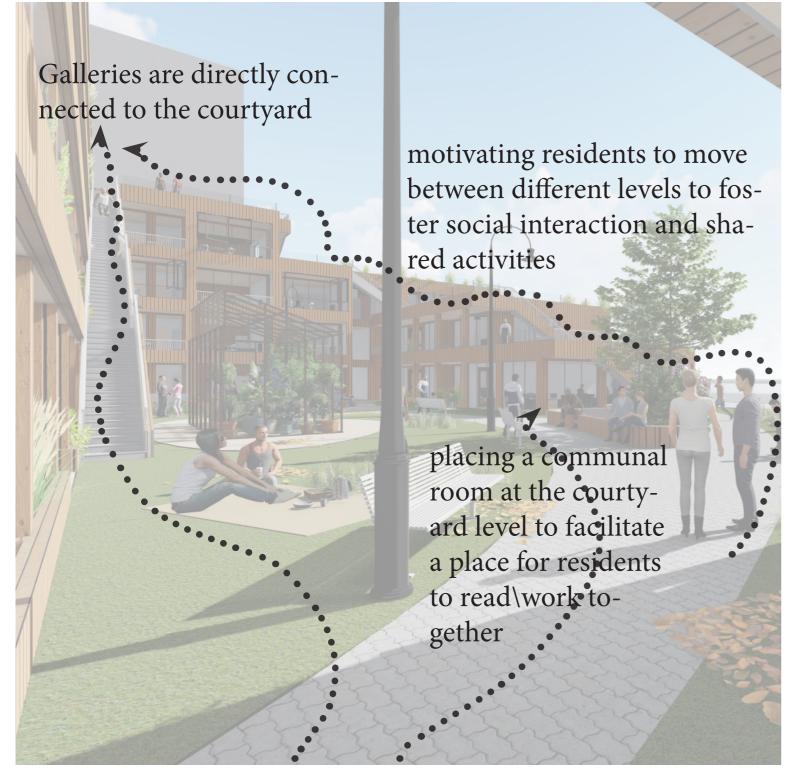




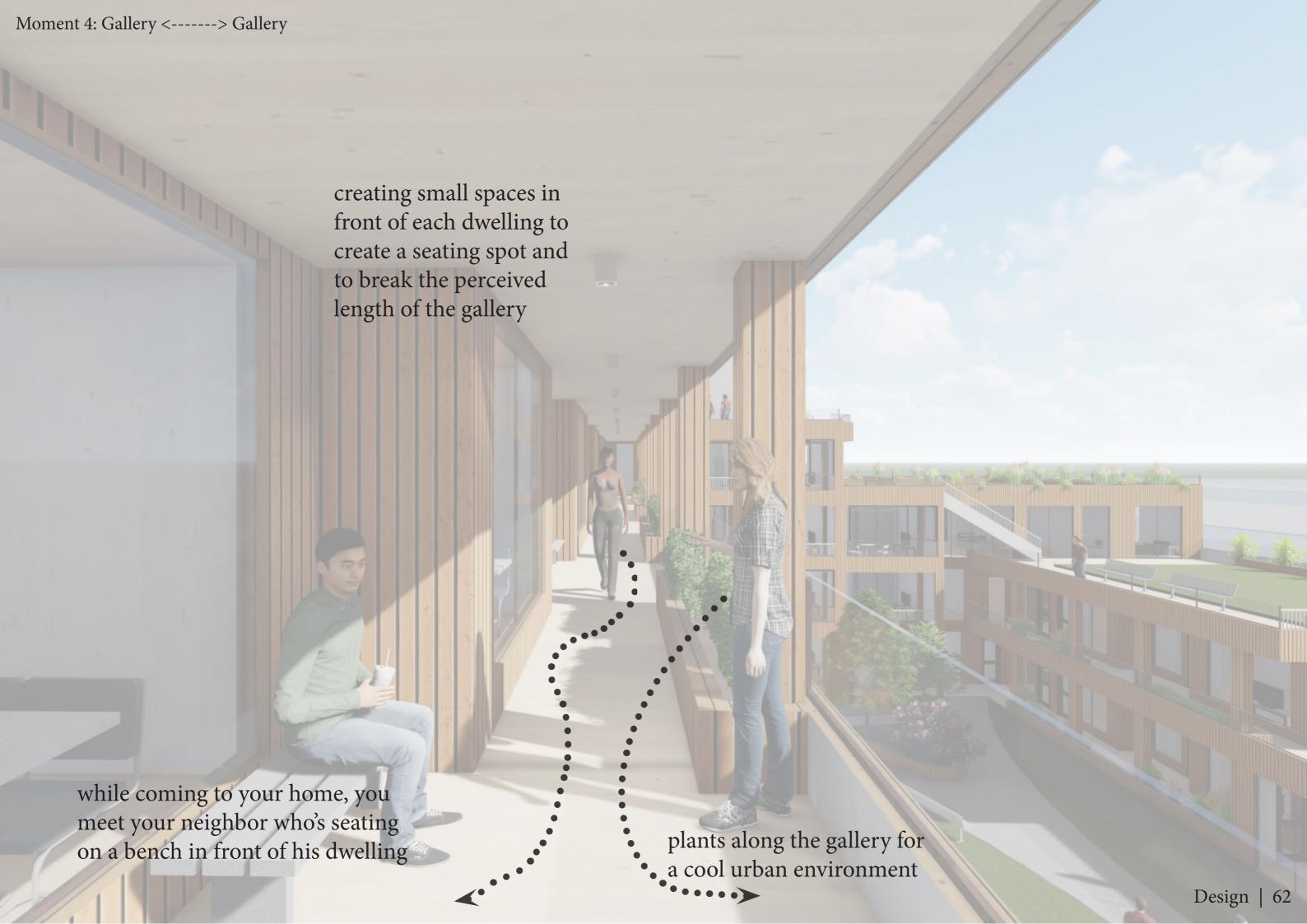
Nieuwe Maas













Outside sitting - street level



Cafe (Verhalenhuis) - street level



Roof terrace - first dwelling level



Green house - inner yard level



Study room - inner yard level



Planting - on each level



Gallery - on each level



Fitness room - middle of the tower

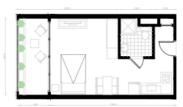


Multifunctional room - middle of the tower

Dwellings typology



Corridor typology



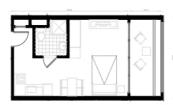
Type A1 (31.5 m2)



Type B1 (63 m2)



Type C (22 m2)

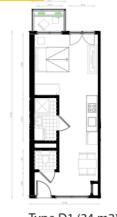


Type A2 (29.25 m2)



Type B2 (58.5 m2)

Gallery typology



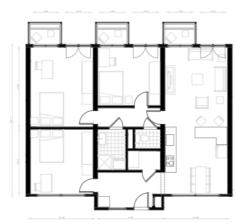
Type D1 (34 m2)



Type D2 (65.5 m2)



Type D3 (65.5 m2)



Type A1 (97 m2)

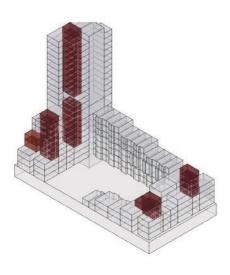


Type A1 (64 m2)

Type A1

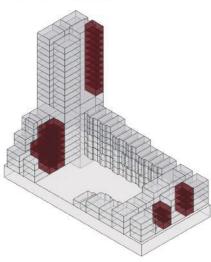
- Studio (single)
- 31.5 m2
- Loggia / winter garden
- 35 studios

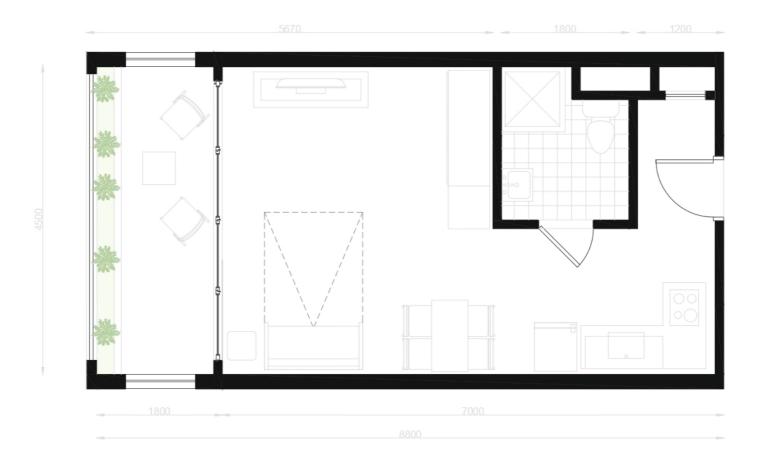
- bay width = 4500 mm
 Depth = 7000 mm
 Floor height = 2600 mm
 Corridor access

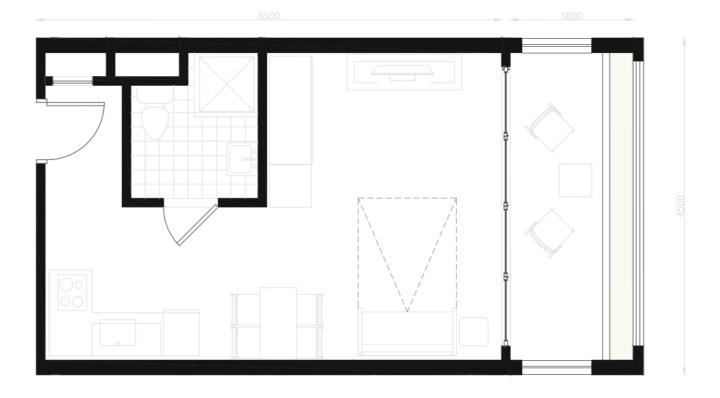


Type A2

- Studio (single)
- 29.25 m2
- Loggia / winter garden
- 34 studios
- bay width = 4500 mm
- Depth = 6500 mm
- Floor height = 2600 mm
- Corridor access



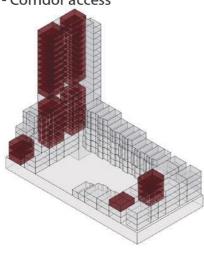




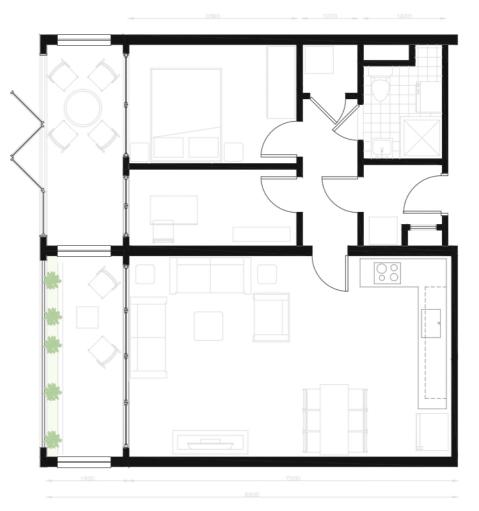


Type B1

- Appartment (couples)
- 63 m2
- Loggia / winter garden
- 44 appartments
- bay width = 4500 mm x2
- Depth = 7000 mm
- Floor height = 2600 mm
- Corridor access



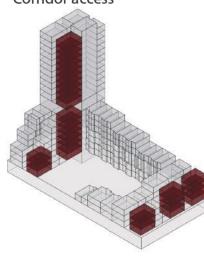


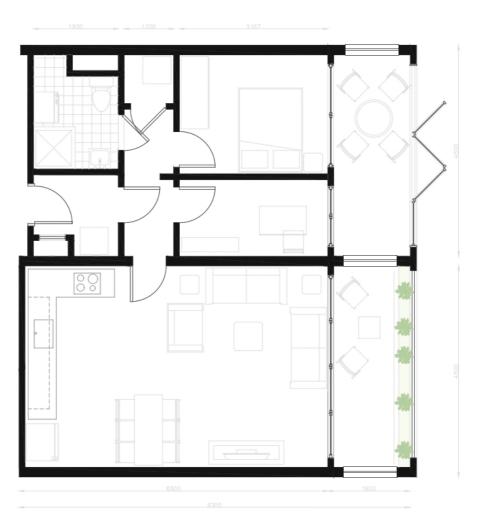


Type B2

- Appartment (couples)
- 58.5 m2
- Loggia / winter garden 32 appartments bay width = 4500 mm x2 Depth = 6500 mm

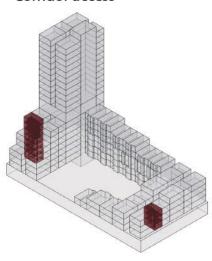
- Floor height = 2600 mm
- Corridor access





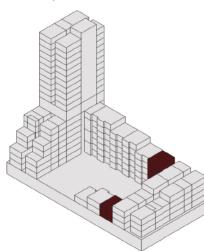
Type C

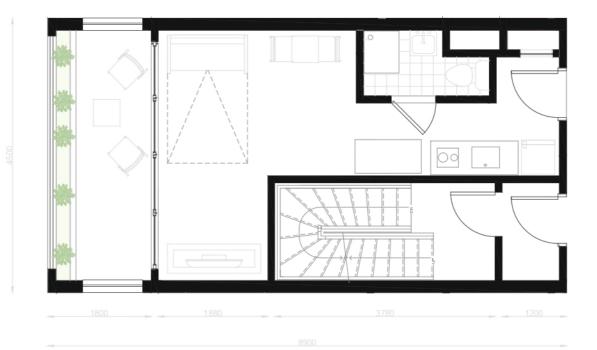
- Compact studio (single) 22 m2
- Loggia / winter garden
- 10 studios
- bay width = 4500 mm
- Depth = 7000 mm
- Floor height = 2600 mm
- Corridor access

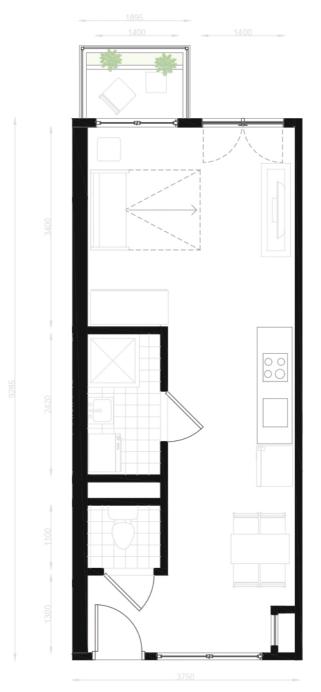


Type D1

- Studio (single)
- 34 m2
- Balcony \ french balcony
- 13 studios
- bay width = 3750 mm
- Depth = 9150 mm
- Floor height = 2600 mm
- Gallery access

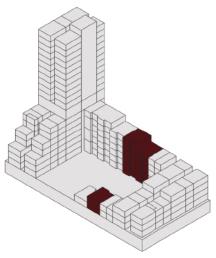






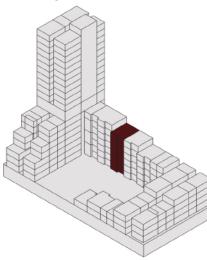
Type D2

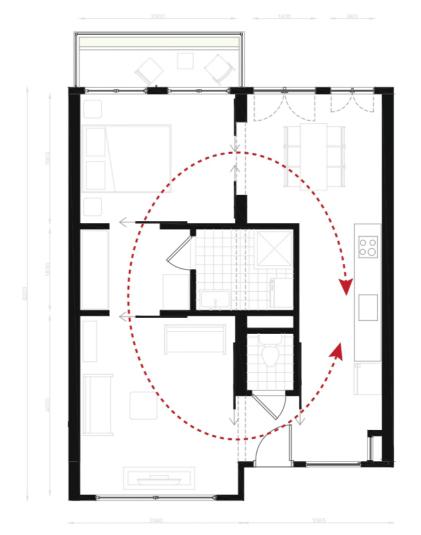
- Appartment (couples)
- 65.5 m2
- Balcony / french balcony
- 13 appartments
- bay width = 7000 mm
- Depth = 9150 / 8400 mm
- Floor height = 2600 mm
- Gallery access
- Has circular movement due to sliding doors

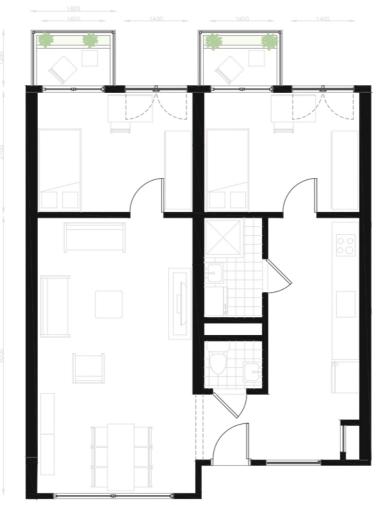


Type D3

- Appartments (couples)
- 65.5 m2
- Balcony \ french balcony
- 6 studios
- bay width = 3750 mm (x2)
- Depth = 9150 / 8400 mm
- Floor height = 2600 mm
- Gallery access



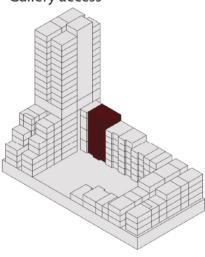






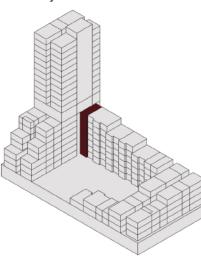
Type D4

- Shared housing (3 persons)
- 97 m2
- Balcony / french balcony
- 7 appartments
- bay width = 3750 mm (x3)
- Depth = 9150 / 8400 mm
- Floor height = 2600 mm
- Gallery access



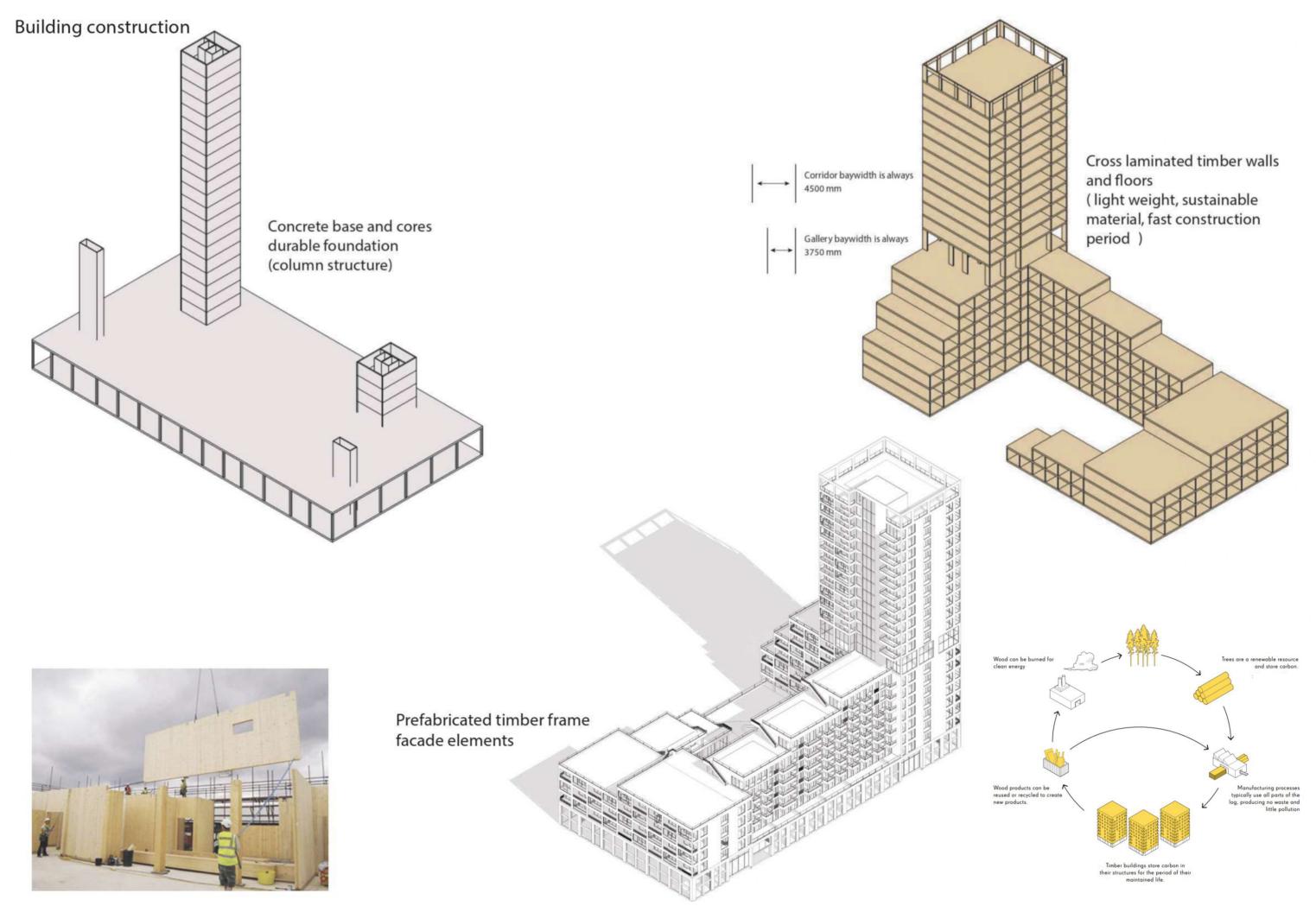
Type D5

- Shared housing maisonette (2 persons)
- 68 m2
- Balcony \ french balcony
- 3 studios
- bay width = 3750 mm
- Depth = 9150 mm
- Floor height = 2600 mm
- Gallery access

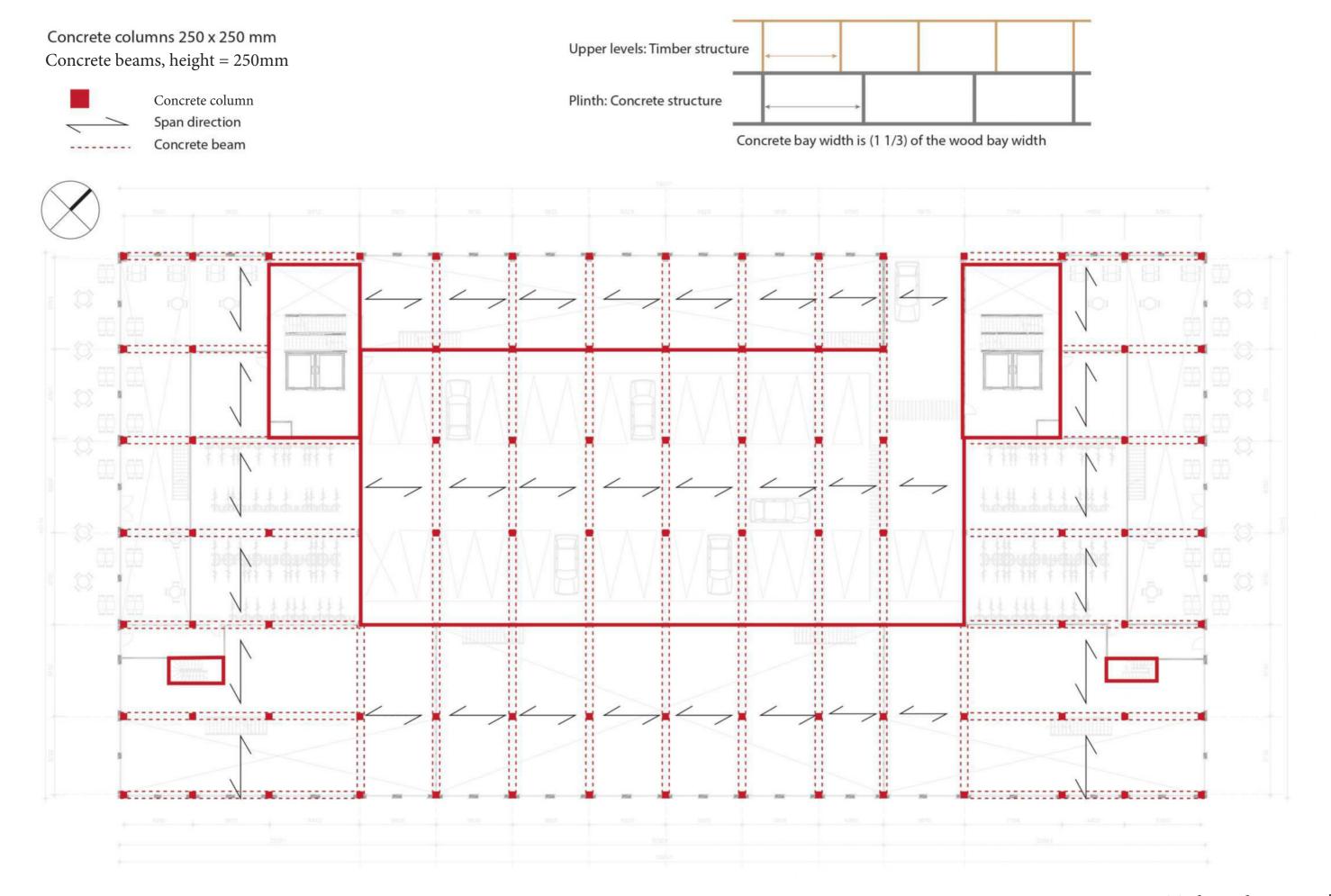






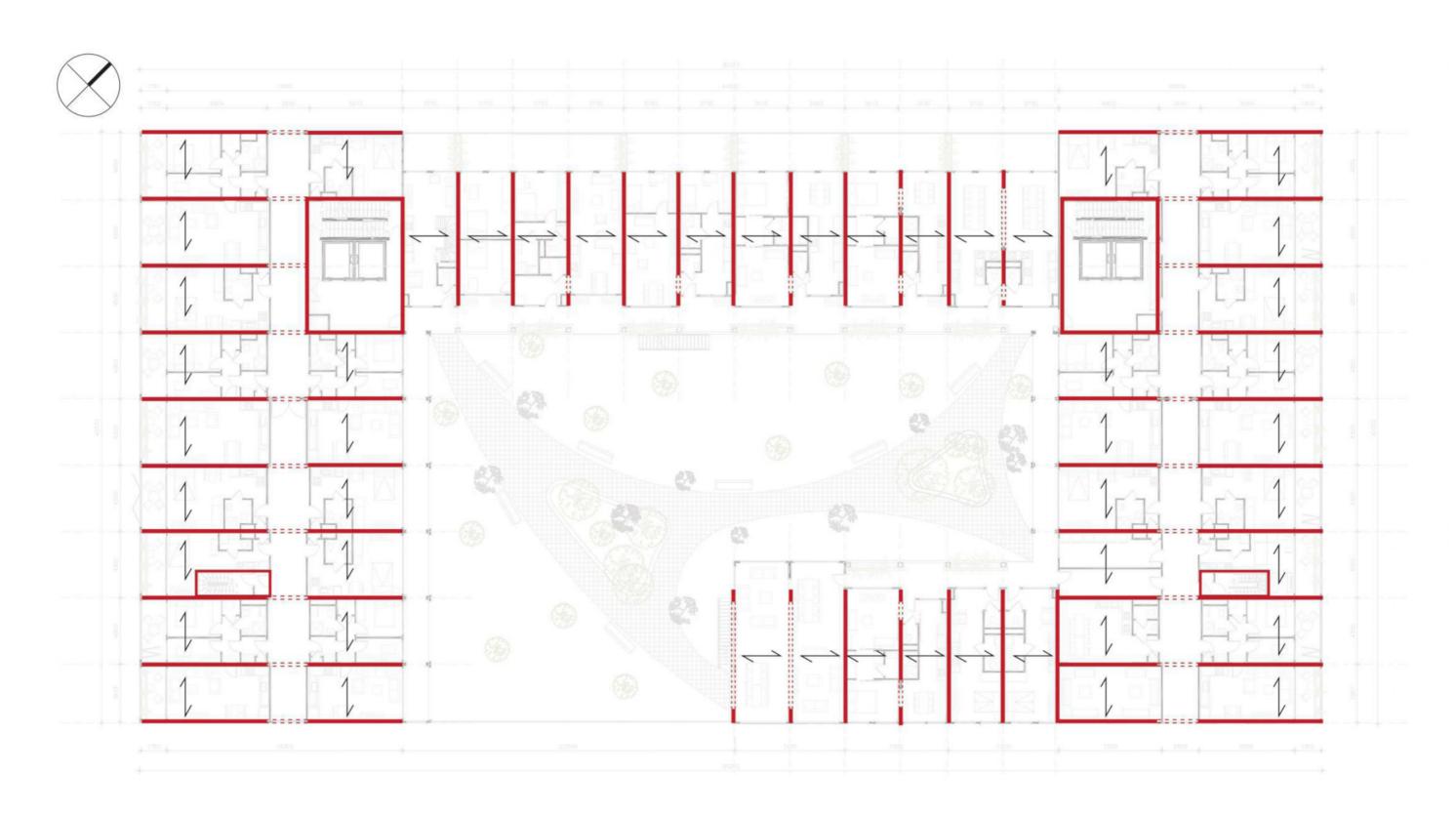


Ground floor construction 1/250



Second floor construction 1/250

CLT wall = 160 mm width CLT floor = 400 mm height



Materialization

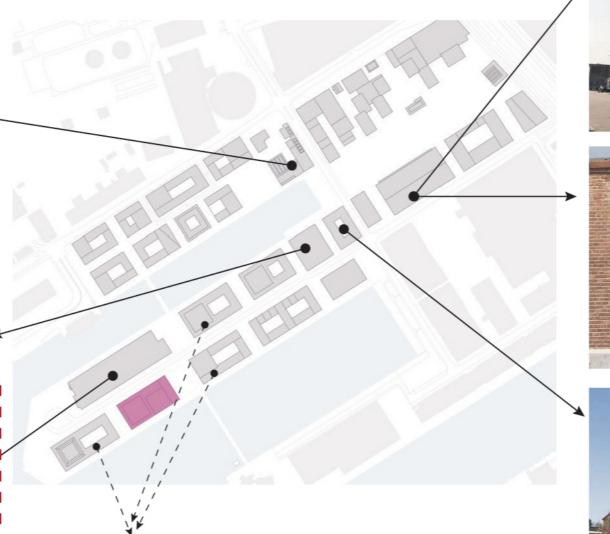
Brown \ red bricks, the typical material of that area

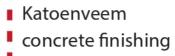








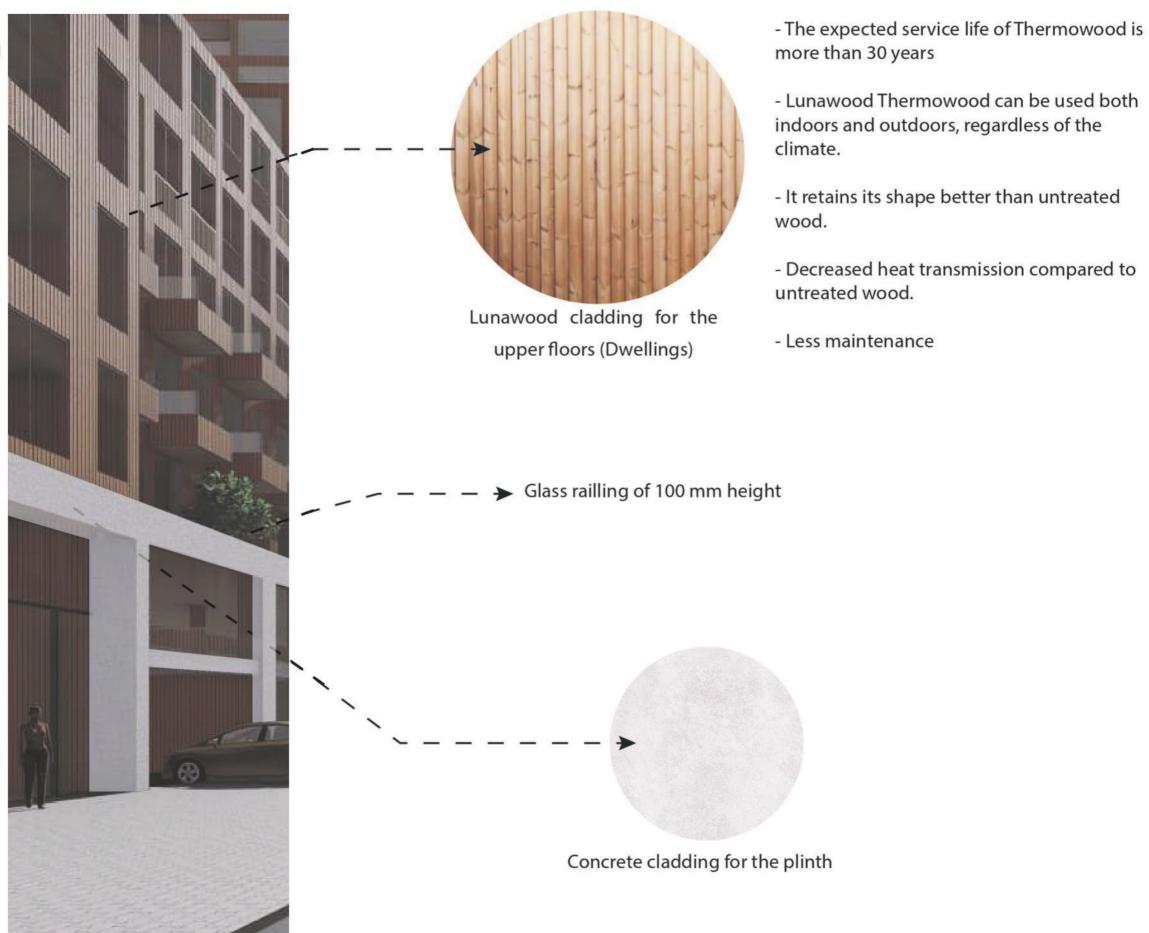




These buildings have no material!

Materialization

The outside materialization of the elevations is reflecting the construction material behind the elevations.





Colourization of the wood cladding

- A treatment process is applied on the wood cladding (Lunawood) that protects it from turning grayish

It is expected the material will slightly change its colour after ten years due to climate factors (rain water - sunlight)



The original color



10 years later



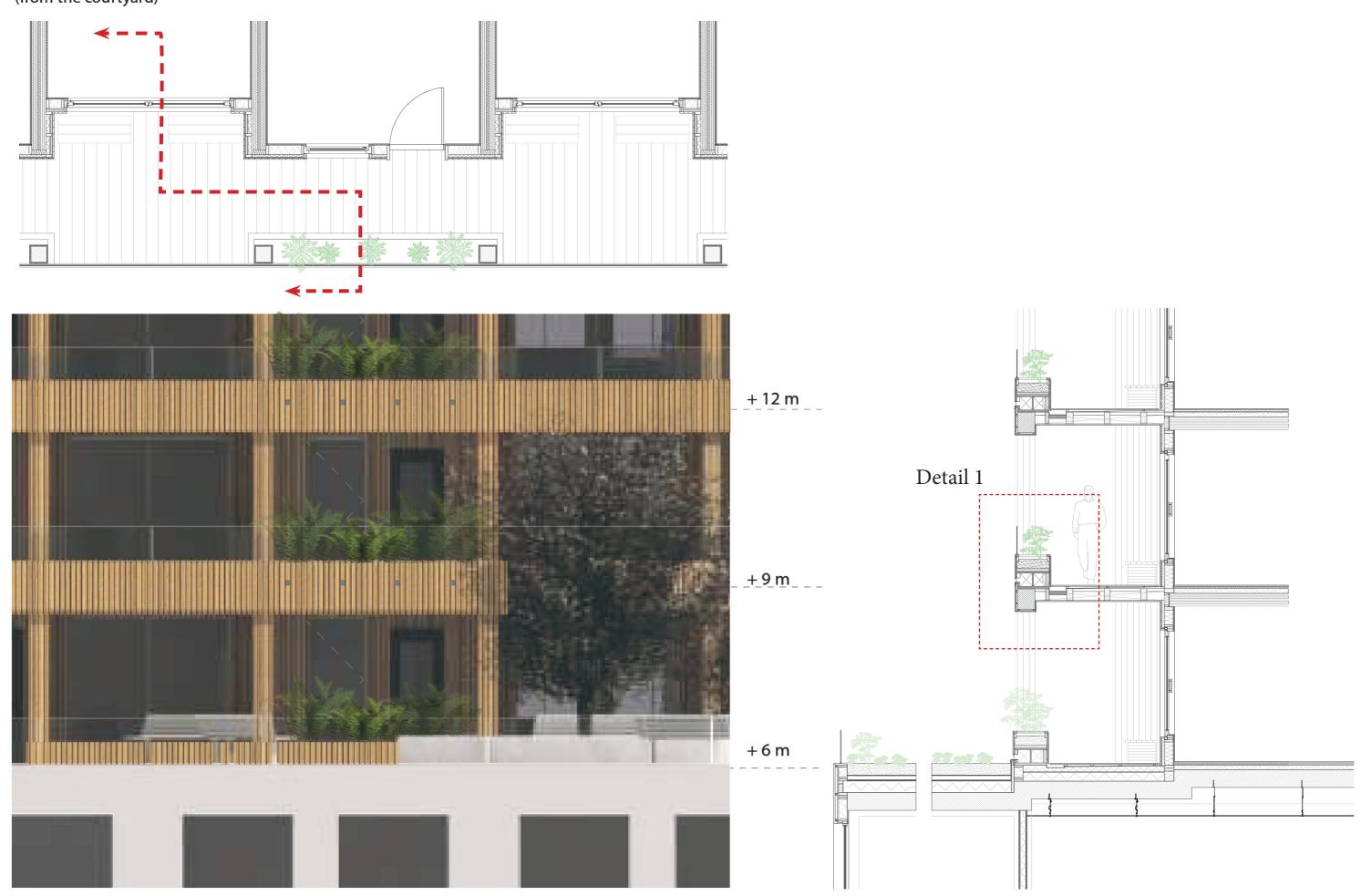
Wood colour before and after many years

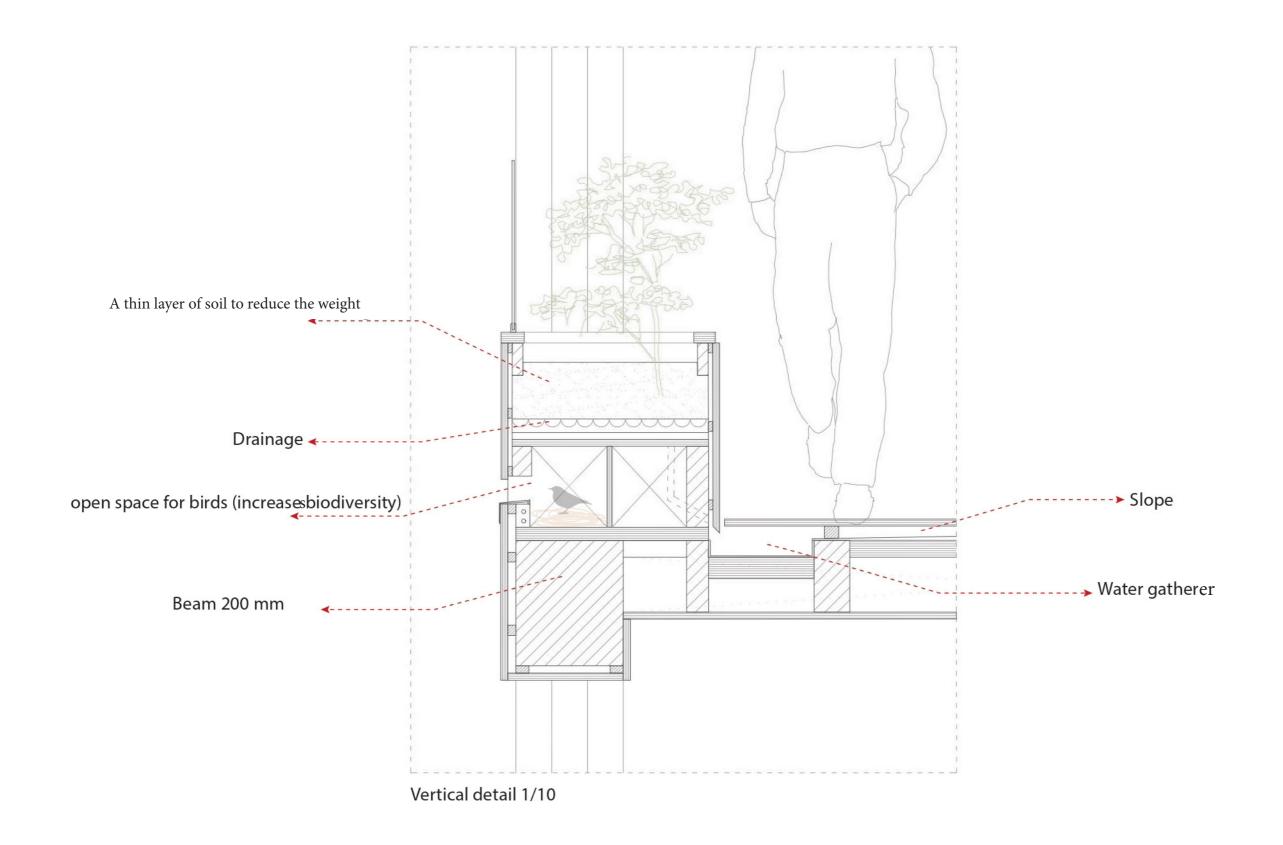
Two facade fragments





Facade fragment 1 (from the courtyard)





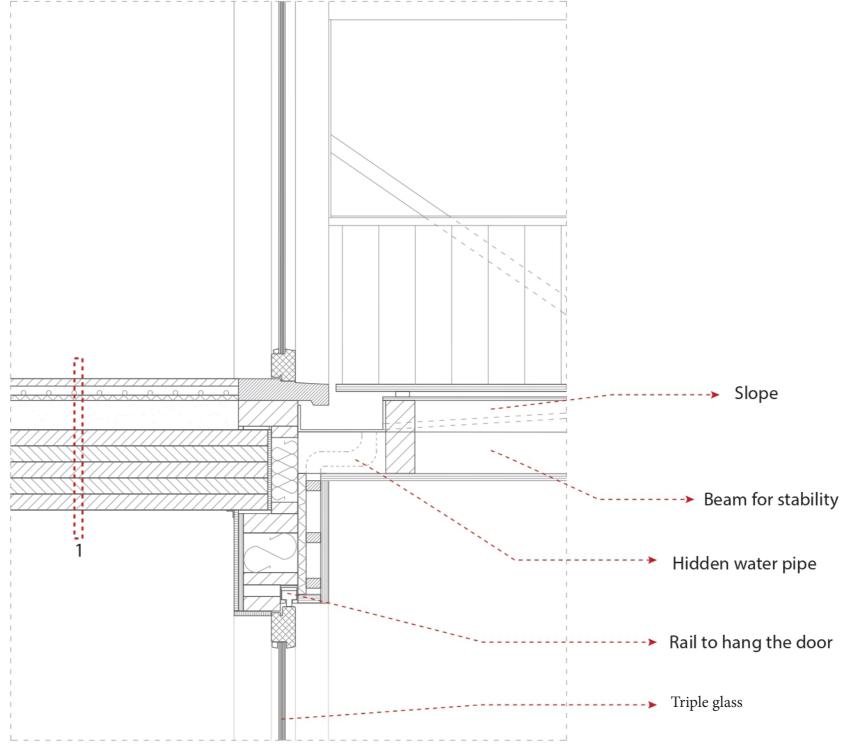




Detail 2 Balcony detail

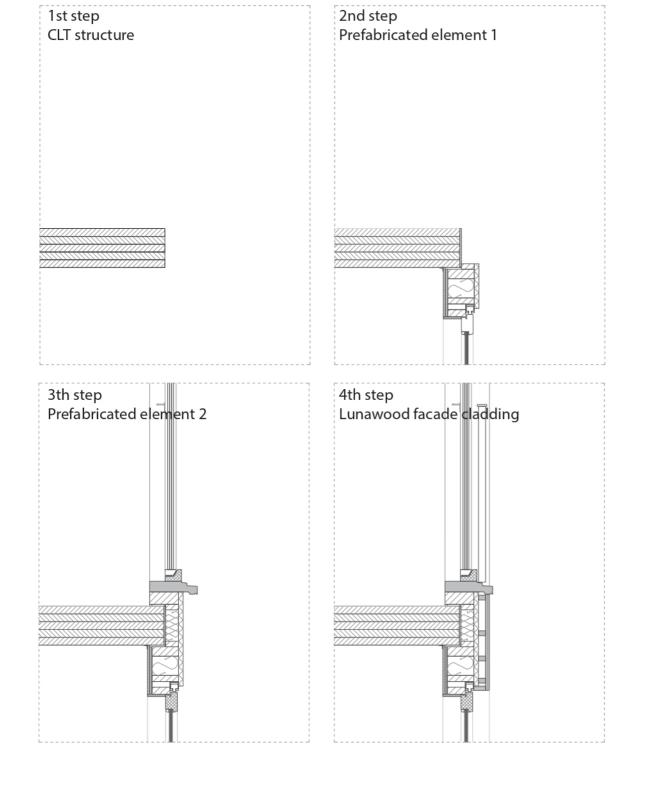
1- From top to bottom:

- Floor covering
- Plate with floor heating (18 mm)
- Insulation layer (15 mm)
- Sand layer (80 mm)
- CLT floor (220 mm)



Vertical detail 1/10

Detail 3 Facade detail

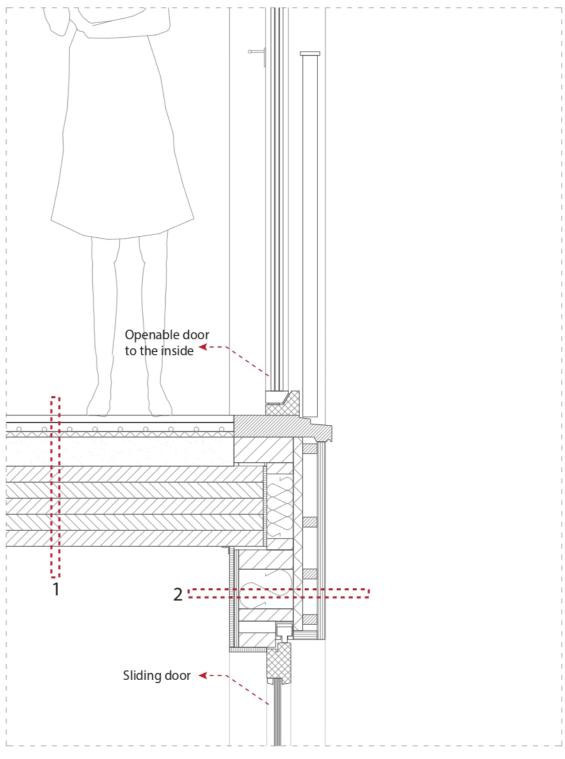


1- From top to down:

- Floor covering
- Plate with floor heating (18 mm)
- Insulation layer (15 mm)
- Sand layer (80 mm)
- CLT floor (220 mm)

2- From left to right:

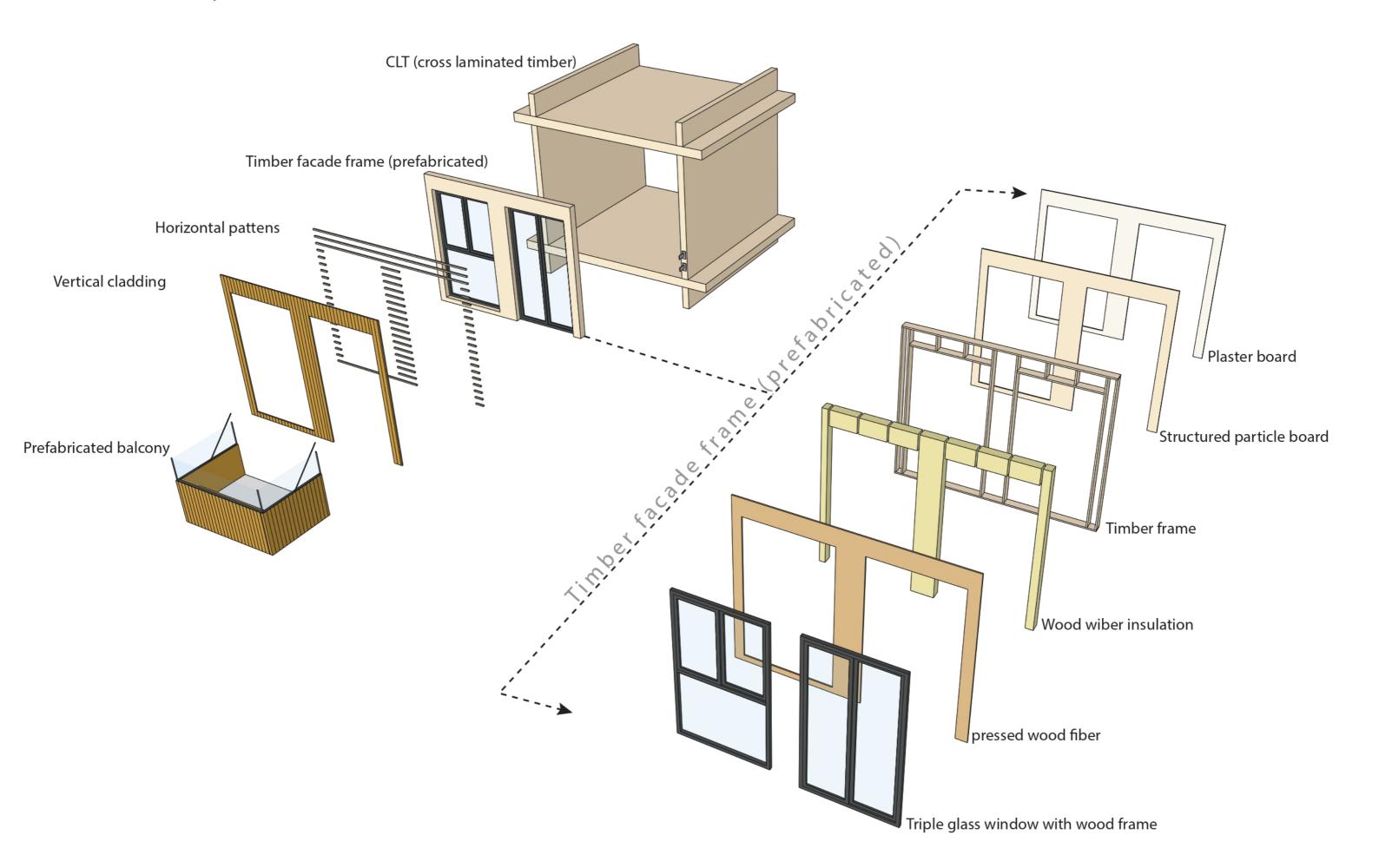
- Plasterboard (13 mm)
- Structured particle board (13 mm)
- Timber frame with wood fiber insulation (160 mm)
- Wood fiber insulation (30 mm)
- Horizontal pattens (40 mm)
- Lunawood vertical cladding (22 mm)



Vertical detail - Facade detail 1/10 Facade with floor

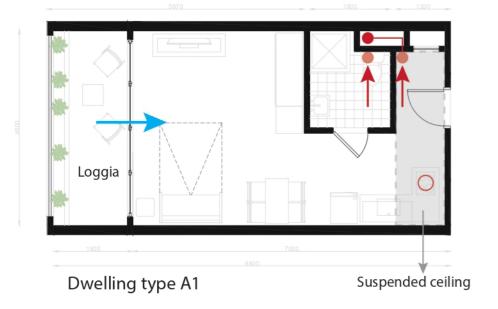


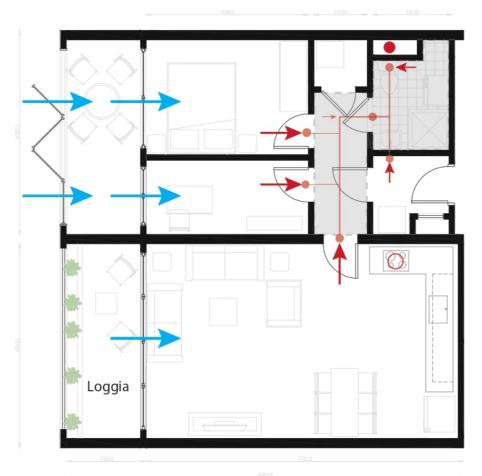
Facade assembly



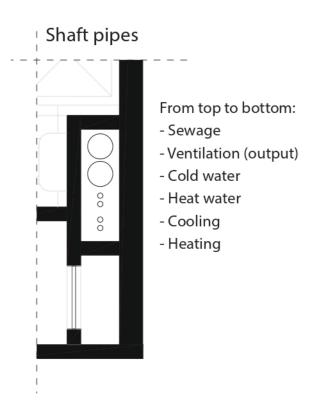
Climate section Sun panels fresh air (natural input) * biodiversity rain water (mechanical output) fresh air (natural input) filtered watering plants watering plants in case of overflow Mieuwe Maas/ Lekhaven flushing toilets

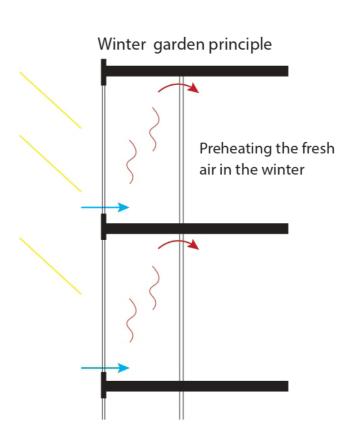
Ventilation

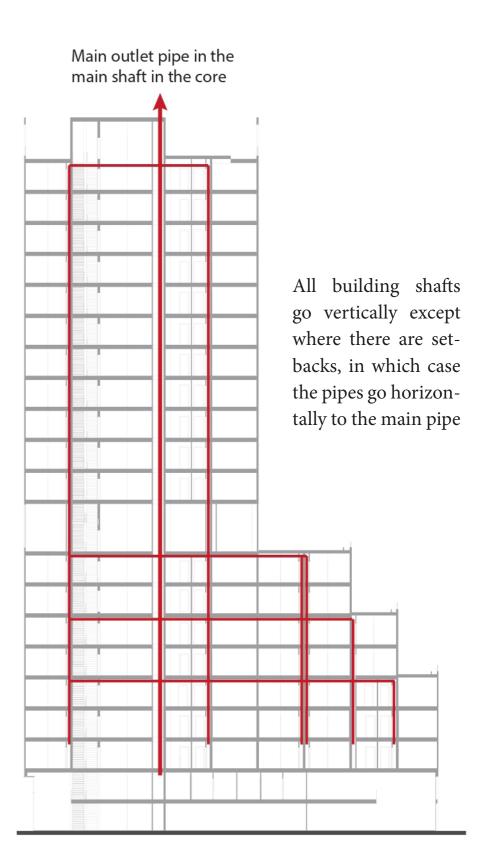




Dwelling type B1















THANKS FOR YOUR ATTENTION