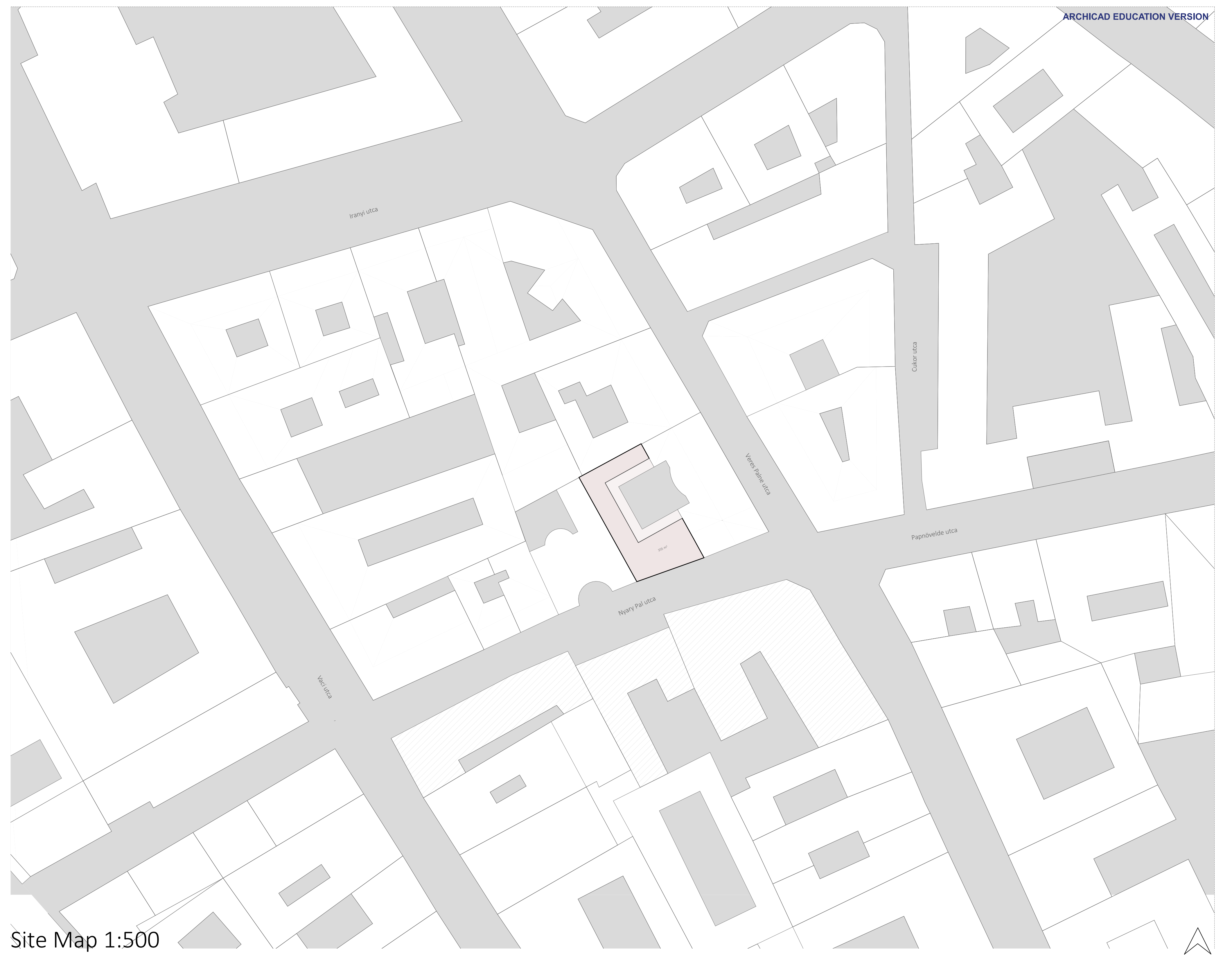


SITE LOCATION

1056 Budapest, Nyary Pal utca 12

This residential complex is located in the district 5 which is inner city of Budapest. District 5 is the heart of Budapest and the political, financial, commercial and touristic center of Hungary. It is one of Budapest's richest and fanciest districts, with the most Monarchy-era buildings and heritage. Several of the city's most notable monuments and museums can be found here. It is one of the oldest districts of Pest, with 19th-century buildings and pre-Soviet era tourist attractions. This part of the city is always busy and ready to welcome visitors.

Function Map



"Today, Budapest's downtown is a melting pot of local residents, office workers and tourists."

Environment

4 seasons provide opportunity use solar panel.

Summer cooling, winter heating.

Position of the building is in the narrow street, thus while it is good for wind direction, it is lack of natural sunlight.

Noise shouldn't consider, the building is located in quite street while in the busy neighborhood.

Due to limited vehicle access, the parking lot design can be ignored. Instead, a bicycle parking lot was placed.

Road Map



DUAL-USE HOUSING

The concept of dual-use housing is gaining popularity due to its potential to optimize space utilization, enhance functionality, and provide more flexible living arrangements. By accommodating different needs within the same space, dual-use housing can contribute to more efficient land use and sustainable development.

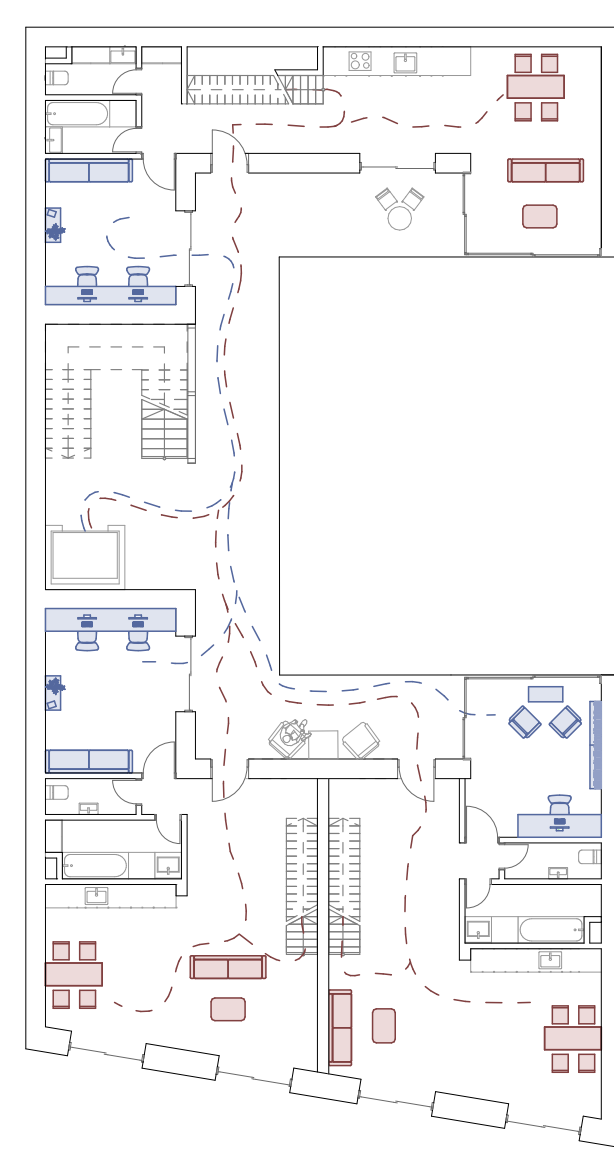
Due to the evolution of technology, the traditional notion of “home” has changed and more often we talk about “live-work space”. The concept of working from home, flexibility on working hours, great reduction of the necessary working space and easier transmutation of any space to a workplace made possible the concept of home as a “live work space”.

It is transforming from a detached shelter to a versatile, adjustable space. The limit between the private (live) and the public (work) sphere becomes increasingly blurry, causing them to co-exist on several occasions.

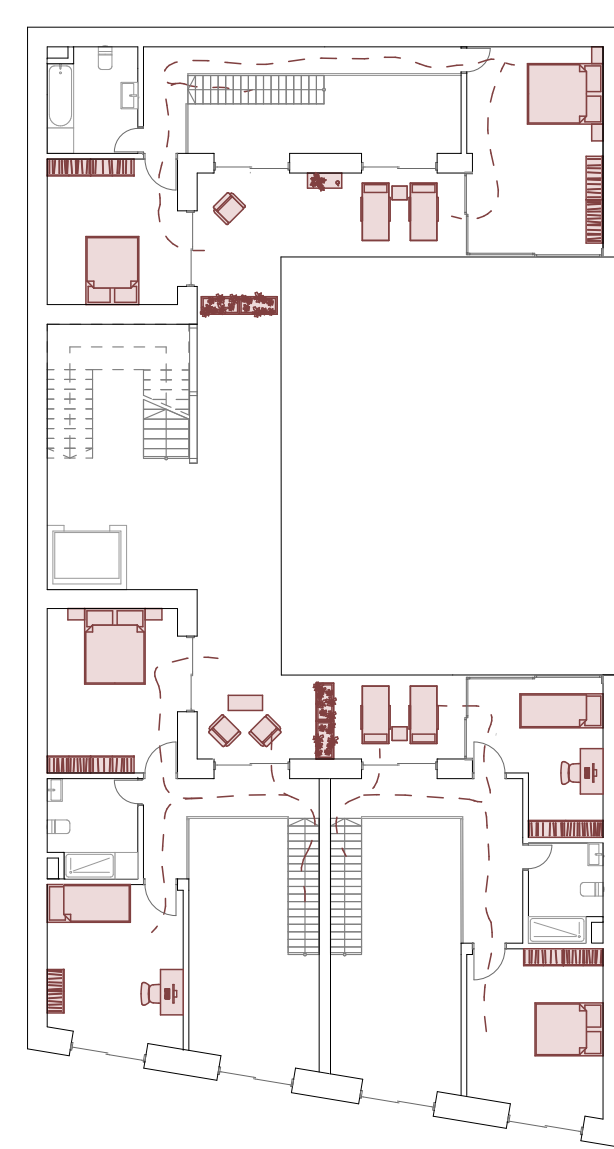
This project creates a dual-use housing block with shared spaces that help increase chance encounters, visual connections and promote collaboration between diverse users. It offers the extra space where need to run the business like an office, art area, etc. The ability to change from office space to extra living space (guest quarters etc.) allows the buildings to easily adapt to the new conditions.

Scenarios 1.0

Working spaces reduced into one room.



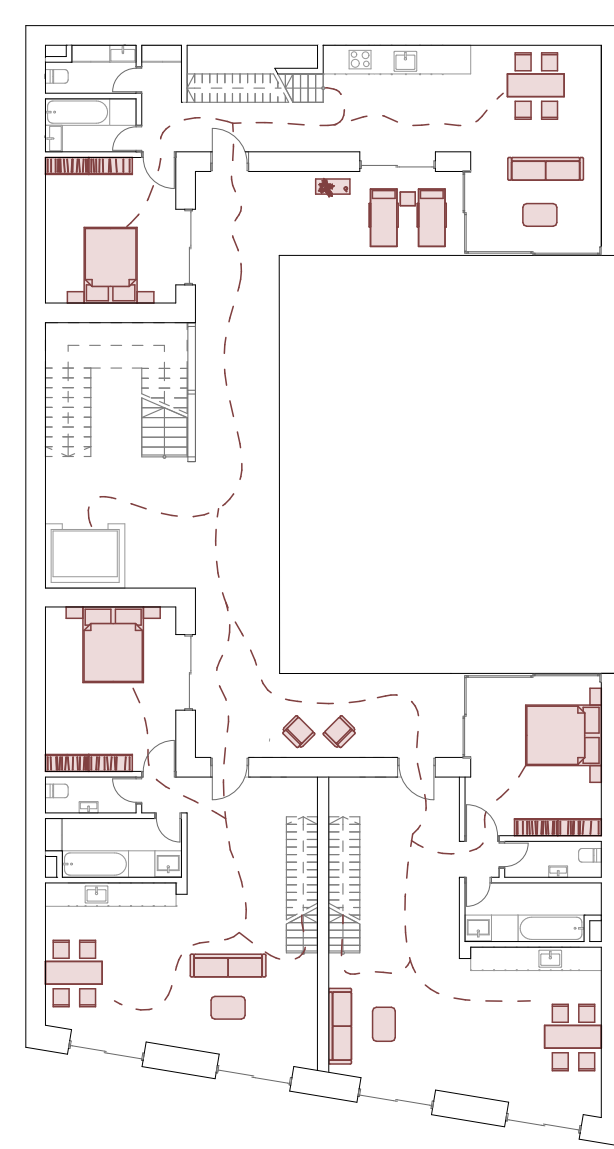
1st floor of the loft



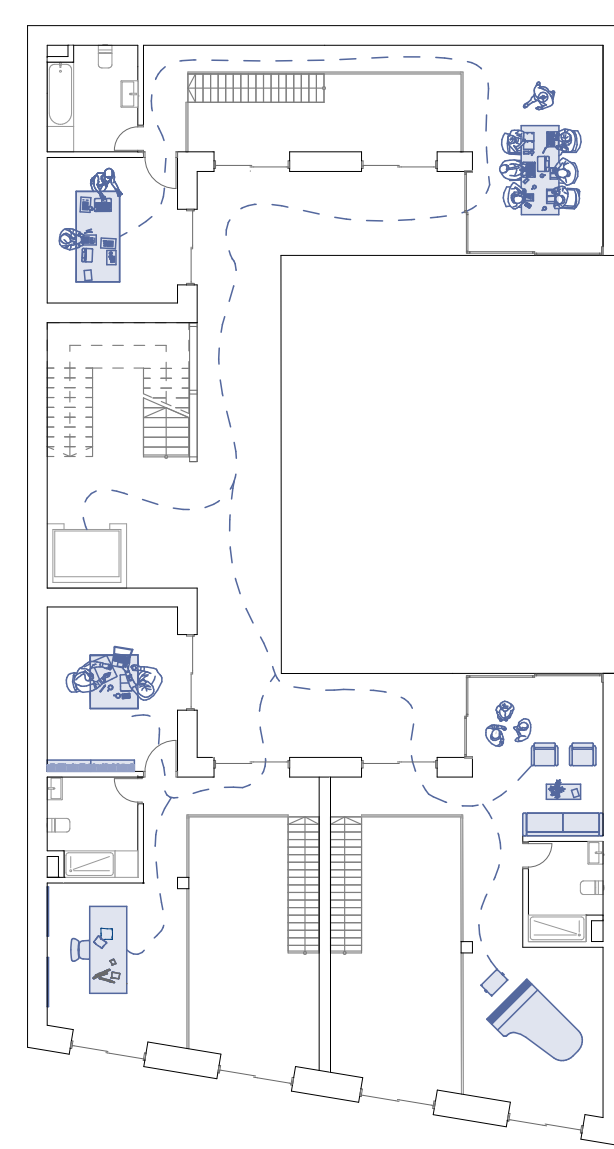
2nd floor of the loft

Scenarios 2.0

Living and woking spaces completely seperated at each floor.



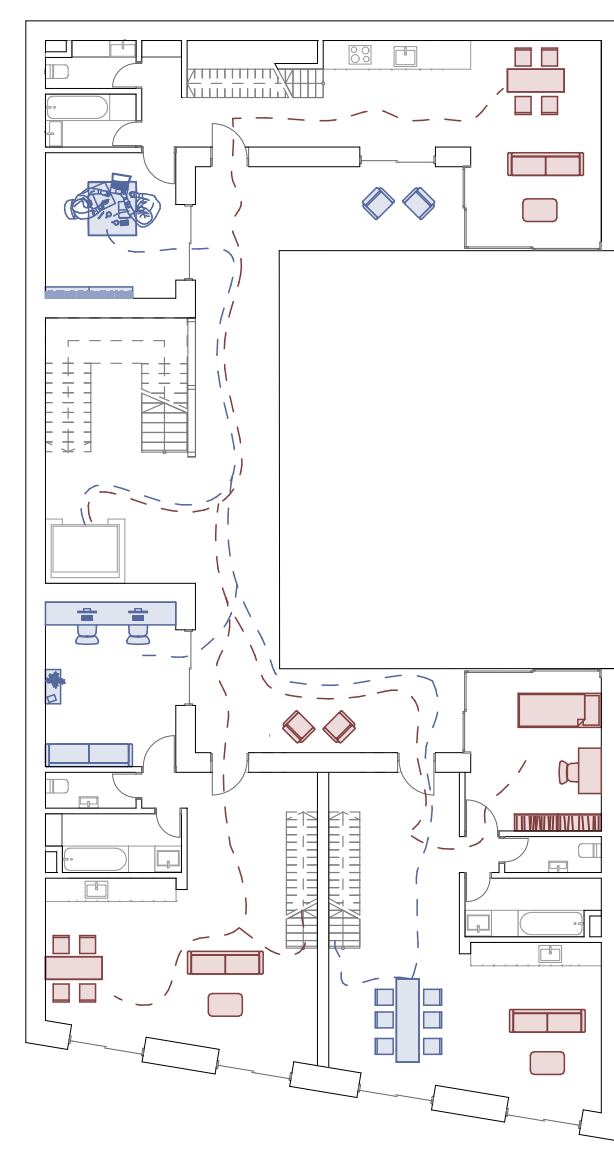
1st floor of the loft



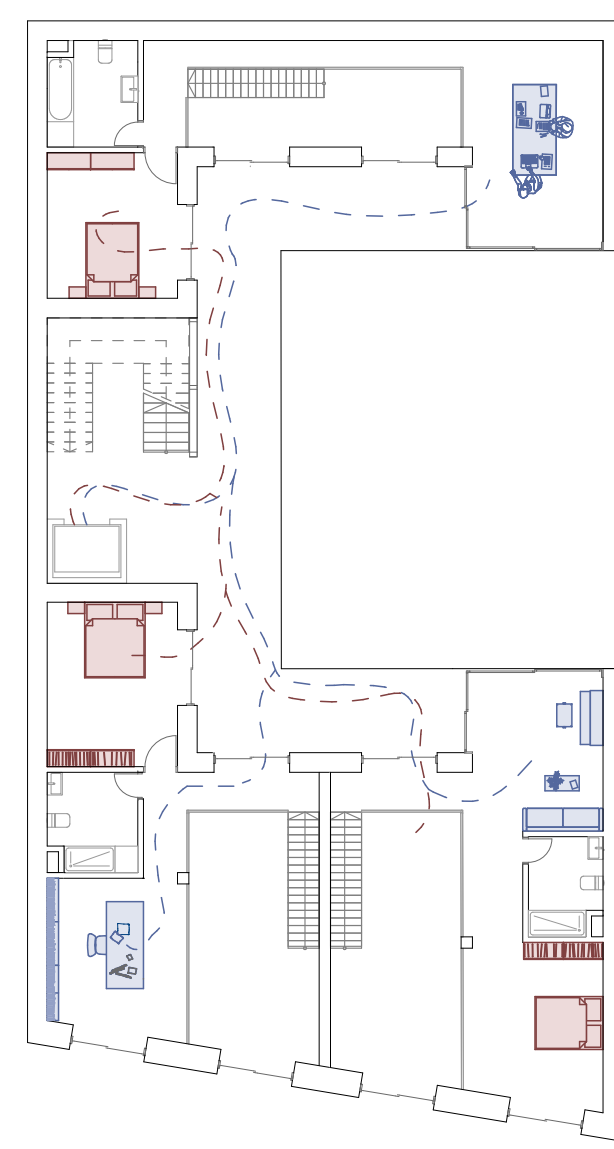
2nd floor of the loft

Scenarios 3.0

Living and working spaces blended in all apartment.



1st floor of the loft



2nd floor of the loft



Site Map 1:200

Building Program

Live-Work Units: These are spaces that combine of the residential and commercial areas. They are designed to allow individuals to live and operate their businesses in the same location. The residential space is usually connected to or integrated with a workspace, such as an office, studio, or atelier.

The building incorporates easily accessible workspaces that seamlessly blend with the residential environment, creating an extension of the home. This design approach allows for convenient professional activities while maintaining the comforts and privacy of the residential space. This project consists of mainly the loft apartments which has approximately 100 sqm areas with 1 or 2 bedrooms. Biggest aim is creating a flexible spaces that turn into easily to other/new living conditions.

The building has a co-working space on the ground floor, which is connected to an inner garden. This design allows for a seamless transition between the public area and the private outdoor space. Co-working space helps also to enlarge the live/work concept which gives oppurtunity to residents to work with community. As well as welcome to neighbours. Private meeting rooms give the opportunity to reserved or rented for bigger meets.

A penthouse located on the top most floor with large private terrace. As in the definition of flexible housing all the spaces can adjust to changing needs and patterns, both social and technological.

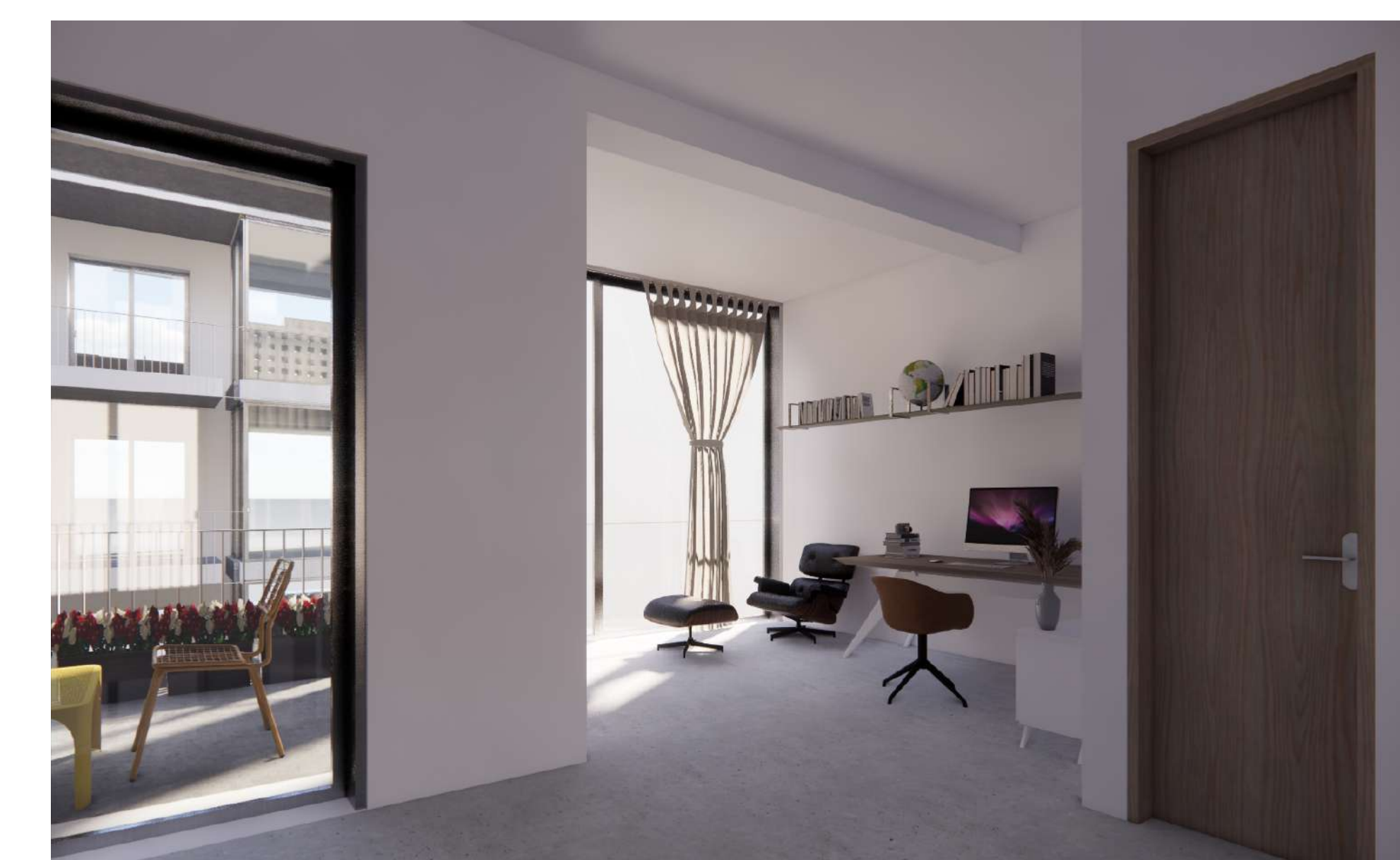
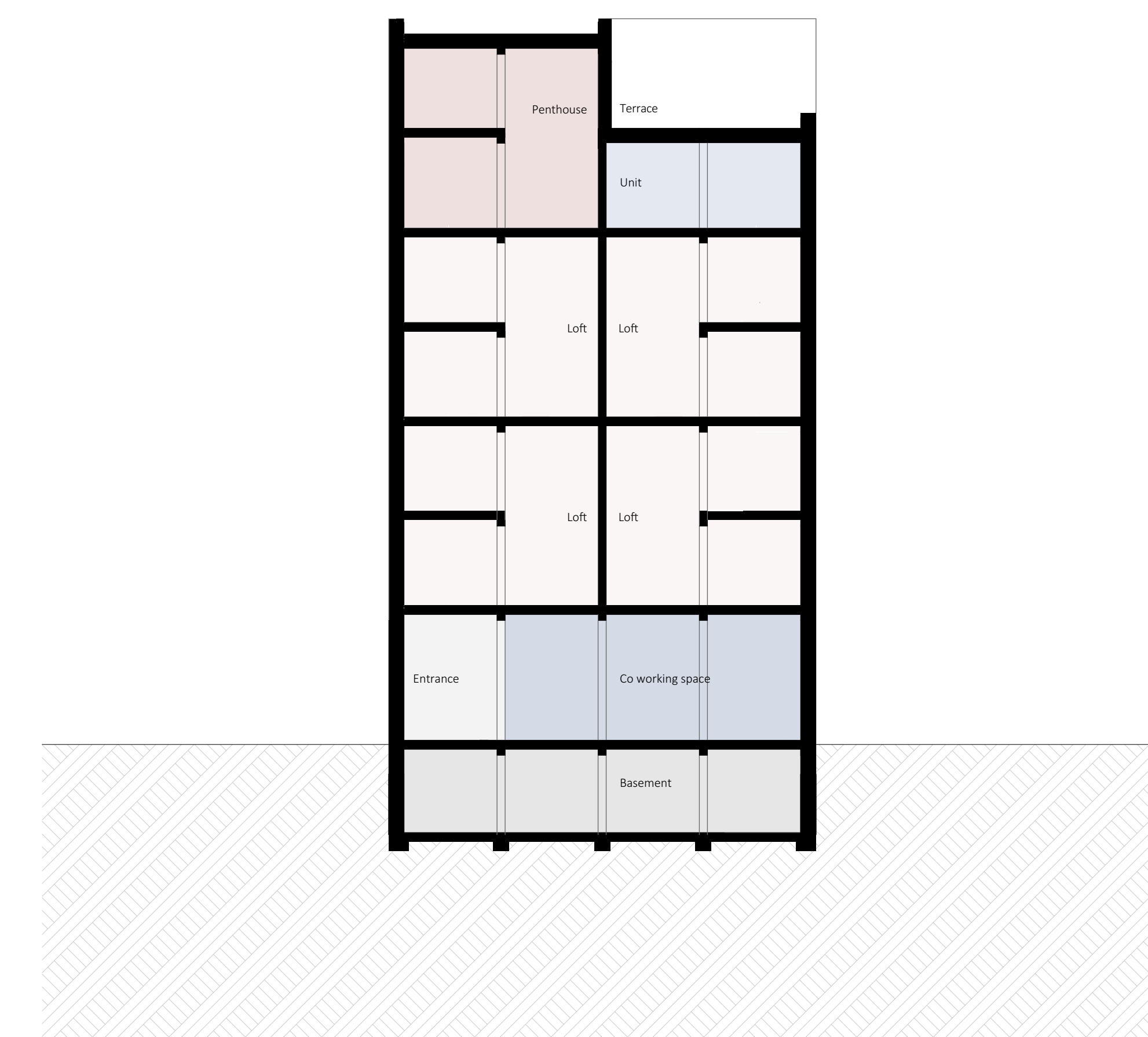
The light gray brick facade was designed with reference to both modern and traditional architecture in the surrounding area. Photovoltaic panels were placed on the roof of the building, referring to sustainability and energy efficiency.

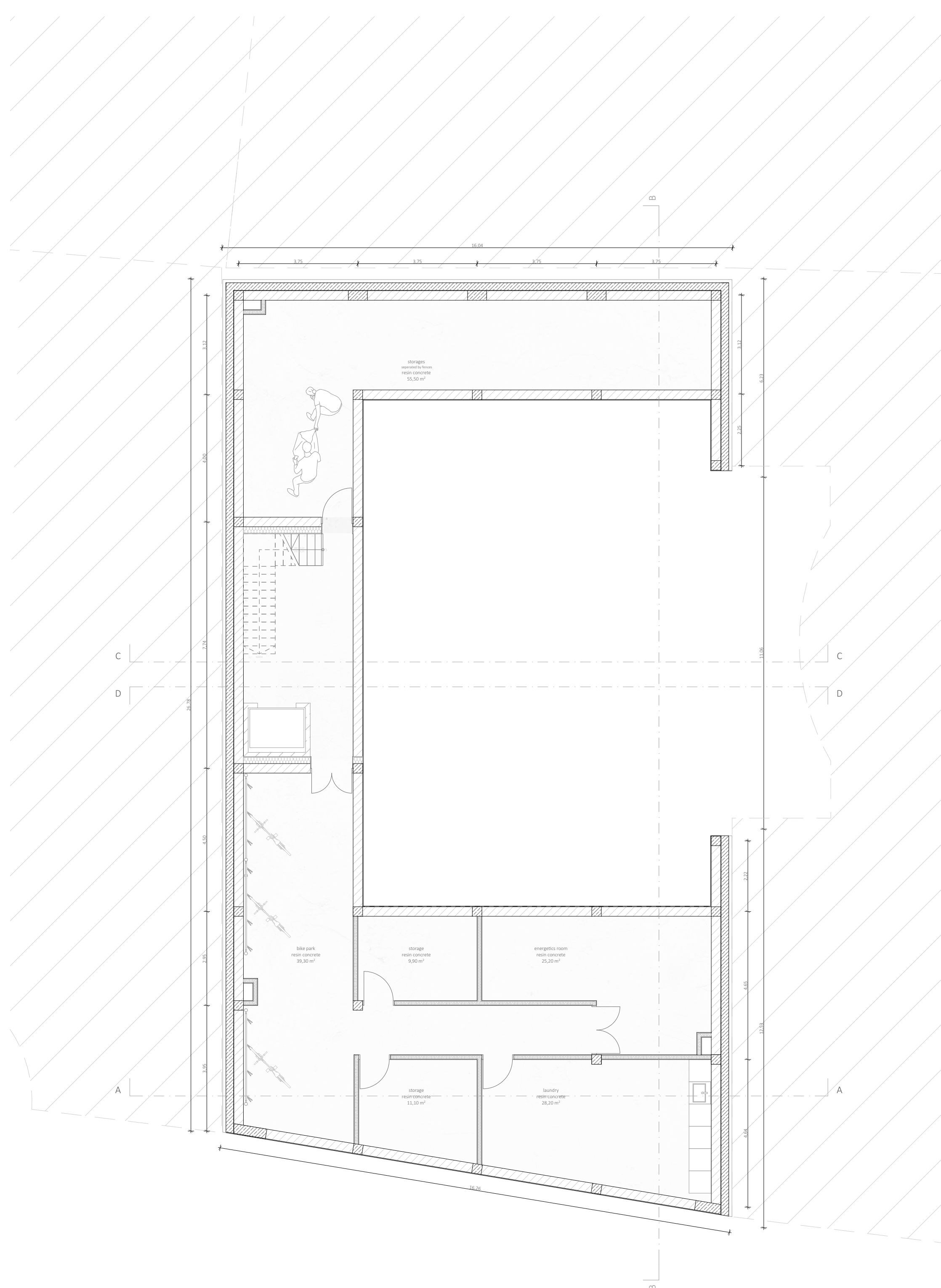
Considered the scale and massing of neighboring buildings while to design floor height to ensure proportionality and a cohesive streetscape. Opposite high doors positioned on the ground floor also act as natural ventilation for the narrow street where the building is located.

The key elements of the building are high ceilings in the living area, fine craftsmanship details, and simple yet elegant spaces that are well-functioning. These features contribute to an overall sense of spaciousness, quality craftsmanship, and functional beauty within the building.

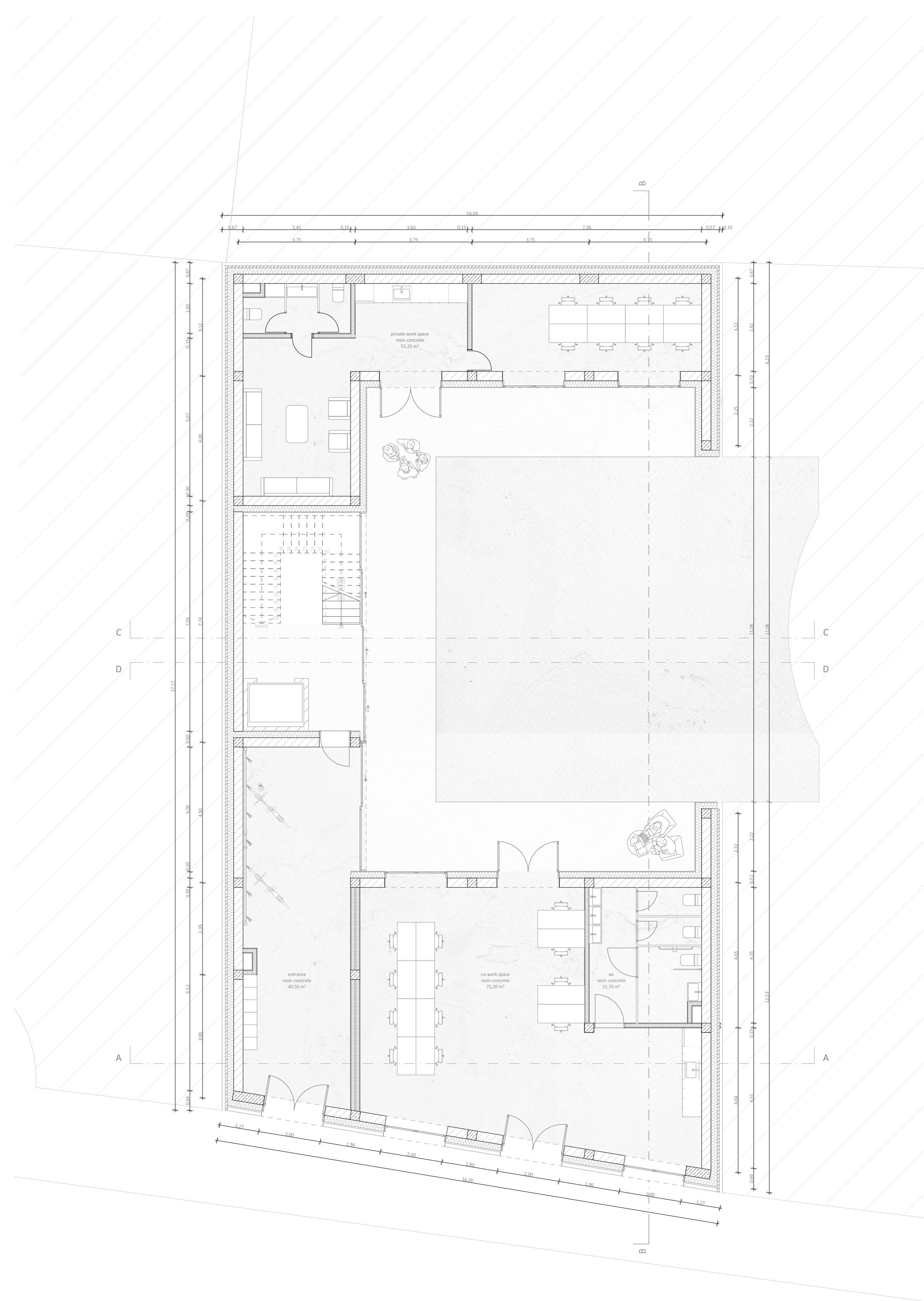
All researches and analyzes about inner city of budapest helped to understand its architectural style, urban fabric, and cultural context. The building is well-oriented with the district is one that harmoniously blends with its surroundings. It is respected the inner city's architectural style, cultural context, and functional needs.

Function Diagram

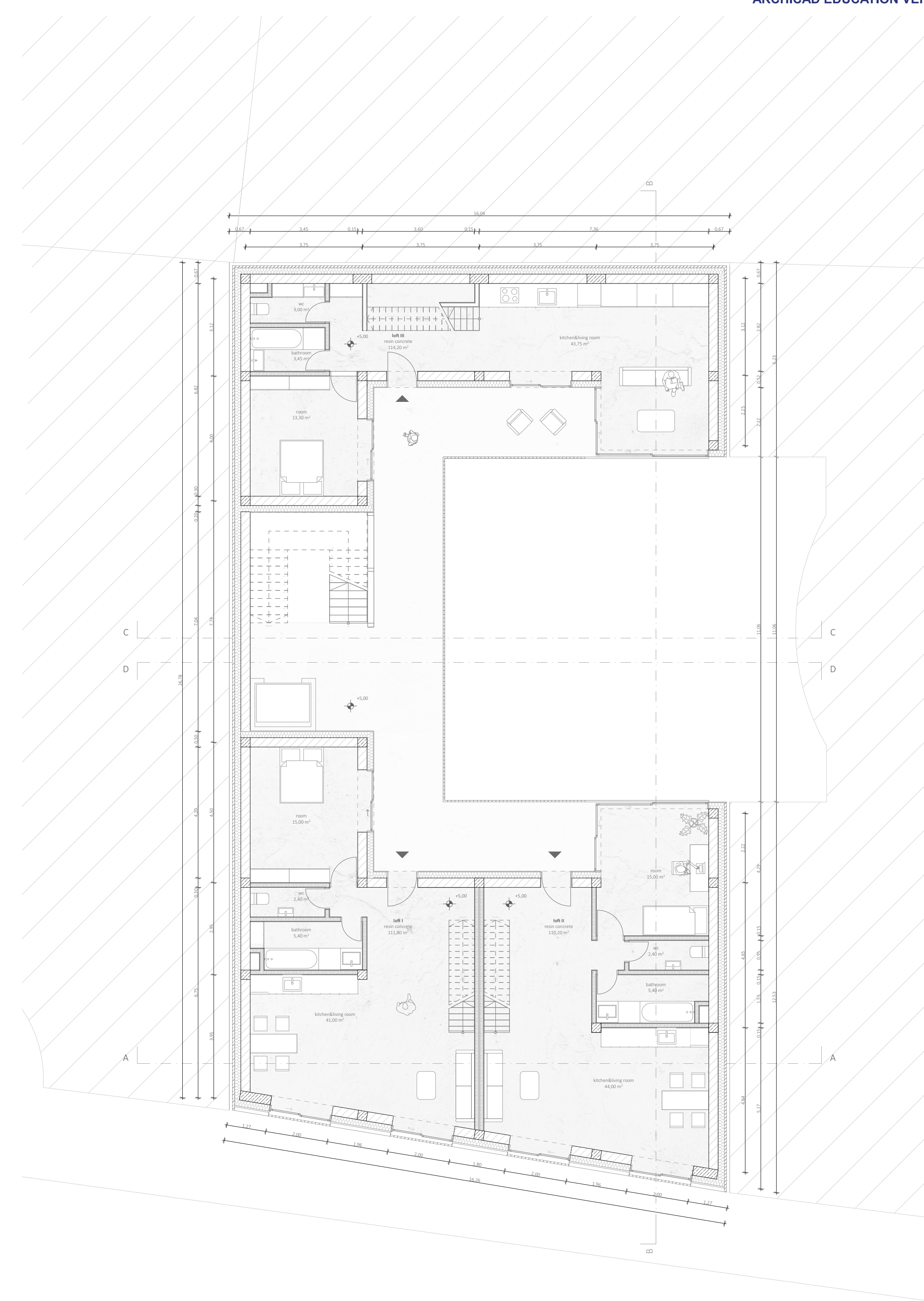




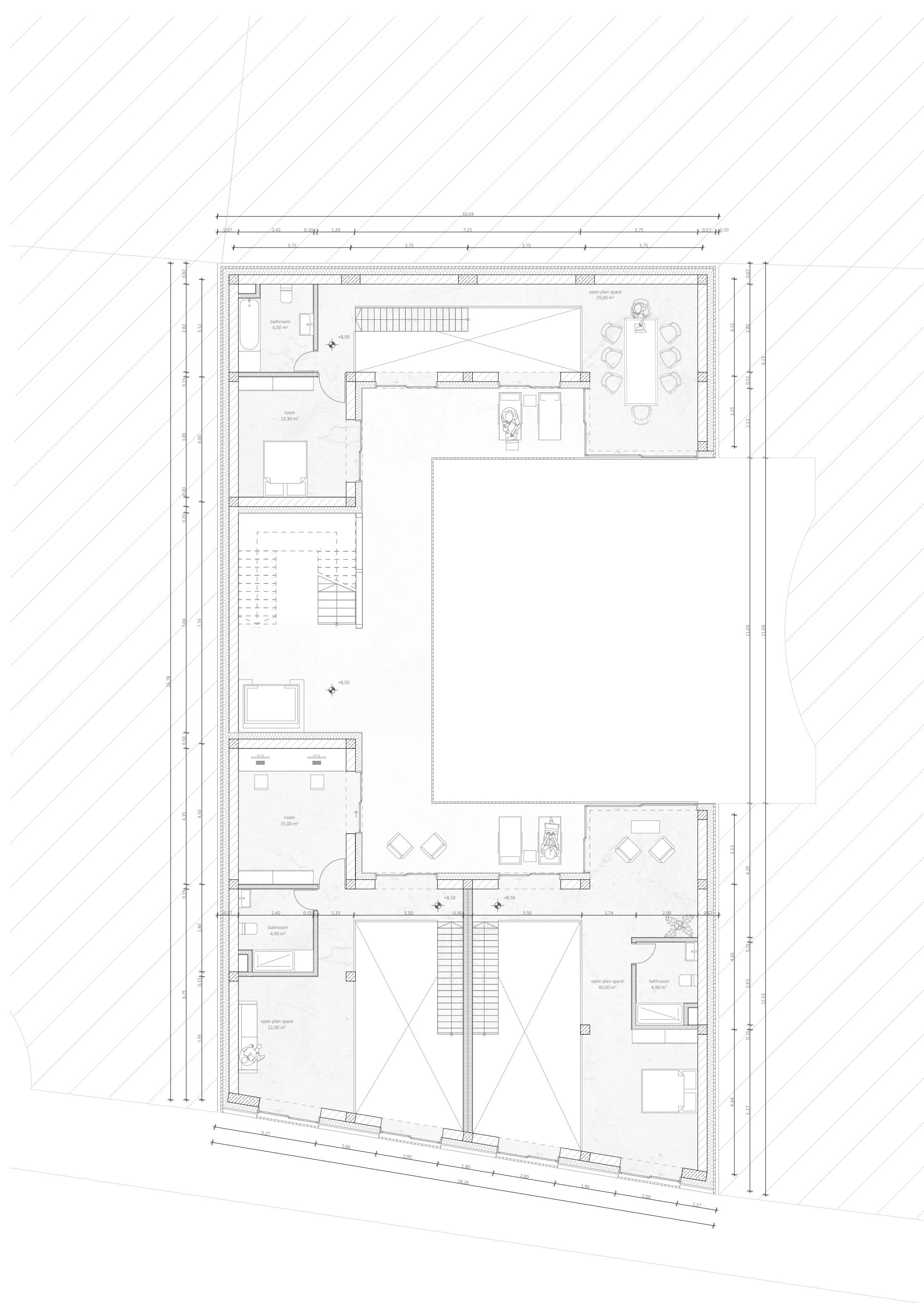
Basement Floor Plan



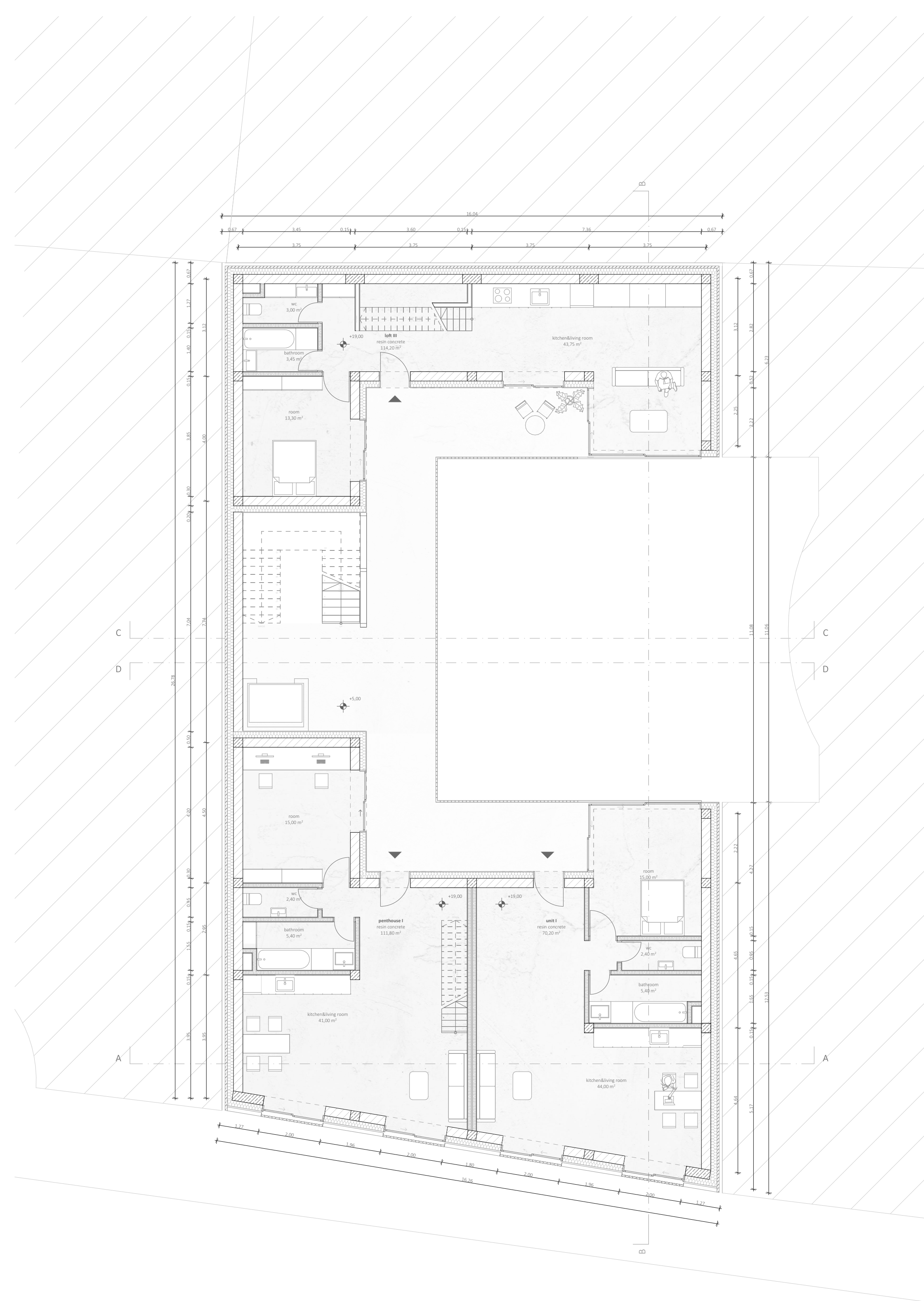
Ground Floor Plan



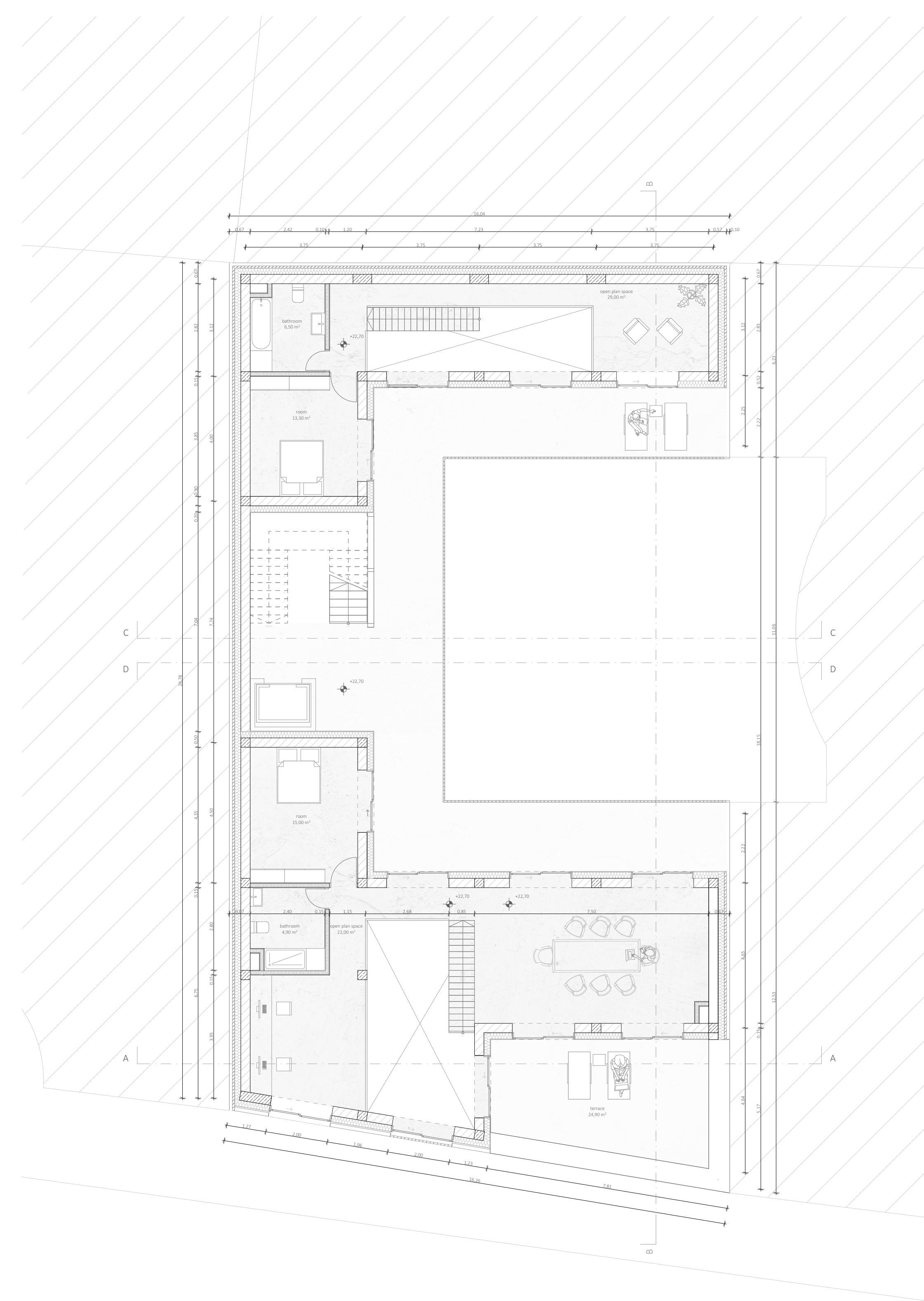
First & Third Floor Plan



Second & Fourth Floor Plan



Fifth Floor Plan

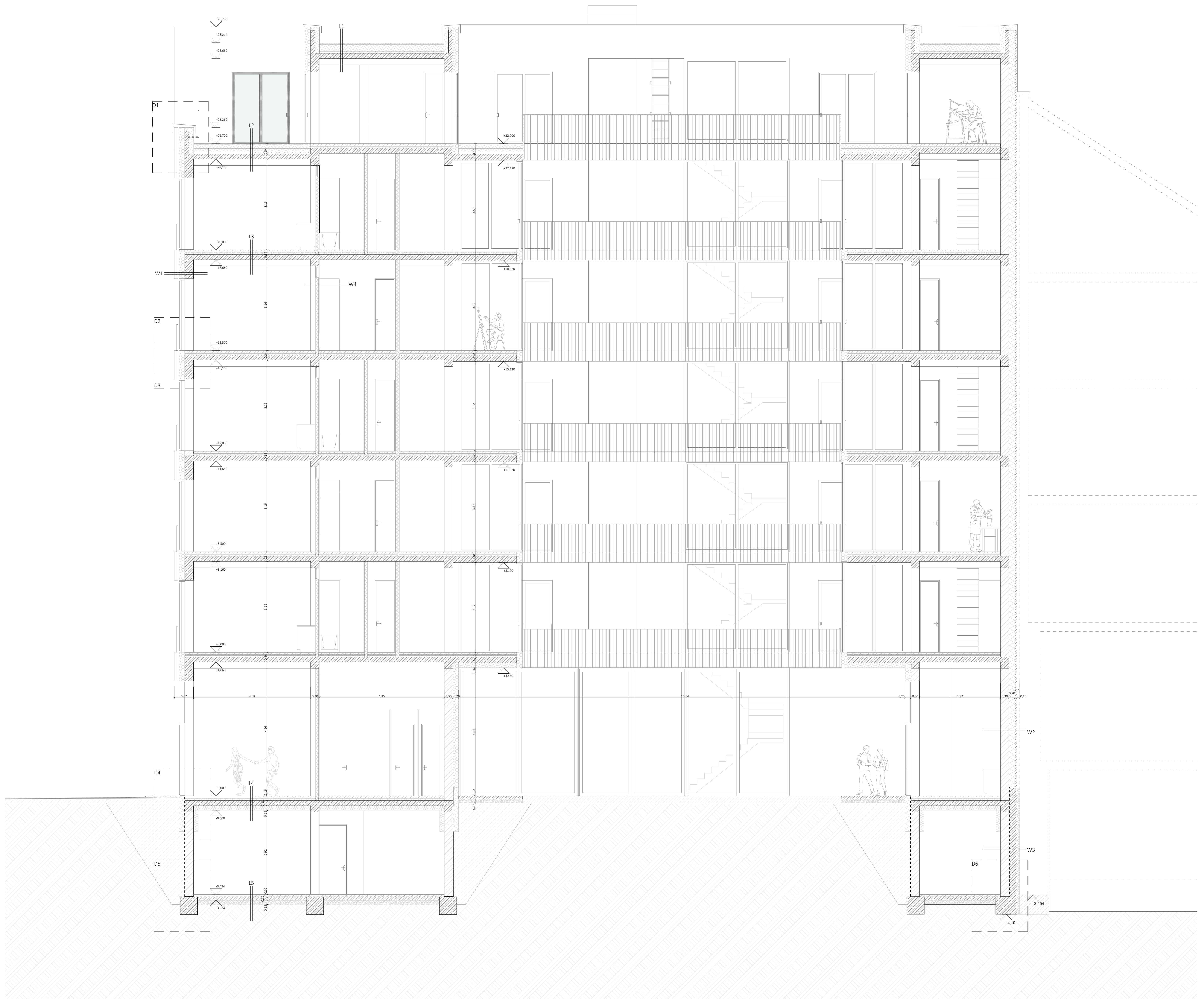


Sixth Floor Plan

SECTION A-A 1:50

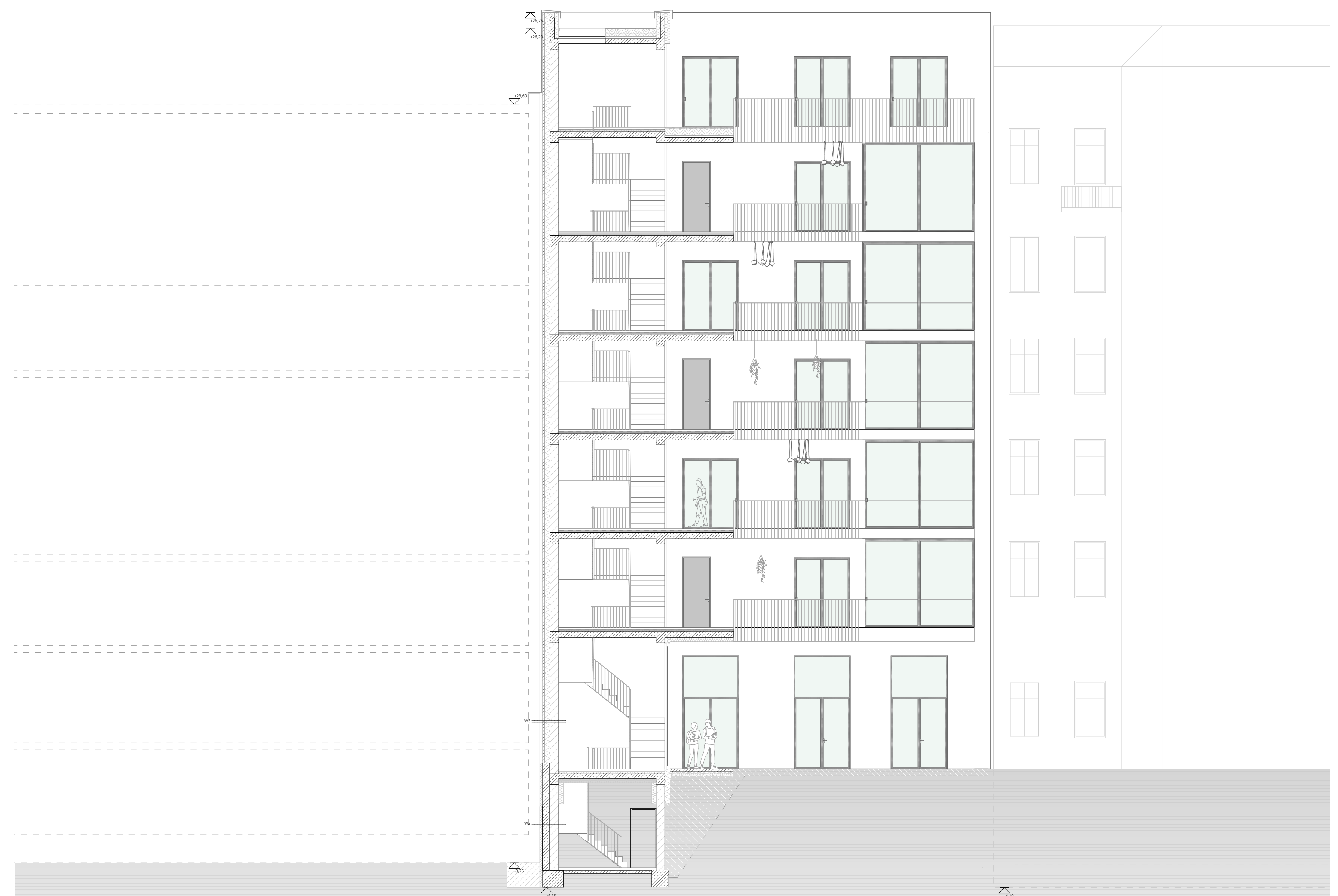


SECTION B-B 1:50



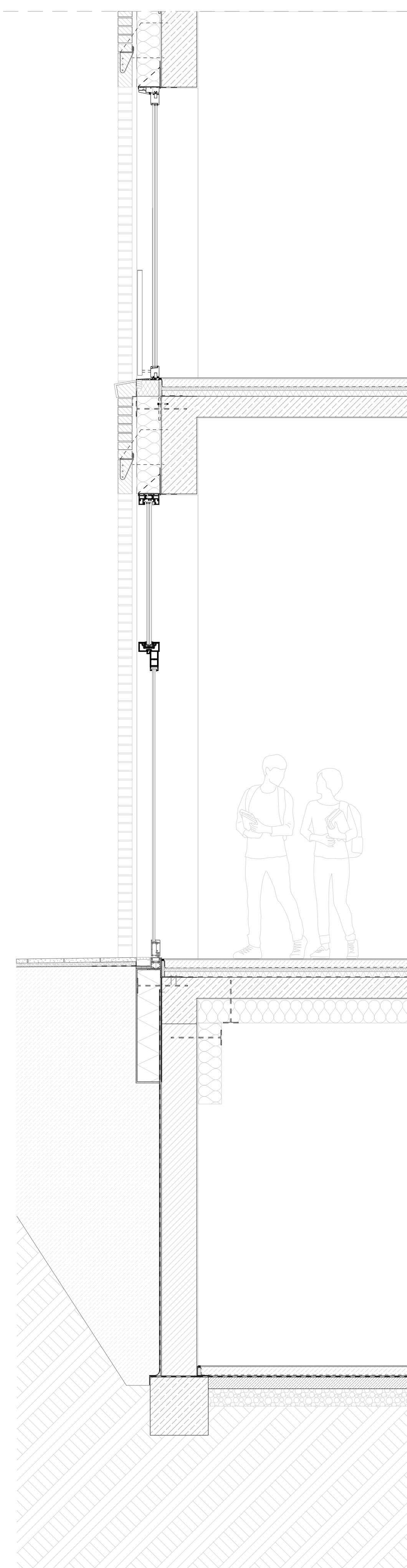
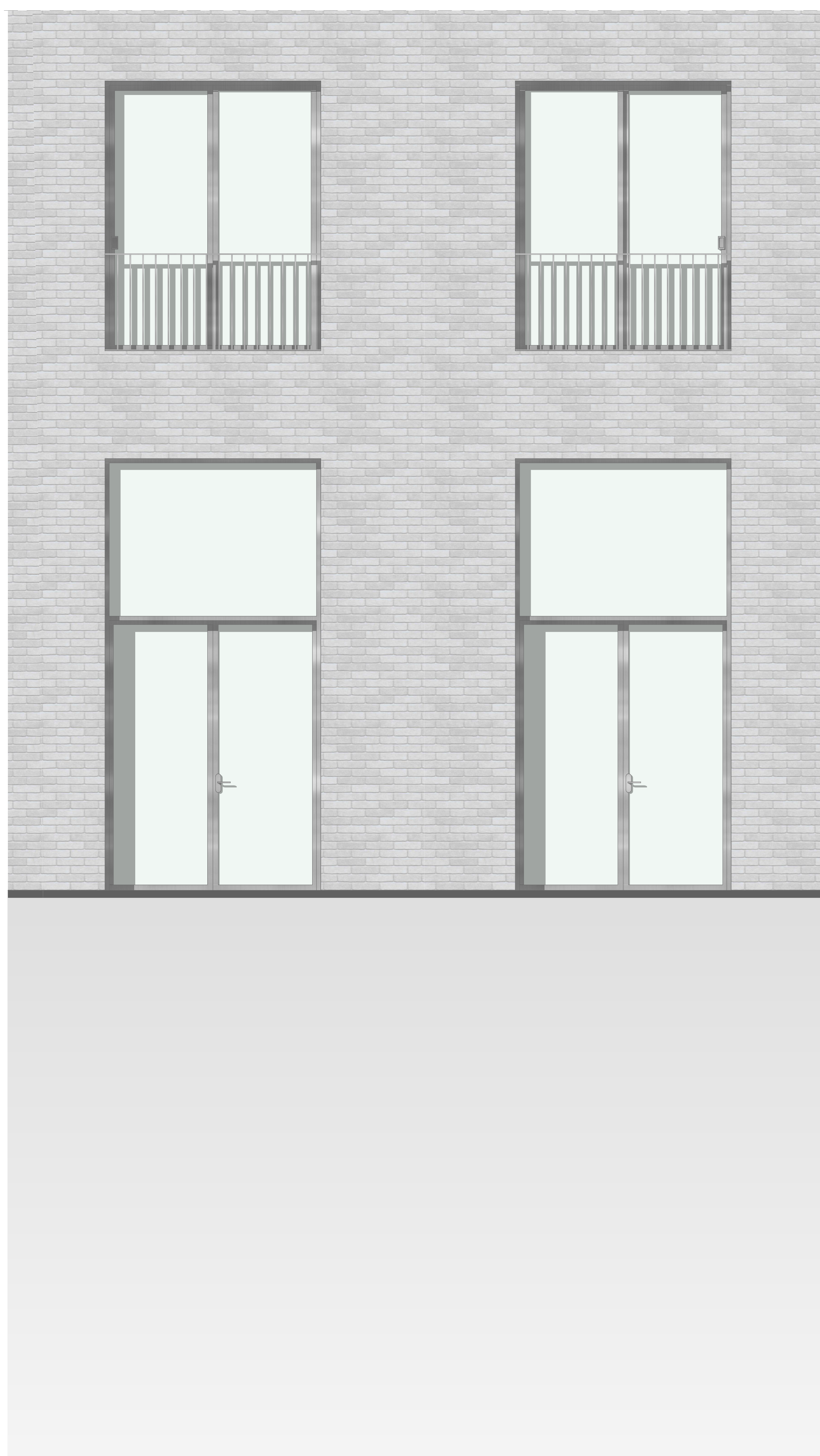
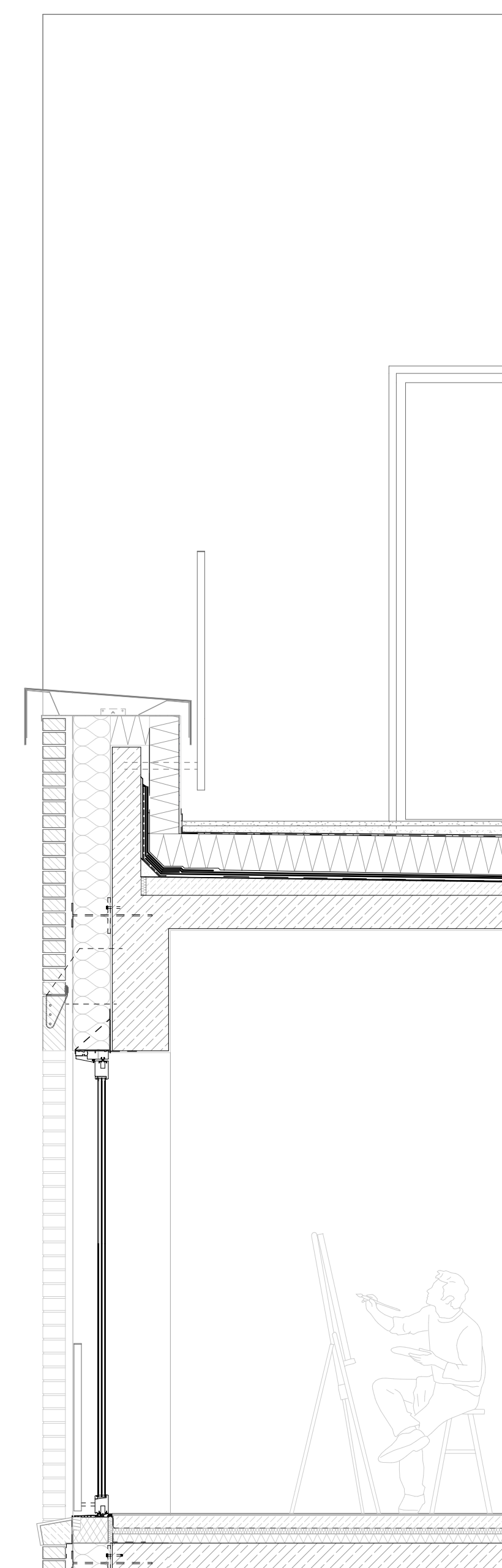


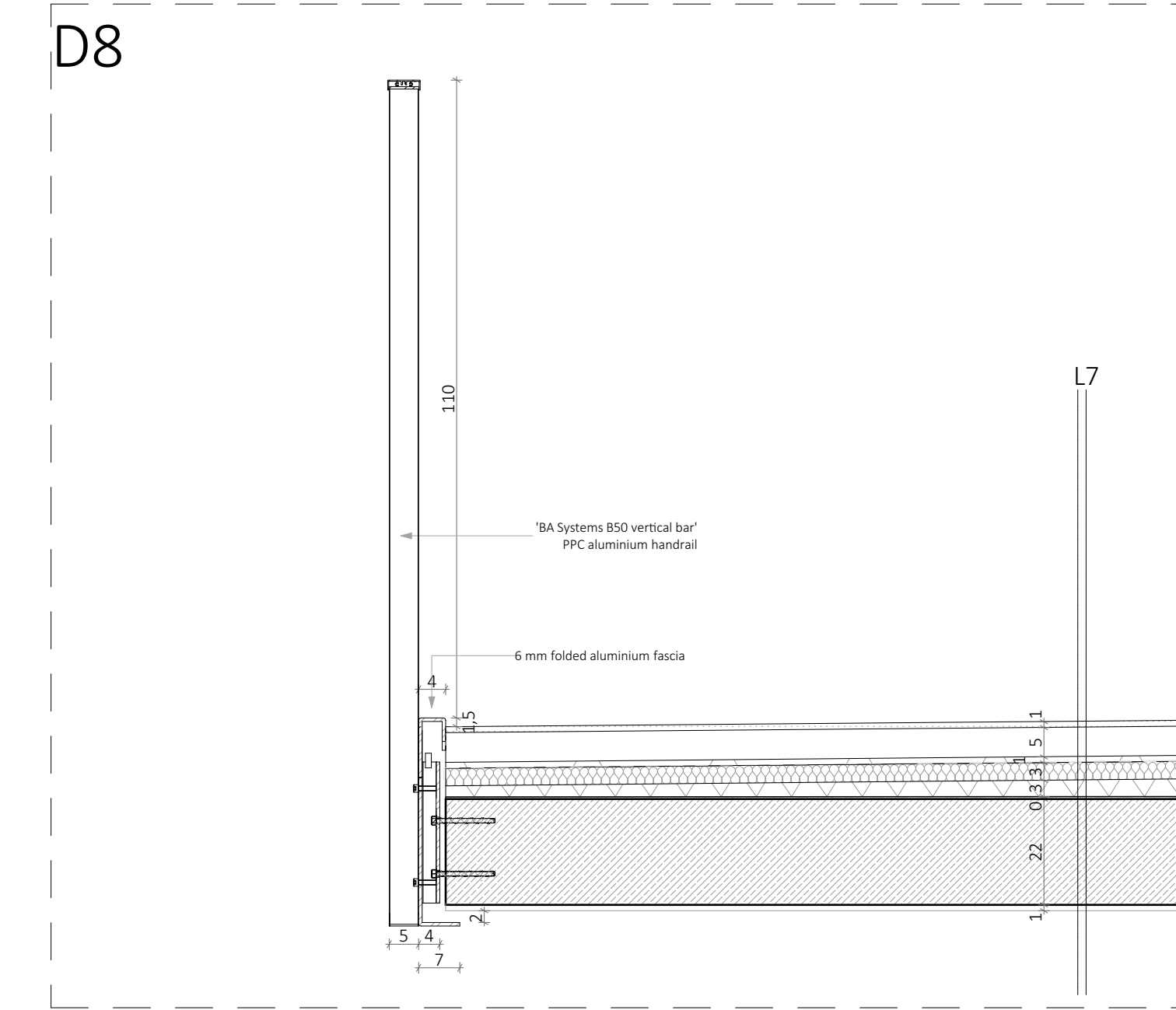
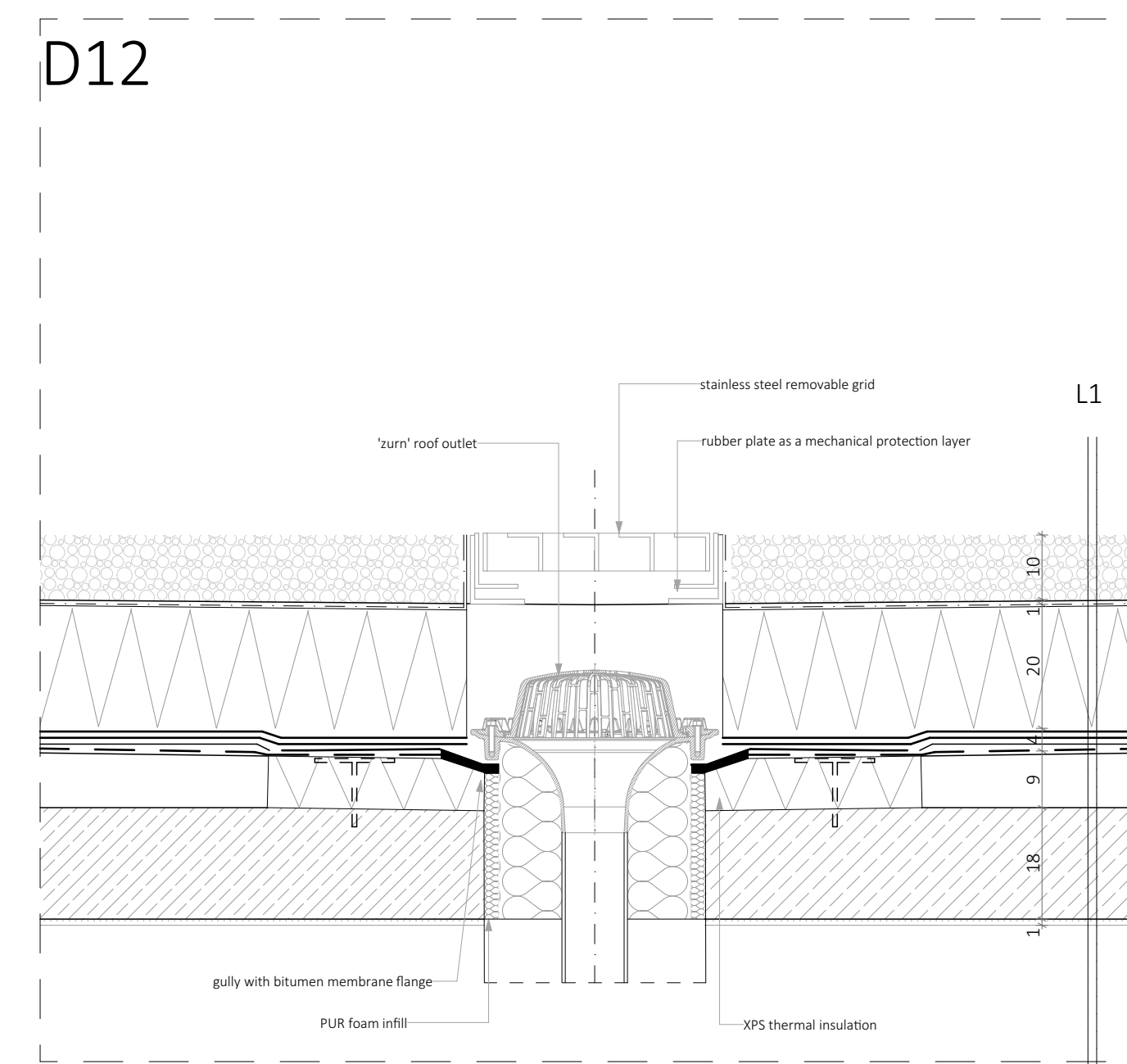
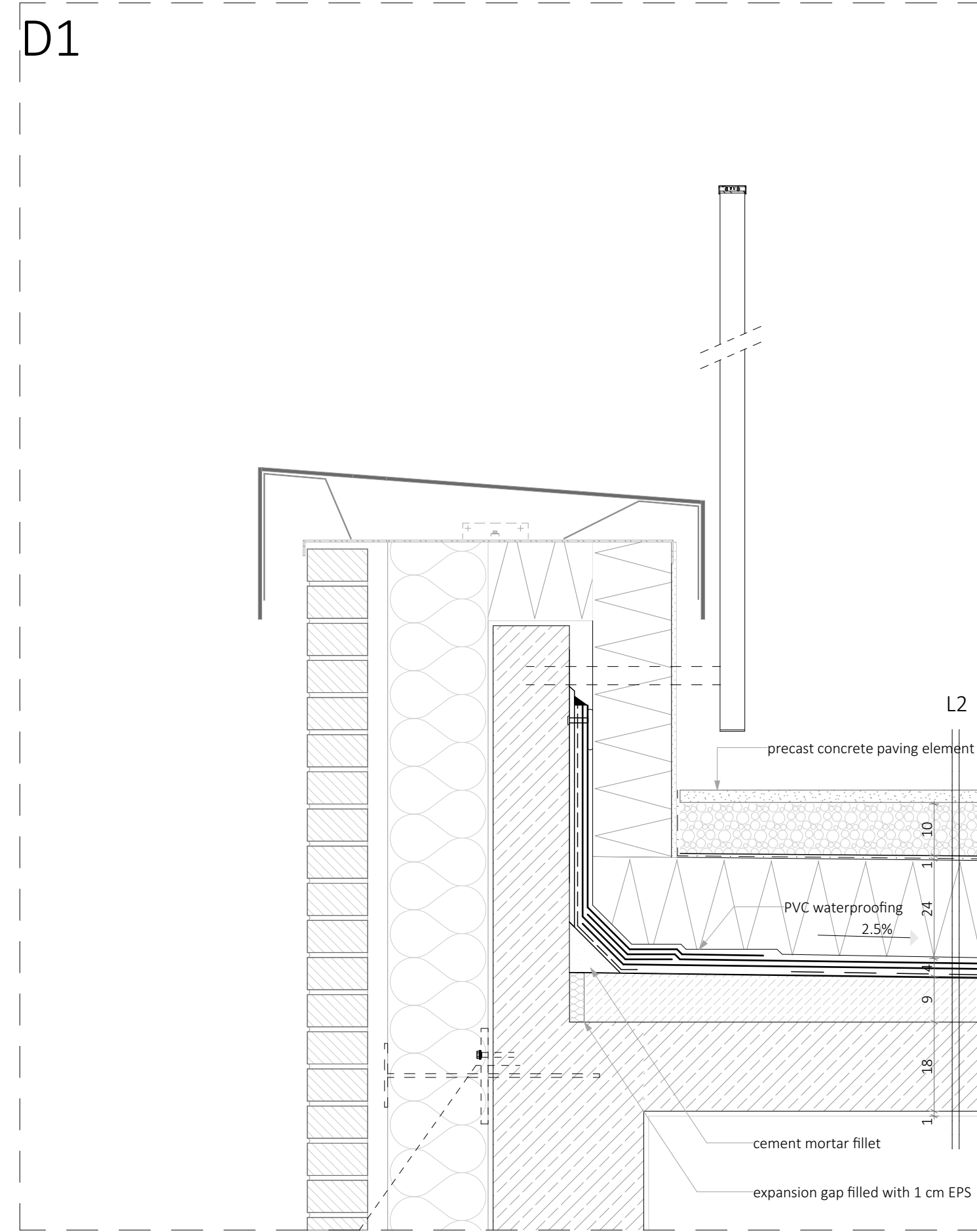
Facade



Section D-D

Section C-C





Layer Orders

W1 External Wall with brick cladding 66 cm Brick wall cladding

- 30 cm Infill block
- 20 cm Mineral wool (thermal insulation)
- 4 cm Airgap
- 12 cm Clinker brick facade cladding (Röben)

W2 External Fire Wall 60 cm Neighbouring Wall

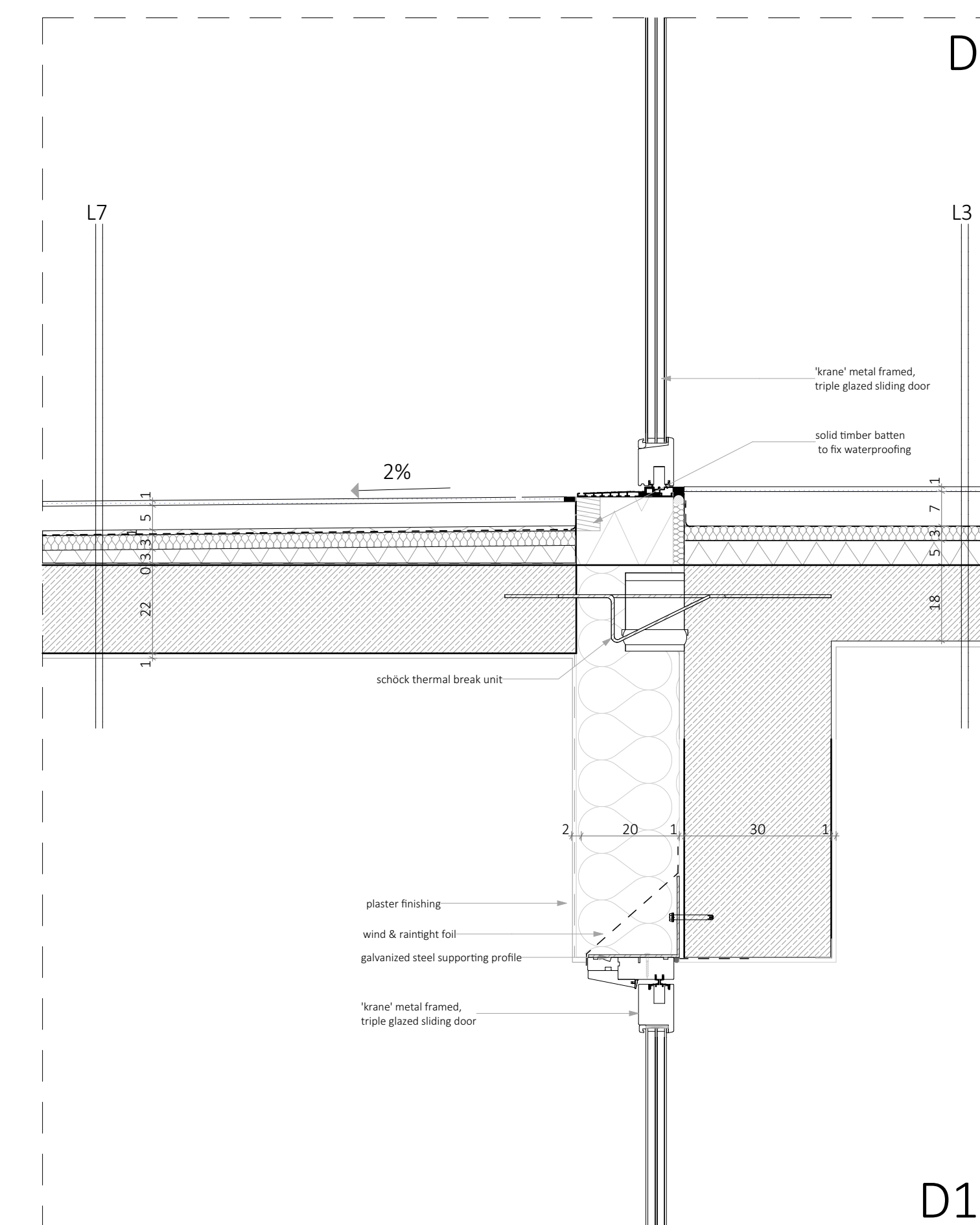
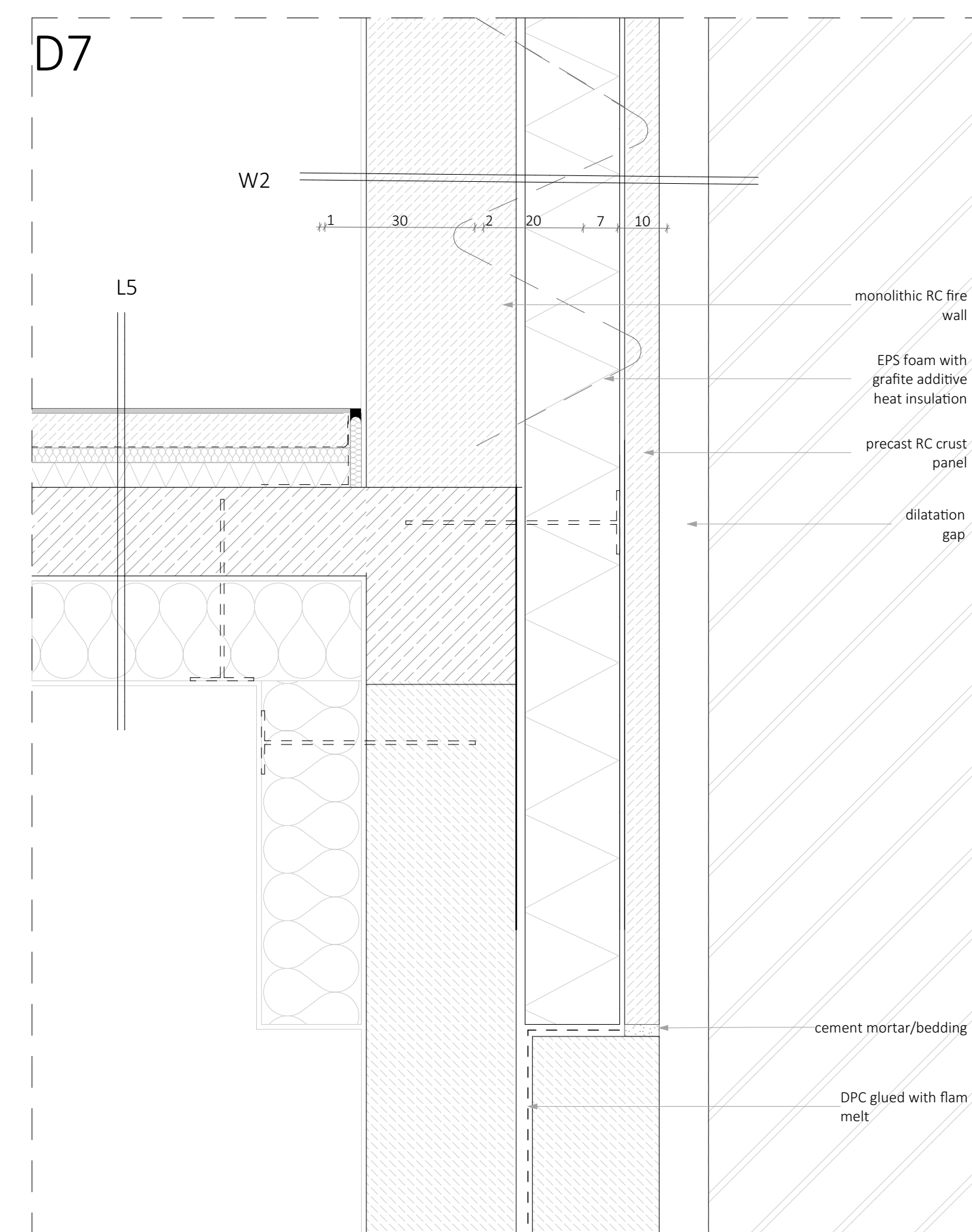
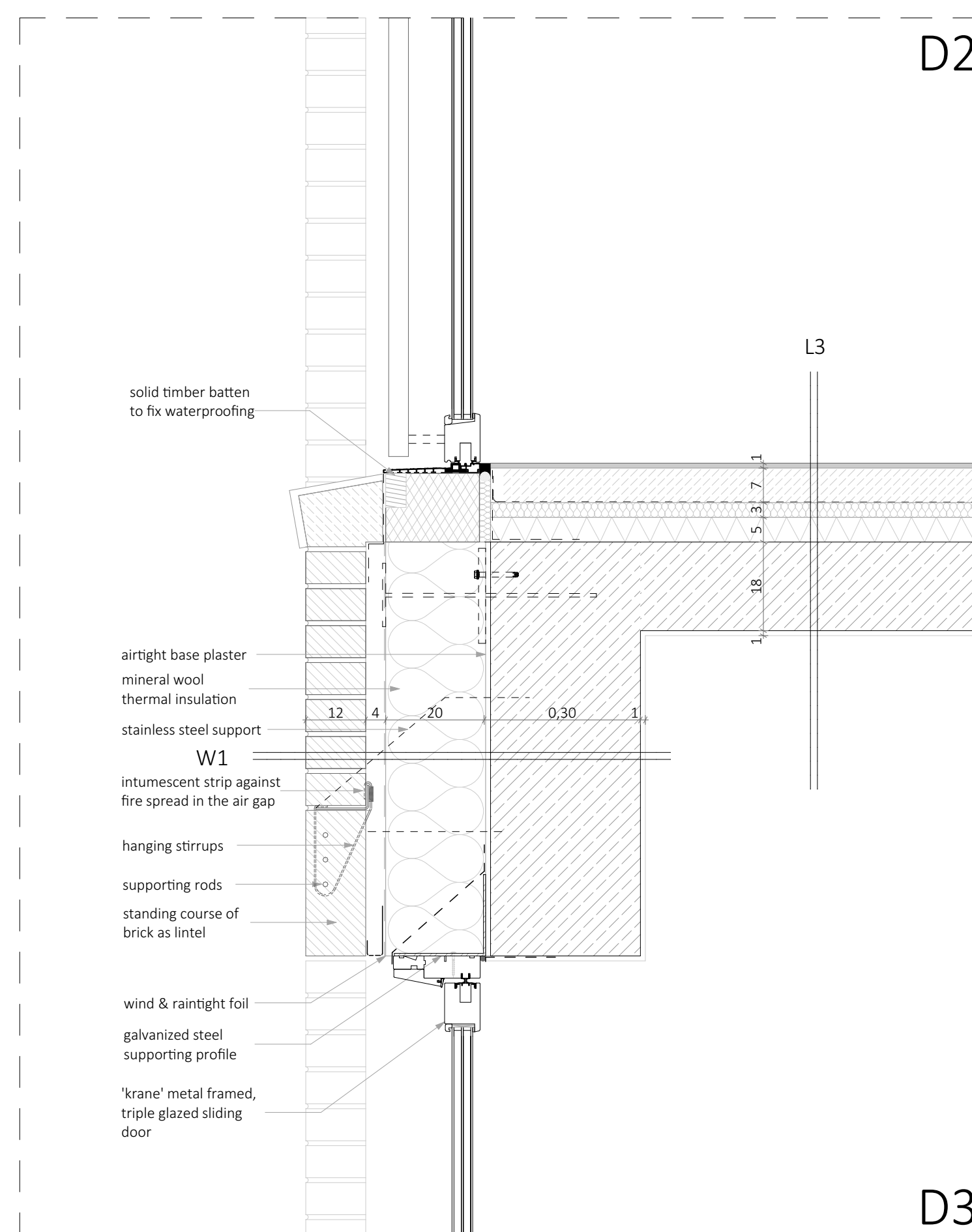
- 1 cm plaster
- 30 cm Insitu RC wall
- DPC waterproofing layer
- 26 cm DPC supporting RC wall
- 10 air gap filled with foam

W3 External Basement Wall 34 cm Unheated basement wall

- soil backfill
- 1 lyr dimpled plastic sheet protection
- 1 lyr 4 mm SBS modified bituminous sheet wp
- 1 lyr cold bituminous grounding
- 1 cm base plaster
- 30 cm Insitu RC basement wall
- 1 cm internal plastering

W4 Partition Wall 15 cm mounted partition

- 25mm 2 lysrs. 12.5 mm fire retardant plasterboard
- 100 mm CW100 rib frame with mineral wool filling
- 25mm 2 lysrs. 12.5 mm fire retardant plasterboard



L1 Flat Roof non-walkable 53,5 cm Flat Roof

- 5 cm gravel ballasting and protecting layer
- 1 layer synthetic filter with specific density of 125 g/m2
- 24 cm XPS thermal insulation, with staggered joints
- 1 layer 4 mm modified bitumen waterproofing membrane
- 1 layer 4 mm modified bitumen waterproofing membrane
- 1 layer cold bitumen patching compound
- 4,5-10 cm concrete inclination layer
- 18 cm monolithic reinforced concrete floor slab

L2 Flat Roof Terrace 53,3 cm Terrace

- 4 cm Granite stone pavement
- 4 cm Stone chipping and drainage layer
- 1 layer synthetic filter with specific density of 125 g/m2
- 24 cm XPS thermal insulation, with staggered joints
- 1 layer 4 mm modified bitumen waterproofing membrane
- 1 layer 4 mm modified bitumen waterproofing membrane
- 1 layer cold bitumen patching compound
- 4,5-10 cm concrete inclination layer
- 18 cm monolithic reinforced concrete floor slab

L3 Apartments internal flooring 34 cm Flooring with resin

- 1 cm resin concrete
- 7 cm Concrete screed
- 0,4 cm PE foil
- 3,0 cm Mineral wool (floating layer)
- 5 cm EPS foam (Installation layer)
- 18 cm RC Slab

L5 Ground Floor 56 cm Flooring with resin

- 1 cm resin concrete
- 3 mm Flexible, cement based liquid waterproofing
- 5-15 mm inclination layer
- 7 cm Concrete screed
- 0,4 cm PE foil
- 3,0 cm Mineral wool (floating layer)
- 5 cm EPS foam (Installation layer)
- 18 cm RC Slab
- 1 cm Plaster
- 14 cm Mineral Wool
- 0,5 cm base plaster

L6 Basement (unheated) 21 cm Flooring with resin

- 1 cm Resin floor covering
- 7 cm Concrete screed
- 1 lyr PE foil
- 1 lyr 4 mm SBS modified bituminous sheet wp
- 1 lyr cold bituminous grounding
- 10 cm strengthend concrete
- Gravel bedding
- Soil

L7 Terrace 34 cm Flooring with resin

- 1 cm resin concrete
- 6 cm Concrete screed
- 1cm drainage sheet
- 1lyr PVC waterproofing
- 3,0 cm Mineral wool (floating layer)
- 5 cm EPS foam (Installation layer)
- 22 cm RC Slab

