THE CITY - PLACE FOR ALL

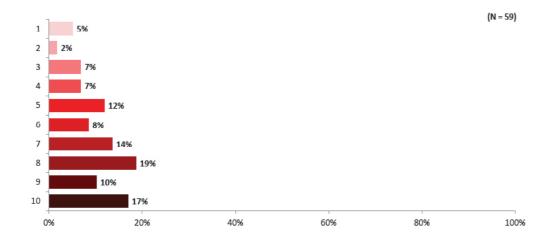
Exploring the possibilities to attract families back in the city through the case of the Expat families

Mihaela Tomova Student ID: 5091985

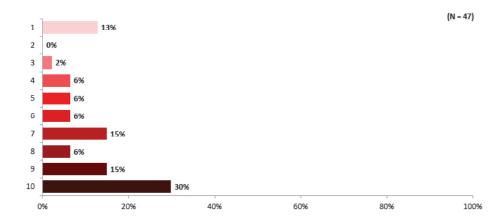


Household type: married/unmarried couple without children	Household type: married/unmarried couple with 1 or more children (family)	Household type: single parent with 1 or more children
Dwelling type: one level - compact	Dwelling type: one or two - levels (loft)	Dwelling type: one level - compact
Dwelling size: 50 - 80 m ²	Dwelling size: 85 - 160 m²	Dwelling size: 50-80 m²
Bedrooms: 1- 2	Bedrooms: 2 or more	Bedrooms: 2 or more
Shared spaces: kitchen, event space, shared	Shared spaces: playgrounds, play rooms,	Shared spaces: playgrounds, play rooms,
working space, exercise room	multifunctional zones, exercise room	multifunctional zones, exercise room
Facilities: shops, cafe	Facilities: children daycare, shops	Facilities: children daycare, shops

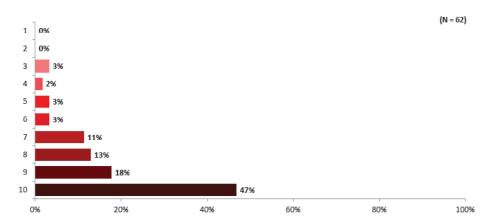
TARGET GROUP - QUESTIONNAIRE



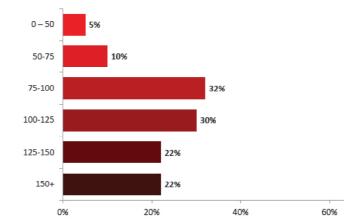
Results from rating (1 - 10) the importance of having a shared outdoor space



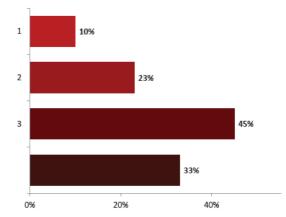
Results from rating (1 - 10) the importance of having playgrounds as shared facility



Results from rating (1 - 10) the importance of having a private outdoor space



Responces to the question "How many square meters do you need?



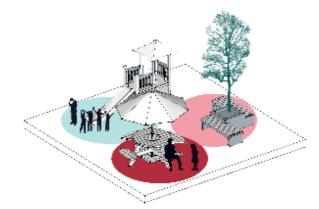
Responces to the question "How many bedrooms do you need?

3

DESIGN STRATEGY BASED ON RESEARCH

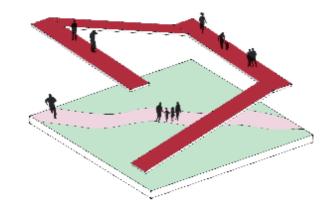
MULTIFUNCTIONAL ZONE

The multifunctional zones allow interactions between parents and in between children. The literature research shows that parents would like to have something to do while watching their children play on the playground. Therefore, the multifunctional zone can give them the freedom to work, interact with other parents, do sports or relax.



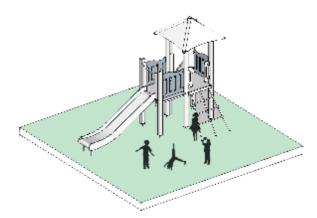
PATHS

The paths are interesting way to stimulate the interaction between the residents. The design for M4H allows for both horizontal and vertical paths. In the research by Marcus, residents say that the corridors allow for informal social interactions which makes them closer to their neighbours. On the other hand, the children's ideal neighbourhood also includes a lot of paths, which they see as opportunity of exploration.



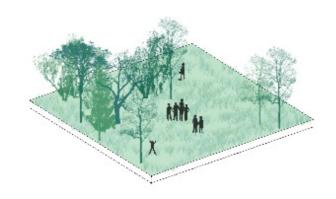
PLAYGROUNDS

The playgrounds are zones purely designed for children. However, they should be part of multifunctional zones where parents can do something else as well. The playgrounds can hold children in different age groups but in general only children up to 12 years old are interested in the play grounds.



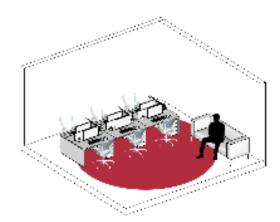
WILD ZONES

The wild zones will also be designed for children and specifically their curiosity and desire to explore. The idea of the wild zone is to provide a green space where children can connect to nature. There are a lot of positive aspects which green brings to development of the children - better concentration, friendliness, healthy environment.



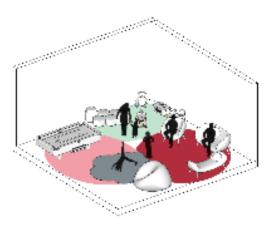
STUDY/OFFICE SPACE

The study and office space will be designed for parents and older children which can study together and invite friends. From the interviews it can be concluded that most of the mothers work from home, not only during the pandemics. Therefore, a working space which is visually connected with the play room can allow better working environment for the parents who work from home.



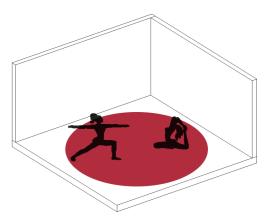
MULTI- FUNCTIONAL ZONE

The inside multifunctional zone has the same principles as the outside multifunctional zone. It should allow parents and children to gather together. The space can be designed as flexible, therefore it can also be used as an event room for the community. For example it can be used as a National day celebration of the different cultures, International food event etc.



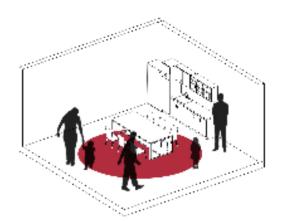
EXERCISE ROOM/GYM

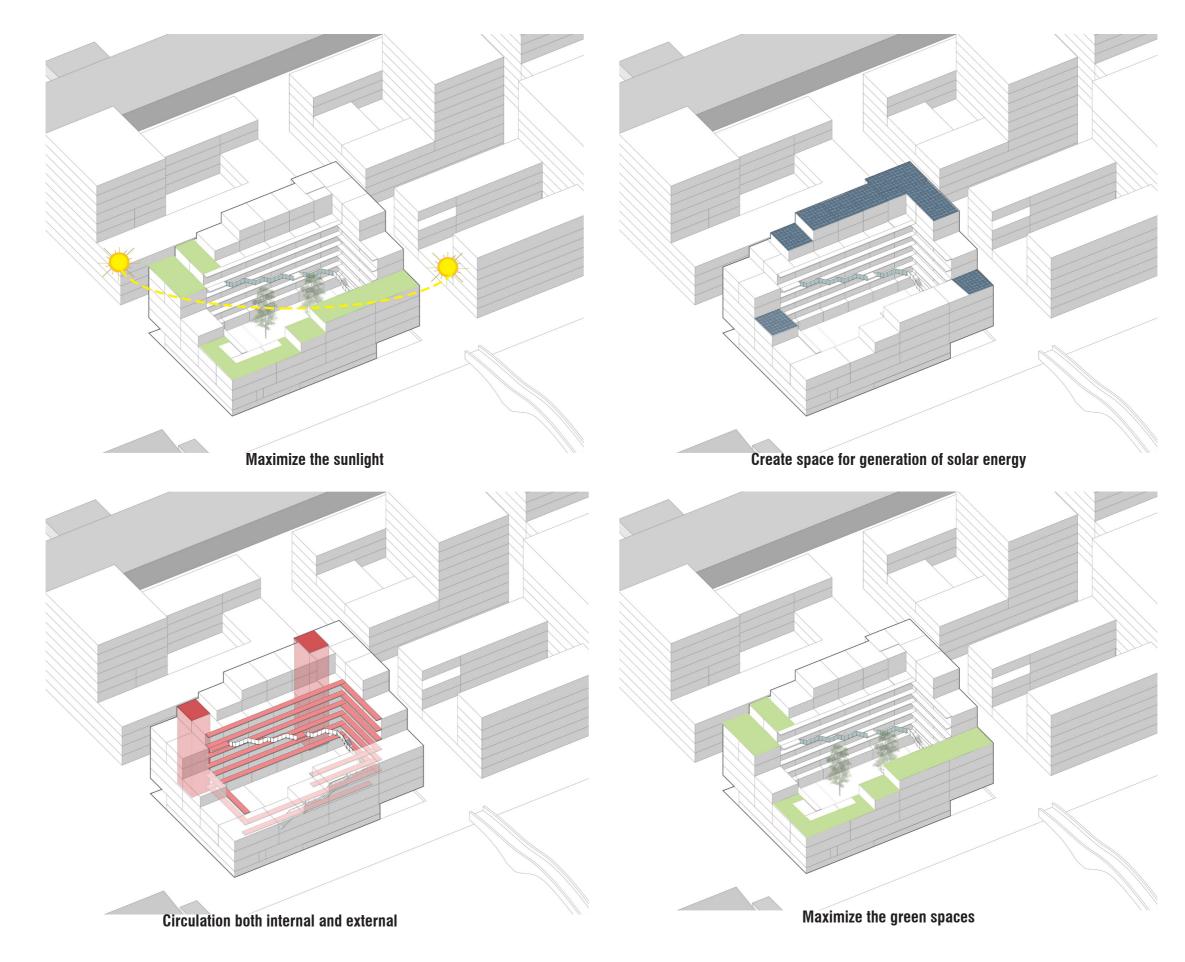
The exercise room will be a flexible space dedicated to sport and sport classes. It is mainly for the parents but can be designed as such to have a visual connection to the play zone. This way parents can have an activity while their children are playing.



KITCHEN/EVENT PLACE

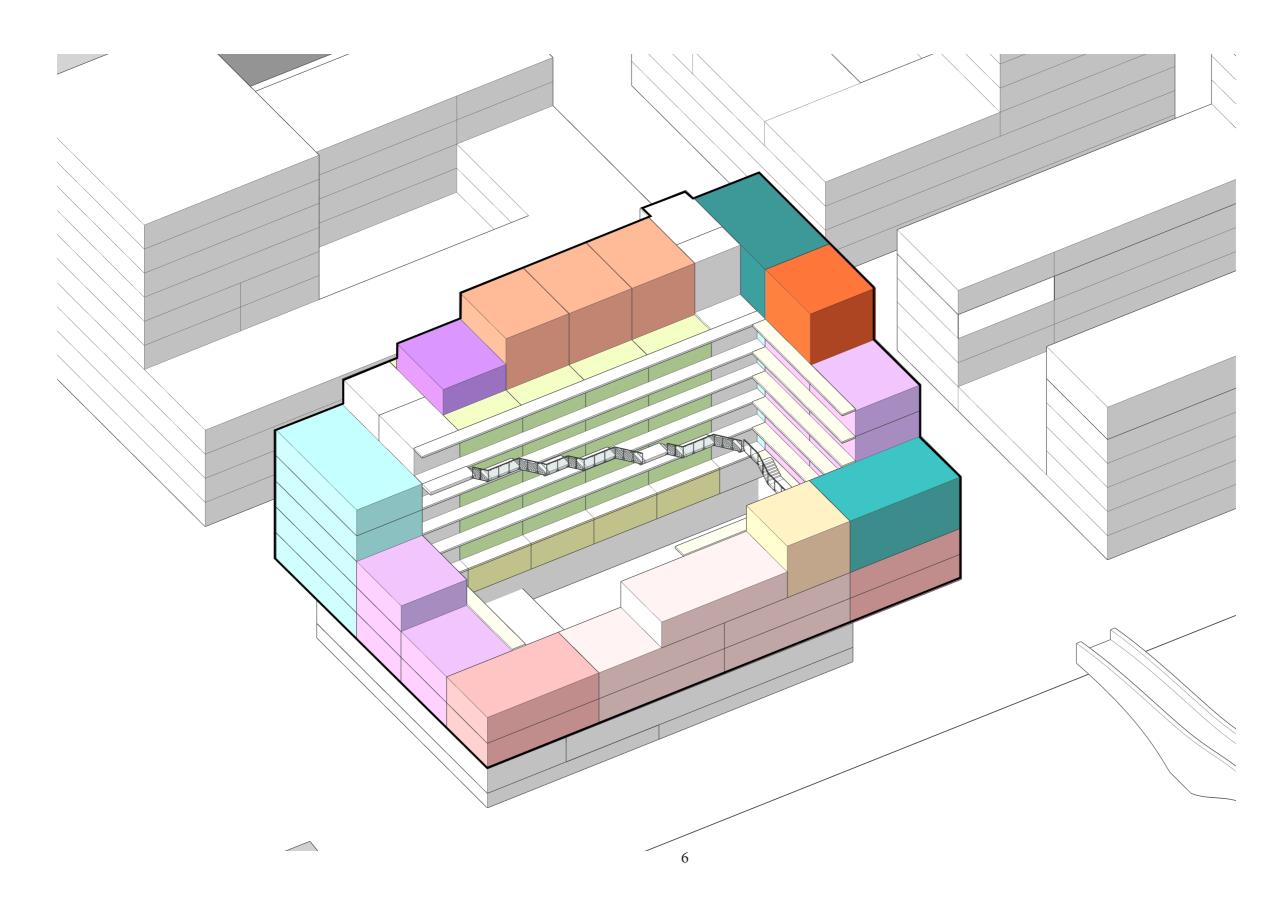
The kitchen will be the place for families to gather together. The kitchen can serve the cluster and can be also used as an event space. In most cohousing projects the cluster kitchen is used for informal gatherings and communication, while when there is an event for the whole community, then the multi - functional zone will be used.



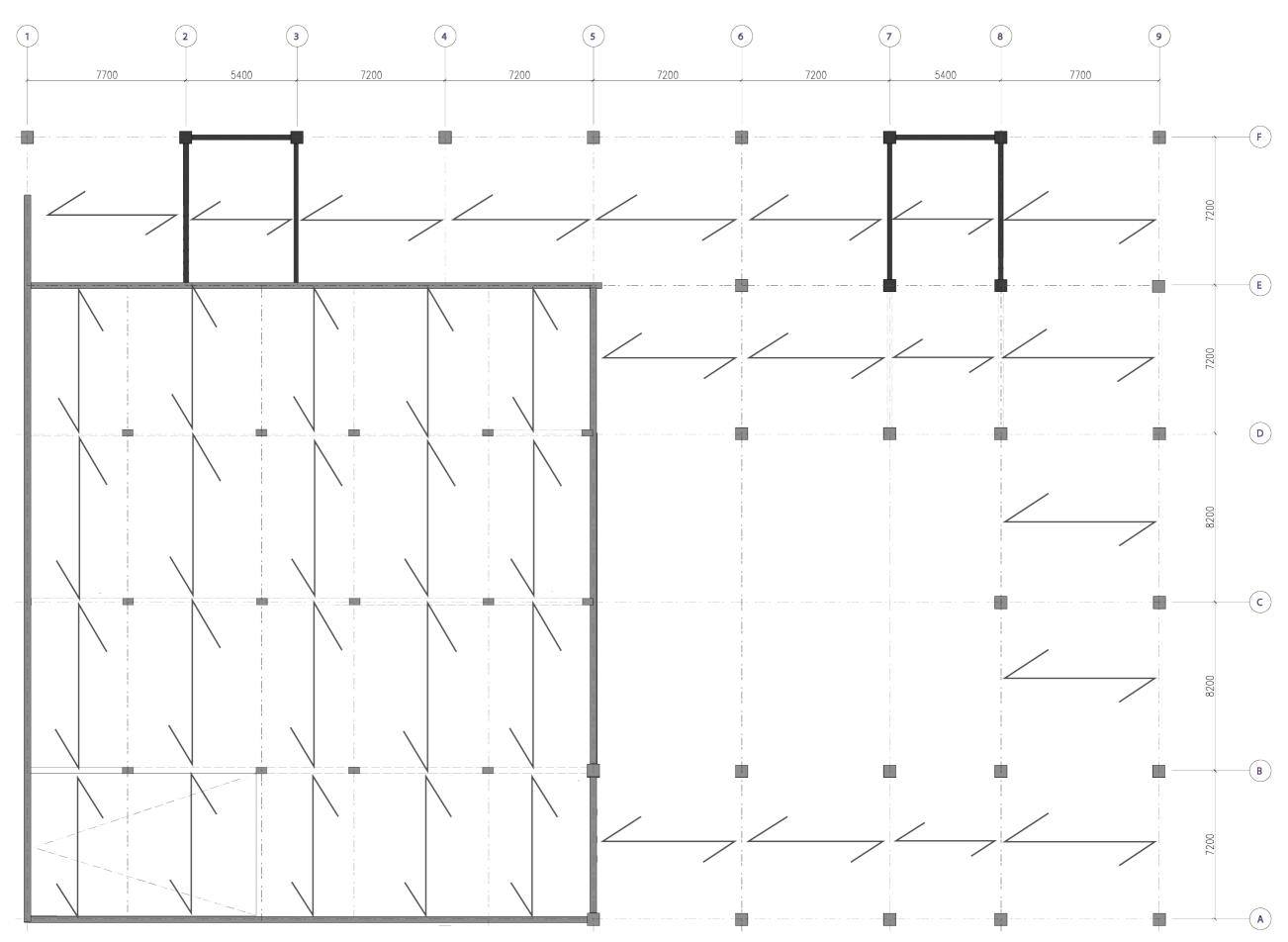


DWELLING TYPES

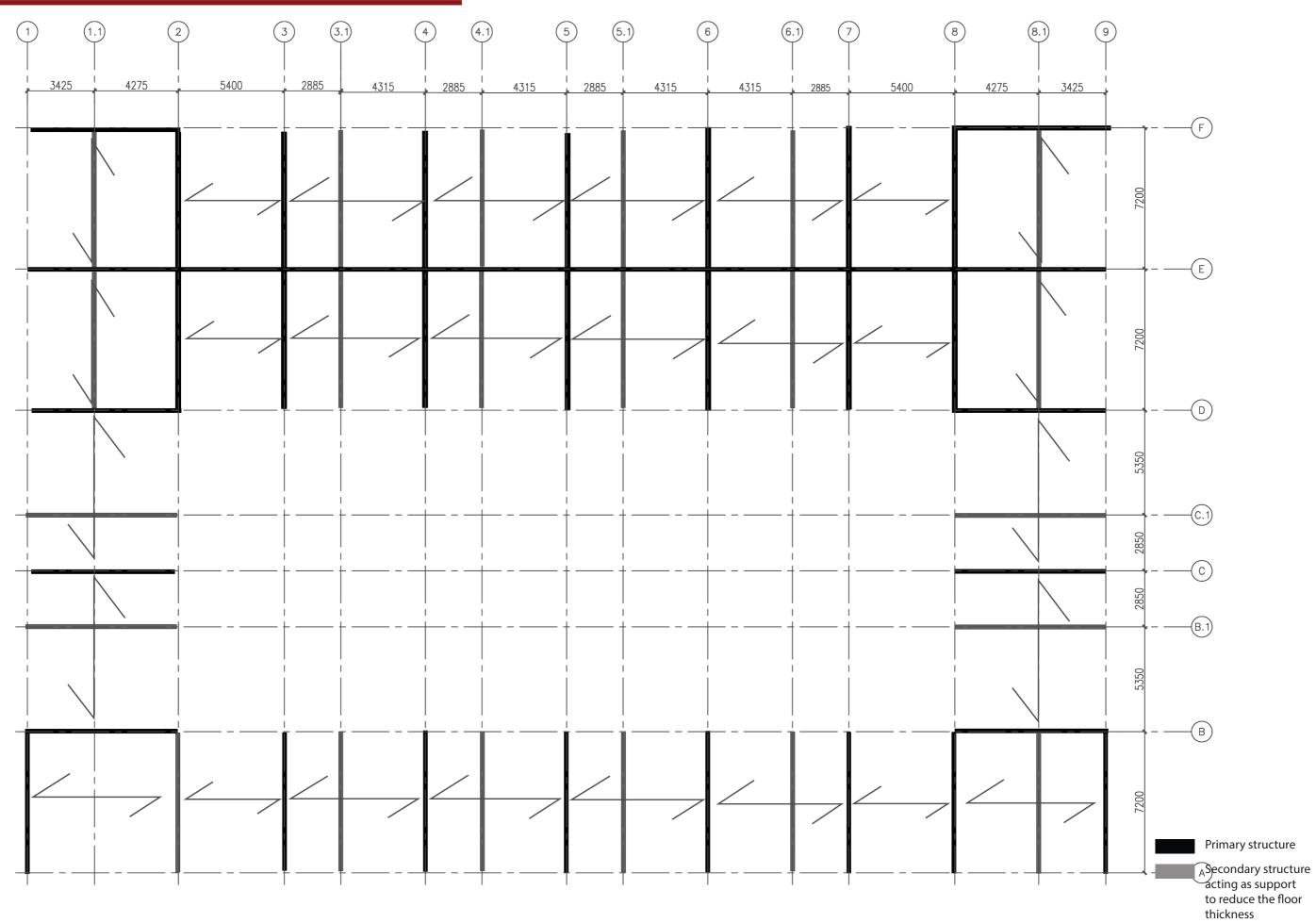
Number of dwellings: 69 Range: 63,8 - 177,8 m² Types: 12



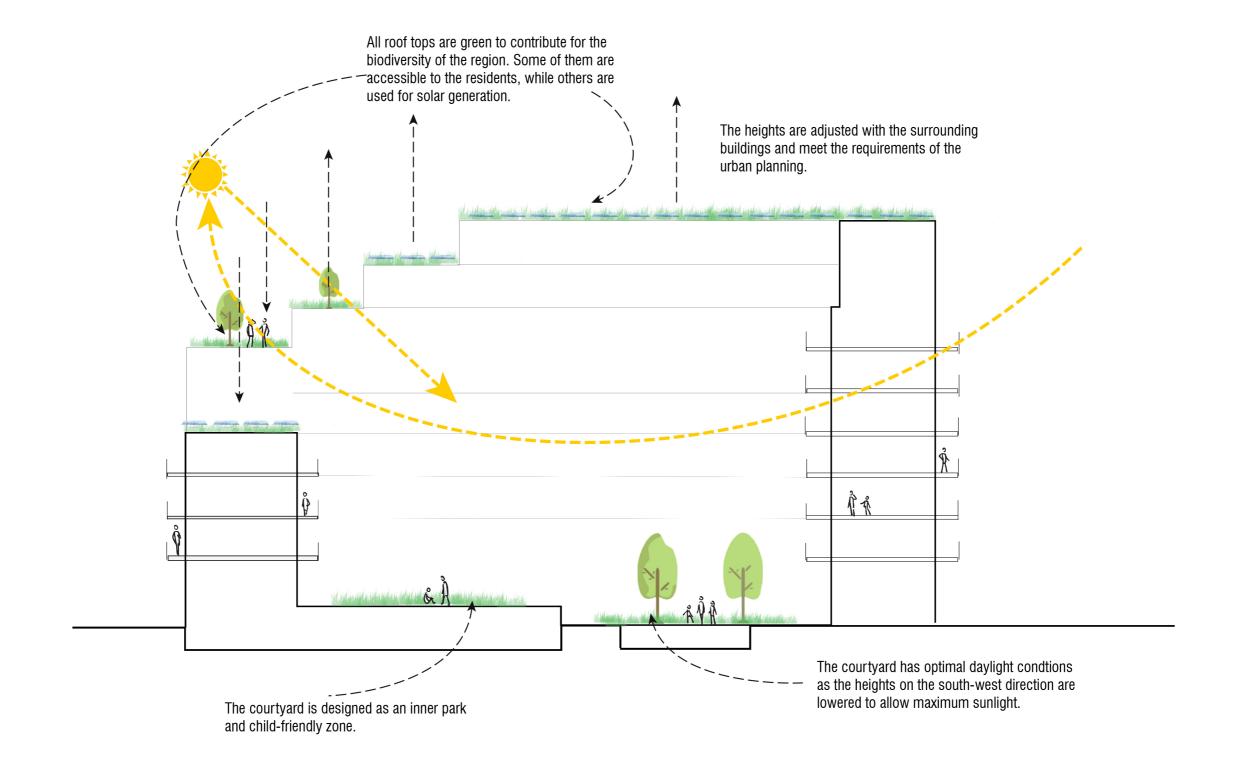
CONCRETE LOAD BEARING STRUCTURE

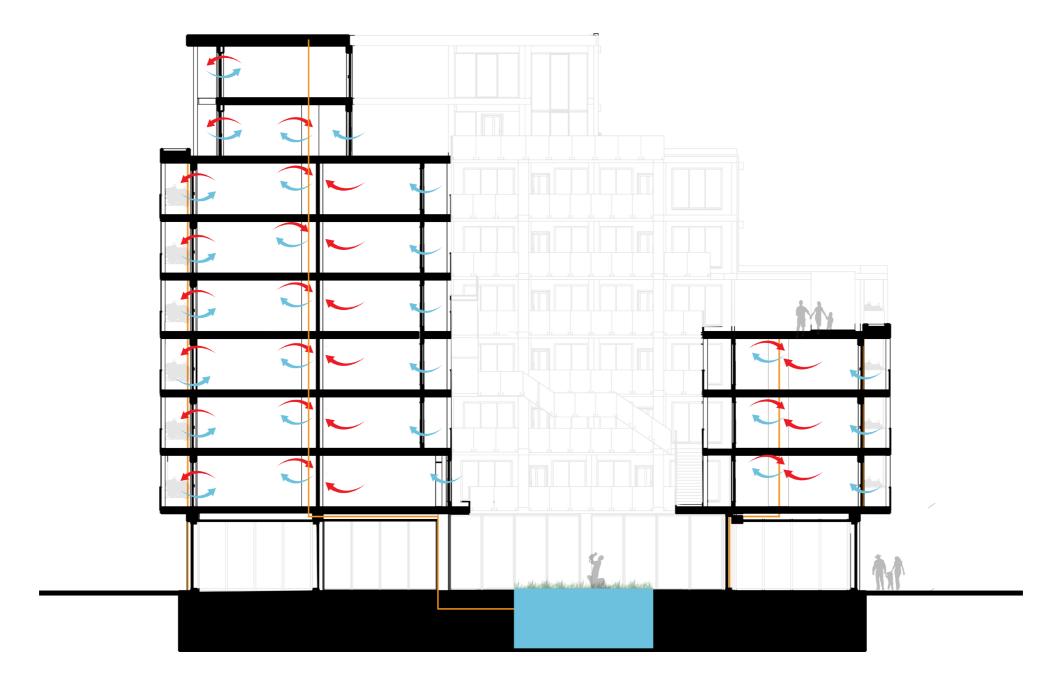


LOAD BEARING STRUCTURE



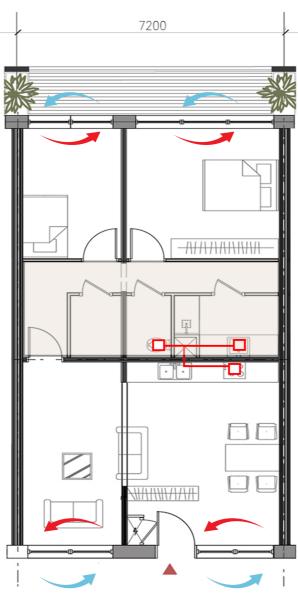
CONCEPT PRINCIPLE





Collection of the rainwater from the balconies and the rooftops would allow reusing the water for watering the plants.

VENTILATION ON DWELLING LEVEL



Schuco frames for ventilation and preheating the air
The supplied fresh air is alreafy preheated by the used exhaust air.

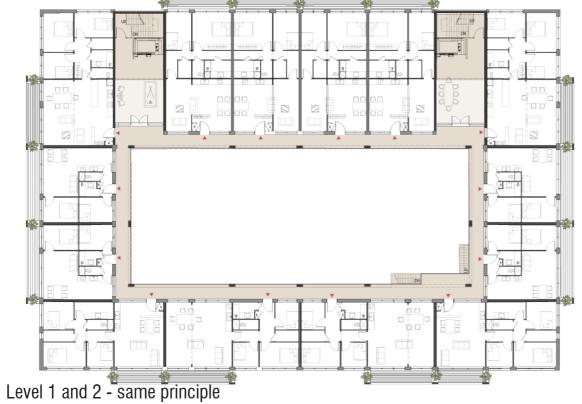
Suspended ceiling

Air outlets for exhaust air from kitchen, bathroom and toilet.

Schuco frames for ventilation and preheating the air
The supplied fresh air is alreafy preheated by the used exhaust air.

CIRCULATION, PARKING, PUBLIC



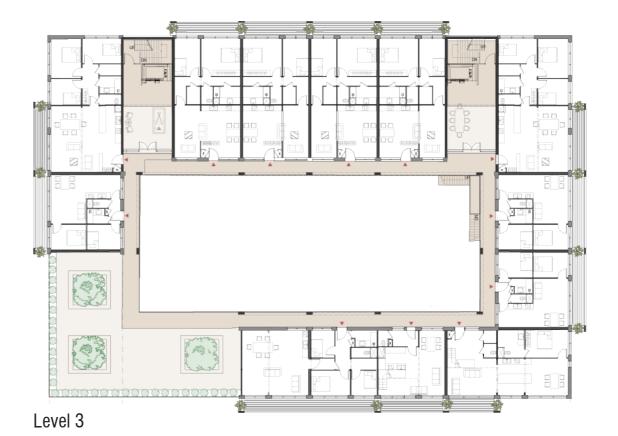


Car sharing facility/parking

Circulation



Level 0+



Commercial function

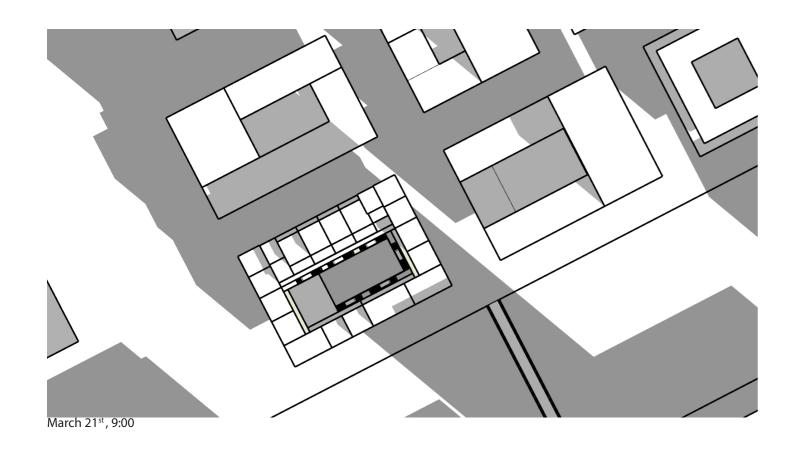
Bicycle parking

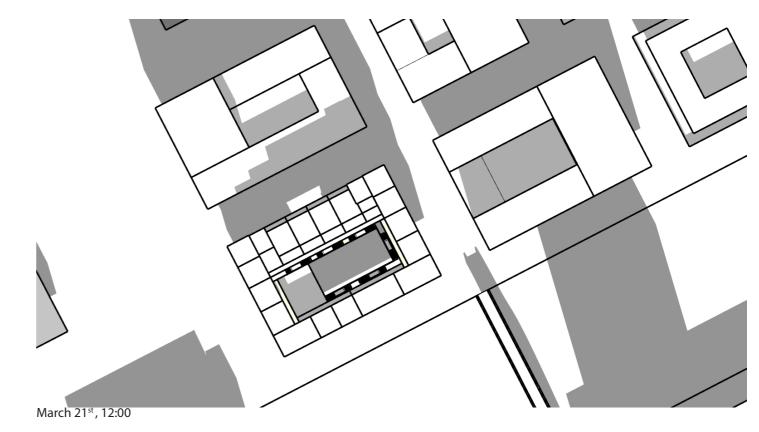
Collective space

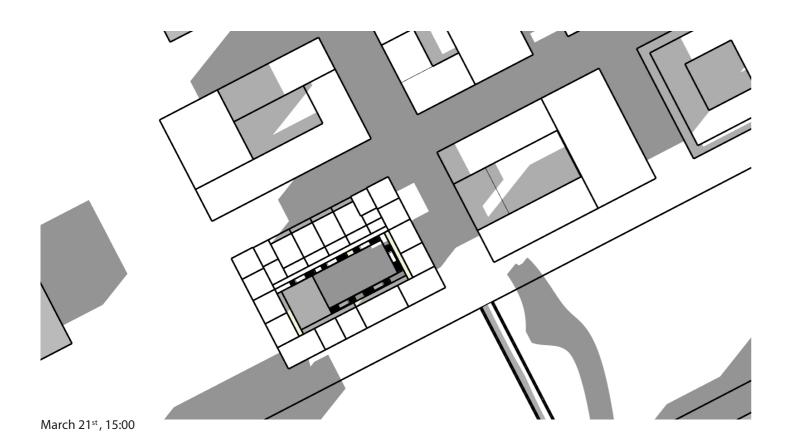
CIRCULATION, COLLECTIVE

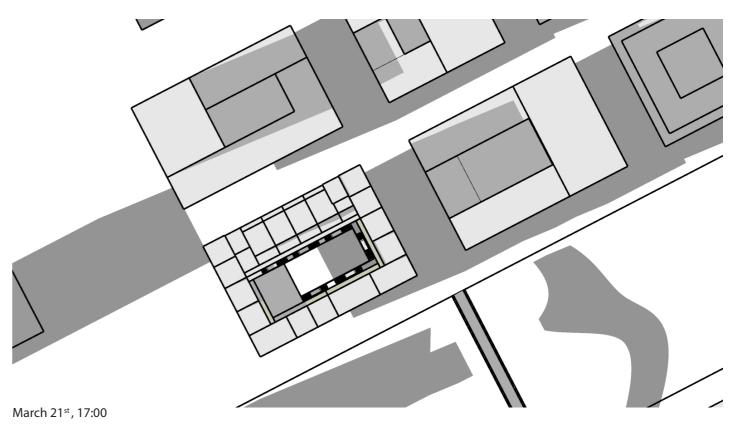


SUN ANALYSIS



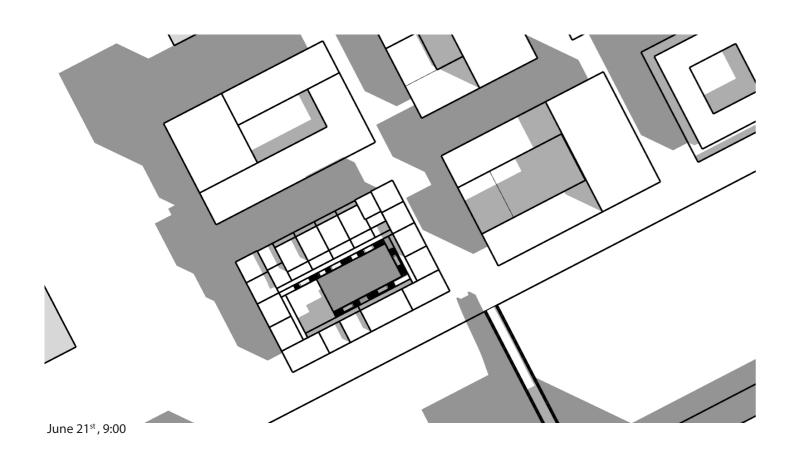




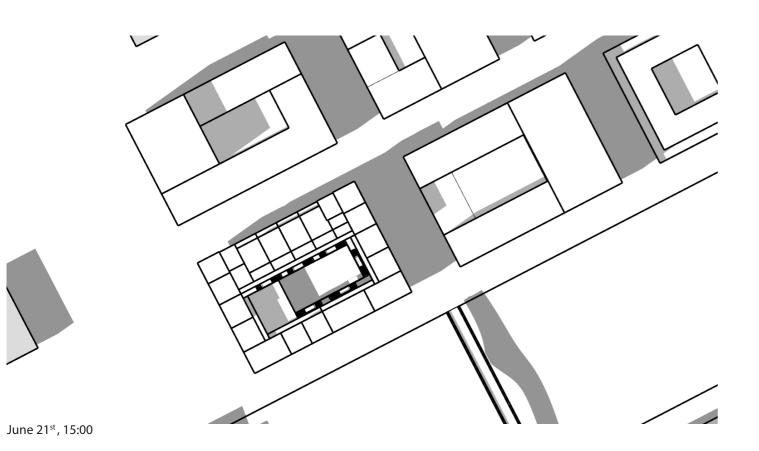


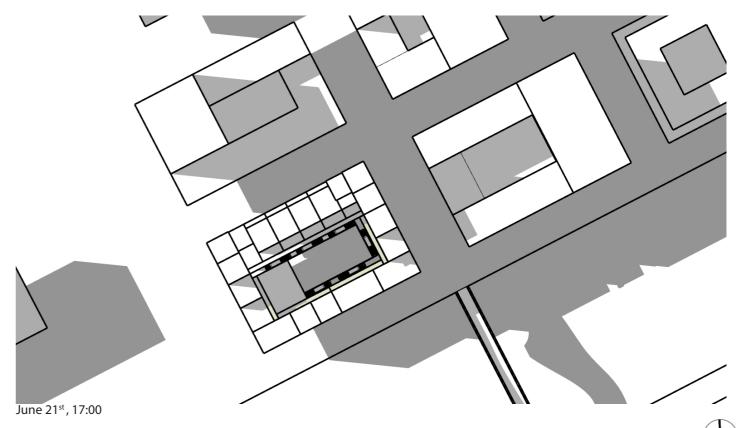
(T)

SUN ANALYSIS









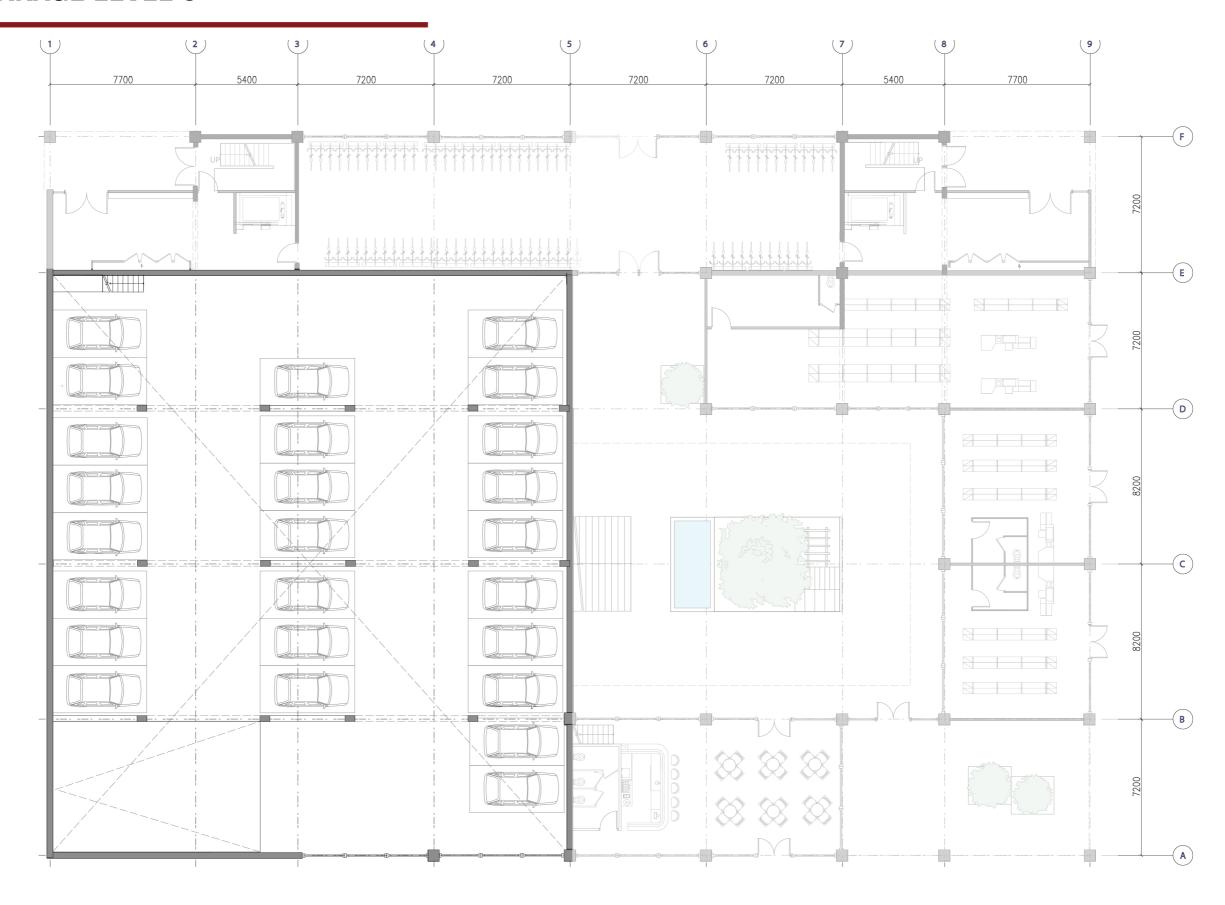
15

MASTERPLAN

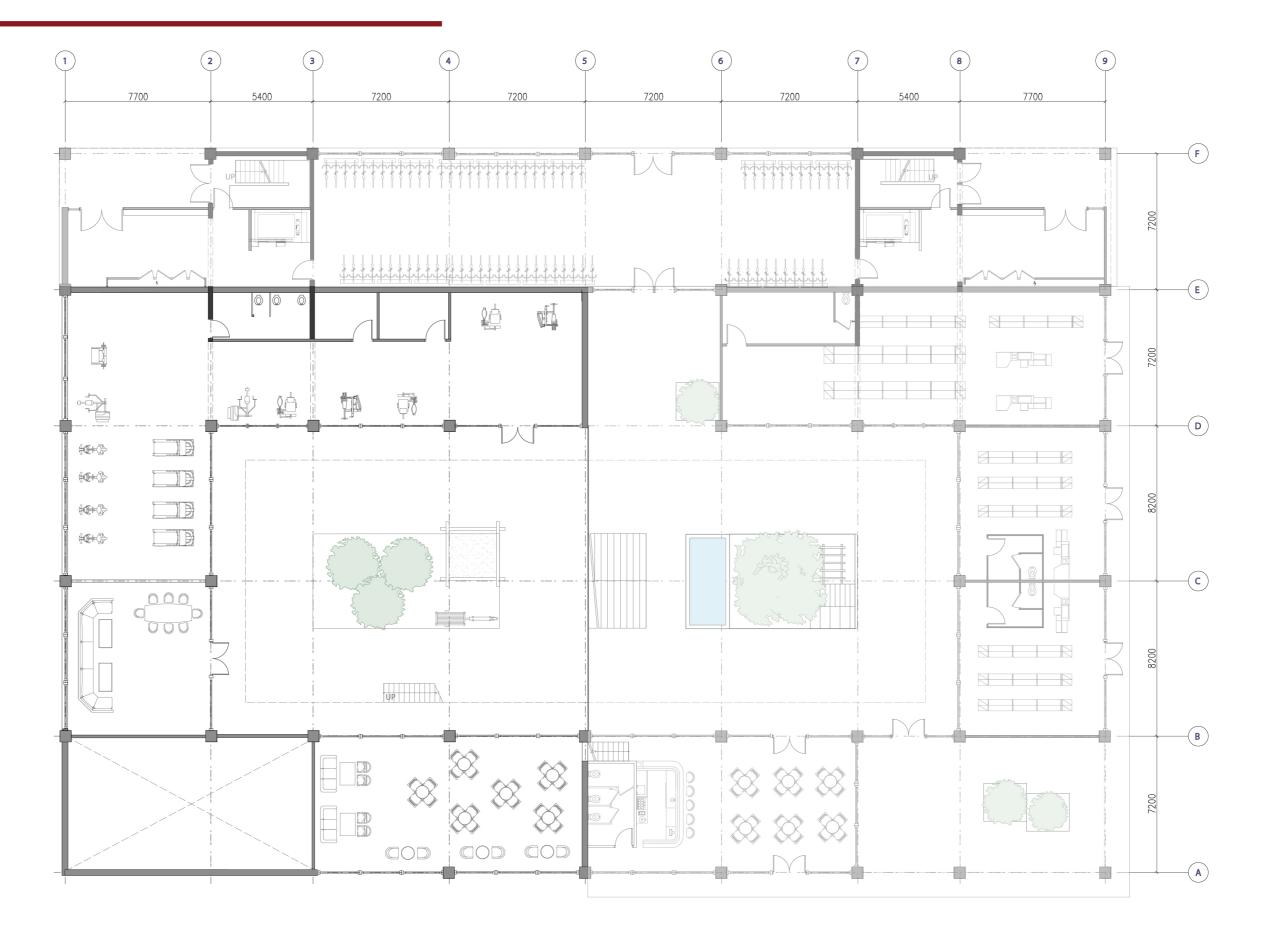




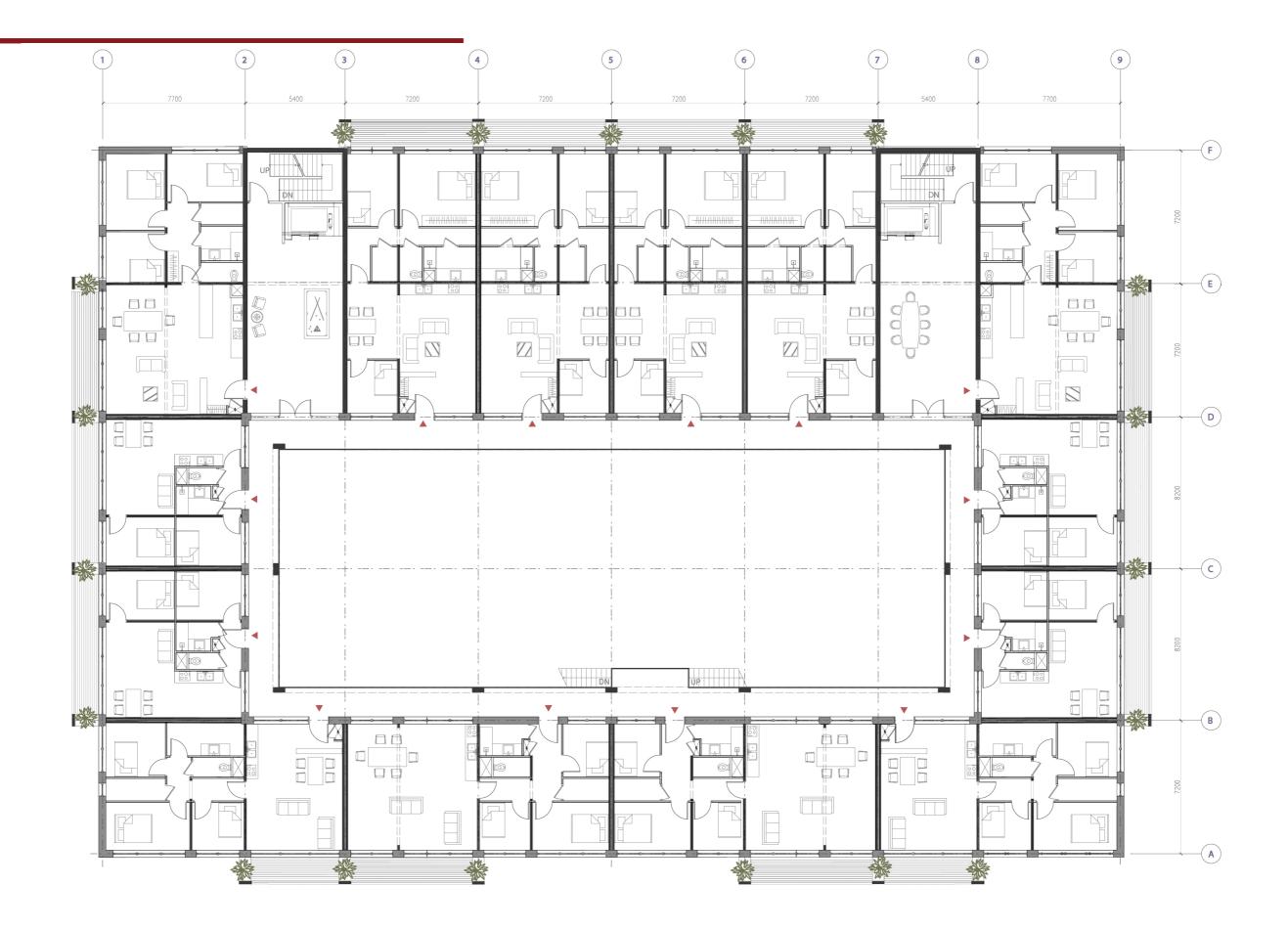
PARKING GARAGE LEVEL 0-

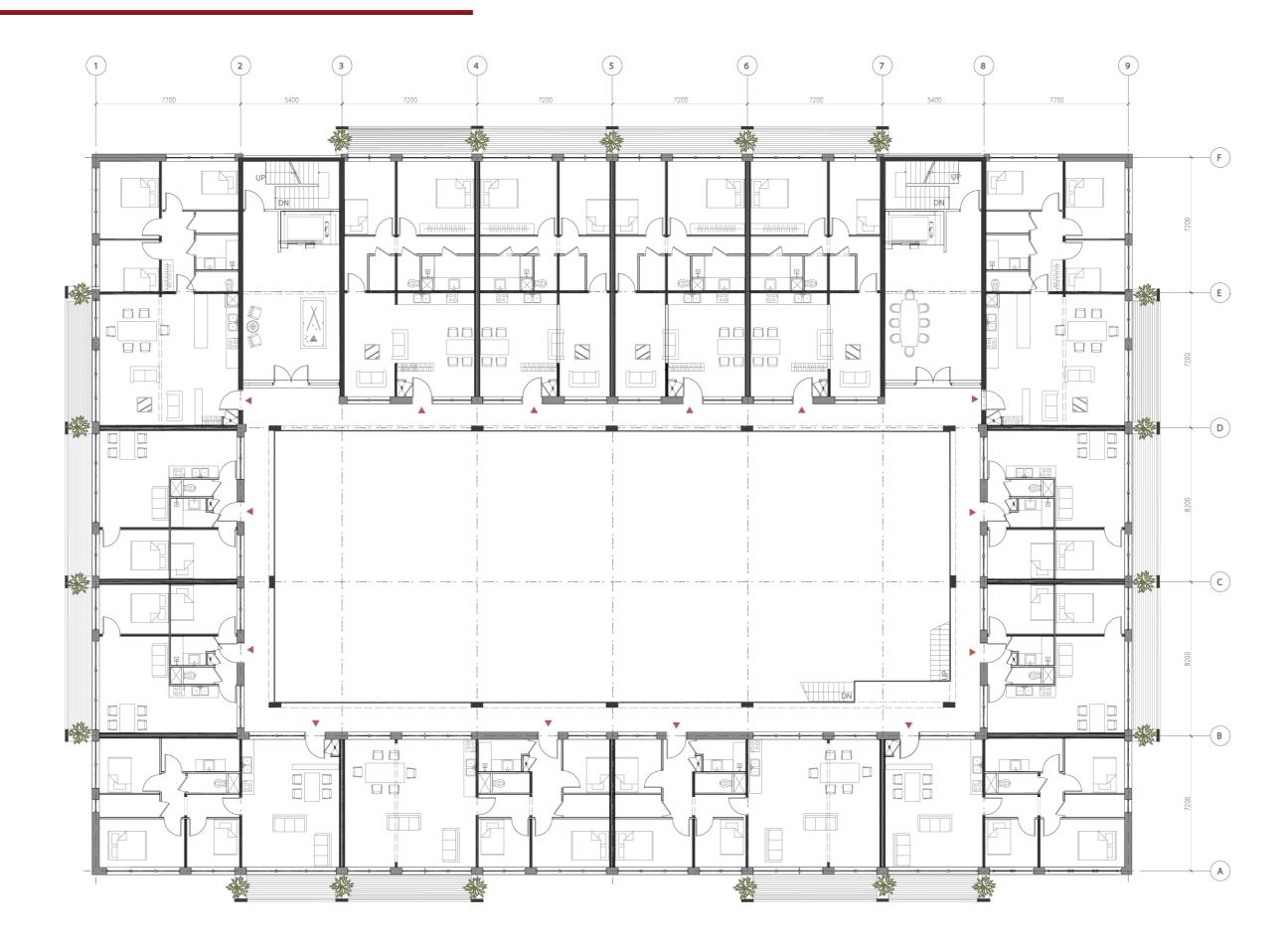


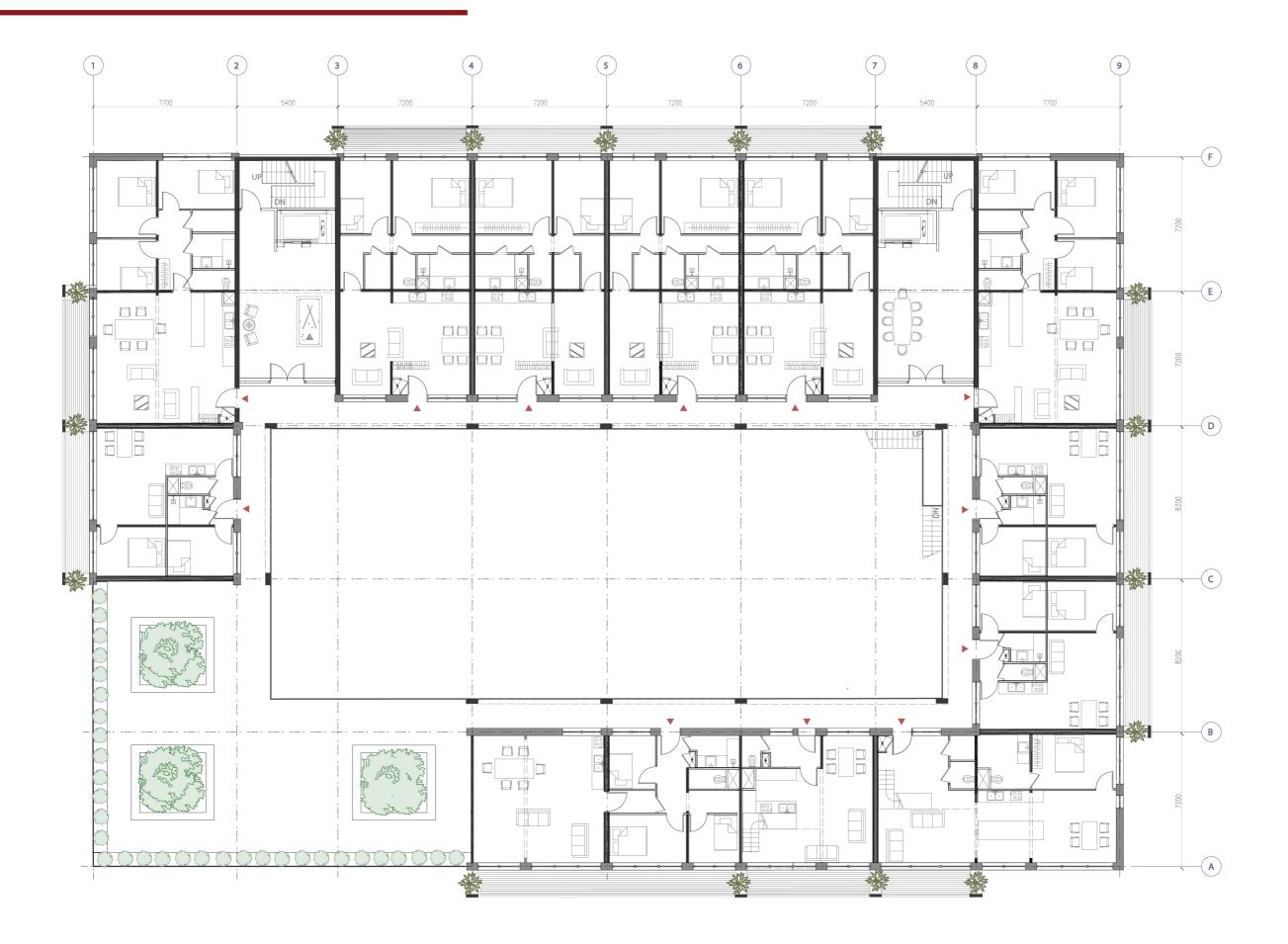
LEVEL 0 AND 0+

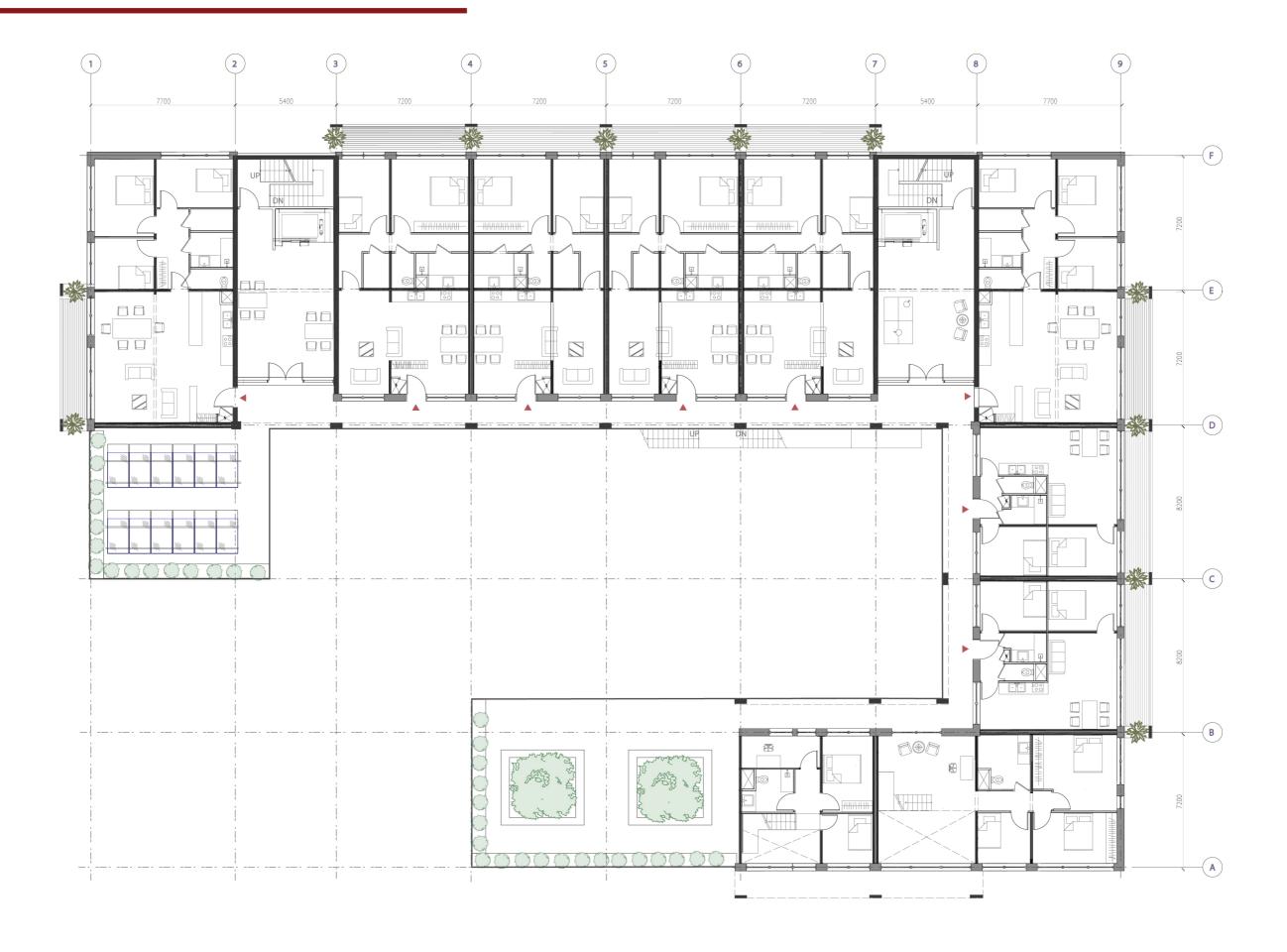


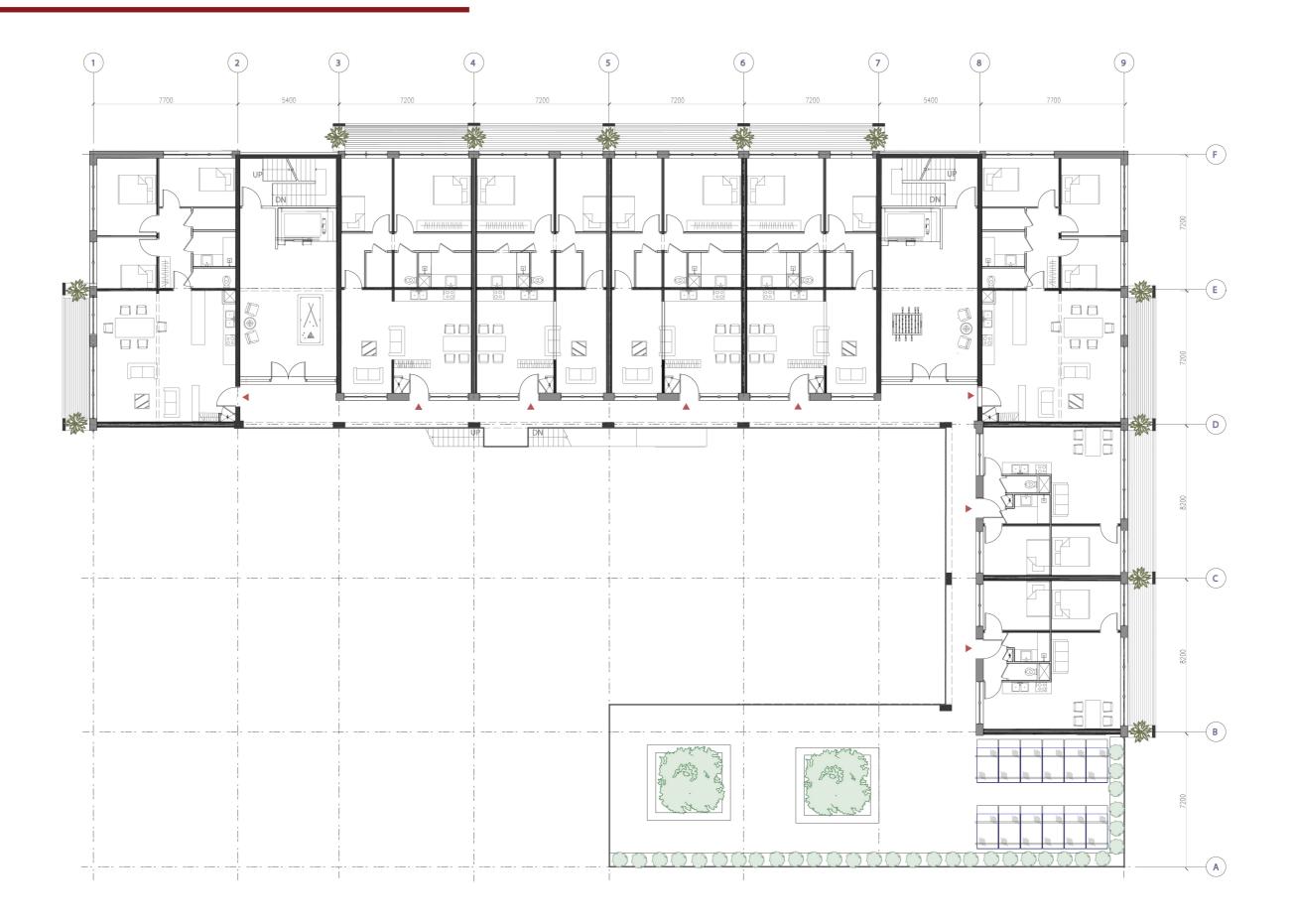
LEVEL 1

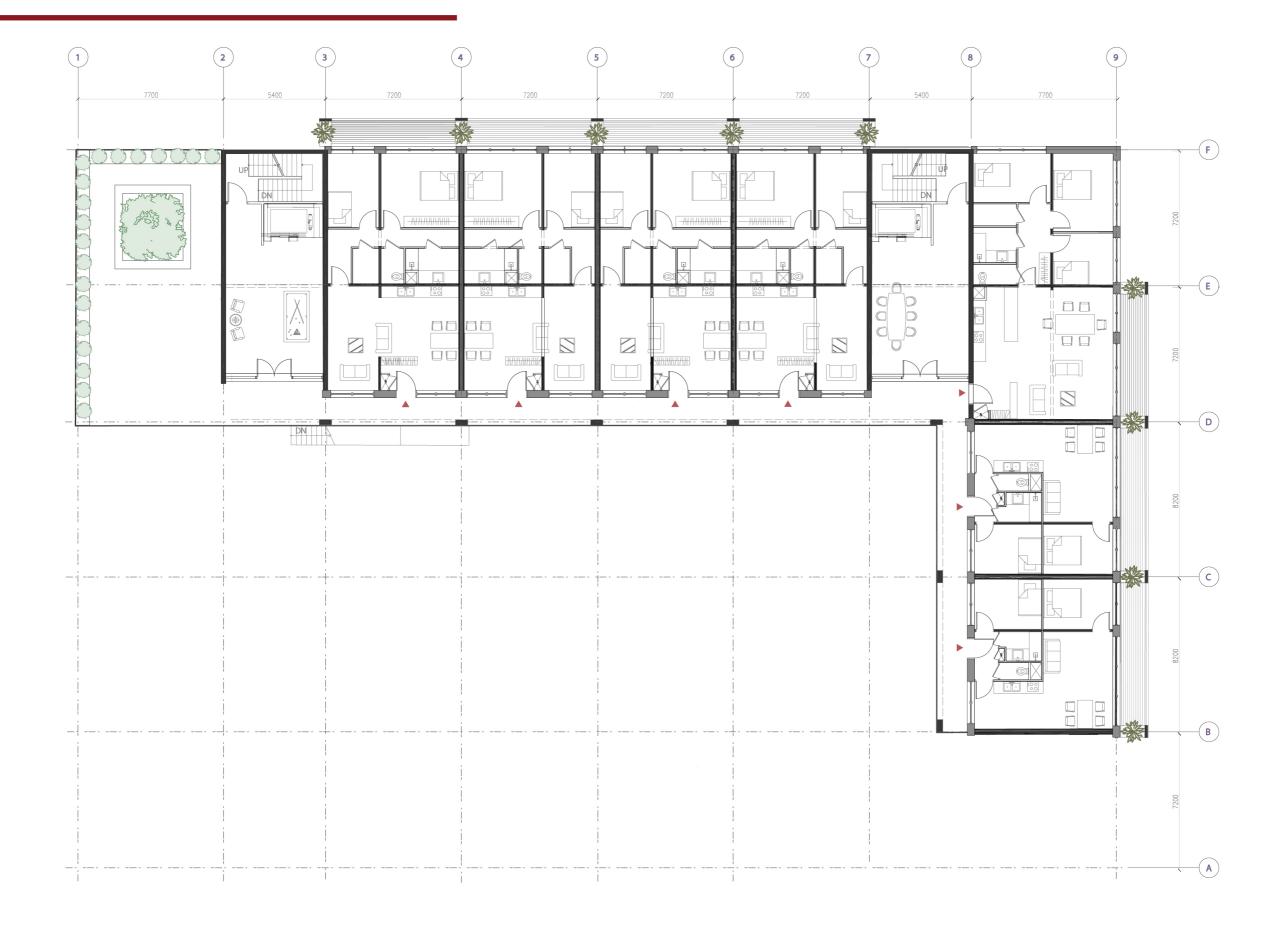


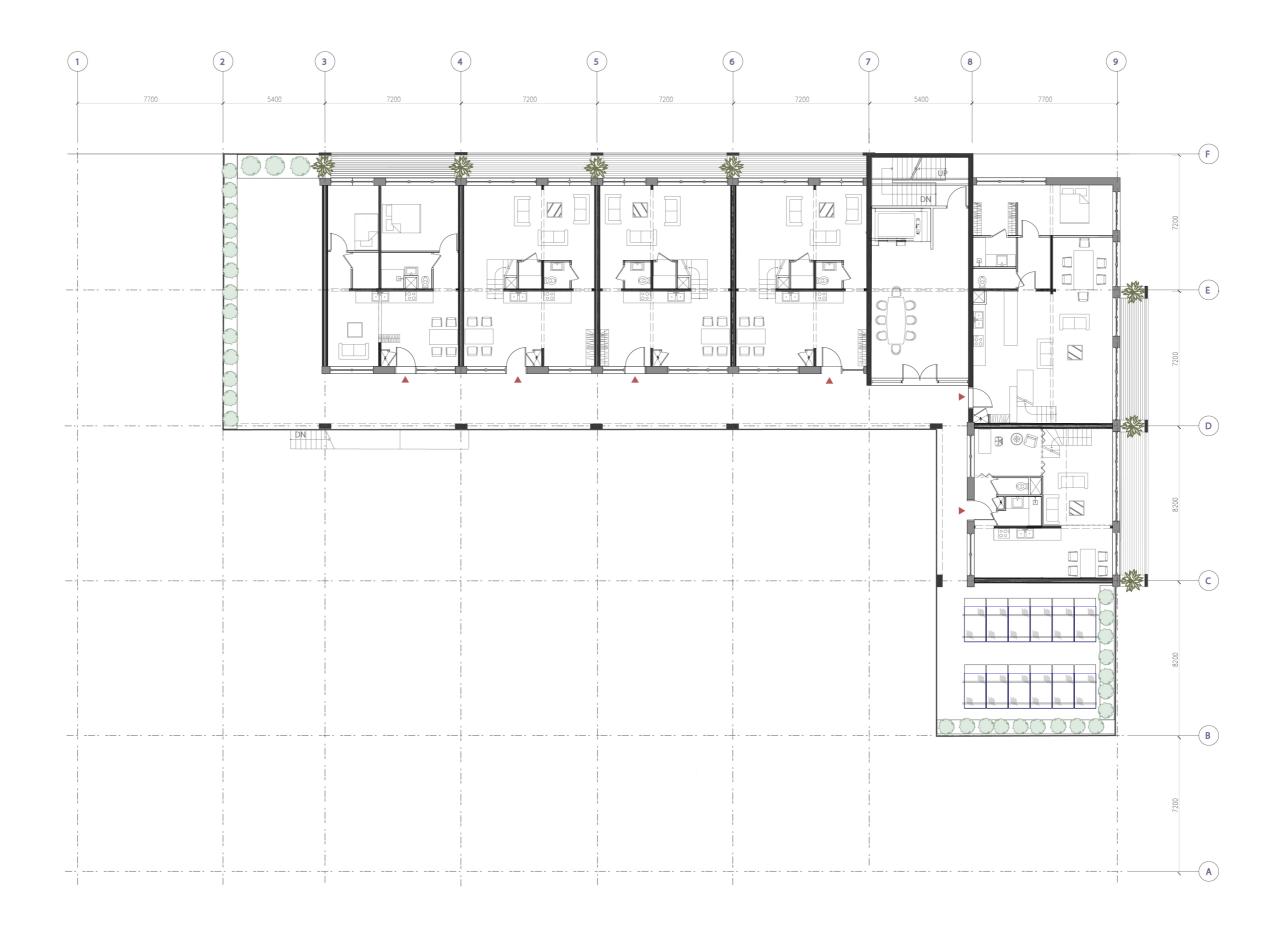








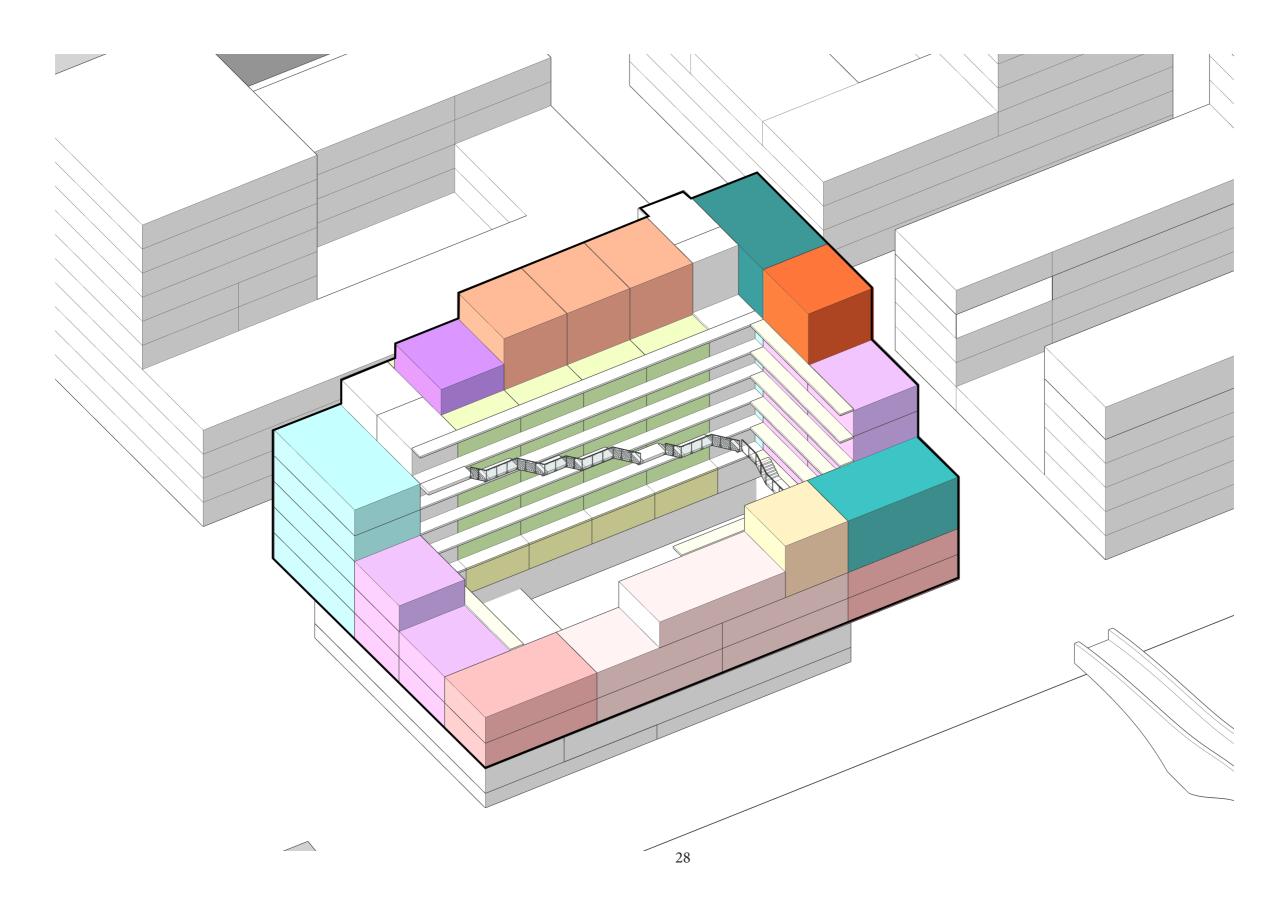






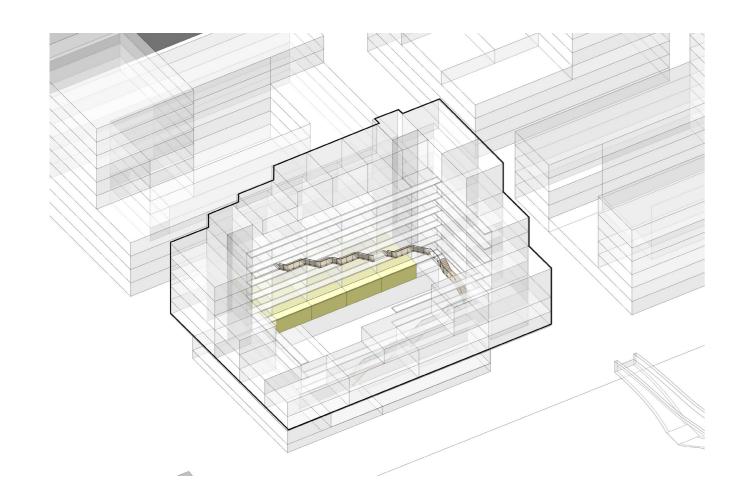
DWELLING TYPES

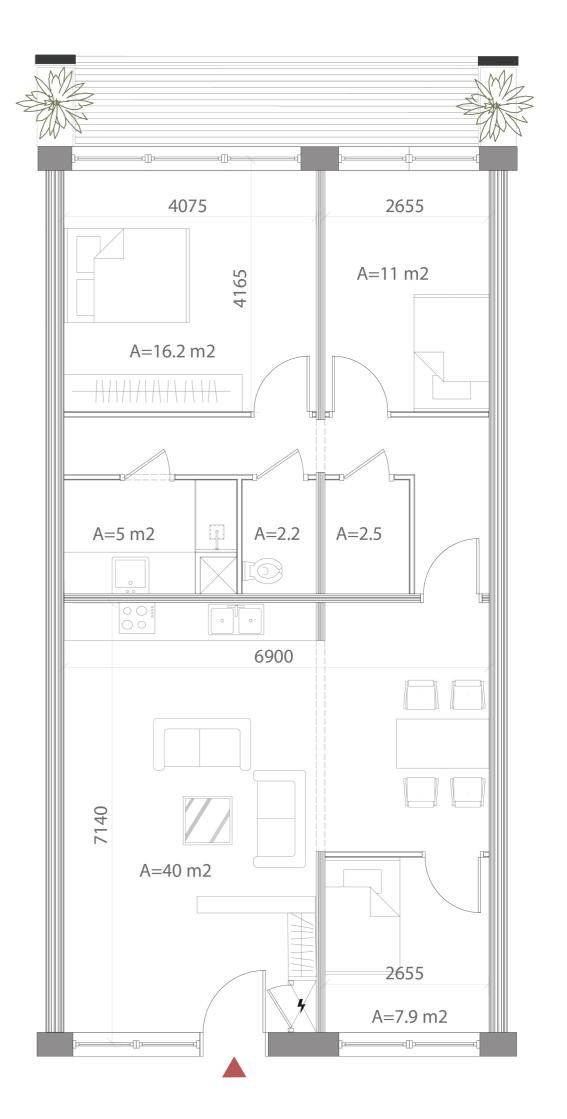
Number of dwellings: 69 Range: 63,8 - 177,8 m² Types: 12



Dwelling size: 107,5 m²
Outside space: 10,5 m²
Number of bedrooms: 3
Suitable household: Family

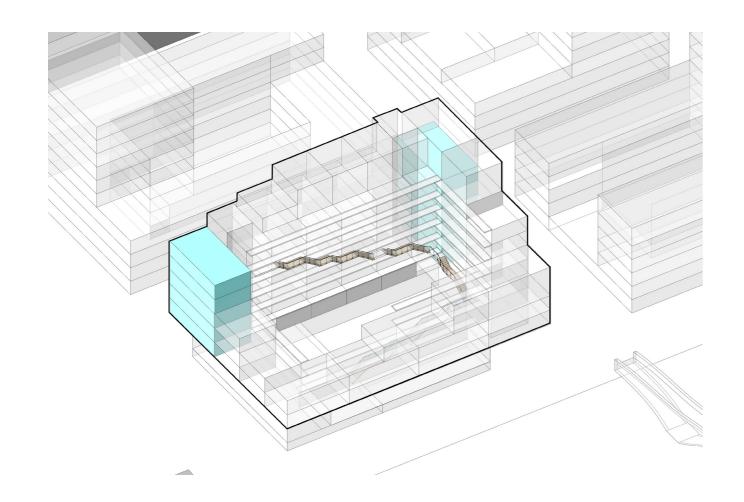
Number of dwellings: 4 on Level 1

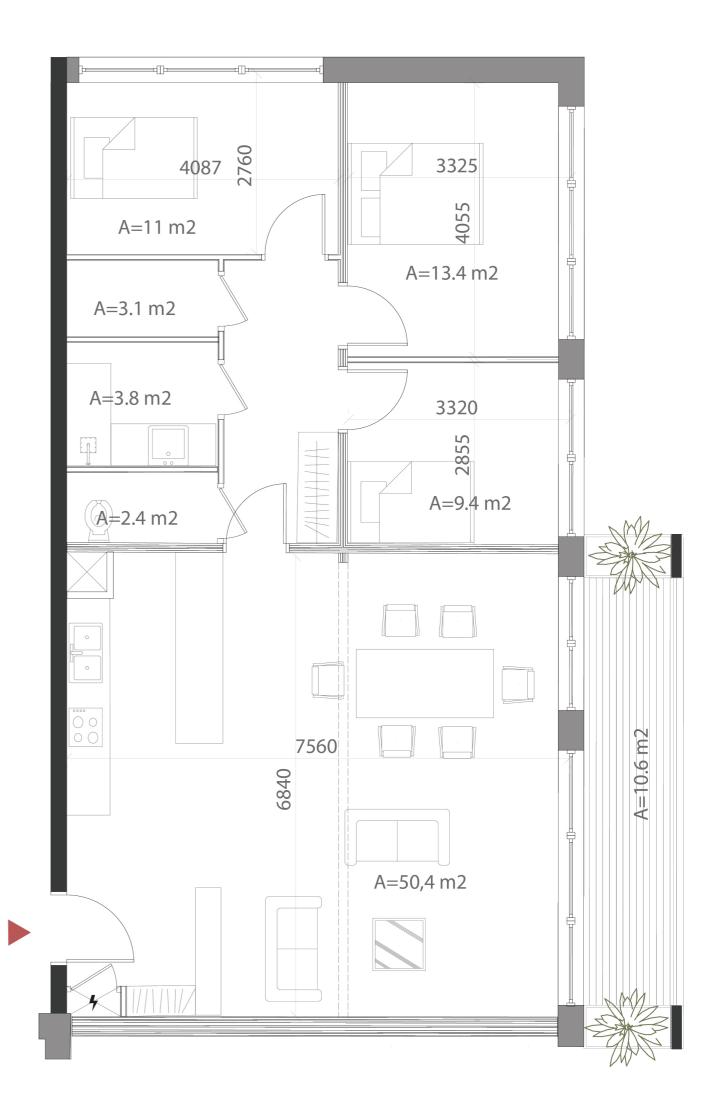




Dwelling size: 109,5 m²
Outside space: 10,6 m²
Number of bedrooms: 3
Suitable household: Family

Number of dwellings: 11 on Levels 1, 2,3,4,5,6

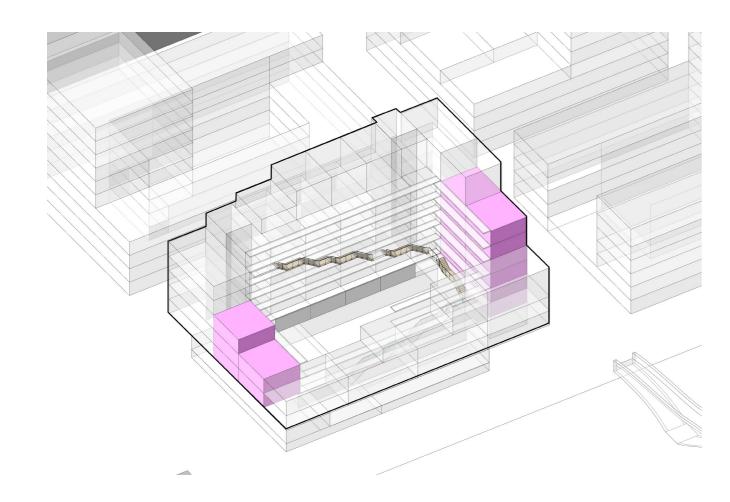


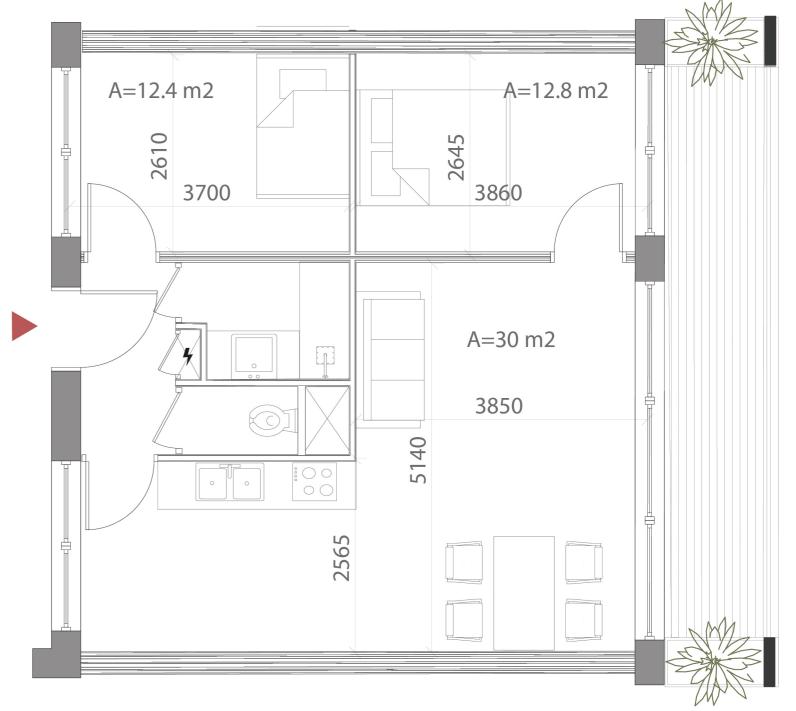


Dwelling size: 63,8 m² Outside space: 10, 6 m² Number of bedrooms: 2

Suitable household: Family/ Couple

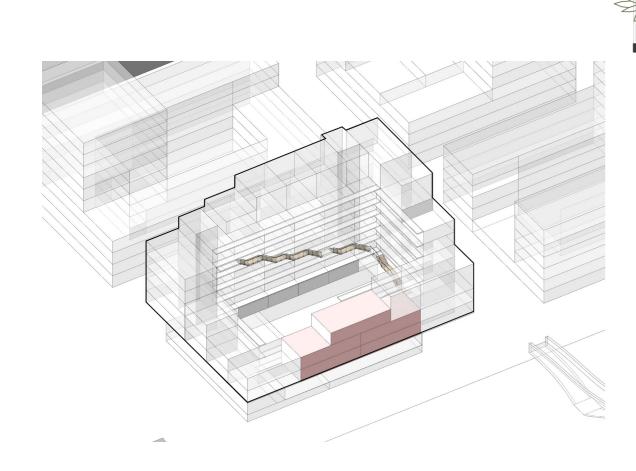
Number of dwellings: 17 on Levels 1,2,3,4,5,6

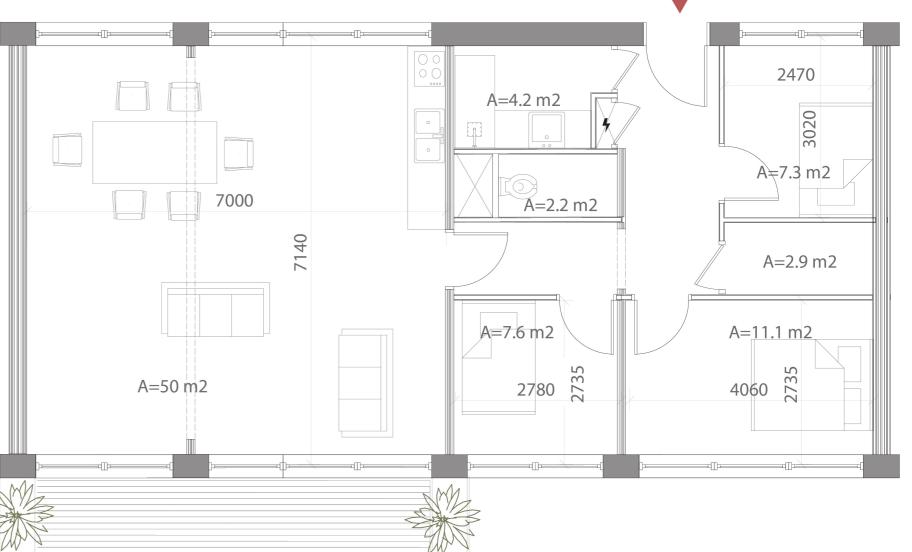




Dwelling size: 101,8 m²
Outside space: 10,5 m²
Number of bedrooms: 3
Suitable household: Family

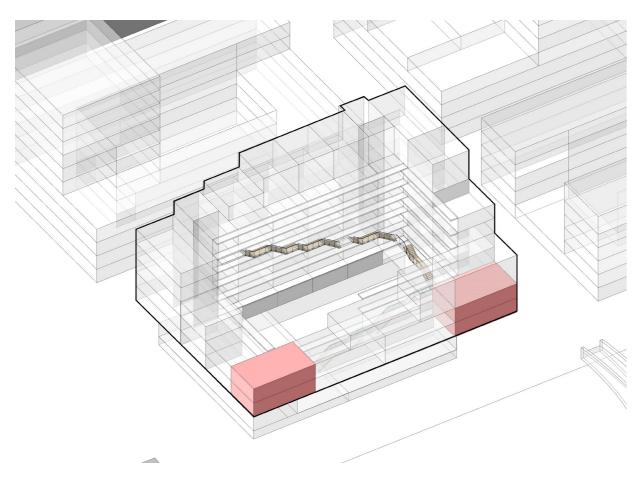
Number of dwellings: 5 on Levels 1,2,3

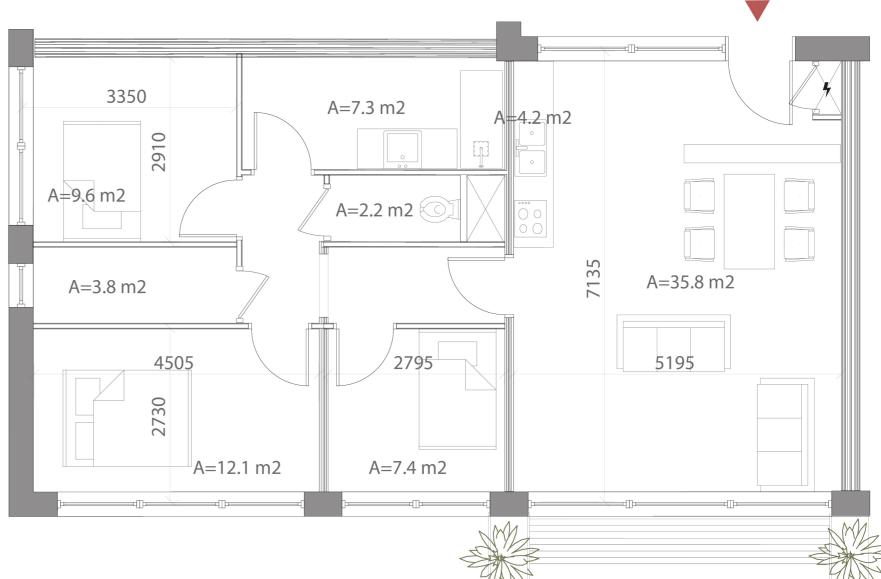




Dwelling size: 92 m²
Outside space: 7,6 m²
Number of bedrooms: 3
Suitable household: Family

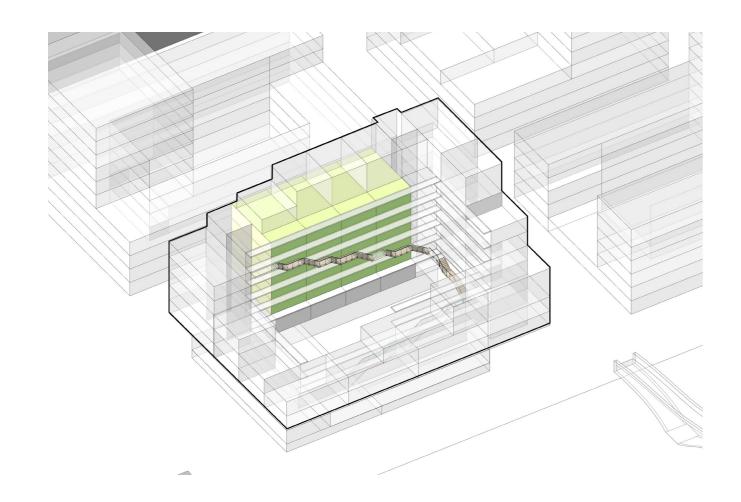
Number of dwellings: 4 on Levels 1 and 2

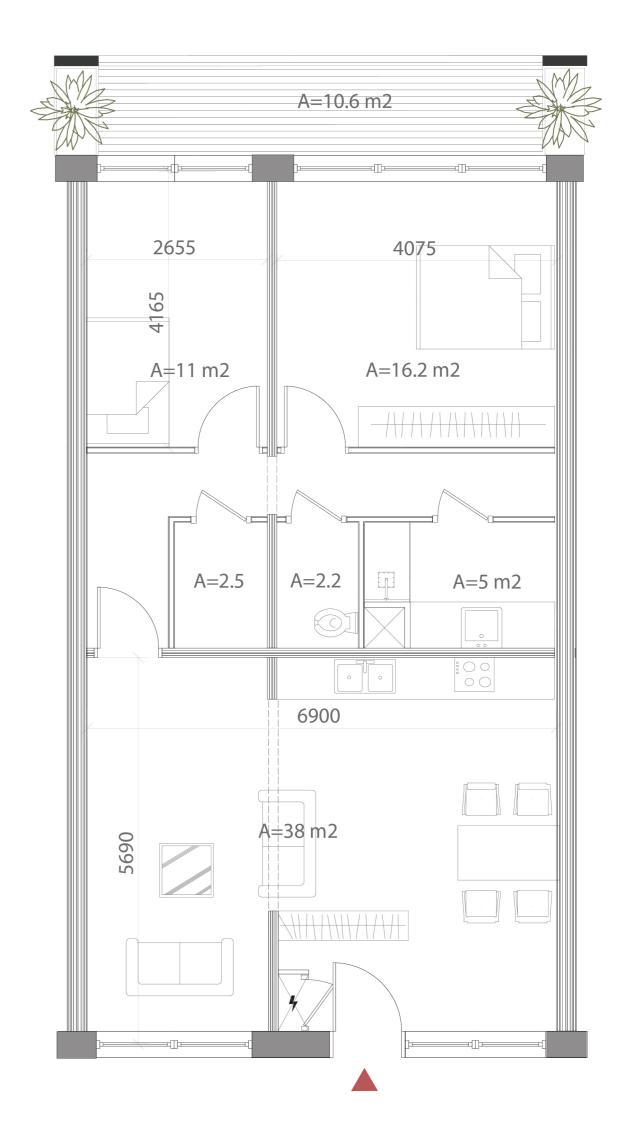




Dwelling size: 94 m²
Outside space: 10,6 m²
Number of bedrooms: 2
Suitable household: Family

Number of dwellings: 20 on Levels 1,2,3 and 4

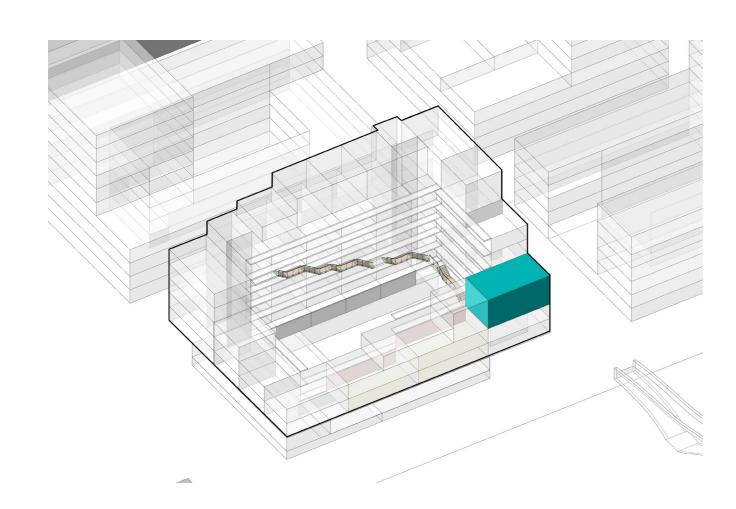


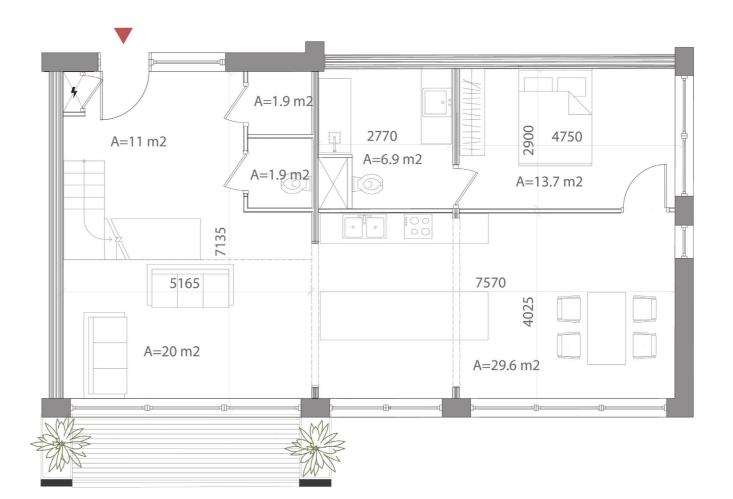


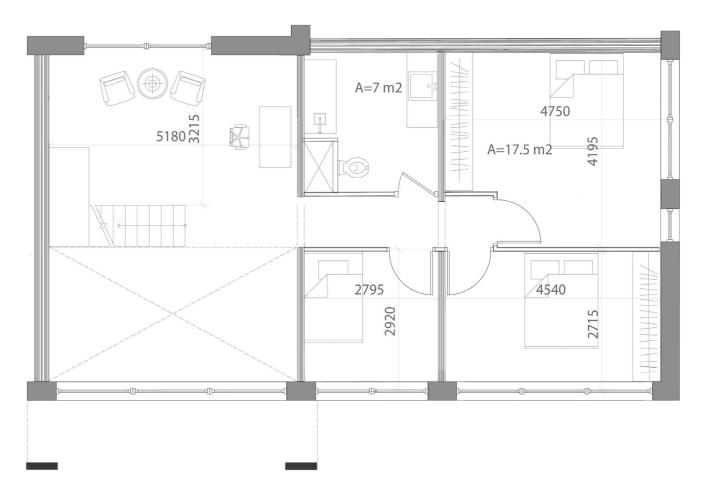
Dwelling size: 161,3 m²
Outside space: 10,5 m²
Number of bedrooms: 4 + 1

Suitable household: Family

Number of dwellings: 1 on Level 3-4



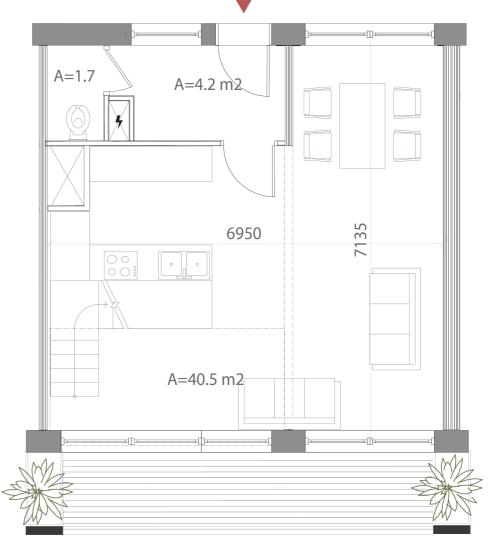


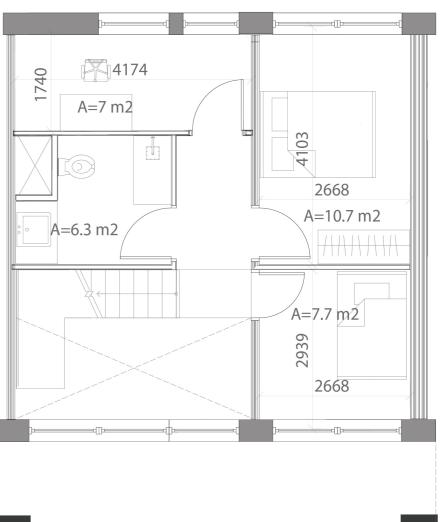


Dwelling size: 89,6 m²
Outside space: 10,5 m²
Number of bedrooms: 2+1

Suitable household: Family/Couple Number of dwellings: 1 on Level 3-4

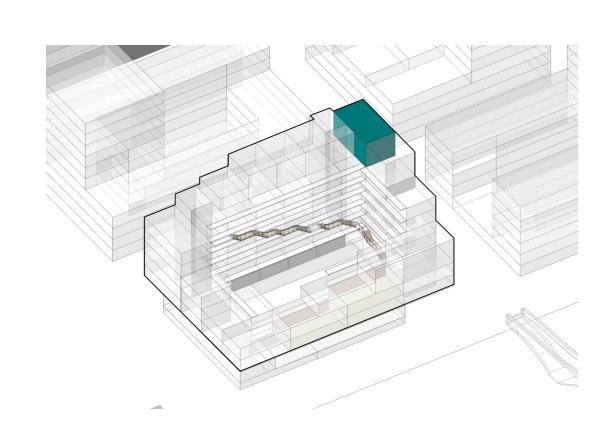


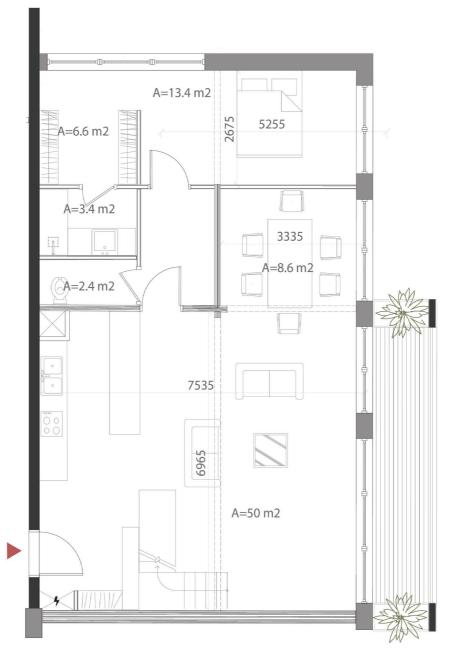


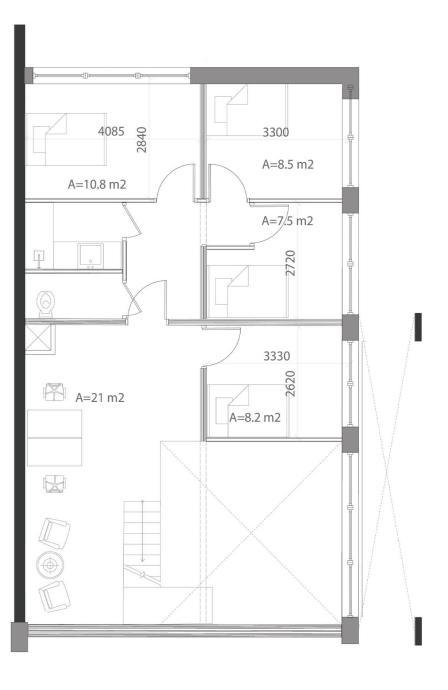


Dwelling size: 177,8 m²
Outside space: 10,6 m²
Number of bedrooms: 5
Suitable household: Family

Number of dwellings: 1 on Levels 7 and 7+

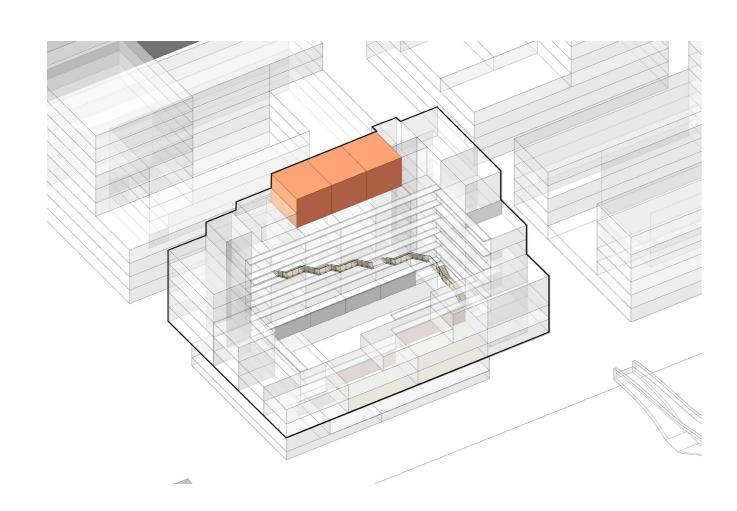


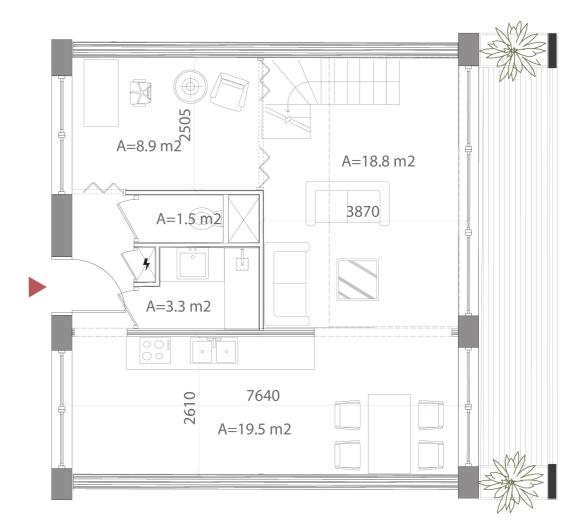


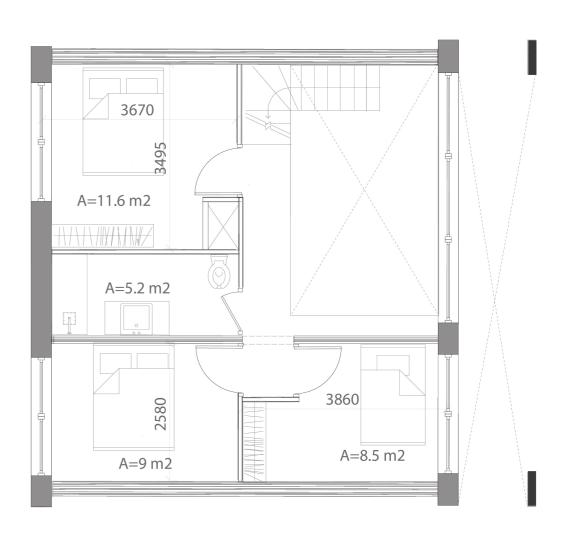


Dwelling size: 114 m²
Outside space: 10,5 m²
Number of bedrooms: 3 +1
Suitable household: Family

Number of dwellings: 1 on Levels 7, 7+

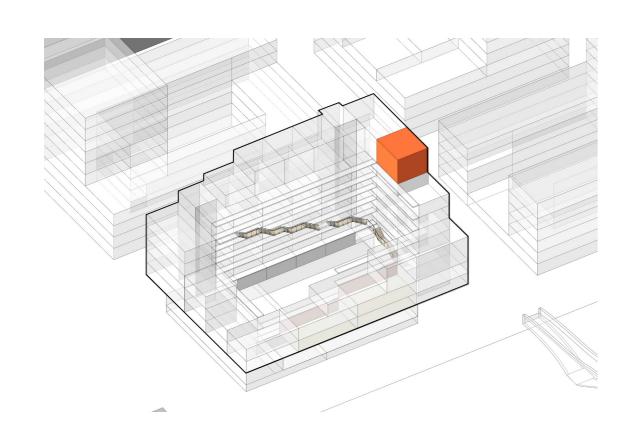


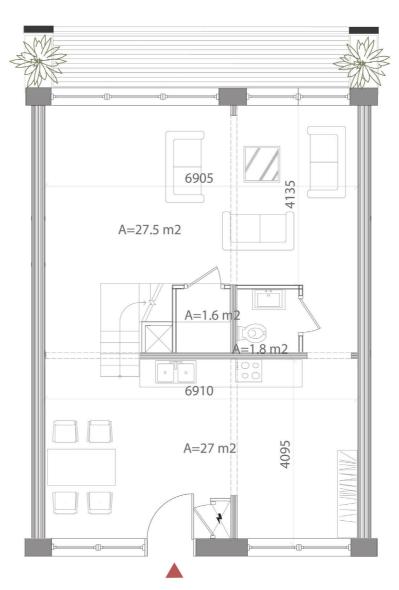


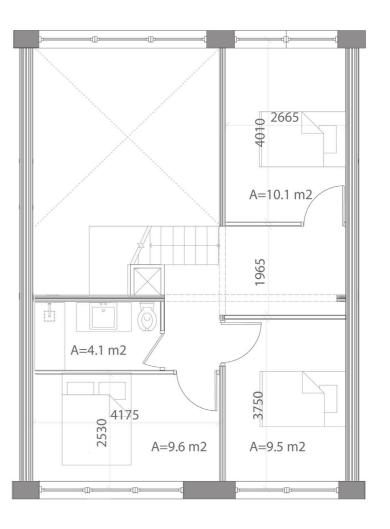


Dwelling size: 120 m²
Outside space: 10,5 m²
Number of bedrooms: 3
Suitable household: Family

Number of dwellings: 3 on Levels 7, 7+

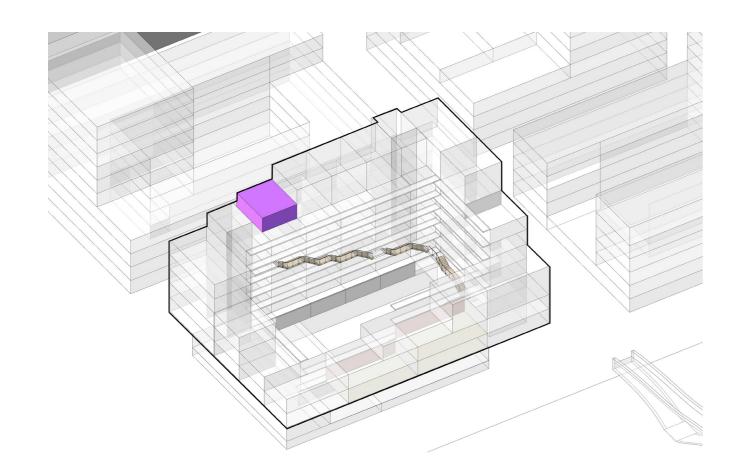


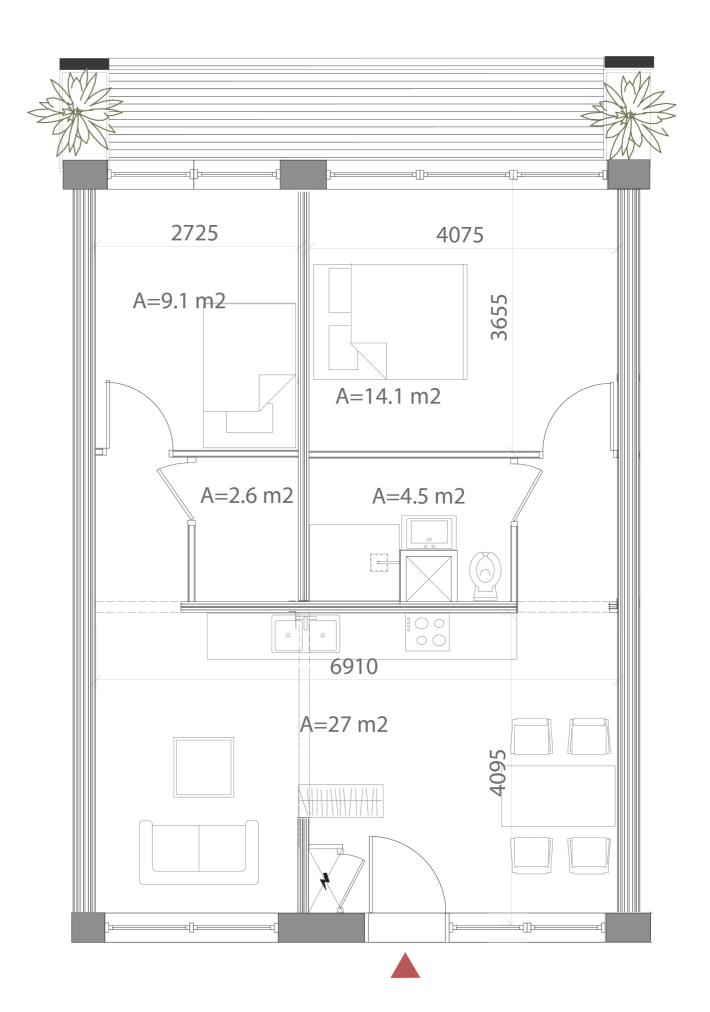




Dwelling size: 70.8 m²
Outside space: 10,5 m²
Number of bedrooms: 2
Suitable household: Family

Number of dwellings: 1 on Level 7







SOUTH ELEVATION



WEST ELEVATION

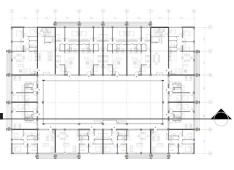


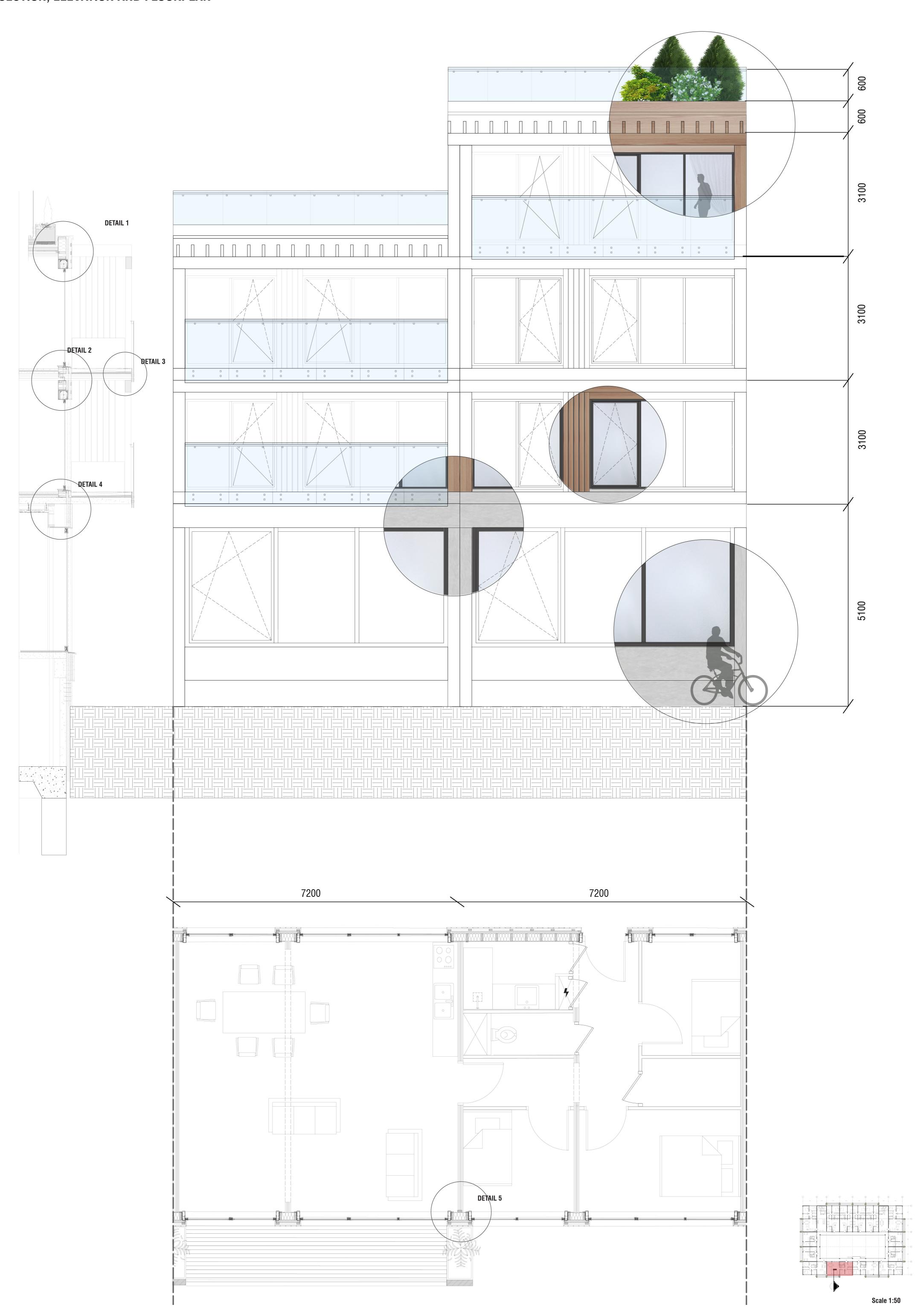
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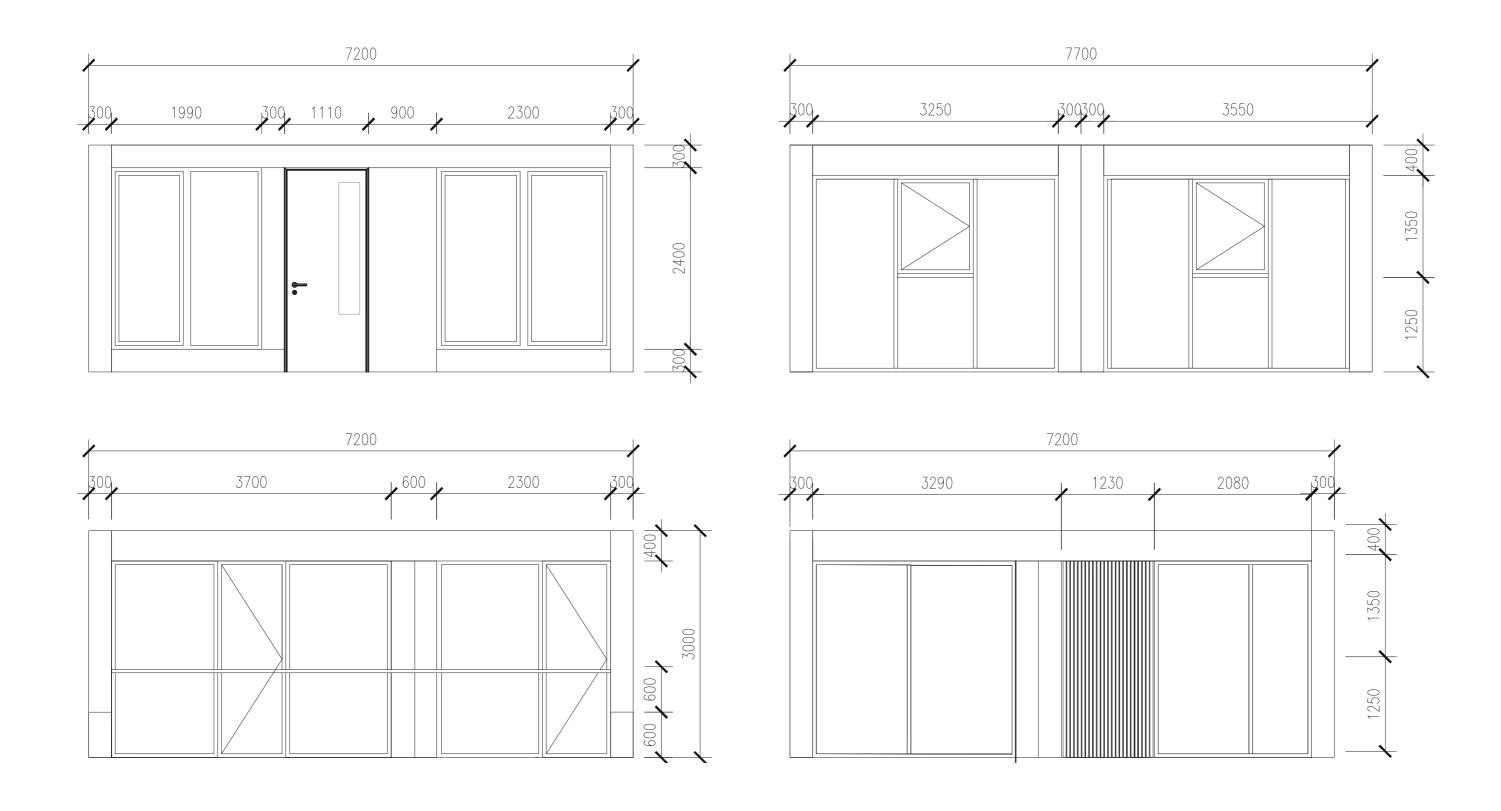




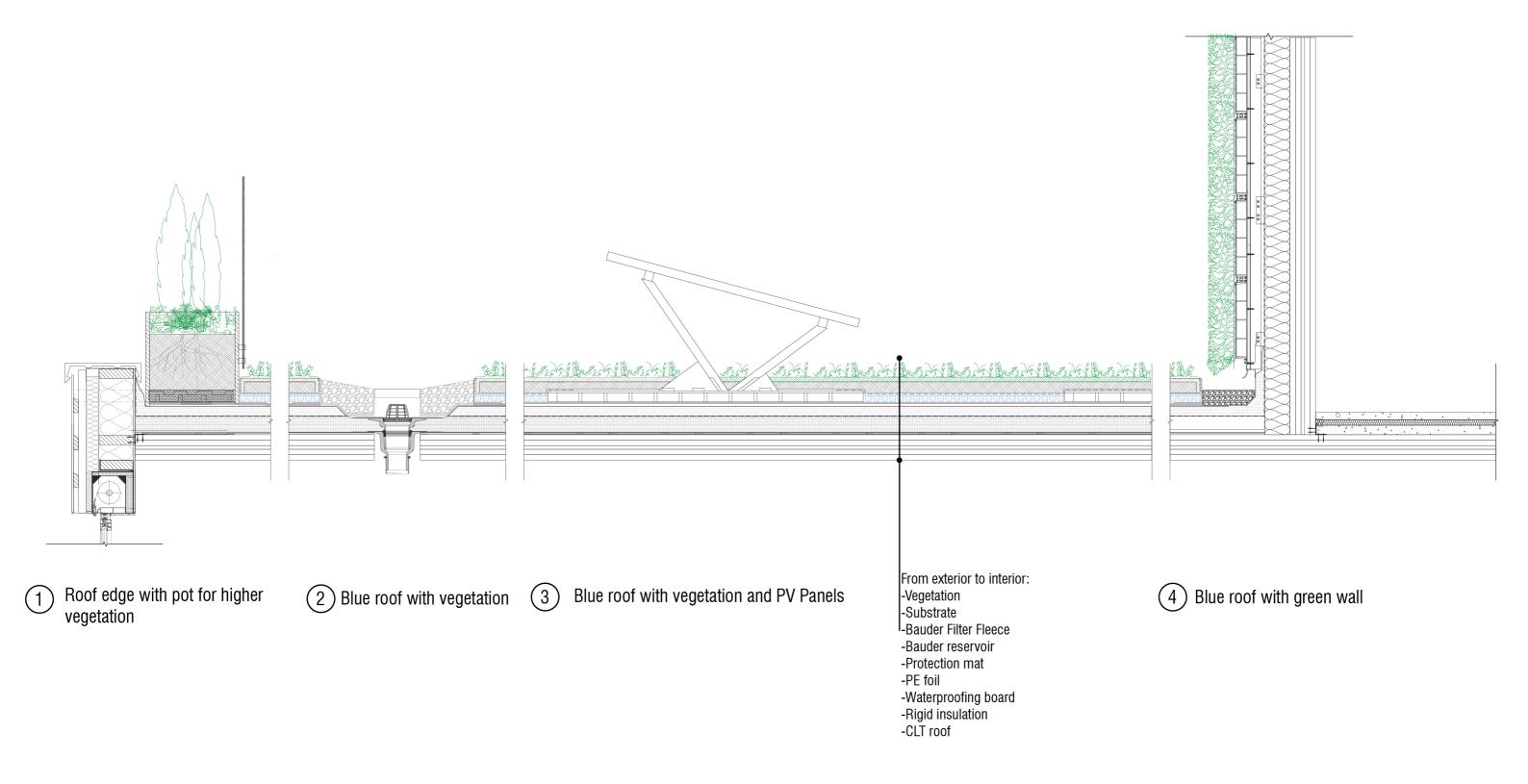




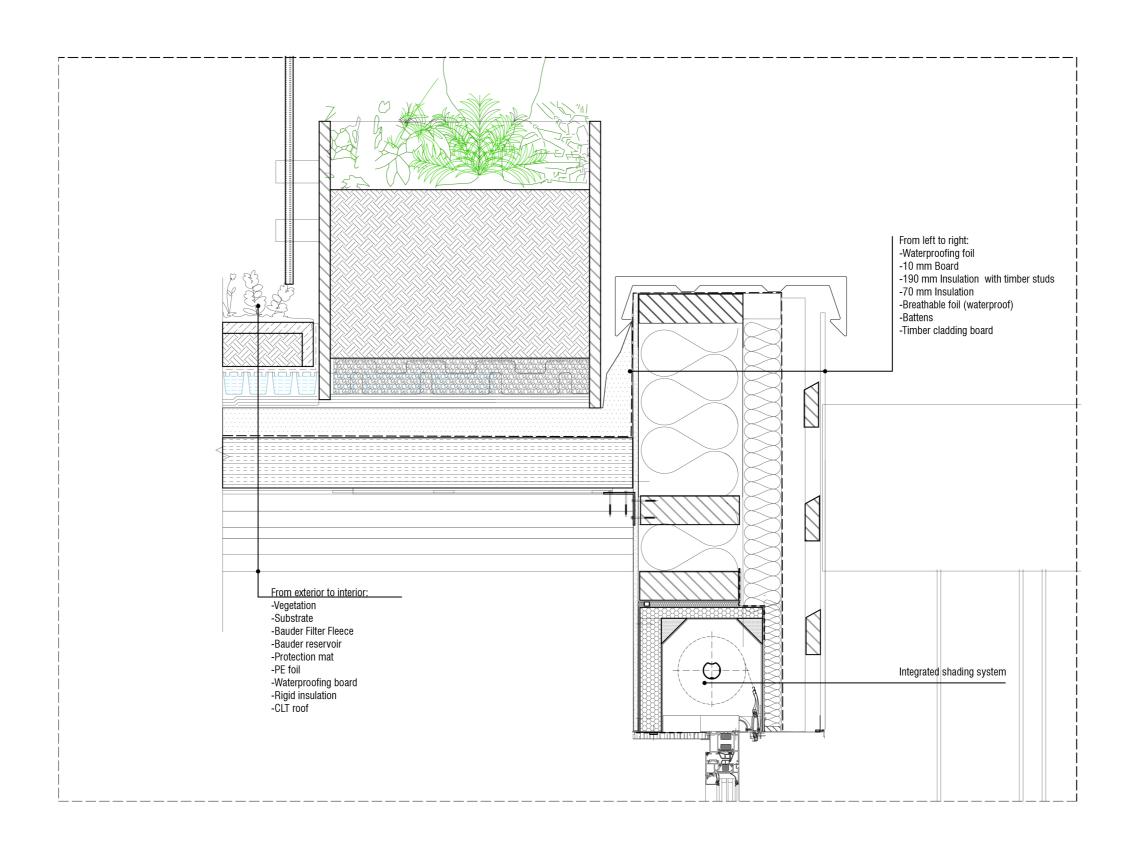




ROOF SECTION

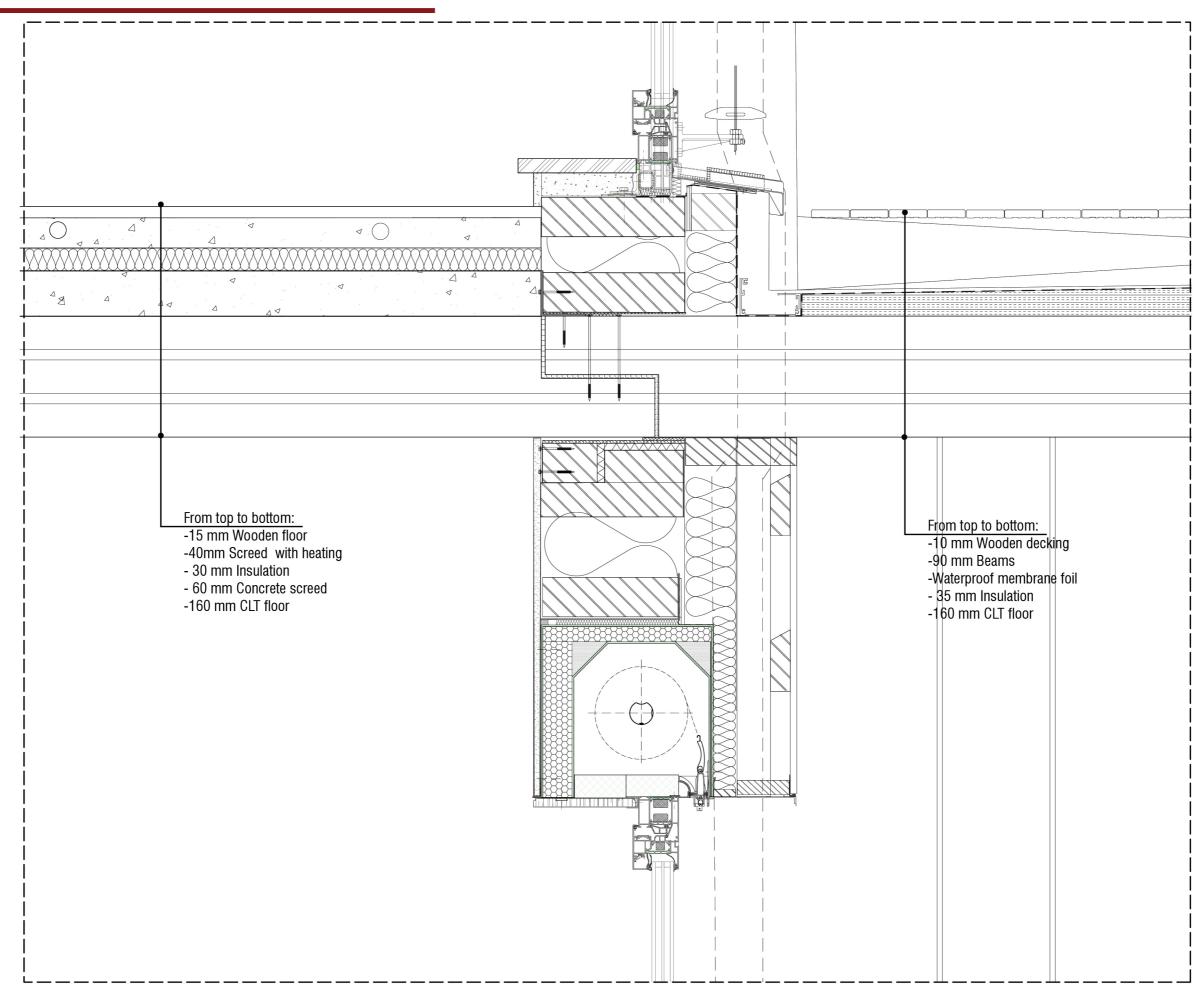


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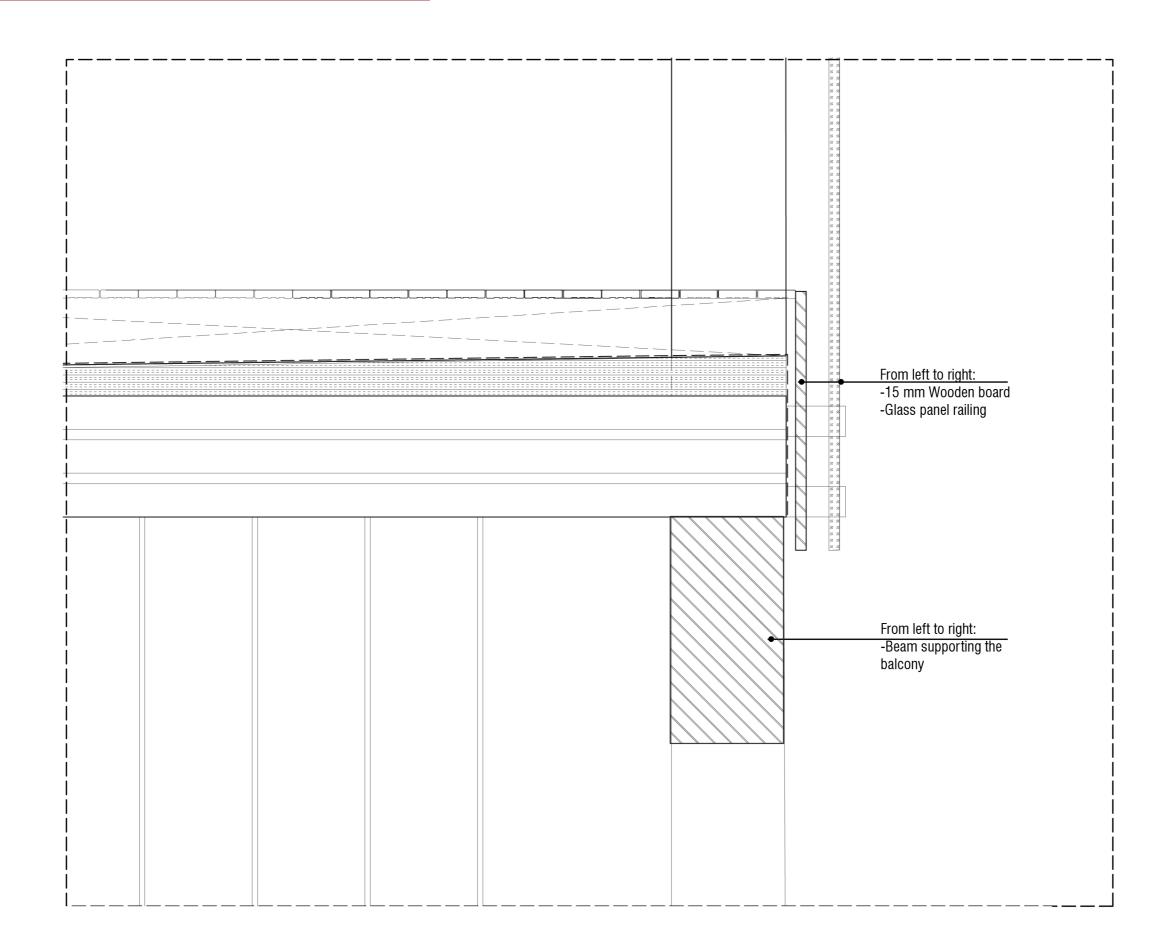


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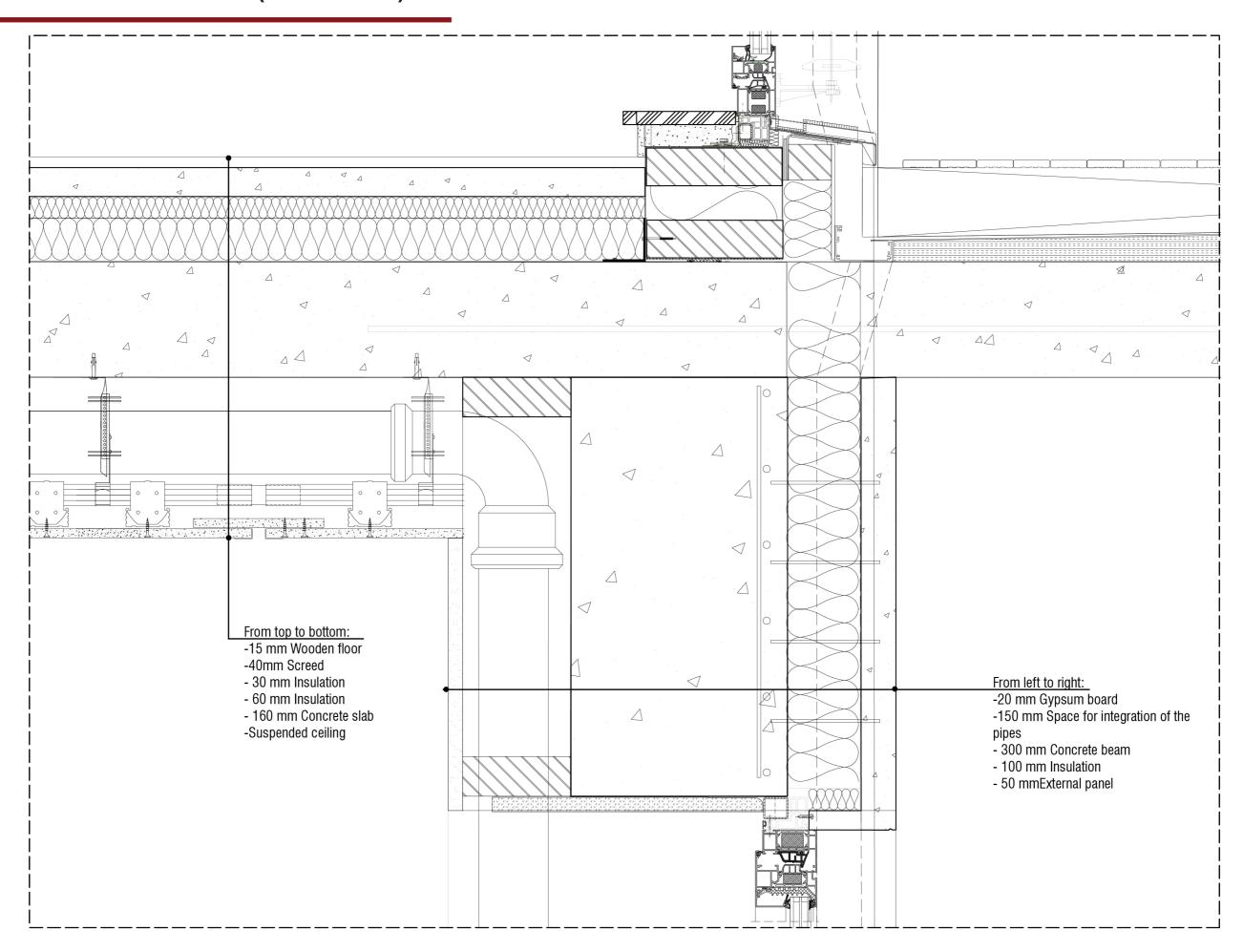
DETAIL 2 FACADE AND WALL

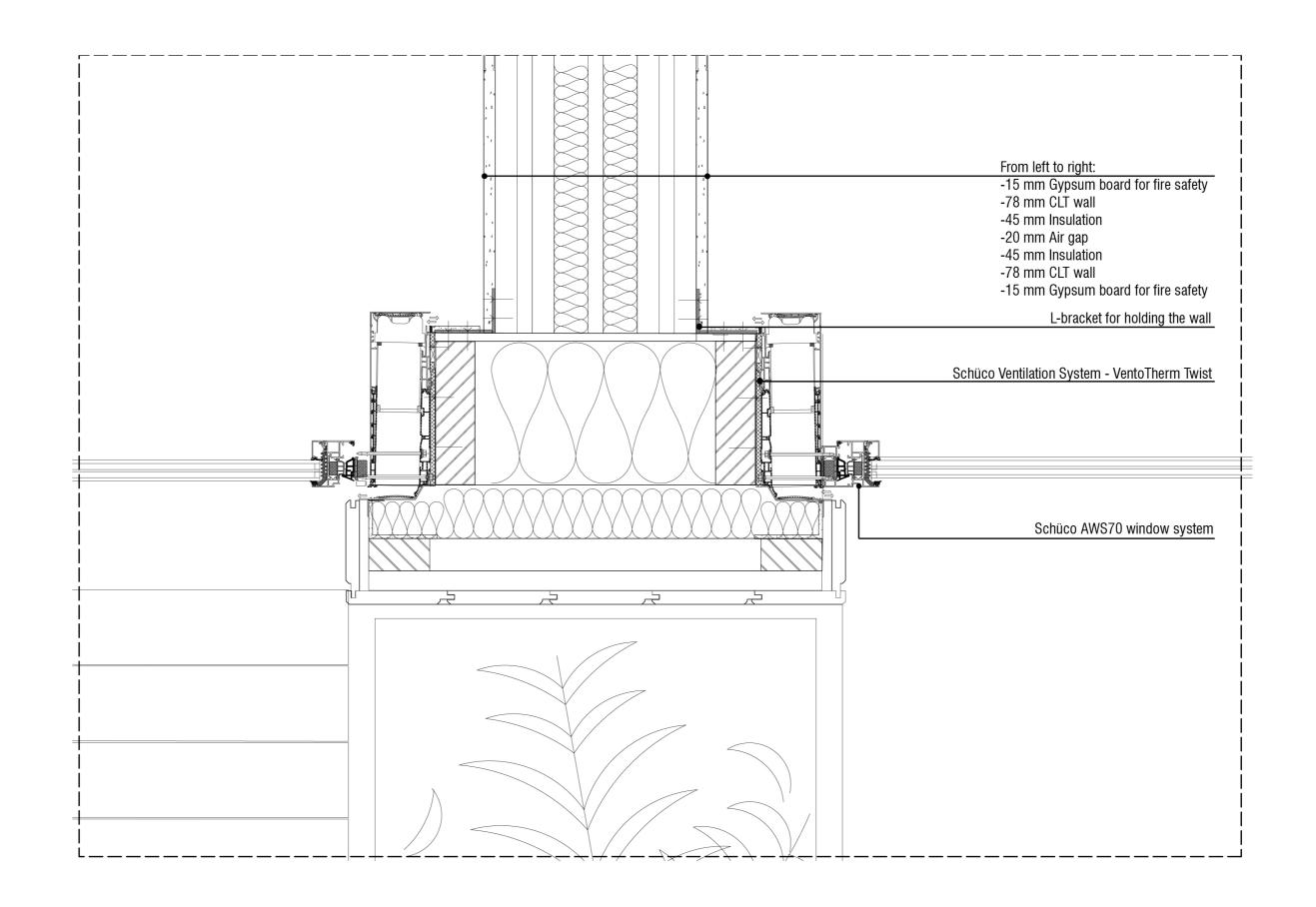


DETAIL 3 BALCONY AND RAILING CONNECTION

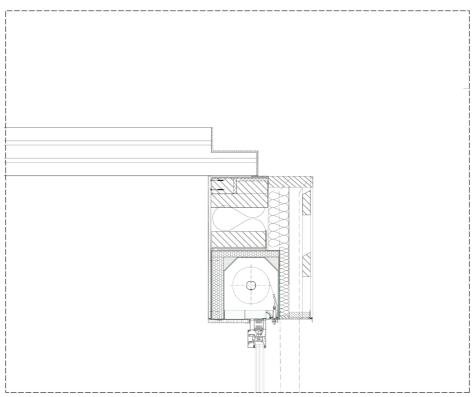


DETAIL 4 FACADE TO FLOOR (CONCRETE)

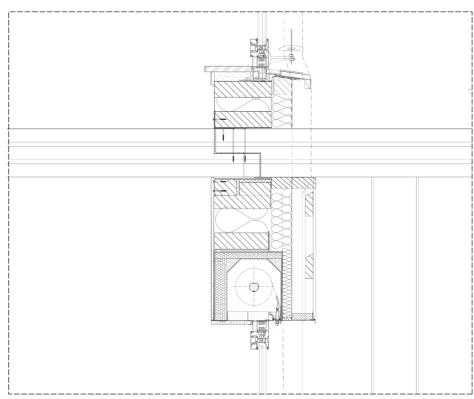




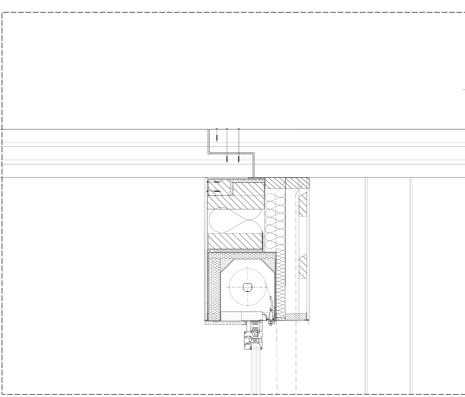
DETAIL 4 SEQUENCE OF ASSEMBLY



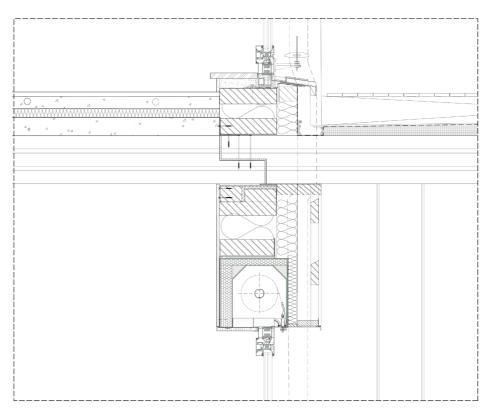
1. Start point (load-bearing structure and facade on lower floor is on place)



3. Mounting the facade element (prefabricated)



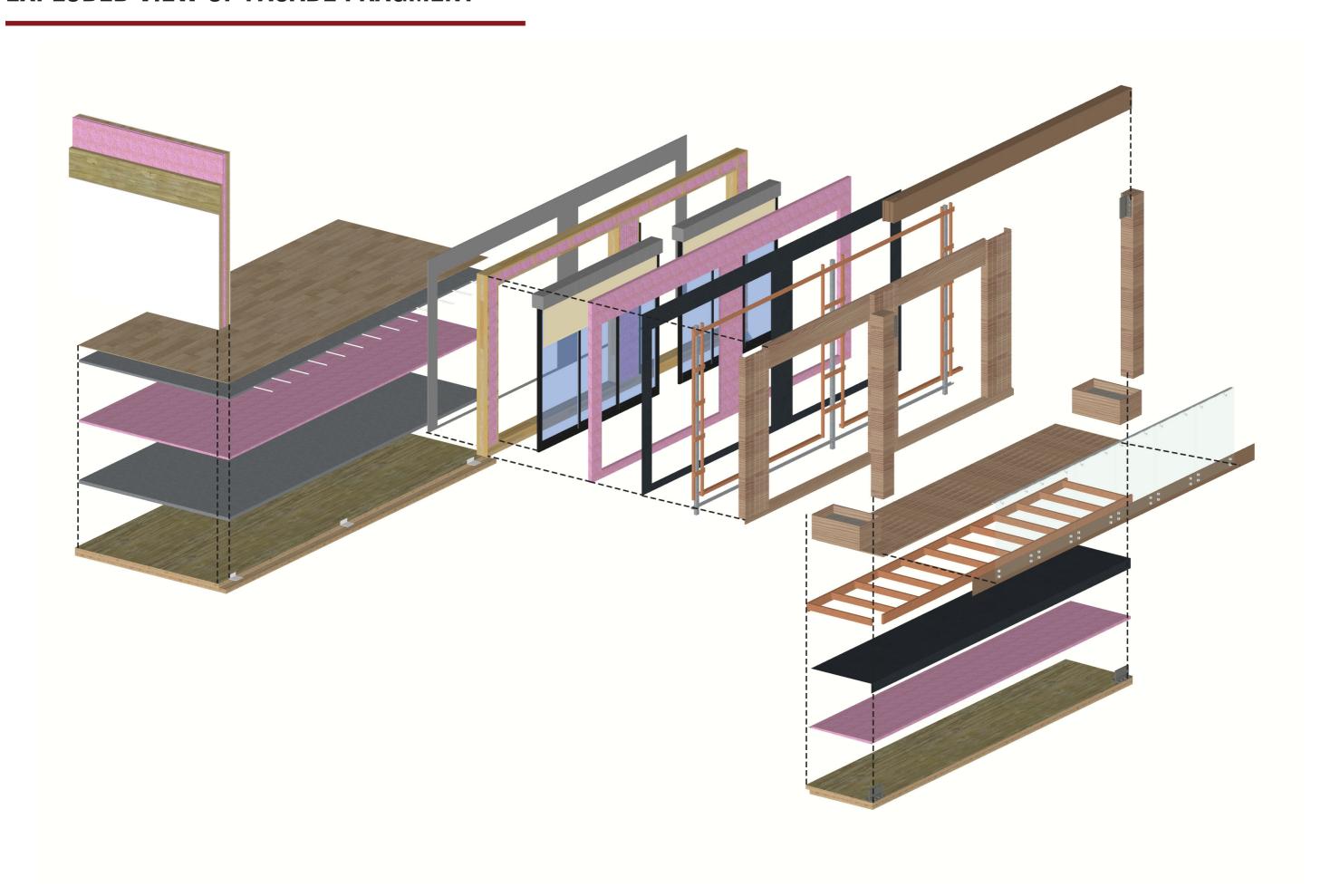
2. Connecting the structure of the balcony with the structure of the floor



4. Adding the top layers of the floor and balcony on site



EXPLODED VIEW OF FACADE FRAGMENT



EXPLODED VIEW OF THE BUILDING

