



Location : Budapest, Ferencváros, Lenhossék u. 4, 1096

The plot is located in the 9th district, Budapest and it is also in the neighbourhood named Ferencváros.

The area is considered as a downtown area and it is mostly occupied by students and families. The neighbourhood is consist of mostly residential houses and little retail units. It is in the walking distance to some major transportation lines of Budapest such as Metro 3, Tram 4-6, Tram 2. One of the main feature of the area is its high number of educational institutes and student dormitories due to the fact that it is surrounded by universities and high schools.

One of the specific feature about the plot is the high percentage of residential units. Despite being located in the central part of Budapest, Ferencváros is mostly known with it's residential developments and the number of public buildings and retail units are very limited. With the addition of current developments the whole district is planned to be the biggest area for students and residents. Also the number of students living in this area is relatively high compared to the other districts of Budapest.

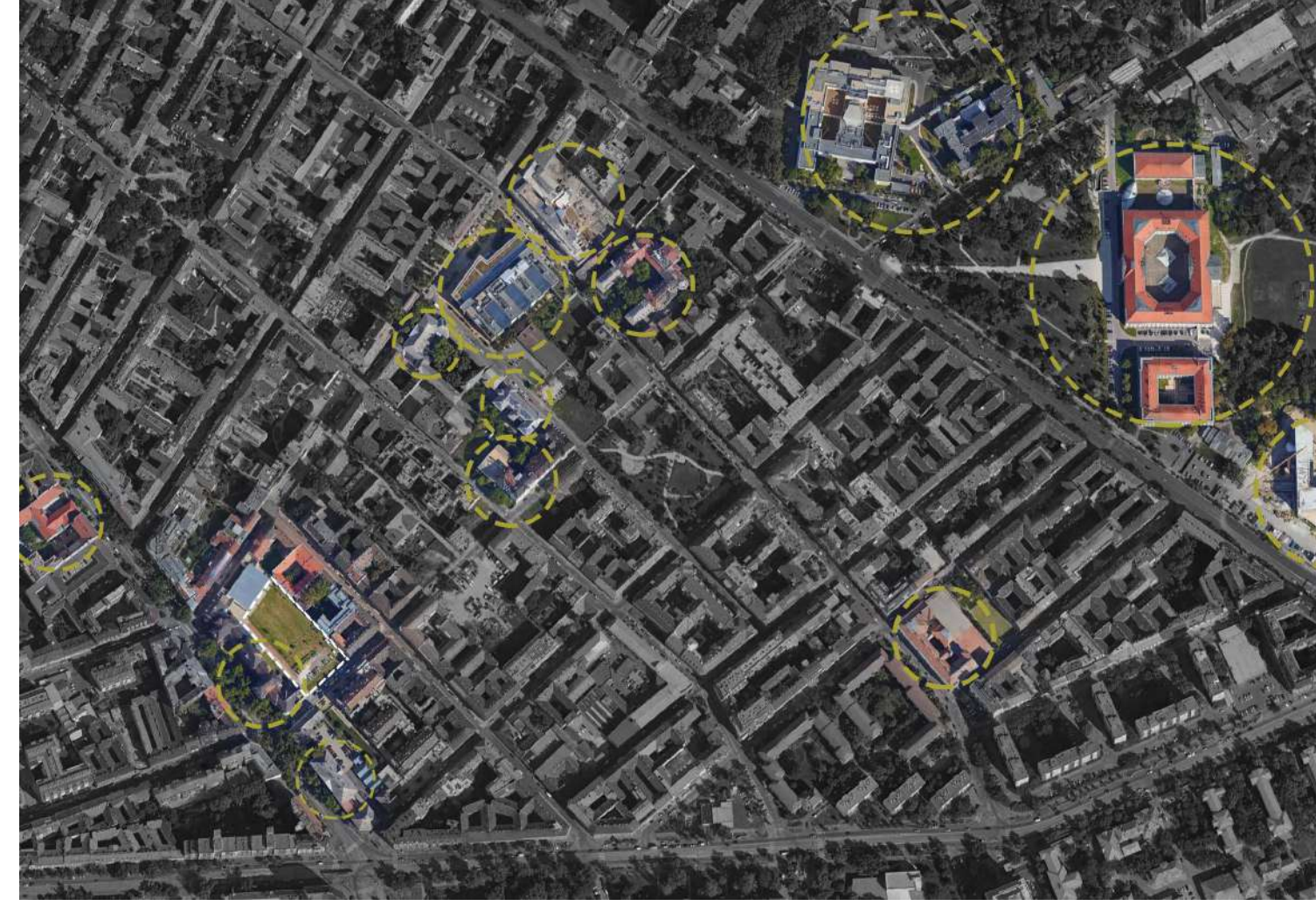


The plot's size is around 5,400 sqm and it can be simplified as a 50x90 meters rectangle.

The plot is commonly used with the neighbouring high school and it's sports hall. Therefore they are using this area as a backyard since their main entrances are facing to the streets. From the other side the plot is facing to the firewalls of the adjacent residential units. Also the plot's main entrance street is just adjacent to one of the well known streets in Budapest, Mester Utca.

The neighbouring high school building and its sports hall will be a big factor in terms of developing a concept since the plot is shared and facing to eachother. There can be a common garden situation if we consider the fact that this area might be used by the students.

The current usage of the plot is only being managed by the highschool. It is being used as a green area for the students and also as a parking spot for the highschool and the sporthall's users. Since the function of the plot is mostly abandoned, the project proposal will also cover ideas about the usage of this plot.



Surrounding the plot there are several educational institutes.

Some of these institutes are for higher education and some of them are for secondary education. The type of the institutes are pretty various because some of the secondary education establishments in the area are also for adults which means an educational level between higher and secondary is also available. Therefore during the weekdays there are so many students in the area. And a lot of university students are living in this district therefore the average age of the area is relatively lower than the rest of the surrounding areas.

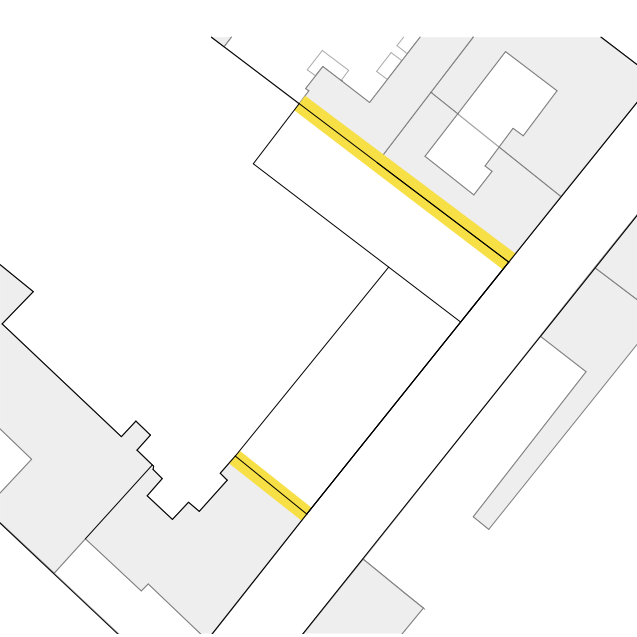
The list of the educational institutes near the plot (ordered by distance);

BGSZC Szent István Technikum és Kollégium, Tekei Blanka Vocational School of Economics, Molnár Ferenc Primary School, Fáy András Technical Highschool, Szent György Hang- és Filmművészeti Technikum, Leőwey Klára Gimnázium, Semmelweis University - Faculty of Medicine, Semmelweis University - Faculty of Anatomy, Ferencváros Primary and Secondary School Sports, National University of Public Service, Semmelweis University Headquarters.

Surrounding the plot there are several green areas.

The 9th district of Budapest, Middle Ferencváros, boasts several beautiful green areas that provide a peaceful oasis in the heart of the city. One of the most popular parks in the area is the Bakáts Square Park, which features a spacious lawn, benches, and playgrounds for children.

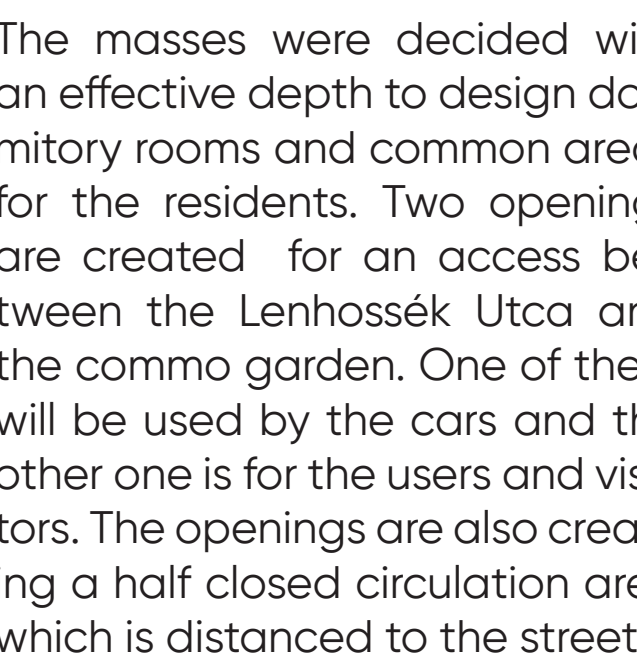
Another green space in Middle Ferencváros is the Semmelweis Garden, located near the Semmelweis University. The garden features a stunning fountain, walking paths, and benches, making it a popular spot for students to relax and unwind between classes. The Soroksári út Green Belt is another notable green area in the district, stretching along the Soroksári road. The green belt features bike paths, walking paths, and picnic areas, making it a popular spot for outdoor activities. Overall, the green areas in Middle Ferencváros provide a welcome respite from the urban landscape and offer a chance to connect with nature. Whether it's taking a leisurely stroll, enjoying a picnic with friends and family, or simply basking in the sun, these green spaces are an essential part of the district's charm and appeal. However in the area of the plot there is a need of a public green area where the residents can spend their time. Therefore the project is aiming to provide this missing spot for the surrounding residents.



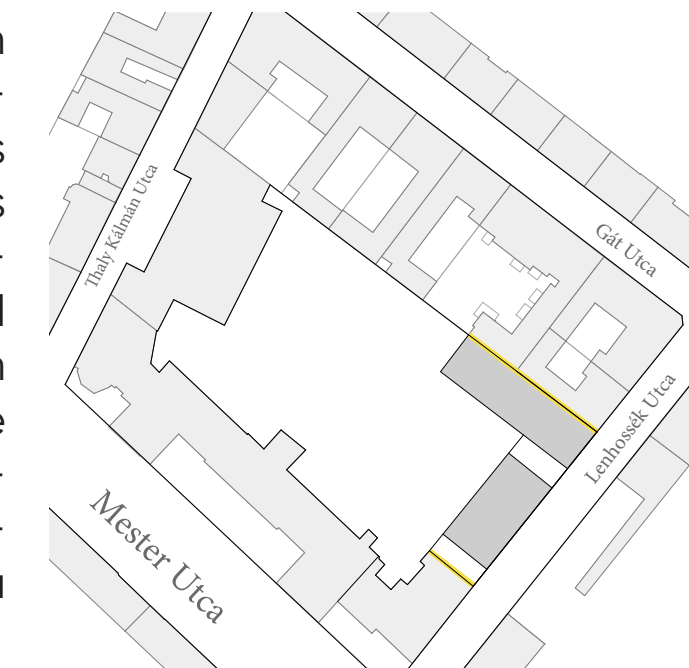
The first step was to find the border lines of the plot. The approach to the plot was keeping the open area in the middle and not to interfere to the flow by adding cross masses. The straight line towards the street was kept, however, openings were needed to give access to the green area.

The project's concept is mainly inspired by the goals of the design and by the environment of the plot. The goals of the project are ;

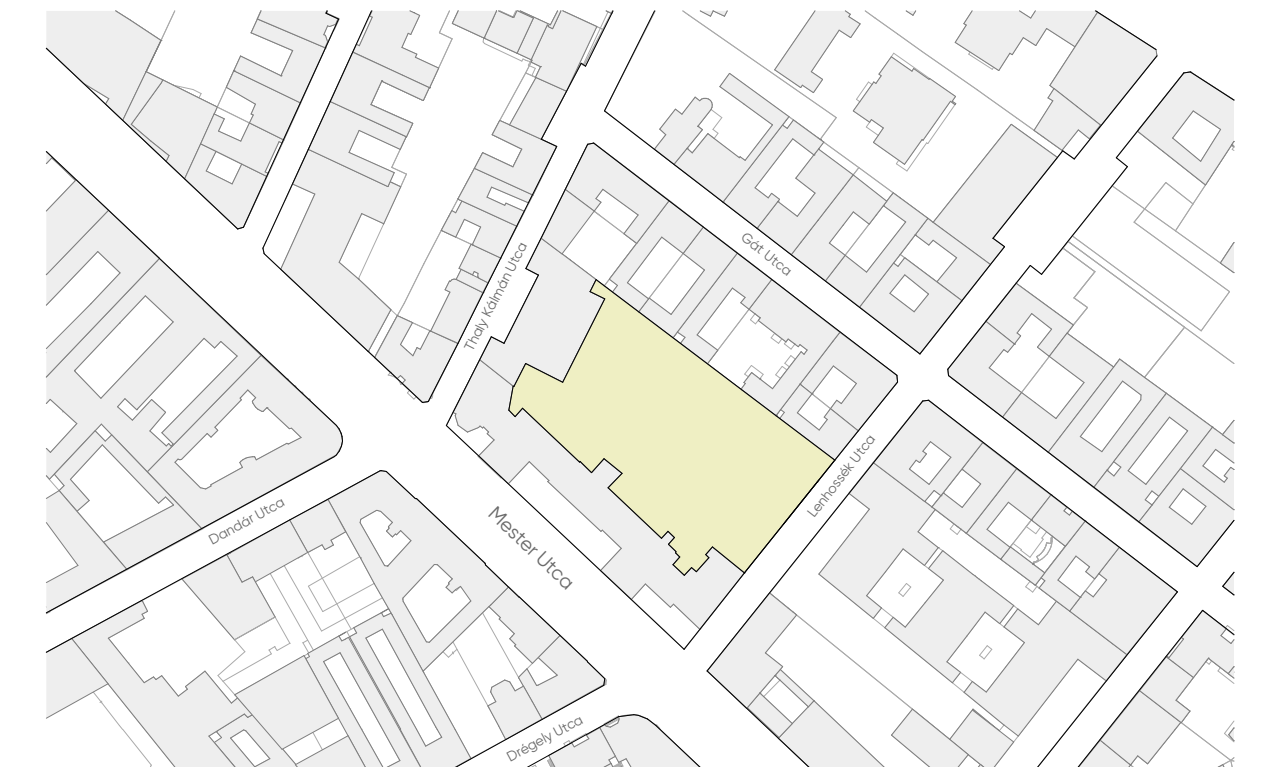
- Efficient usage of the abandoned common green area. Providing semi-public access and integrating to the building and to the neighbouring school.
- Creating a life style where students can enjoy green areas in the middle of the city, do sports and engage with the other students while using the common areas.
- Achieving a great balance between luxury and economical dormitory solutions.
- Providing enough storage place for the students.
- Building a flexible building for any other future use.



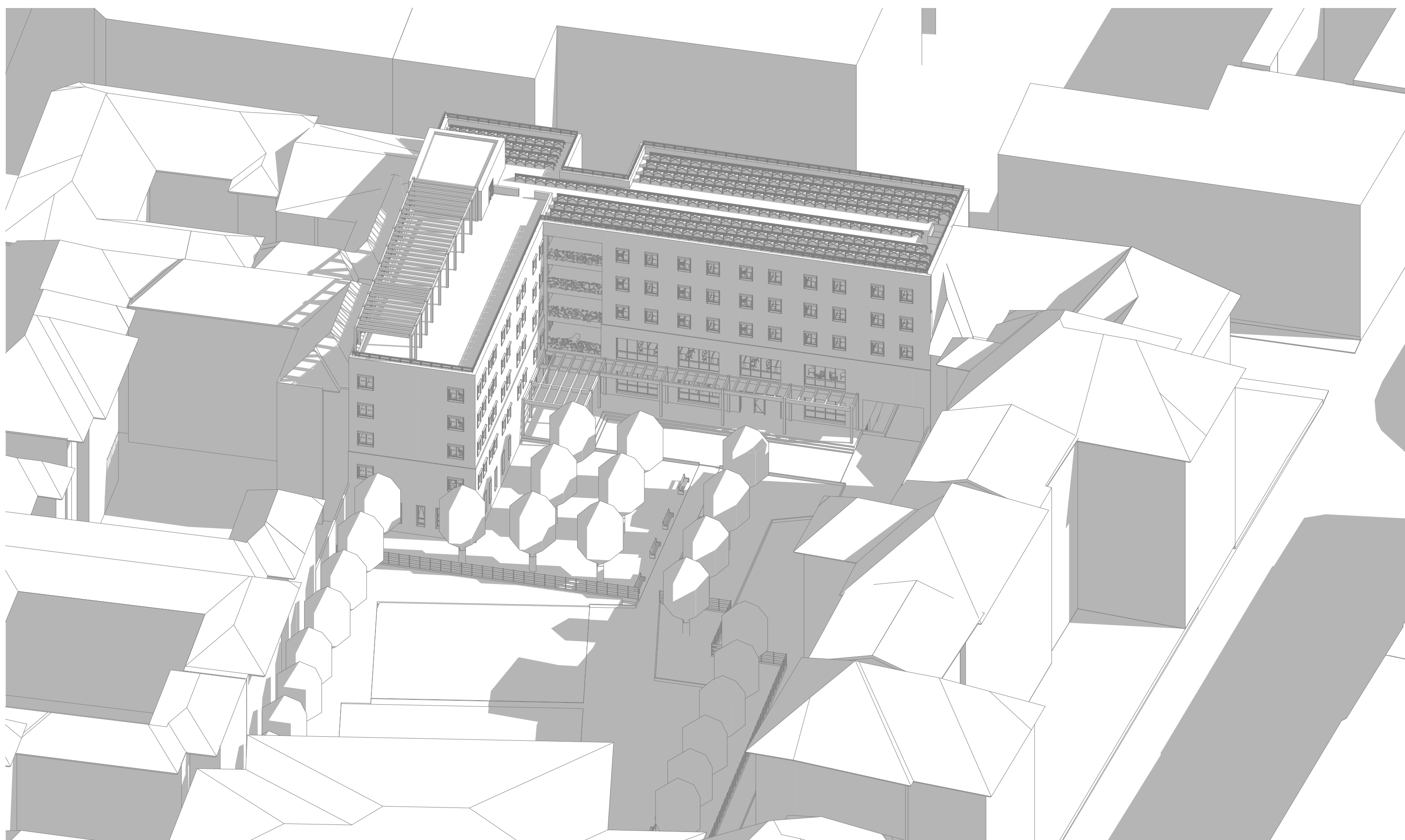
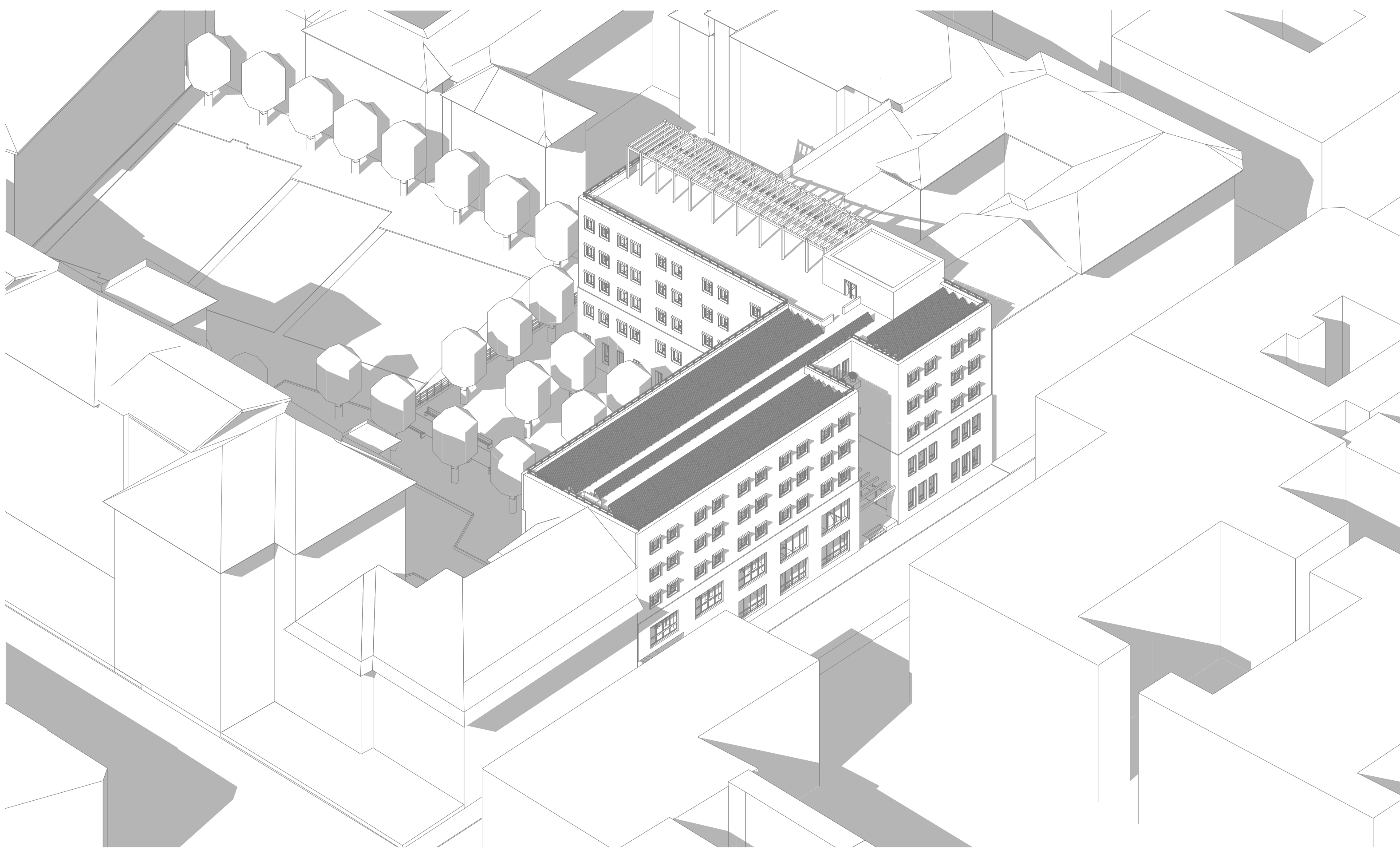
The masses were decided with an effective depth to design dormitory rooms and common areas for the residents. Two openings were created for an access between the Lenhossék Utca and the common garden. One of them will be used by the cars and the other one is for the users and visitors. The openings are also creating a half closed circulation area which is distanced to the street.



The spacing is formed in a way that creates visual connections to the common garden in the middle. The goal is emphasize the inner garden. The opening on the ground floor is merged on the upper floors so the opening is more like a tunneled access. This creates a feeling of semi-publicity which is aimed for to provide it for the neighbouring buildings.



The plot is open towards the south-east and it is the existing opening towards the abandoned green area in the middle of the block, which is belonging to the neighbouring high school. The goal is to orient towards the plot and cover around the block while leaving access to the green area in the middle.



Site Plan 1:500



Basement Plan Plan 1:100

Basement Floor (-1)				
Room	Type	Area(sqm)	Height(m)	Volume(m3)
1	Staircase	36.66	x	
2	Laundry Room	70.36	2.63	185.048
3	Circulation	92.41	2.63	243.0383
4	Storage	52.34	2.63	137.6562
5	Storage	106.01	2.63	278.0063
6	Storage	92.21	2.63	242.1423
7	Bike Storage & Garbage	366.6	2.63	964.158
8	Security Room	17.22	2.63	45.2886
9	Mechanical Room	28.39	2.63	74.6657
10	Boiler Room	29.18	2.63	76.7636
Total		892.18		2250.5436

Upper Floors (+2/+3/+4)				
Room	Type	Area(sqm)	Height(m)	Volume(m3)
1	Corridor 1	64.35	2.8	180.18
2	Corridor 2	78.5	2.8	219.8
3	Common Area	47.5	2.8	133.0
4	Study Room 1	24.68	2.8	69.104
5	Study Room 2	35.96	2.8	100.688
6	Toilets (2/2/2/3)	79.11	2.8	221.508
7	Rooms	430.95	2.8	1196.66
8	Staircase	36.66	x	
Total		797.51		2130.94

Top Floor (Roof Top) (+5)				
Room	Type	Area(sqm)	Height(m)	Volume(m3)
1	Solar Panels	572.73	x	
2	Roof Top Terrace	313.04	x	
3	Staircase	36.66	x	
Total		922.23	(excluded)	

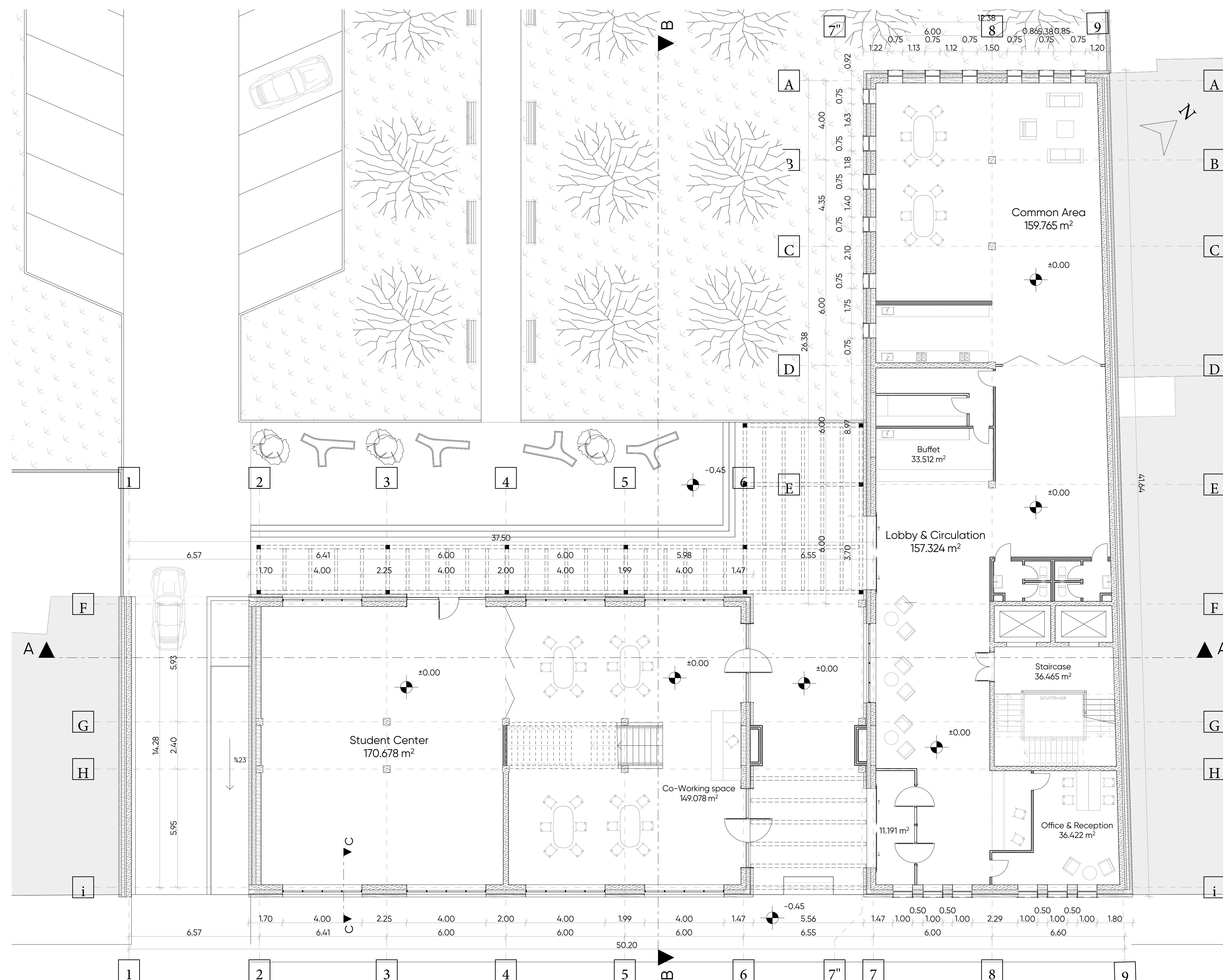
NFA : 4813.33m2
 Number of rooms : 81
 Number of students/residents : 99
 Heated area volume : 12133.95m3
 Co-working desk number : 78 + study rooms + offices/meeting rooms

Ground Floor (0)				
Room	Type	Area(sqm)	Height(m)	Volume(m3)
1	Student Center	170.67	3.65	622.9405
2	Co-Working Space	169.07	3.65	616.1055
3	Office & Reception	36.42	3.65	132.933
4	Lobby & Circulation	157.32	3.65	574.218
5	Autoclave	11.91	3.65	43.4715
6	Common Area	159.76	3.65	583.124
7	Toilets	11.37	3.65	41.5005
8	Buffet	33.52	3.65	122.348
9	Staircase	36.66	x	
Total		766.5		2664.666

First Floor (+1)				
Room	Type	Area(sqm)	Height(m)	Volume(m3)
1	Co-Working Space	292.86	3.31	969.4464
2	Common Area	111.23	3.31	368.1713
3	Kitchen	41.26	3.31	136.5064
4	Toilets	28.12	3.31	93.1772
5	Office 1	24.68	3.31	81.6908
6	Office 2	35.9	3.31	118.829
7	Office 3	24.66	3.31	80.9626
8	Office 4	24.09	3.31	79.7279
9	Office 5	24.63	3.31	81.5253
10	Office 6	24.72	3.31	81.8032
11	Office 7	33.36	3.31	110.4016
12	Office 8	33.93	3.31	112.3083
13	Staircase	36.66	x	
14	Corridor	46.44	3.31	153.7044
Total		763.12		825.9643



Ground Floor Plan 1:100



Structural Floor Plan



First Floor Plan 1:100

Upper Floors Plan (+2,+3,+4) 1:100

The co-working space and student dormitory project offers a diverse range of functions to cater to the needs of its occupants. The co-working space provides a dynamic and collaborative work environment, offering private offices, dedicated desks, a little buffet and open collaboration zones. It serves as a hub for professionals and students, fostering creativity, networking, and productivity.

Adjacent to the co-working space, the common green area serves as a tranquil outdoor retreat. It provides a shared space for relaxation, socializing, and fostering a sense of community among the building's occupants and neighboring structures. The green area promotes well-being and offers a connection to nature within the urban environment.

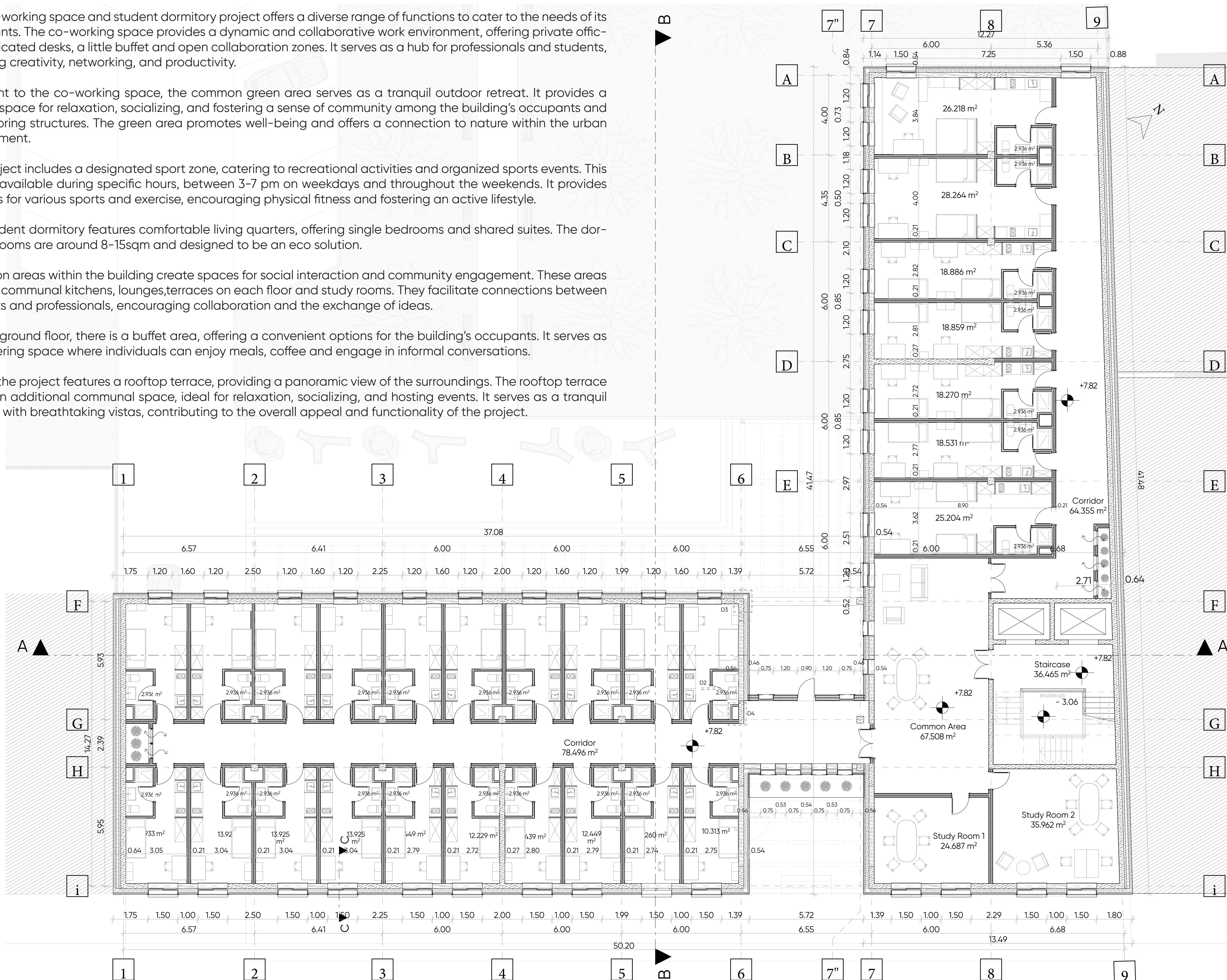
The project includes a designated sport zone, catering to recreational activities and organized sports events. This area is available during specific hours, between 3-7 pm on weekdays and throughout the weekends. It provides facilities for various sports and exercise, encouraging physical fitness and fostering an active lifestyle.

The student dormitory features comfortable living quarters, offering single bedrooms and shared suites. The dormitory rooms are around 8-15sqm and designed to be an eco solution.

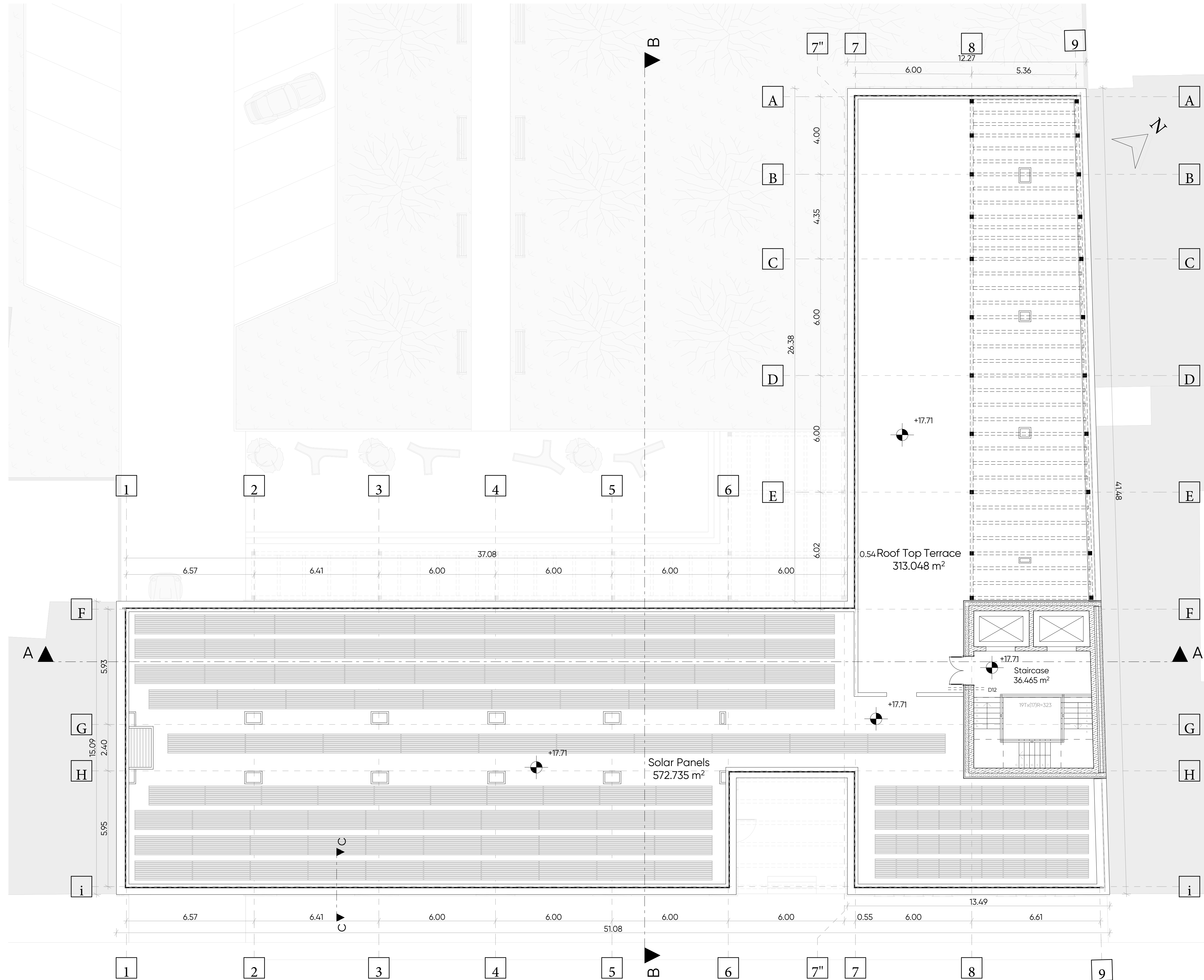
Common areas within the building create spaces for social interaction and community engagement. These areas include communal kitchens, lounges, terraces on each floor and study rooms. They facilitate connections between students and professionals, encouraging collaboration and the exchange of ideas.

On the ground floor, there is a buffet area, offering a convenient options for the building's occupants. It serves as a gathering space where individuals can enjoy meals, coffee and engage in informal conversations.

Finally, the project features a rooftop terrace, providing a panoramic view of the surroundings. The rooftop terrace offers an additional communal space, ideal for relaxation, socializing, and hosting events. It serves as a tranquil escape with breathtaking vistas, contributing to the overall appeal and functionality of the project.



Roof Top Floor Plan 1:100



The project is consist of some key areas and functions which makes the project unique. The program is following :

BIKE STORAGE (-1) : The area is designed for the residents and the co-working space users to store their bikes within the building.

STORAGE (-1) : Storages are designed to keep some furnitures from the student center and from the common areas. Also, during the summer season the students can keep their stuff inside the storages and their rooms can be rented out to use the rooms efficiently.

LAUNDRY ROOM (-1) : A room for residents to socialize and have access to the laundry service by a certain price.

STUDENT CENTER (0) : Student center is designed as a common space for all the students who are residing in the building. They can use this space for their planned events, movie nights, exhibitions, etc. Also it can be rented out to third parties. It is only accessible through the co-working space and back loggia.

CO-WORKING SPACE (0-+1) : Co-working spaces have become increasingly popular among students as an effective study environment. These spaces offer a range of benefits tailored to meet their academic needs. With well-equipped workstations, reliable Wi-Fi, and comfortable seating, students can escape the distractions of home and find a productive atmosphere. Additionally, co-working spaces encourage interaction and collaboration with fellow students from various disciplines, fostering a sense of community and facilitating knowledge sharing. The flexible membership options and extended operating hours cater to students' schedules, allowing them to study at their own pace. Overall, co-working spaces provide students with a dedicated and inspiring setting that promotes focus, motivation, and productivity. It is not only designed for the residents but also for people from outside as well.

COMMON AREA (0) : Common Area is designed to be a meeting point for all the students from the dormitory and a common space to spend time. The area is also having a big well equipped kitchen accessible to all the residents.

BUFFET (0) : The buffet is a small sized serving point for the residents and also for the public. It is on the way between Lenhossek Utca and the common garden. It is also at an accessible point to the residents and students. The range of goods which can be served are limited to coffees, cold drinks, sandwiches, snacks, ice cream etc. The kitchen size is limited.

The main structure is an RC Wall frame structure. The elements are as follows:

Columns/Wall : The columns are reinforced concrete using C30/37 concrete. The dimensions of the columns are 45x45 cm on the basement and ground floor and it becomes 35cmx35cm on the upper floors. The loads are carried by the RC frame walls C30/37 on the outer frame of the building. The thickness is 25cm and the length varies. The whole building surrounded by 25cm thick RC wall on the basement.

Beams : The beams are reinforced concrete using C30/37 concrete with the height of 45 cm and width of 35 cm. The width becomes 45 cm on the lower floors where the columns are 45cm.

Slabs : The reinforced concrete slabs have the thickness of 25 cm, using C25/30 concrete.

Shear Walls : The shear walls are 25 cm thick reinforced concrete elements placed in between columns. It is also wrapping around the elevator shaft (21 cm), starting at the parking level up to the roof. The fact that the building is supported by rc frame walls on the outer skin instead of columns decrease the need of shear walls.

Foundation : The foundation is a reinforced concrete pad foundation and strip foundations under the RC walls on the basement. With the height of 1m and 60cm wide. The pad foundations on the middle (G and H grid) are merged together due to being close to eachother. So all the columns on the G and H grid are sitting on the same pad vertically on each row.

COMMON GARDEN : Common Garden is designed in a way to serve to 3 different target group. The students of the neighbouring school, The building residents and the residents from the neighbourhood. Between 3-7pm on the weekdays and 10AM-7PM during the weekends the other half of the garden is accessible to everyone. During the school hours the sport fields are only accessible by the school students. Although the green area which is close to the dormitory is 24/7 accessible to everyone.

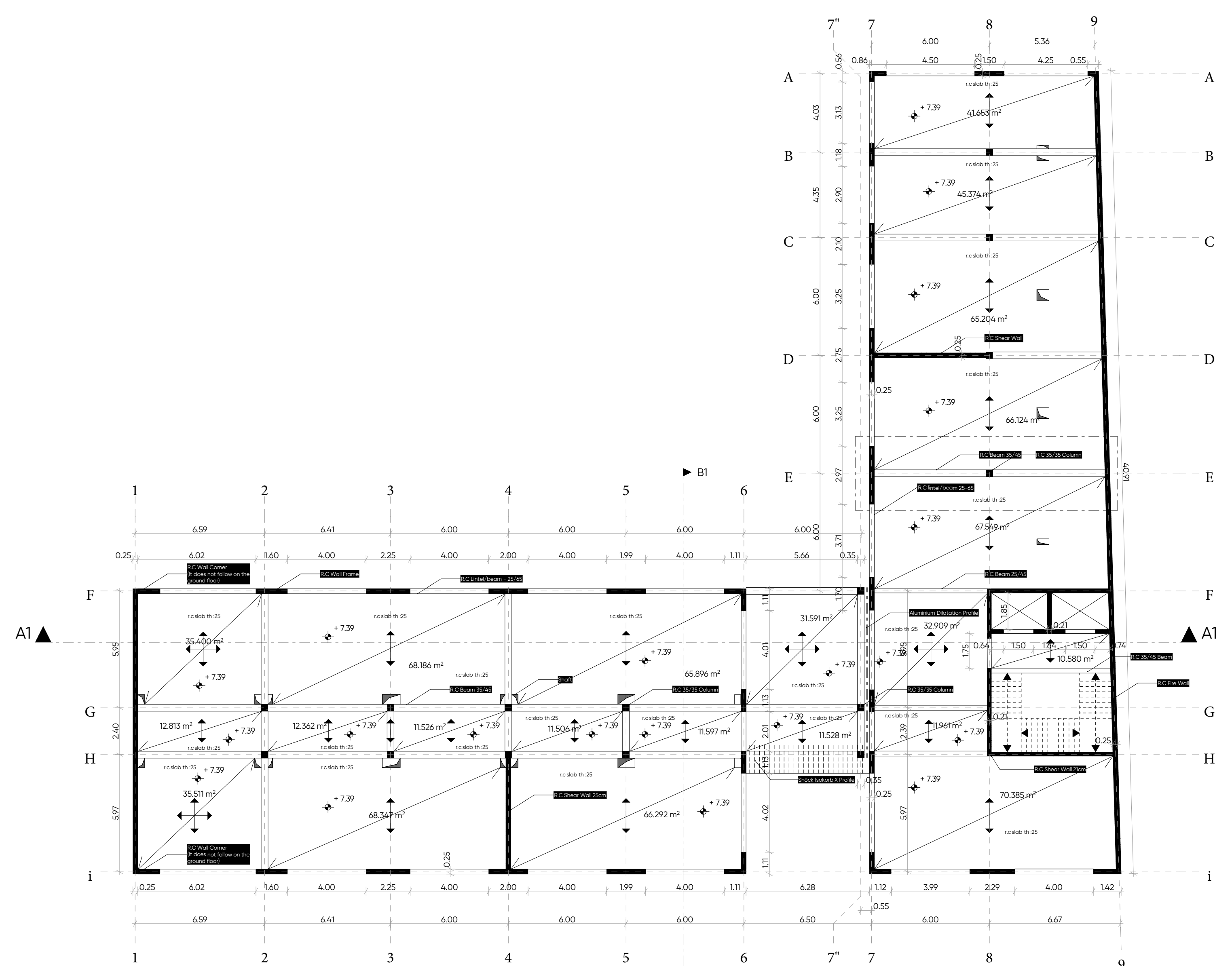
LOBBY/RECEPTION/OFFICE (0) : The whole complex is being managed by one host and it is being managed through the office and the reception. The users will need keycards to access to the different areas inside the building. For example the people who only comes for the co-working space will only have access to the left part of the building.

OFFICES (+1) : Rentable office rooms in co-working spaces have become a popular choice for professionals seeking a flexible and collaborative work environment. These private office spaces offer numerous advantages for businesses and individuals. With various sizes and configurations available, they can accommodate teams of different sizes and provide a dedicated and professional workspace. Renting an office room in a co-working space also grants access to shared amenities such as meeting rooms, communal areas, and kitchen facilities, fostering collaboration and networking opportunities. Moreover, the flexible lease terms and all-inclusive pricing make it convenient for businesses to manage their budget effectively.

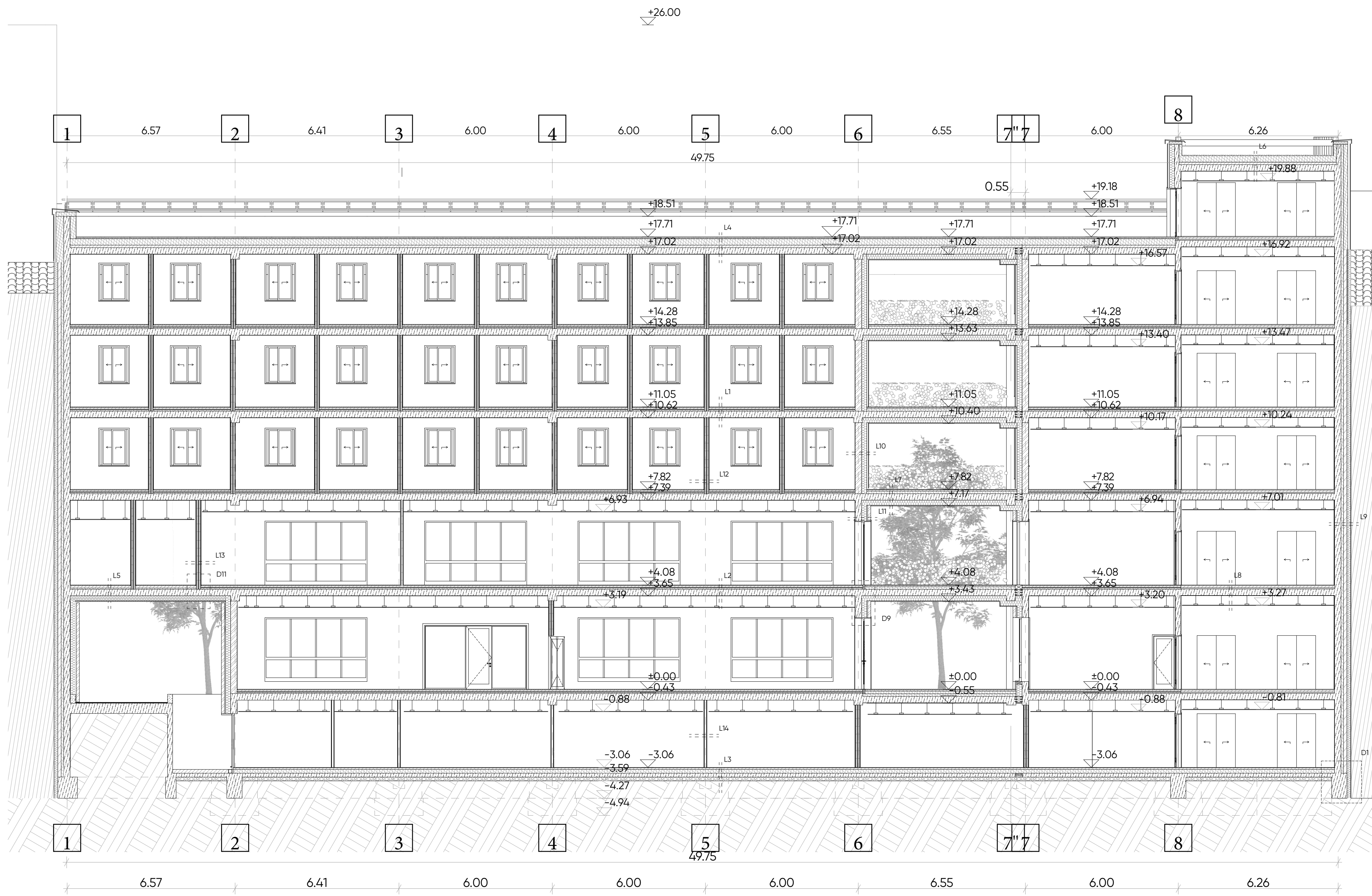
STUDY ROOMS (+2,+3,+4) : The study rooms are only accessible to the students and they can be booked through the reception on the ground floor. It is an equipped classroom for the students.

ROOFTOP TERRACE (+5) : A rooftop terrace at a student dormitory offers an ideal space for students to unwind and socialize. Firstly, it provides a refreshing escape from the confines of their rooms, allowing them to enjoy the outdoors and soak up some sun. The terrace offers a panoramic view of the surroundings, offering a scenic backdrop for relaxation and contemplation.

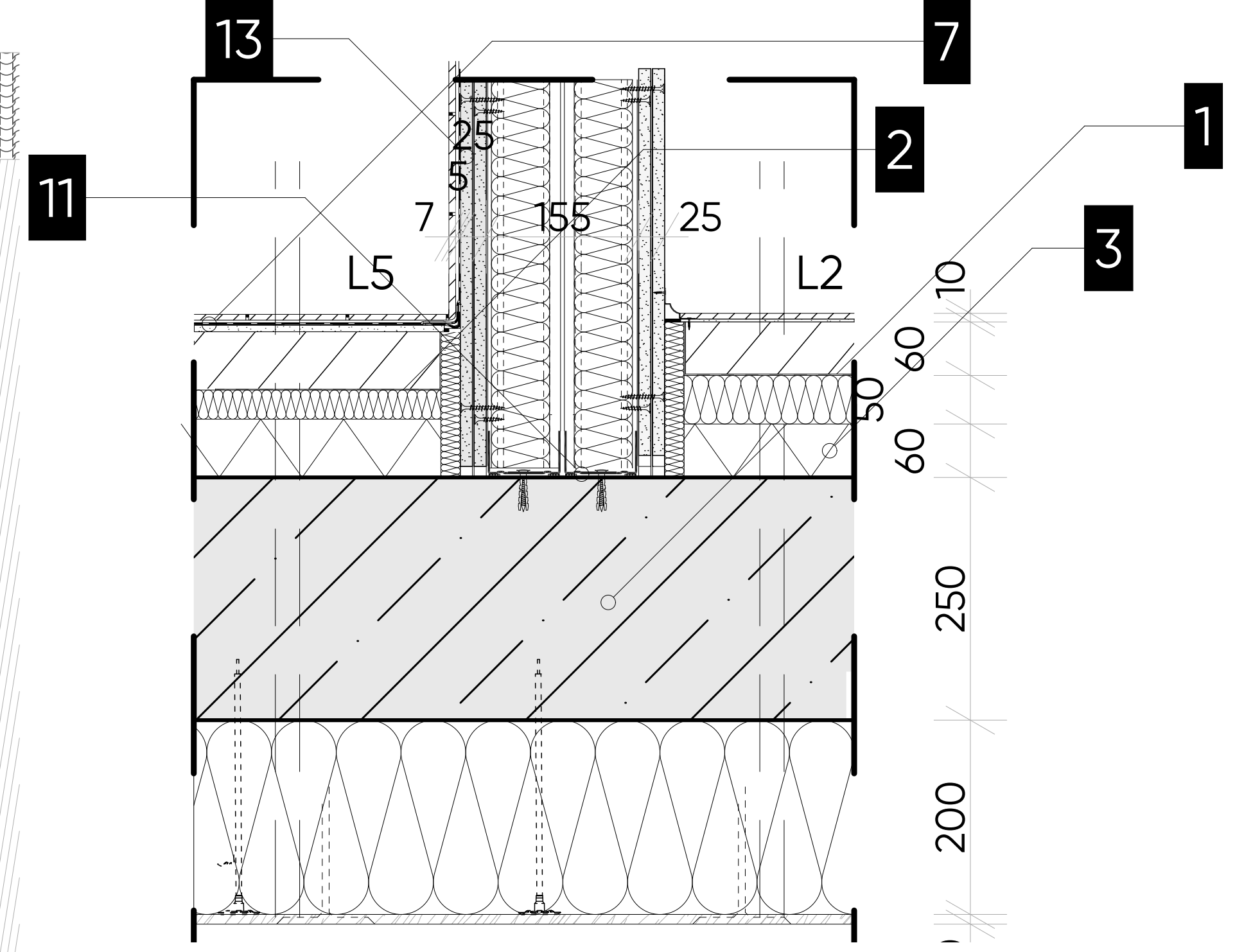
Moreover, it serves as a fantastic gathering spot for students to interact and build relationships. Whether it's studying together, having group discussions, or organizing social events, the terrace provides a communal area where students can connect with their peers. It also offers a perfect setting for hosting small gatherings or BBQ parties, fostering a sense of community among the residents. Additionally, the rooftop terrace can be utilized for various recreational activities.



A-A Section 1:100



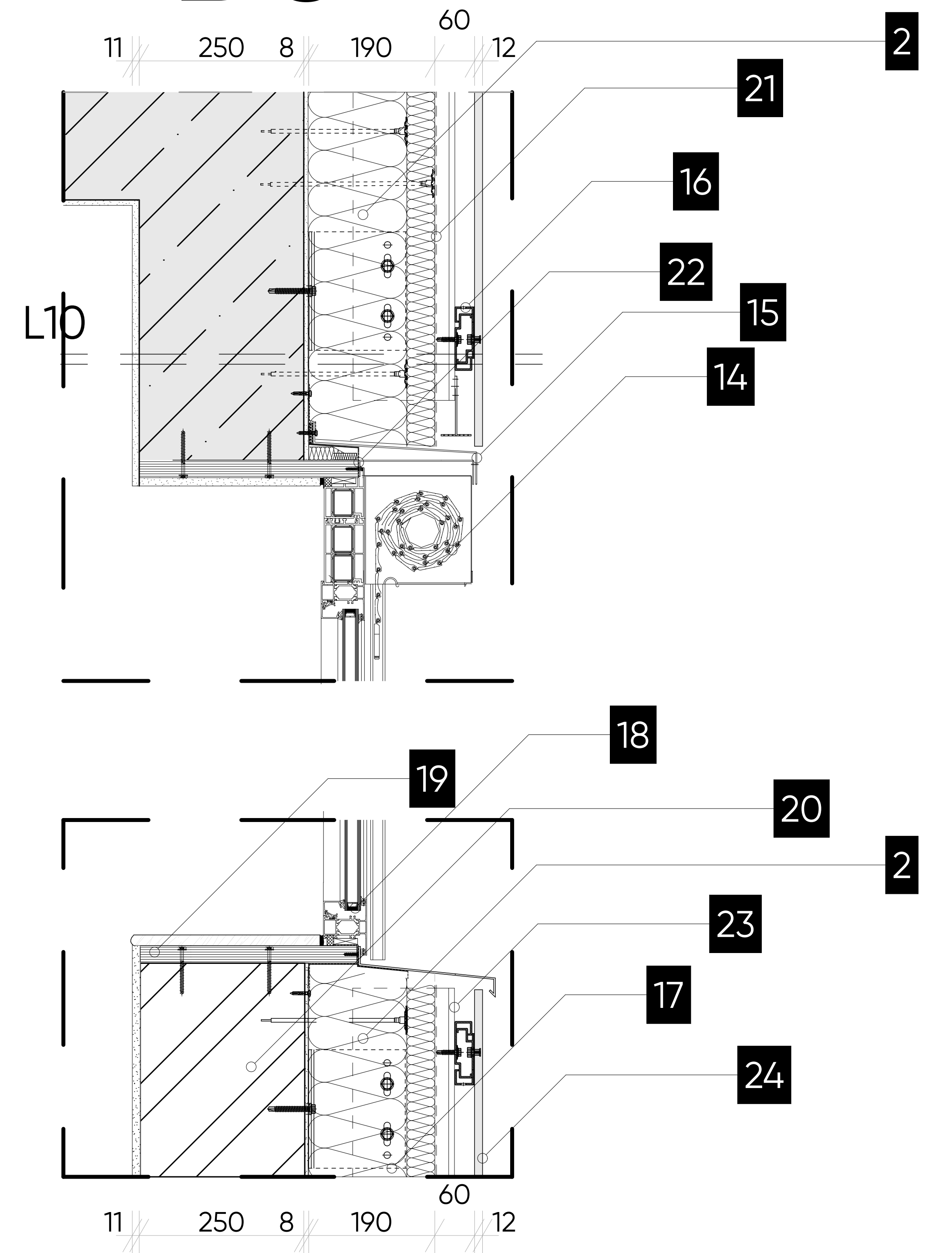
D11



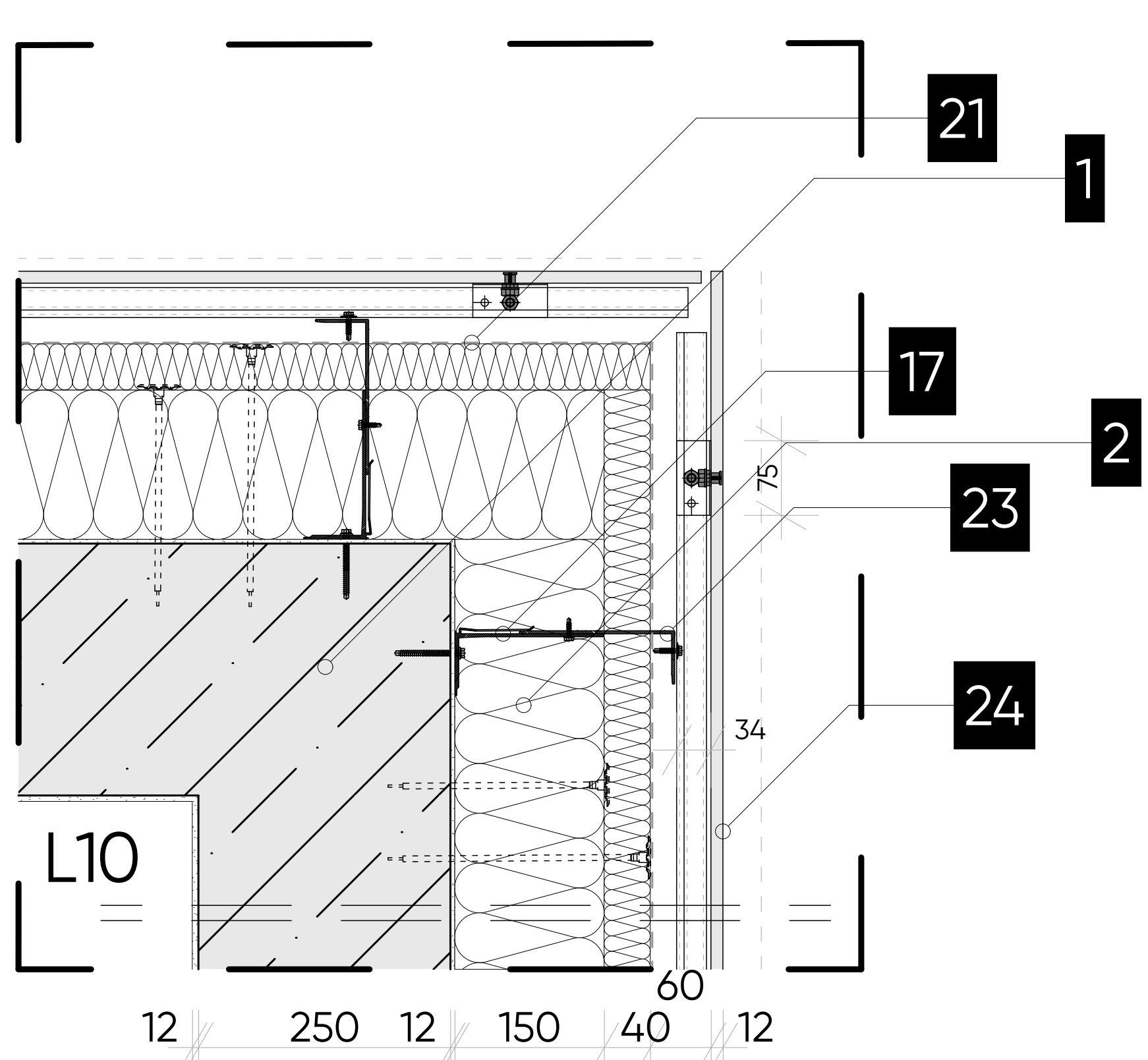
B-B Section / Western Elevation 1:100



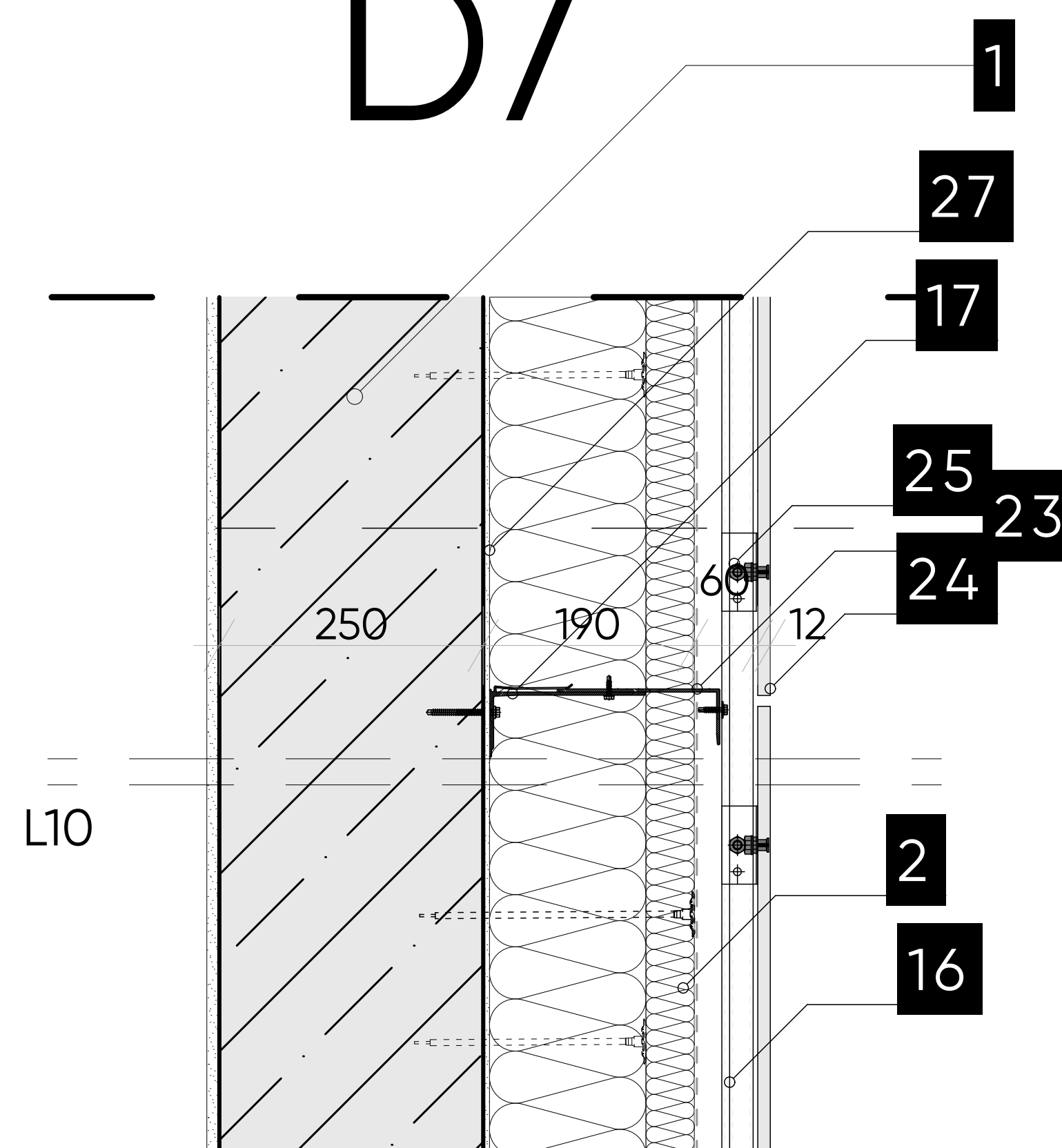
D5



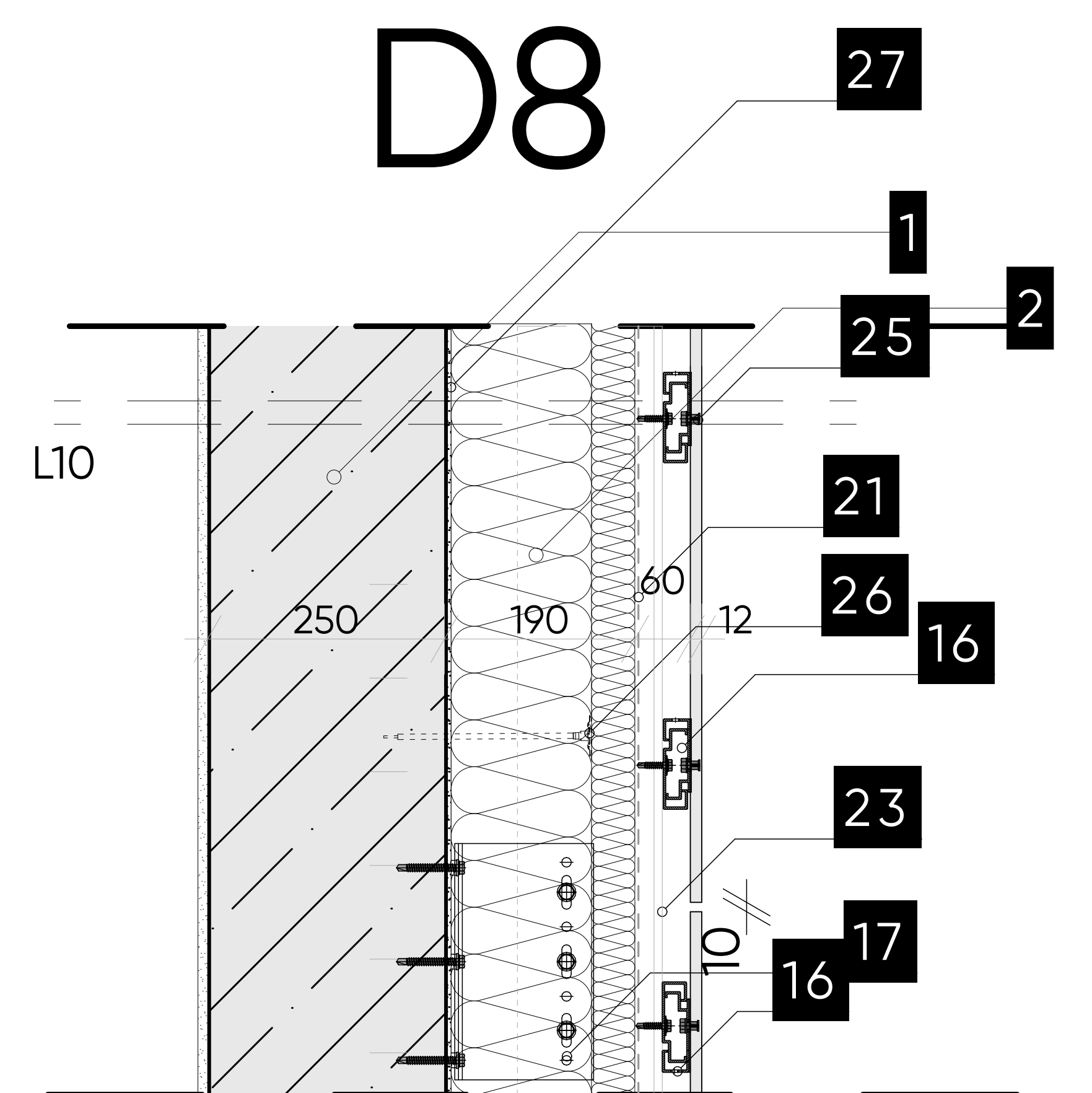
D3



D7



D8



Northern Elevation 1:100

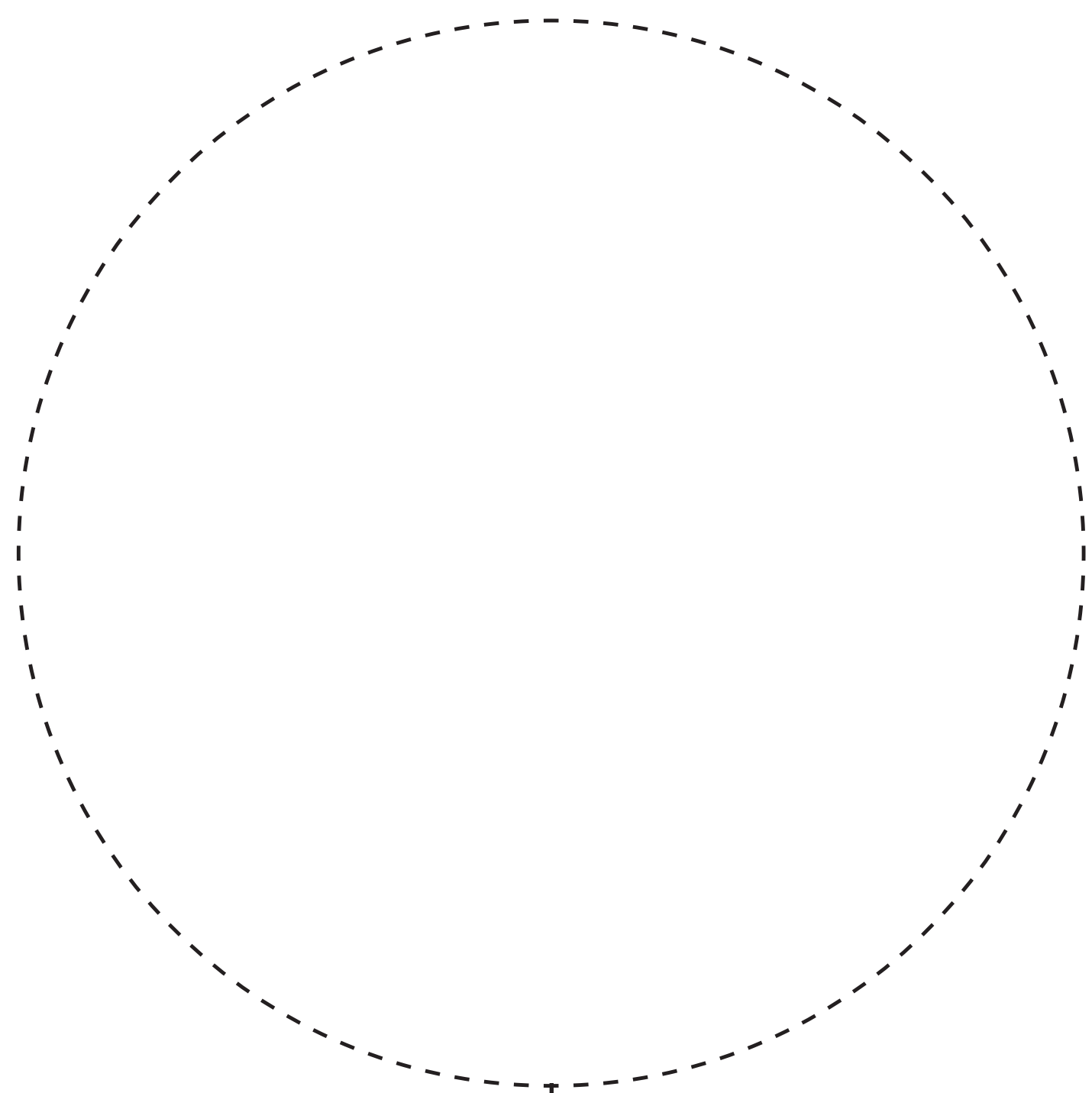
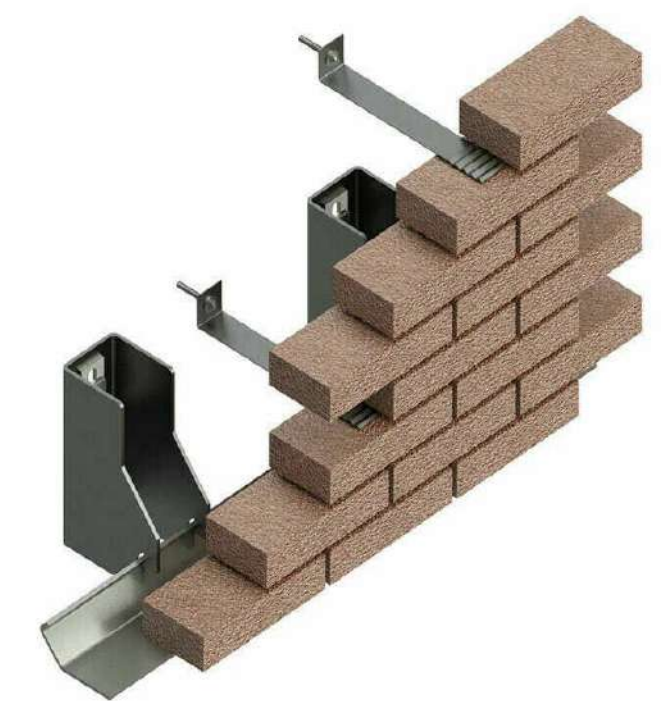
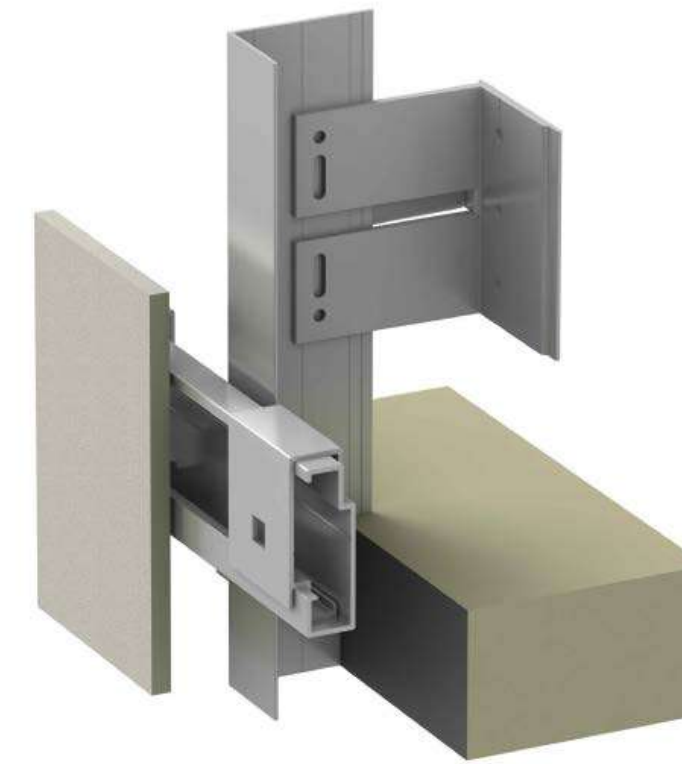


For the facade system, fiber cement panels and brick is chosen as a cladding material. It provide a visual abstractness to the facade and provides a feeling of a contemporary look. Both claddings are used with ventilated systems.

For the fiber cement claddings, a double layer support system was chosen. The advantages of double layers were influential when making the decision. And also the easthetic reasons. Which means there would be runners on two direction. Brackets being fixed vertically and secondary horizontal runners.

Eco Cladding Alpha 40VCi System ; Panel Subframing system that offers fixing using concealed, undercut anchors for cement composite, ceramic, stone, HPL and fiber concrete panels. The back of each panel is pre-drilled using undercut drill bit to receive the hanger clip and expanding bolt anchor.

Engineered to address deadload, windload, seismic concerns, thermal requirements and material deflection for either steel stud or concrete back-up conditions.



Southern Elevation 1:100

C-C Section/Elevation 1:25

