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Architectural Design
Portfolio 3.sem

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Exercise

The first exercise in the 3. Semester was about the volume of a Building.

The Situation is placed at a street-crossing in Zurich's district no.5.

Only the facade and the volume of the building had to be created.



Area

The pictures show the situation of exercise no. 1.

The small house at the crossing (in the picture at the upper-left) is the place where the building of exercise no. 1 should be placed.

The big street along the situation is dominated by buildings which all have almost the same height. This is because of an old law which defined the maximum heights of the buildings in this area. Today the law is no more used in such a strict way.

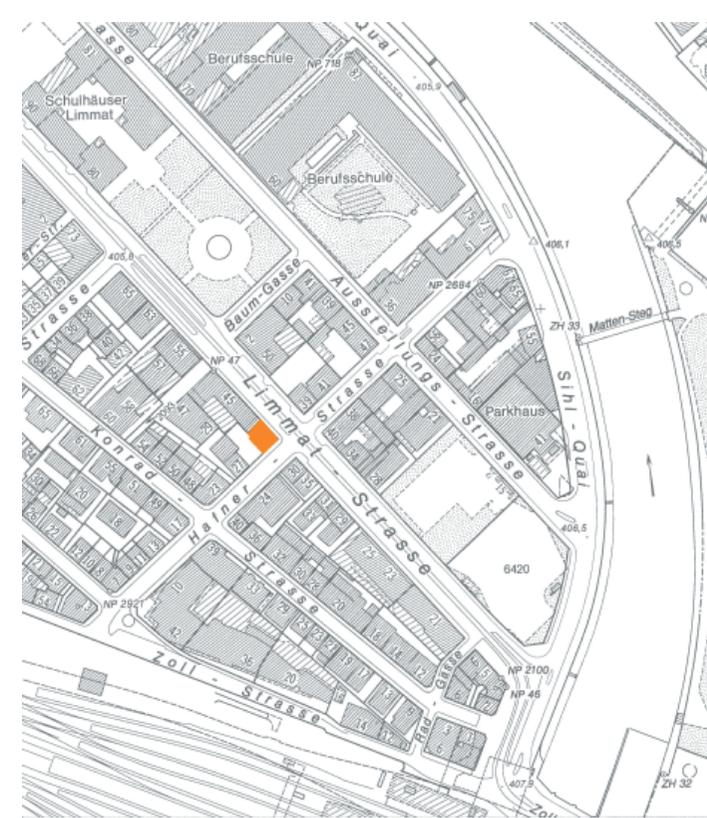


Situation

A tower-like building was created at the street crossing.

The uniform height of the buildings around was broken and so the new building gives a new character to the street.

The street shouldn't be seen as a row of buildings but as a line with unique buildings which altogether create the street as one object made out of empty places, buildings, nature.



Appearance

The hole façade of the building is made out of concrete with a smooth surface and a clear structure.

The openings in the façade are arranged regularly but the windows are irregularly placed in the opening.

Thus the regularity of the nearby buildings' façades is taken over and at the same time the building gets the character of something new with its surface and the arrangement of the windows in the opening.



Exercise

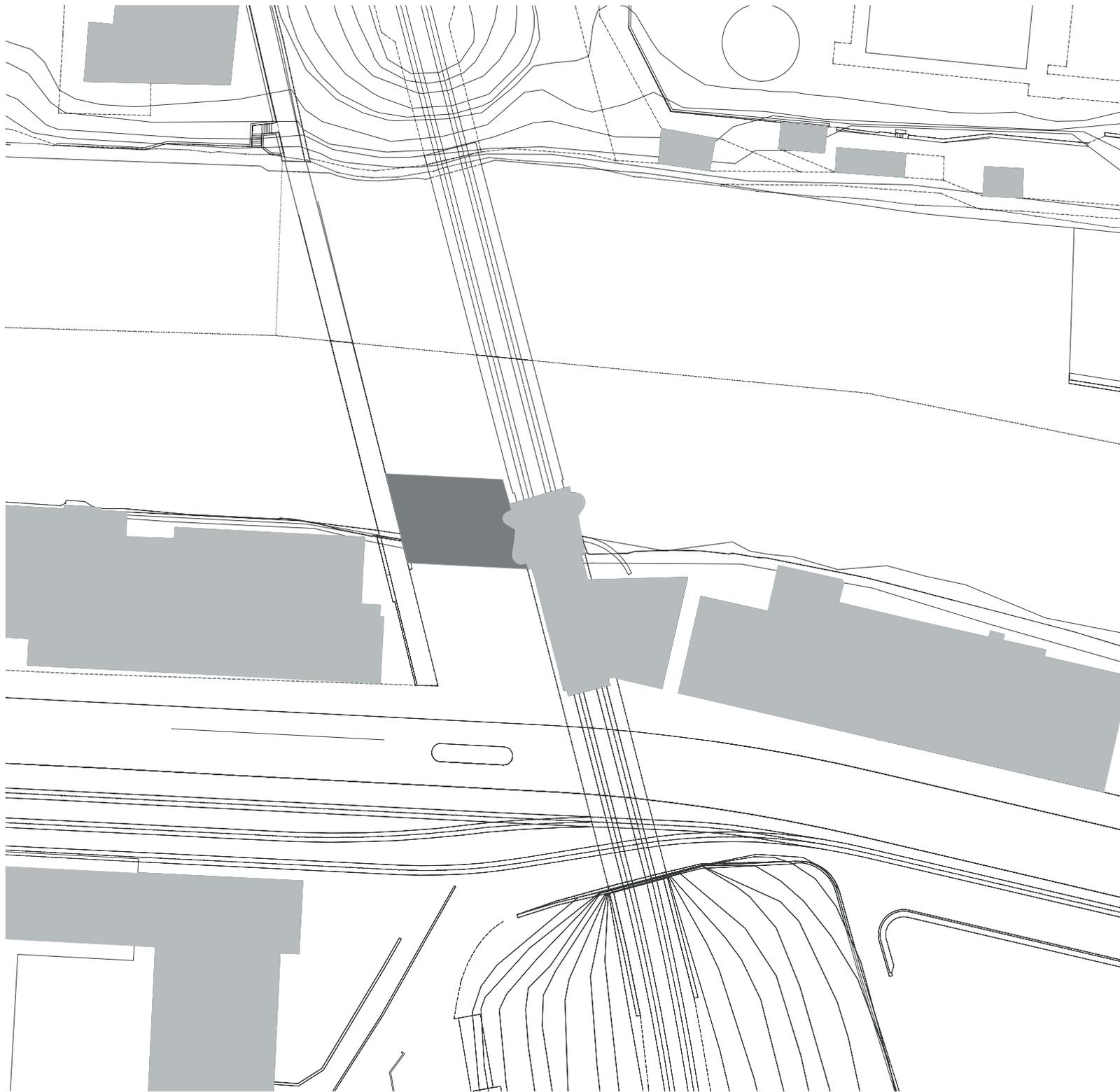
The rest of the semester was one exercise.

The situation is placed in the same area of Zurich as in exercise no.1

It is placed at a river which crosses Zurich (the Limmat), besides a railway bridge and a street which leads directly to the center of Zurich.

It is one of the few rest areas which are left in Zurich's district no.5.



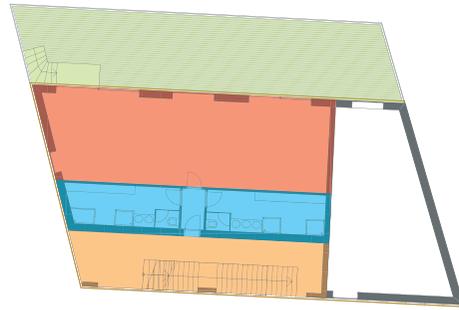


Situation

The building's ground form was created by the direction of the railway bridge and the street in front of it.



Ground plan Ground floor.



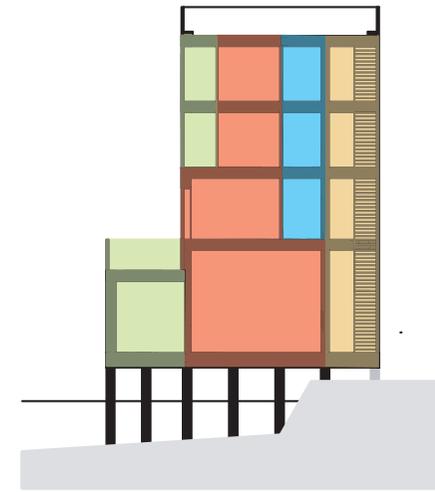
Ground plan first floor (taichi school)

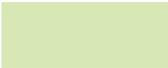


Ground plan second floor (apartment)



Ground plan third floor (apartment)



main using (cinema, living)	
secondary using (bar, terrace)	
development	
sanitary facilities	

Programm

cinema for around 70 people, bar, taichi school (main room 60 m²), two appartements (one of them for the teacher of the taichi school).

Organisation

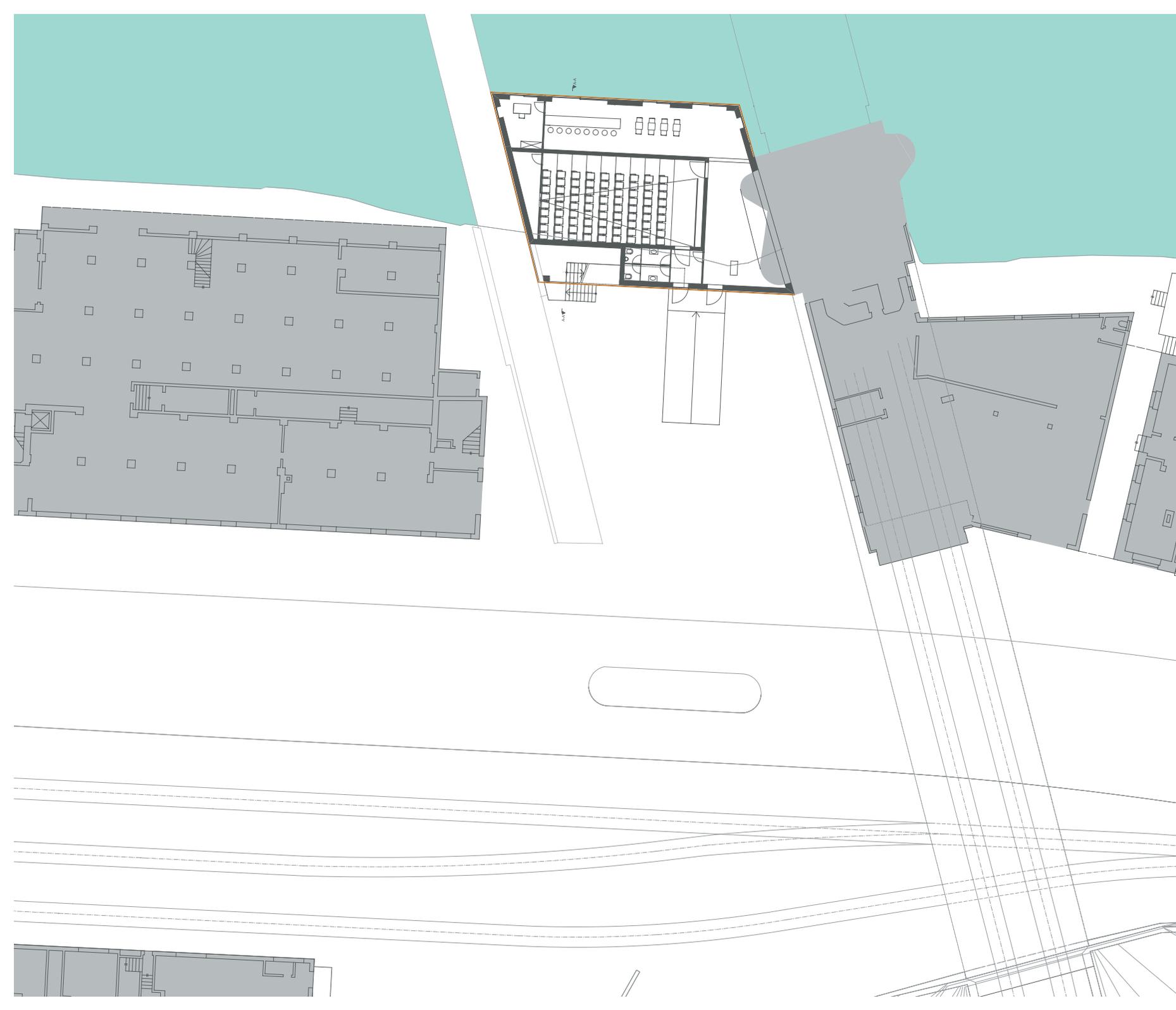
The idea is to but all theses functions together in one building and not to split them off.

The building is built up by stratifying the different functions horizontally as well as vertically.

Ground plan Ground floor.

The existing bunker under the bridge is included in the building by creating a high entrance situation.

The zone of the cinema defines the ground floor for the upper levels.



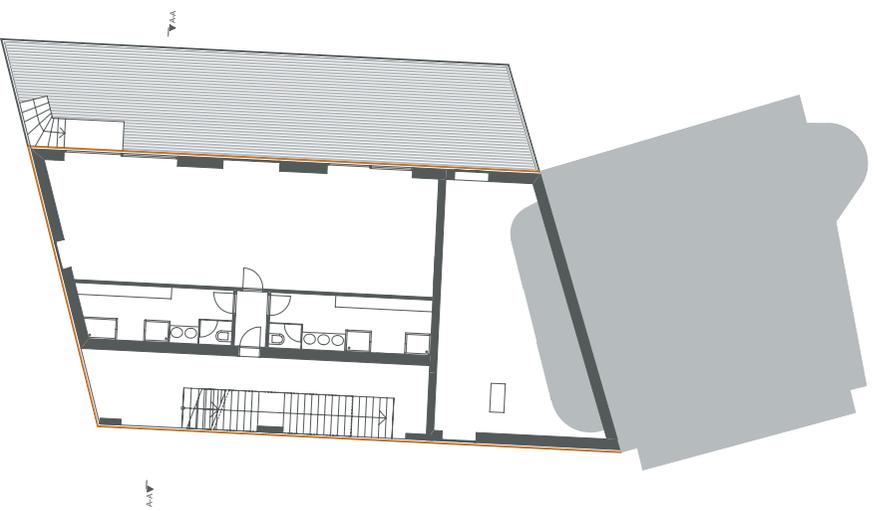


Ground plan Ground floor.



Ground plan second floor (apartment)

Ground plan first floor (taichi school)



Ground plan third floor (apartment)



Structure

The building is put on a platform which is built on piles in the water as a pile-work building. Like this the building gets the real character of a lake house even if its in the middle of the city. The building itself is made out of concrete.

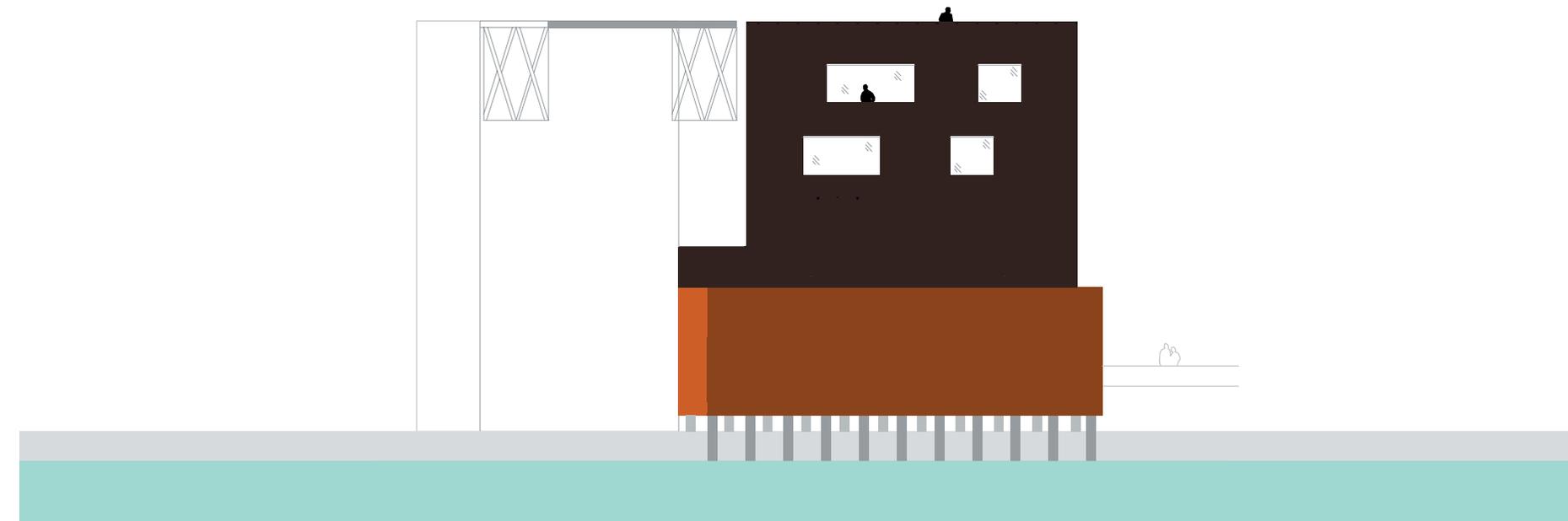


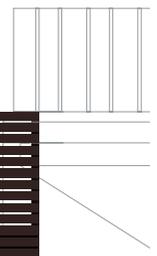
Façade

The façade is made out of wood. The boards are 7cm x 2cm big and are put upend. Between them there is a gap of 3cm.

The hole building is wrapped up with wood boards and also things like balustrade or window shutter is made with them.

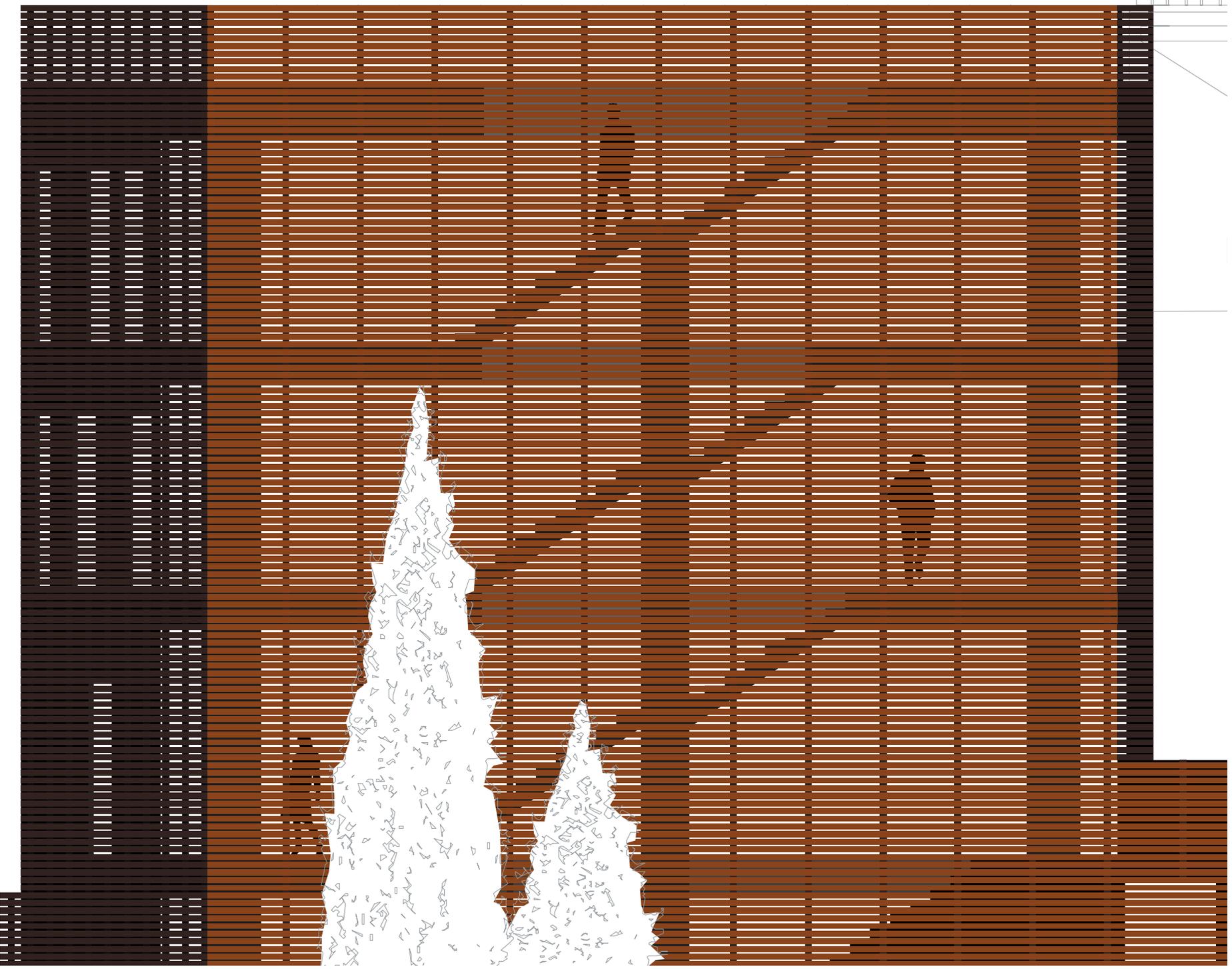
The surface of the facade gets homogeneous even if wood as material is totally heterogeneous.



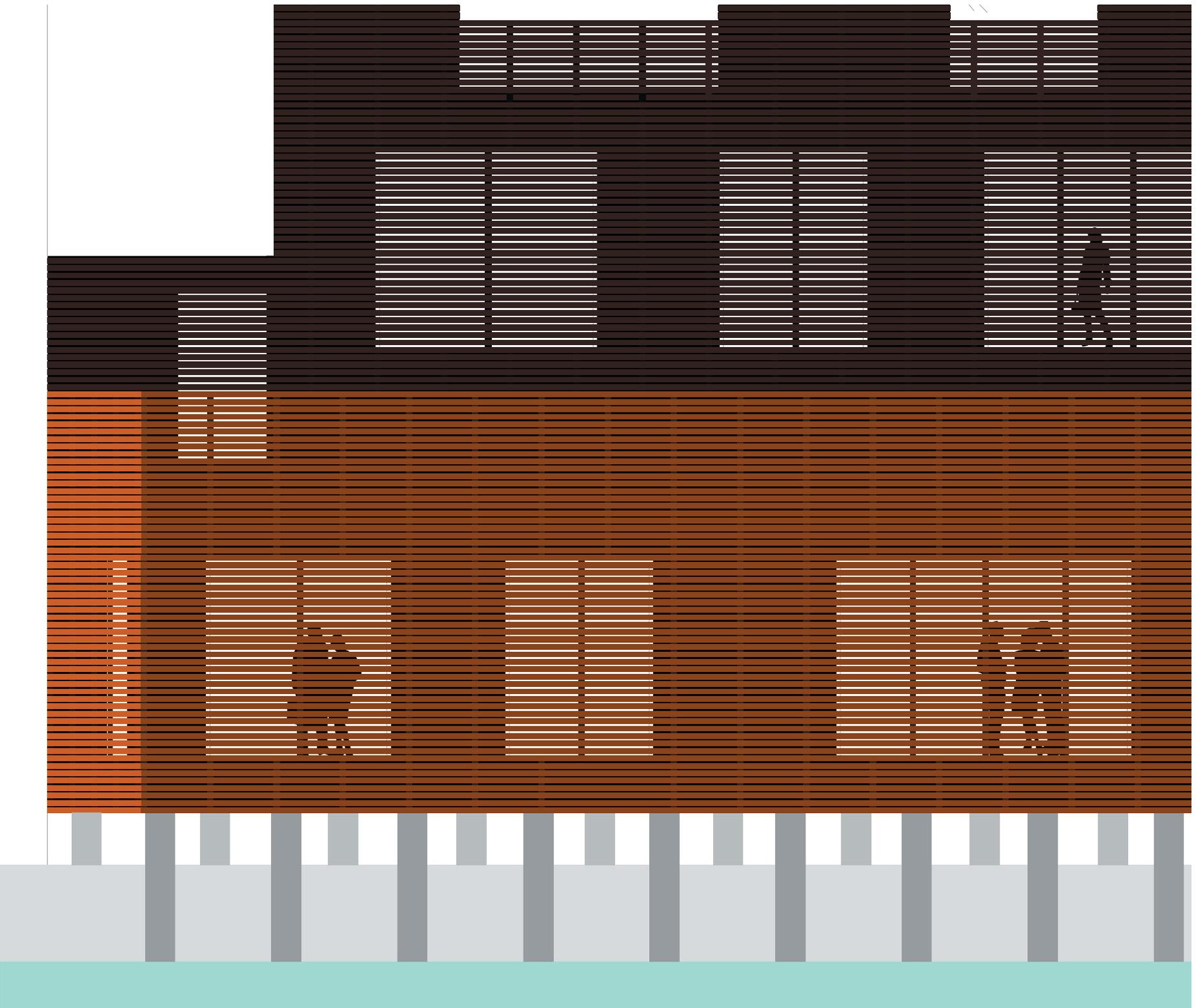


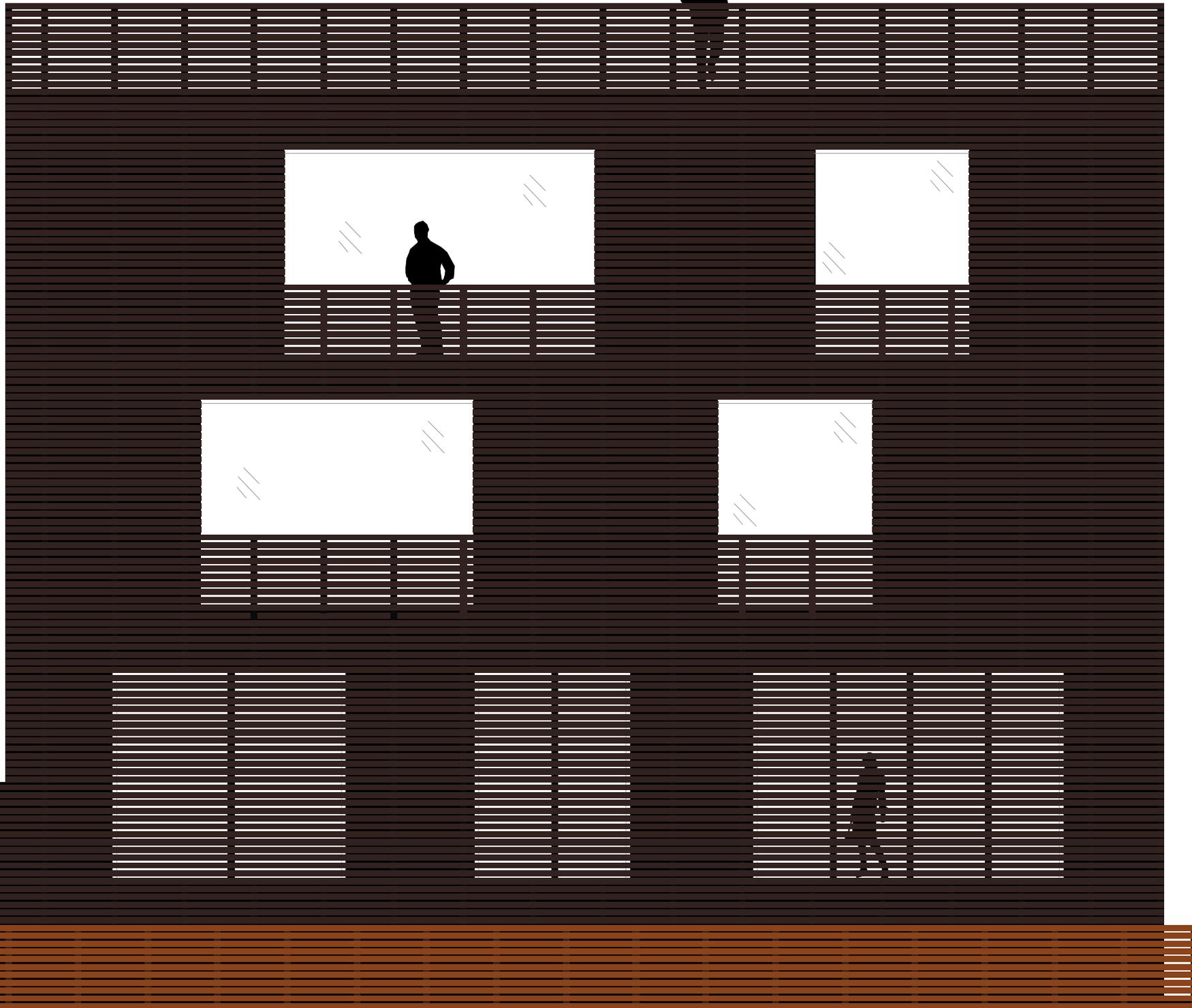
Façade

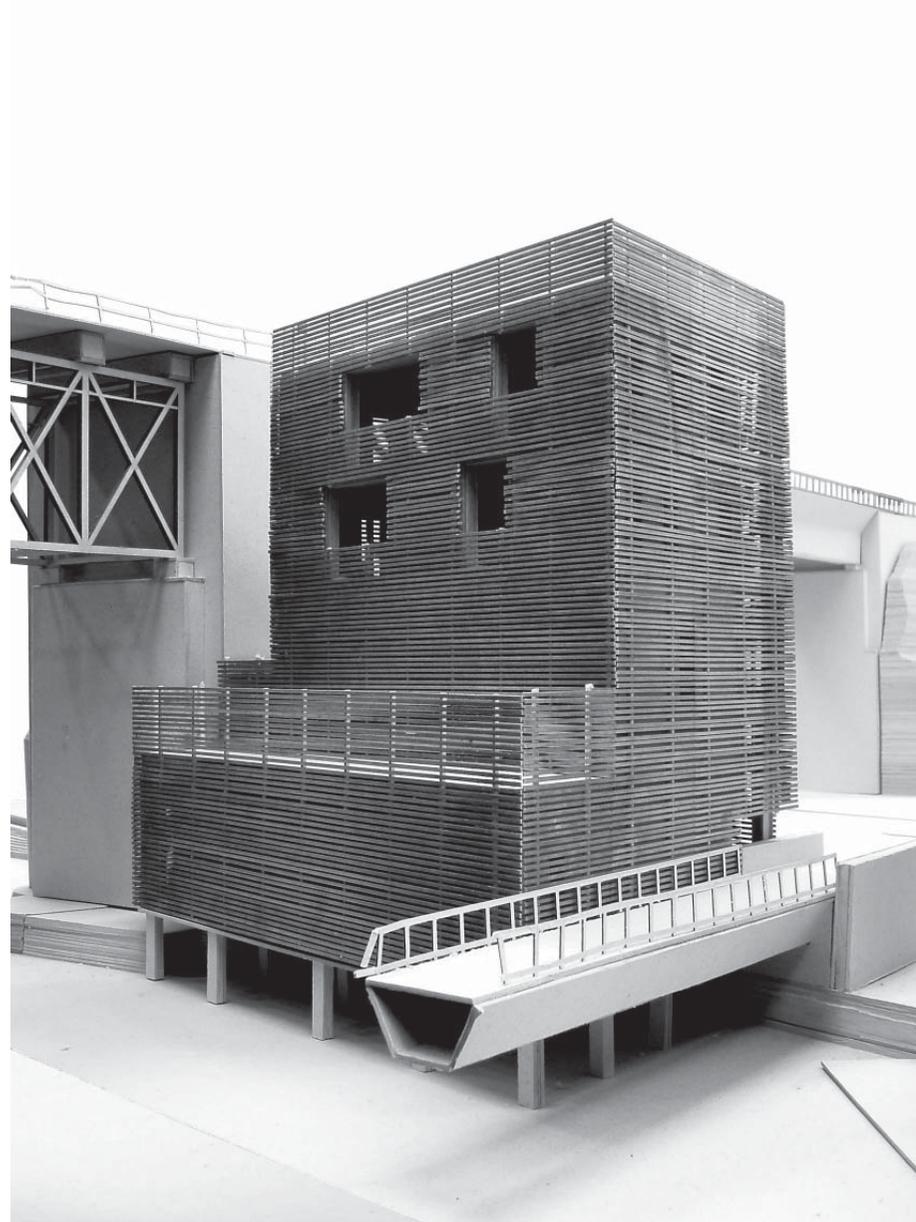
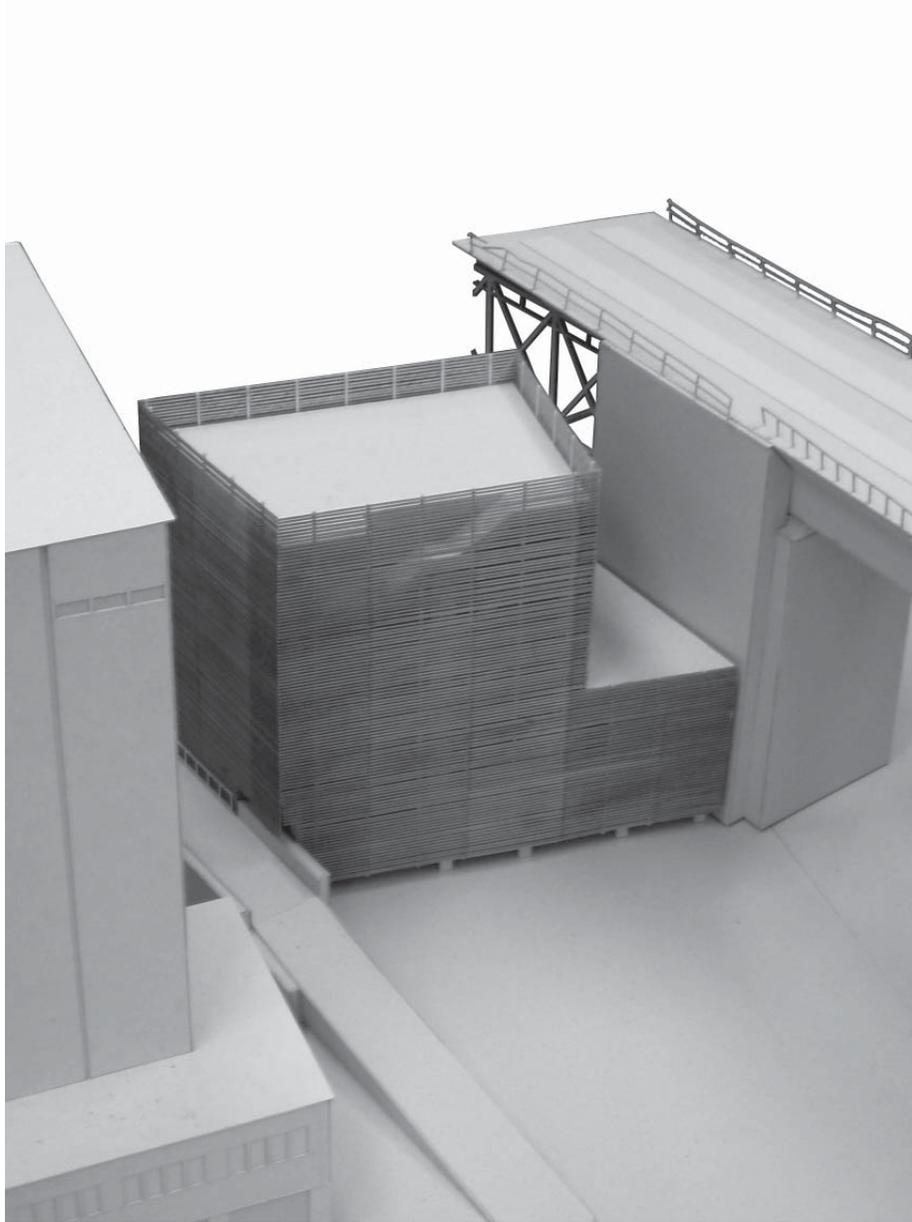
Even if the building is totally wrapped up with wood boards, things behind them get recognized depending on the light or the object.

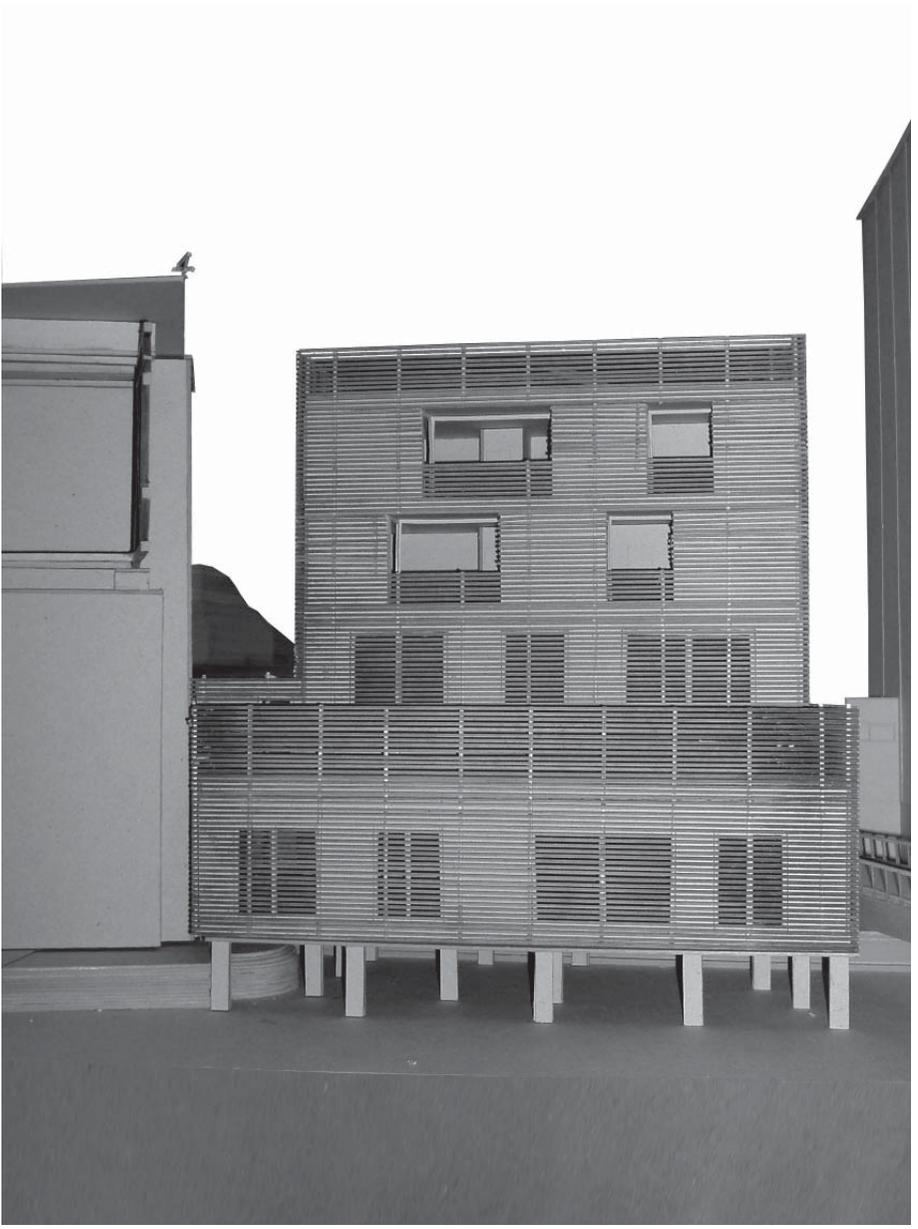
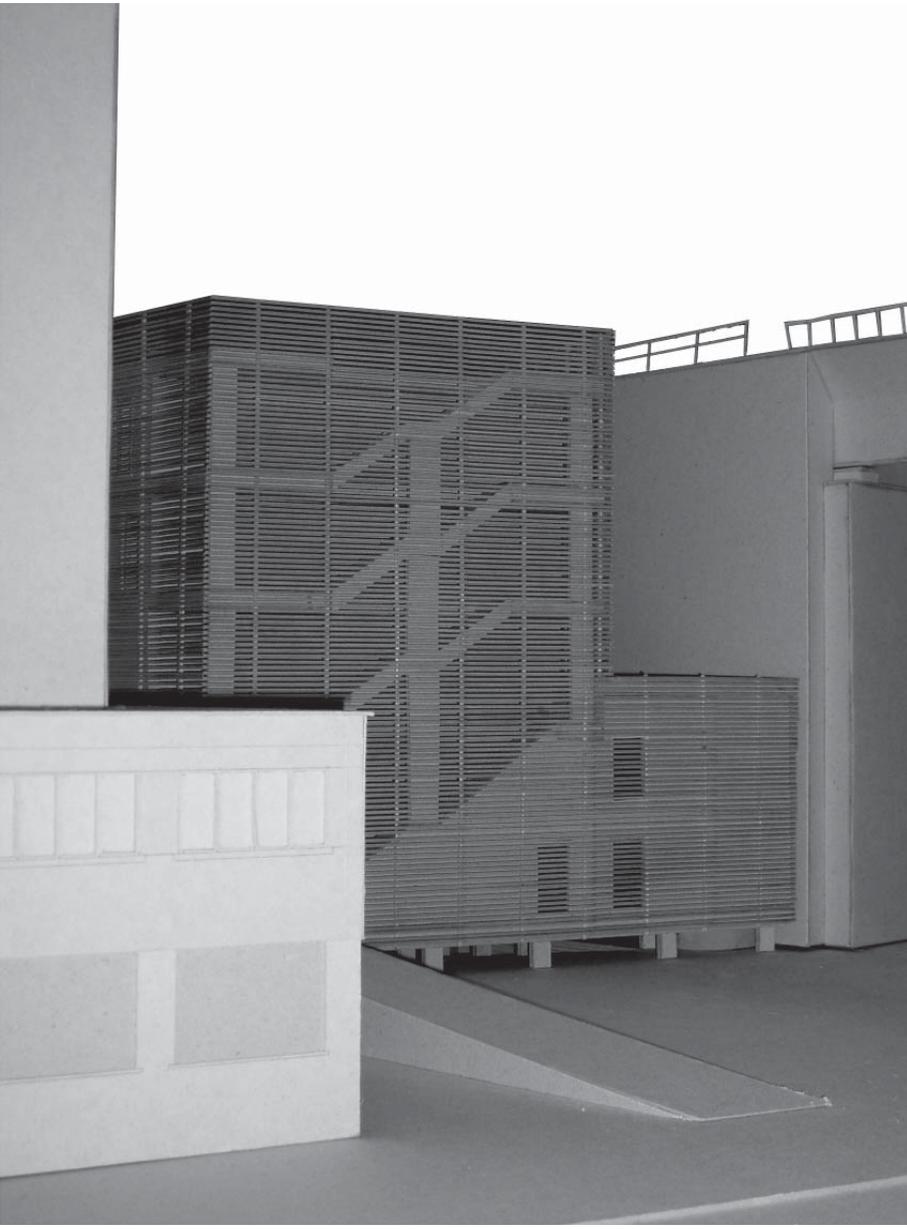


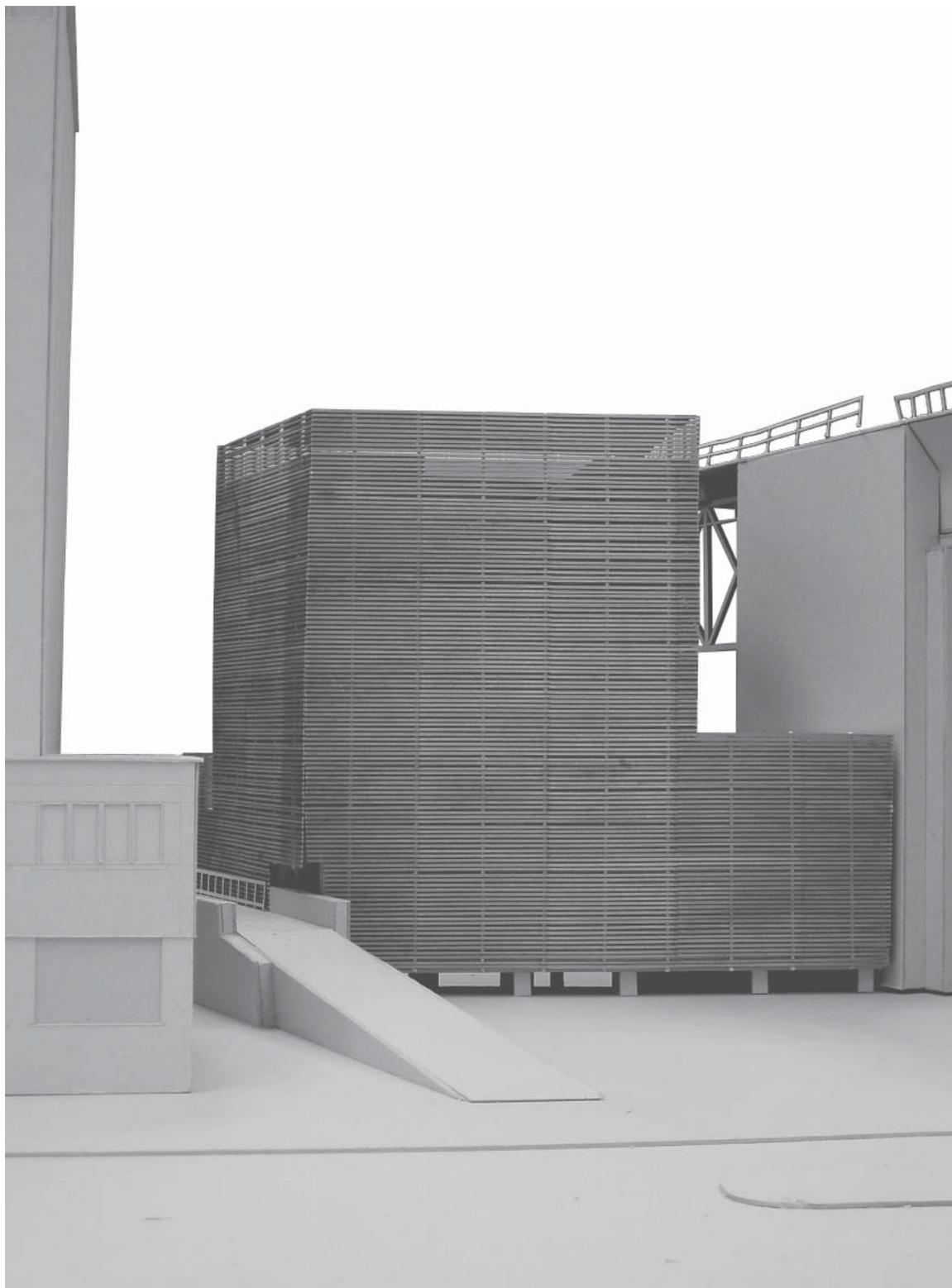


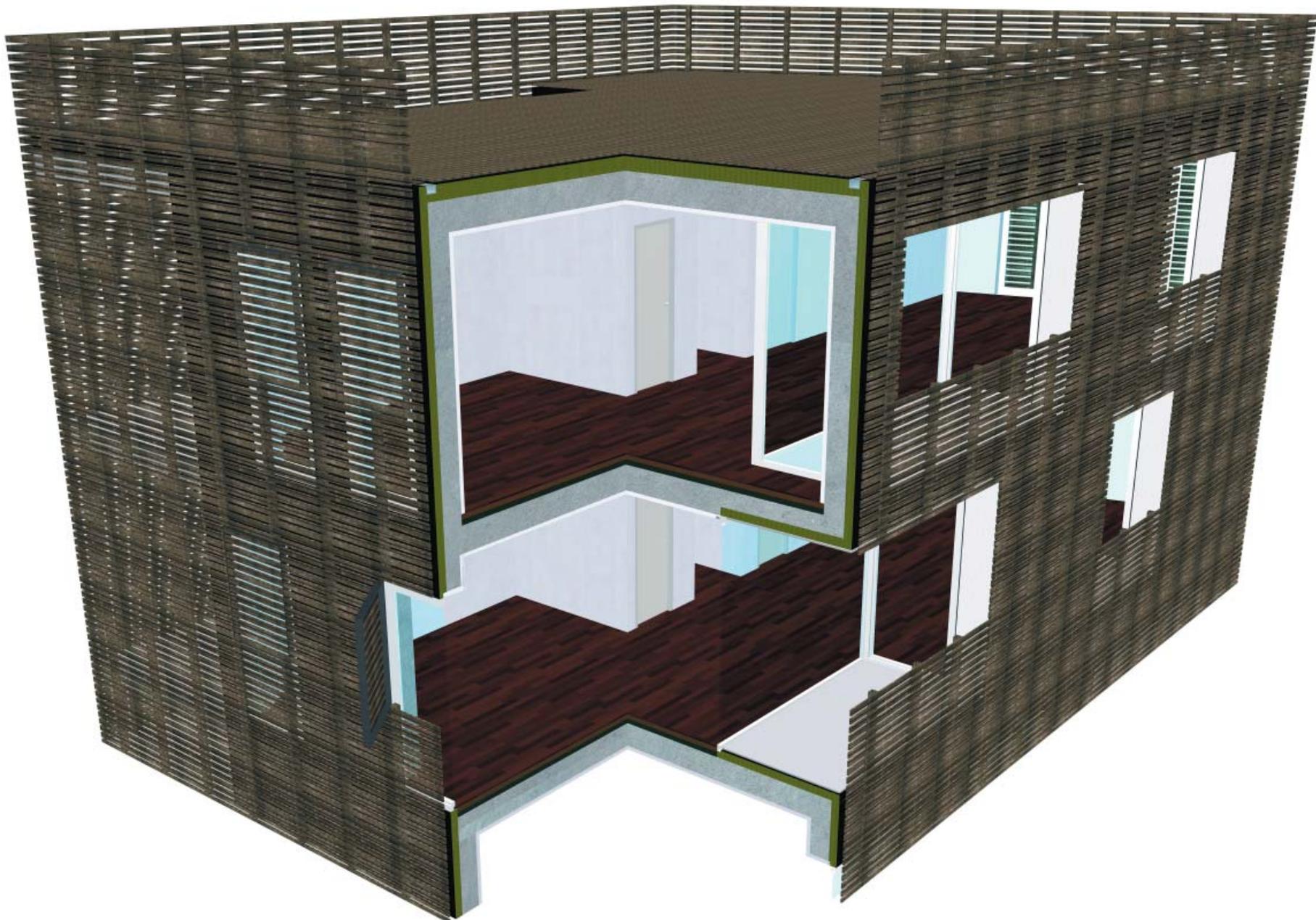












Construction

The construction plan was made in 3d to better understand the coincidence of the different parts.

The building has an outside insulation with the wood boards on a 8cm thick gap on it to protect it.

In the gap between insulation and wood boards there is the pipe for rain-water to avoid any disturbance in the facade.