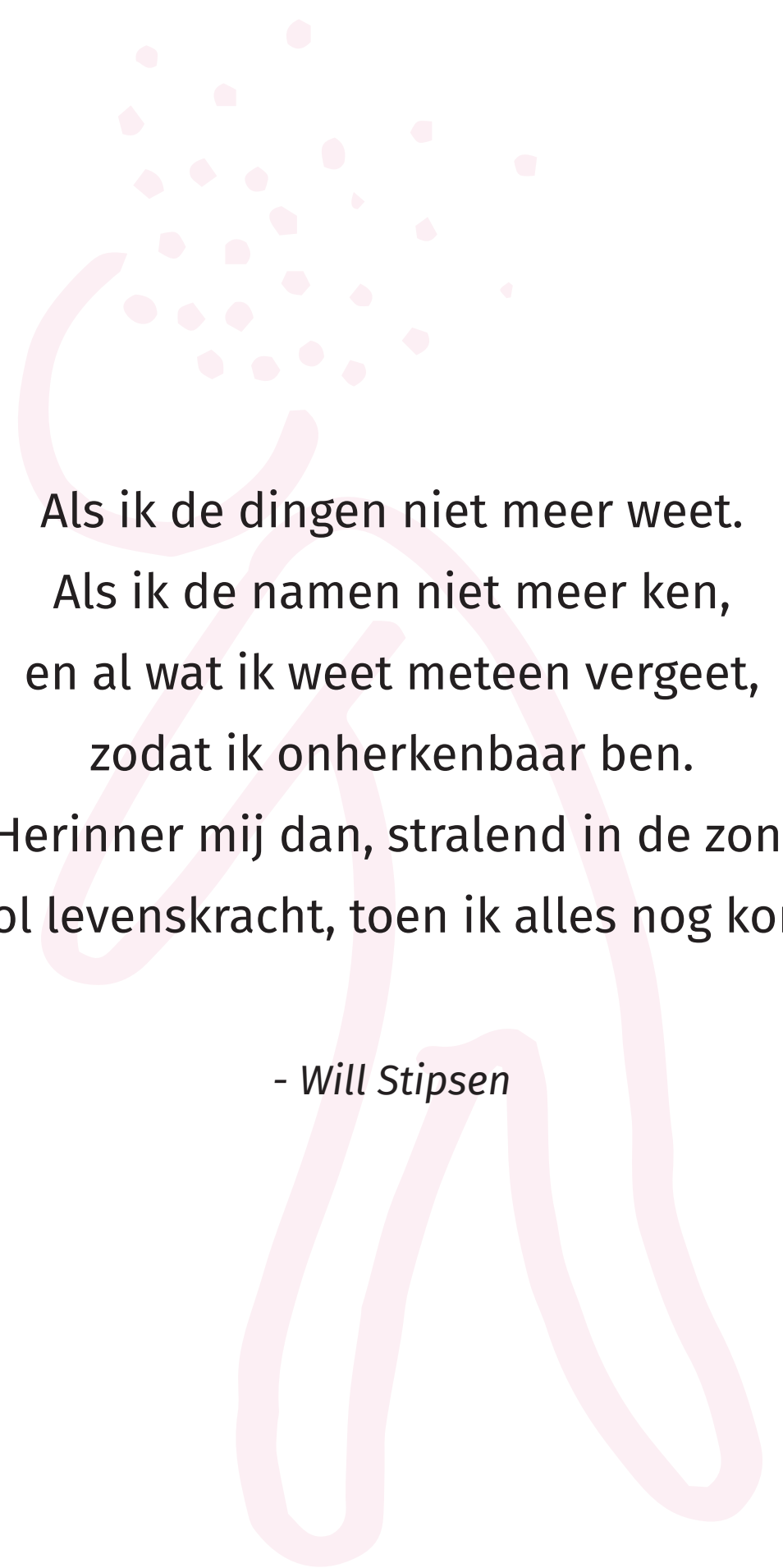




Towards a dementia proof society

Designing for Care | P5 Presentation | 07-07-2020

Rozemarijn Peeters | 4382358



Als ik de dingen niet meer weet.
Als ik de namen niet meer ken,
en al wat ik weet meteen vergeet,
zodat ik onherkenbaar ben.
Herinner mij dan, stralend in de zon,
vol levenskracht, toen ik alles nog kon.

- *Will Stipsen*

Why ?

Relevance



Ouderen vinden moeilijk **nieuwe woonruimte**



Carina van Aartsen 24 februari 2020, 16:27 1169 keer gelezen

Eén op de drie ouderen is de afgelopen tijd actief op zoek geweest naar nieuwe, geschikte woonruimte. Van die groep is het 89 procent niet gelukt om deze woonruimte te vinden. Dat blijkt uit een korte peiling van ANBO.

ANALYSE BEZOEKREGELING VERPLEEGHUIZEN

Naar buiten? De deur van het **verpleeghuis zit nog op slot**

Vanaf maandag mogen verpleeghuisbewoners weer meer bezoek ontvangen. Maar in de praktijk worden in elk verpleeghuis de bezoekregels anders uitgelegd. Tot frustratie van bewoners en hun naasten.

Michiel van der Geest 12 juni 2020, 21:18



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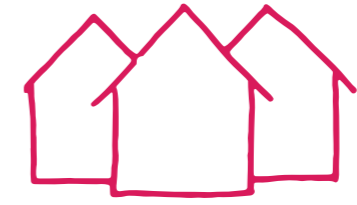
The flexible private unit

The collective living

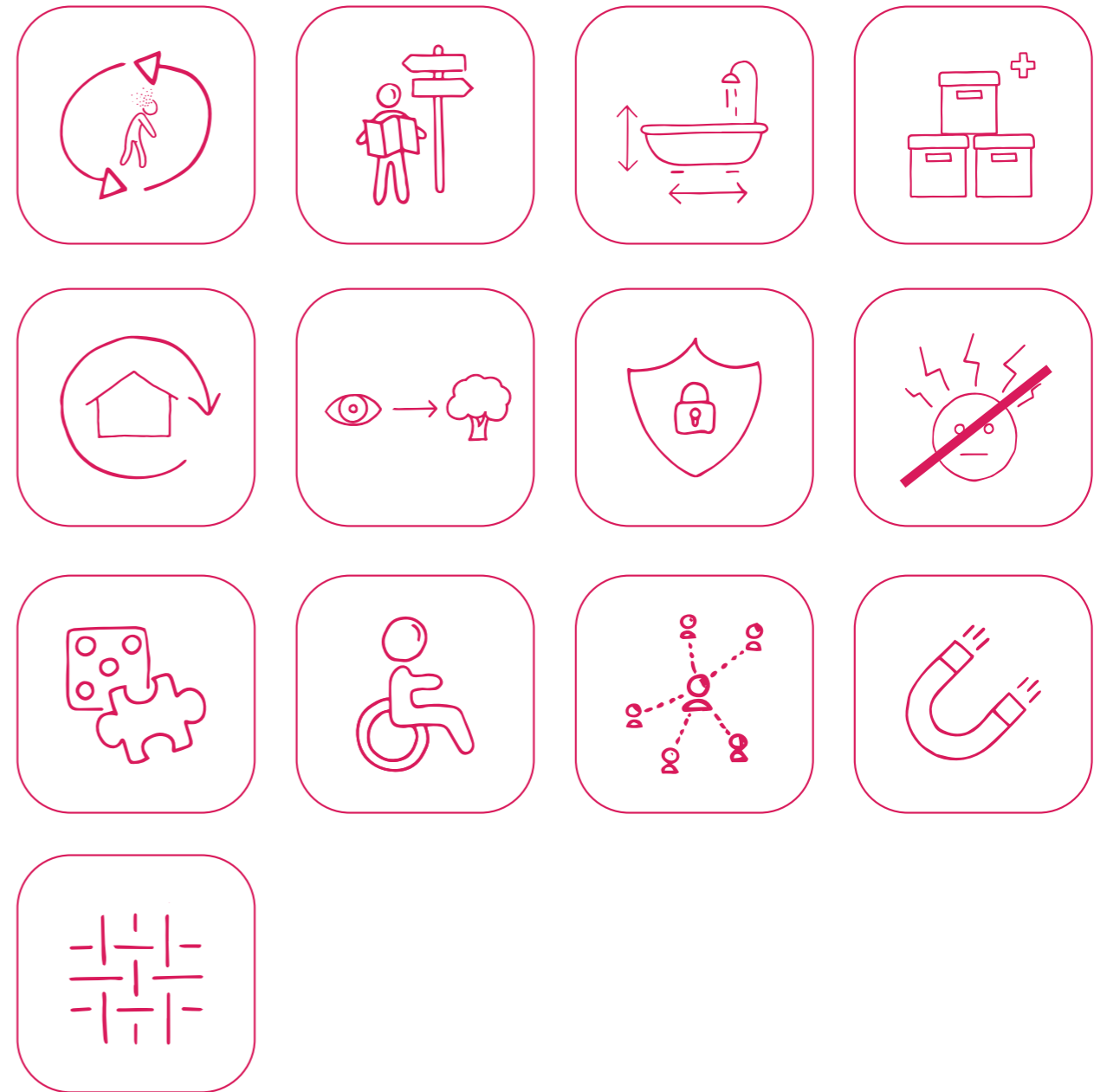
The public masterplan

Materials

The plan



Fieldwork Conclusions





The story of Erica



Erica lives in Huis Assendorp. Since a while she is suffering from the first symptoms of **Dementia**. She is oblivious, confused and wanders through the hallways at night.



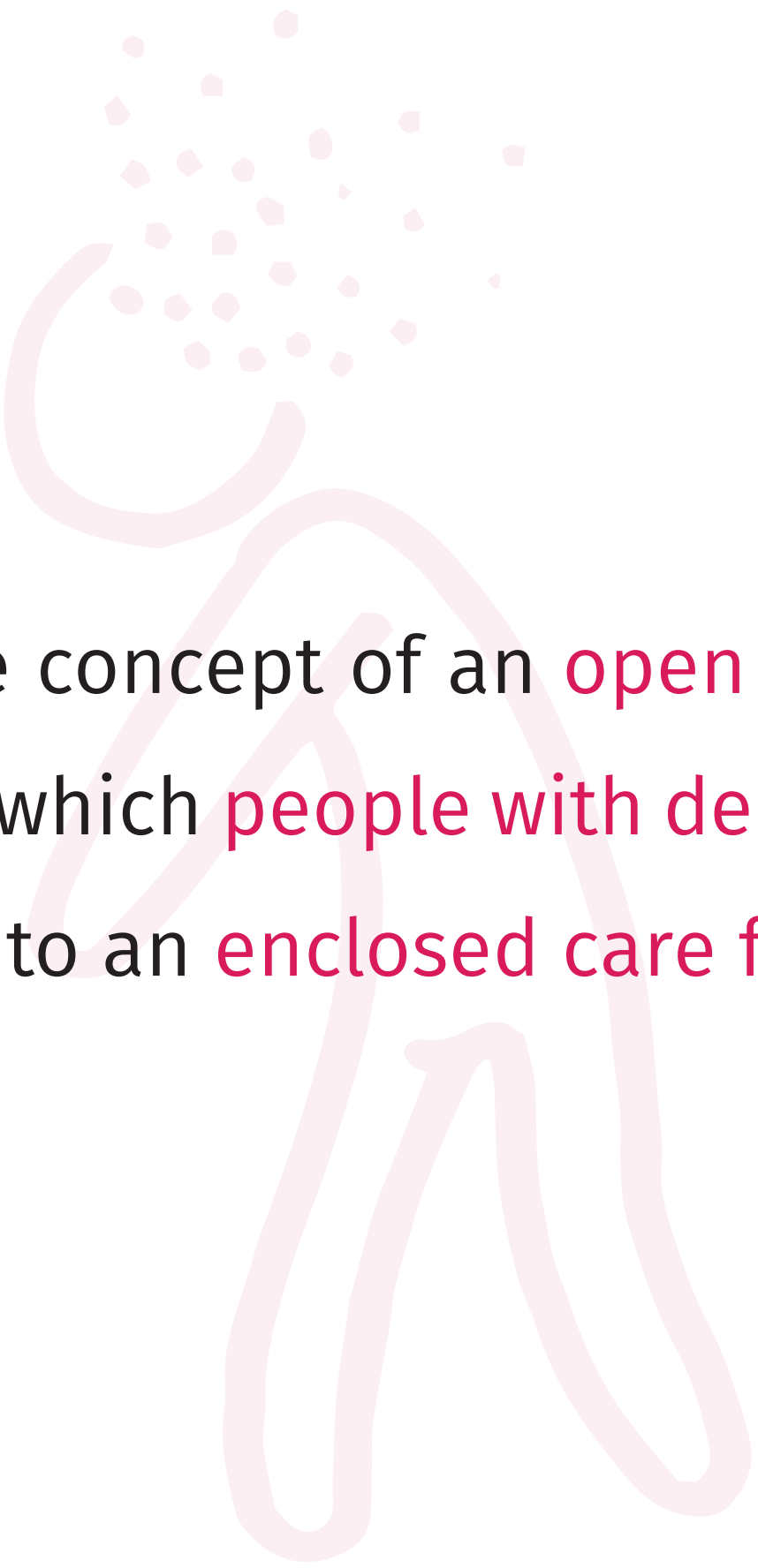
Erica lives together with her **dog Dushi**. Due to her symptoms she forgets to let her out every now and then. Luckily other residents from Huis Assendorp will pick up Dushi to let her out.



Erica had lost her **keys**. After searching and wandering for hours, they were found in her **bag** she was carrying the whole time.

A minimalist line drawing of a hallway. In the foreground, the back of a person's head and shoulders is visible, looking down a long, narrow hallway. The hallway has a door at the end and several question marks scattered along the walls and floor, suggesting uncertainty or a path of inquiry. The drawing is composed of simple black lines on a white background.

Erica has to **move** = **UNFAIR**

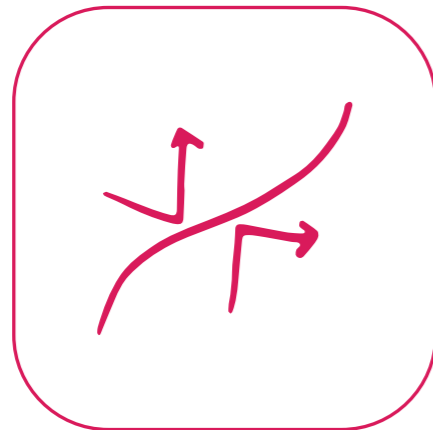


To what extent can the concept of an **open society** help creating an architectural setting in which **people with dementia** no longer have to move to an **enclosed care facility**?



Open Society

Design tools



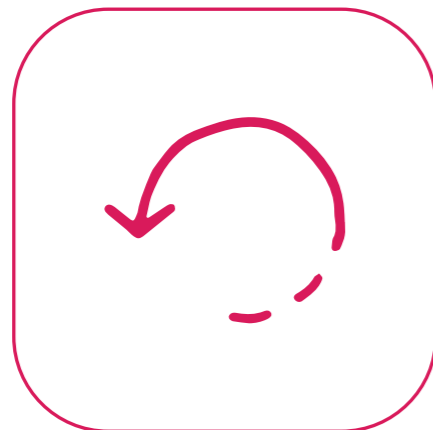
Boundaries: where things end



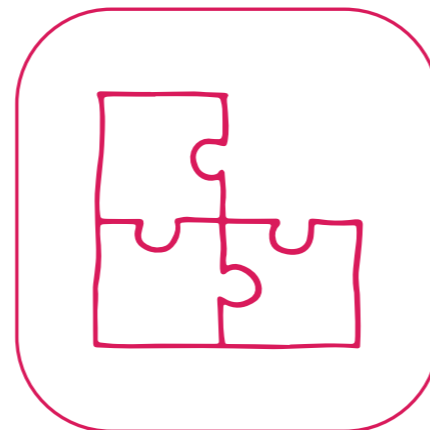
Borders: where species can interact



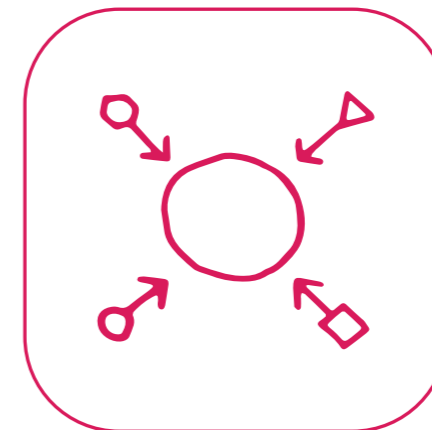
Diverseness



Unresolved narrative



Incomplete form



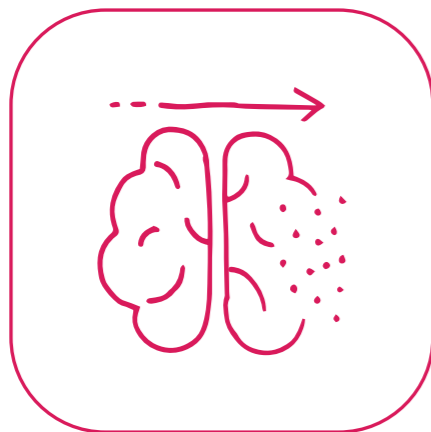
Inclusiveness



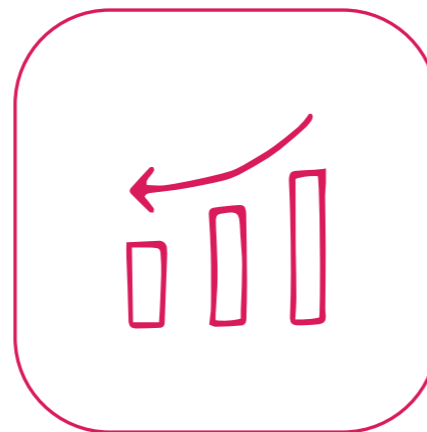
Expression of human behaviour



Dementia & People



Default between
short term and
long term memory



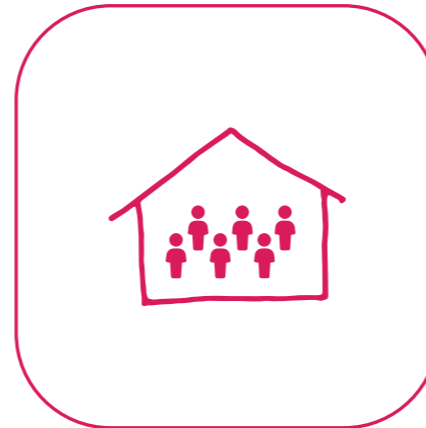
Rolling back
memory



Poor filtering of
incentives



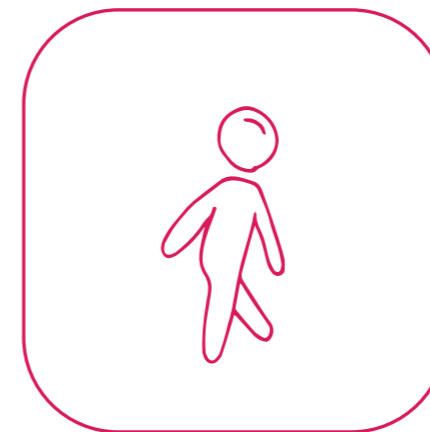
Dementia & Architecture



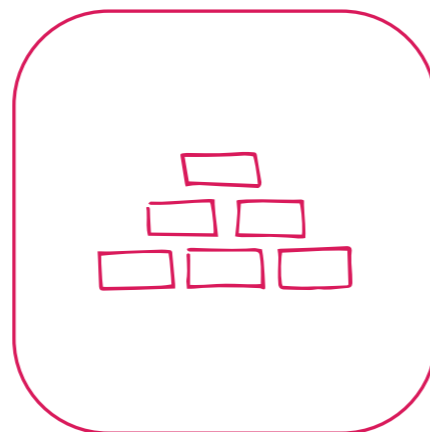
Small scale
living



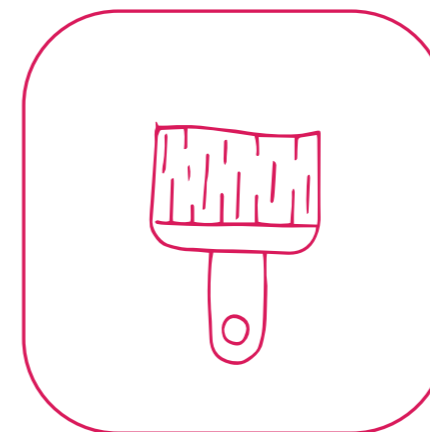
Stimulance via
movement and
sound



Walk



Materials



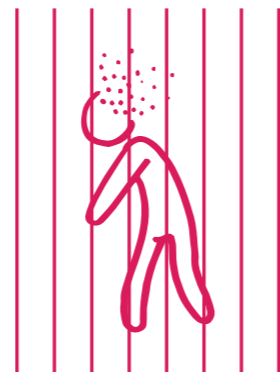
Colours



Enclosed care facility

“A closet, room, or other comparable, stationary, and fully enclosed area equipped with secured locks or other functioning security devices that permit access only by a registered primary caregiver or registered qualifying patient.”

- *Law insider (n.d.).*



A sick person locked up
as a prisoner



Use domotica for those
who need it



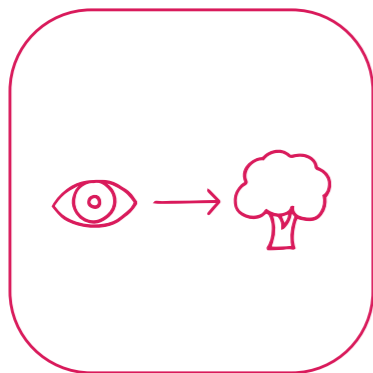


Healing environments for Elderly

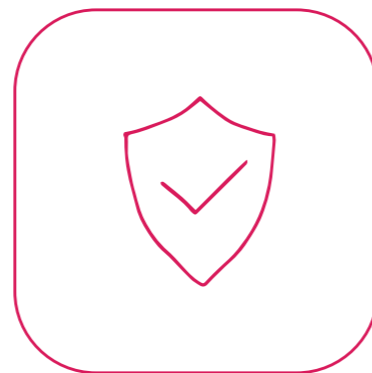
Dutch Housing Tutorial

FACTORS

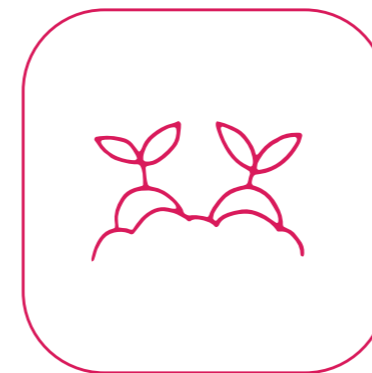
SPACES



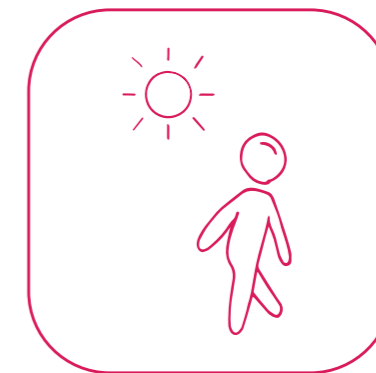
View on nature



Safety



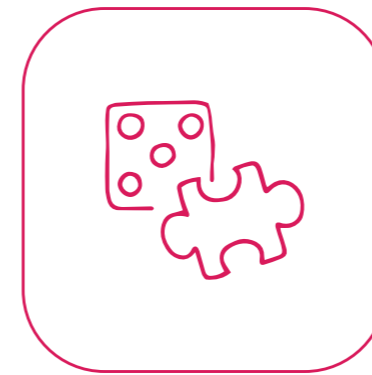
A healing garden



Sunshiny walk



Privacy



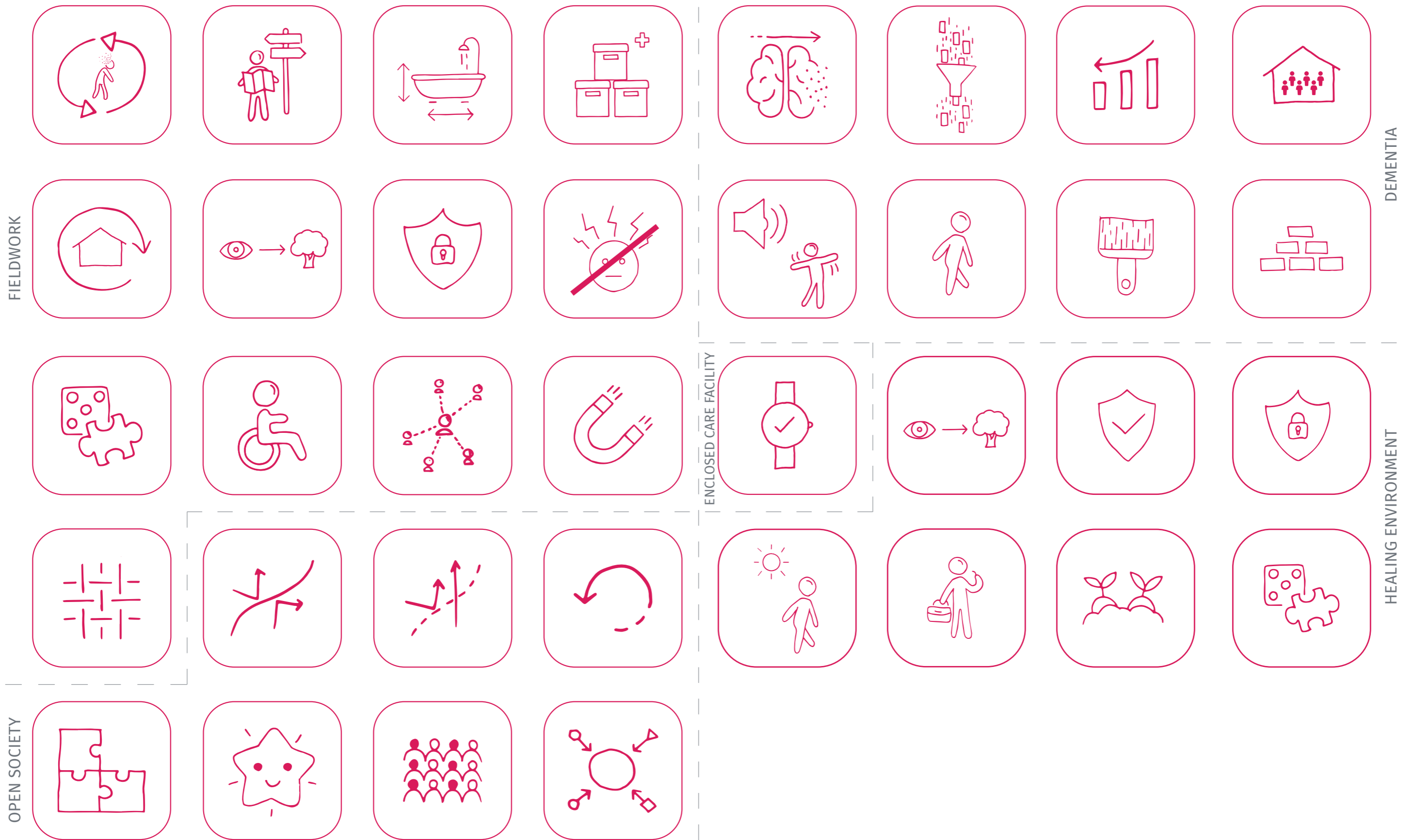
Personal play /
hobby room



Treatment room

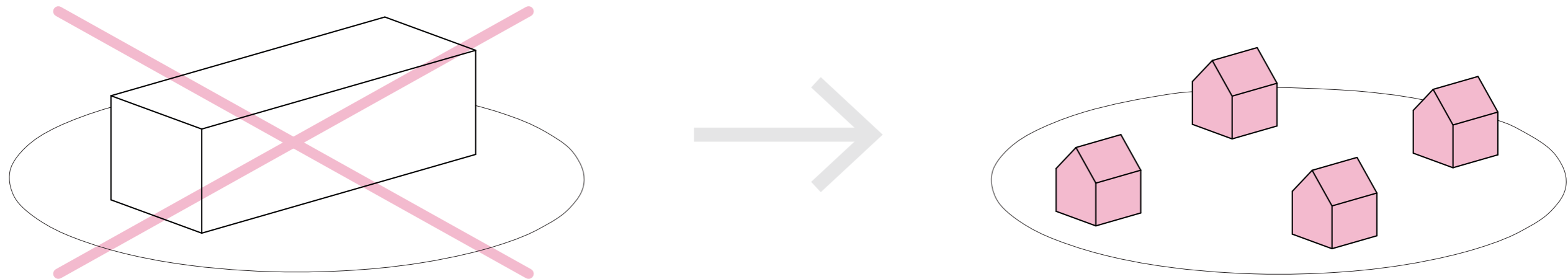
Design tools

Summary



CONCEPT

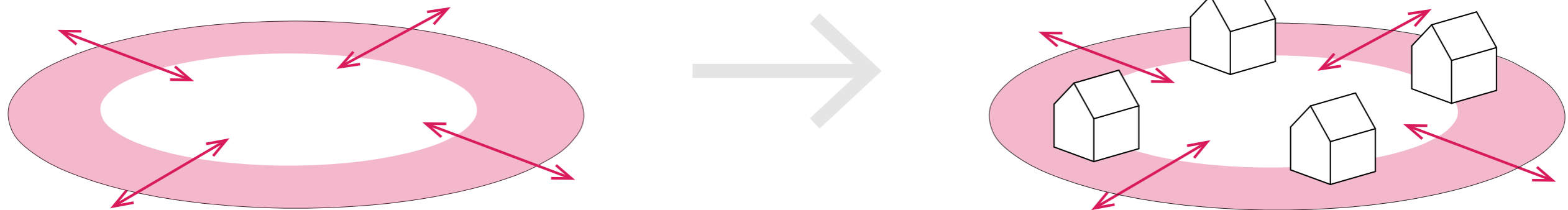
Small scale collective living



One household contains of **6** private units. When people know each other they will **take care** of each other. Houses should be easy **adaptable**.

CONCEPT

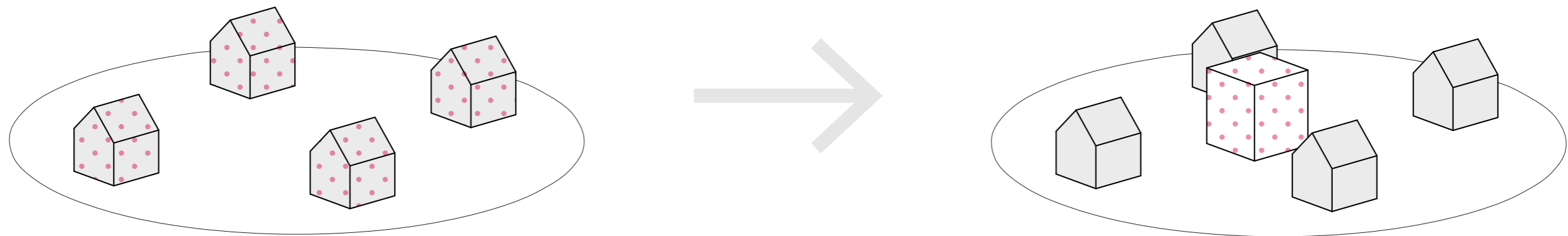
Focus on Borders



Place houses in **border zones** to enhance interaction with the neighbourhood.

CONCEPT

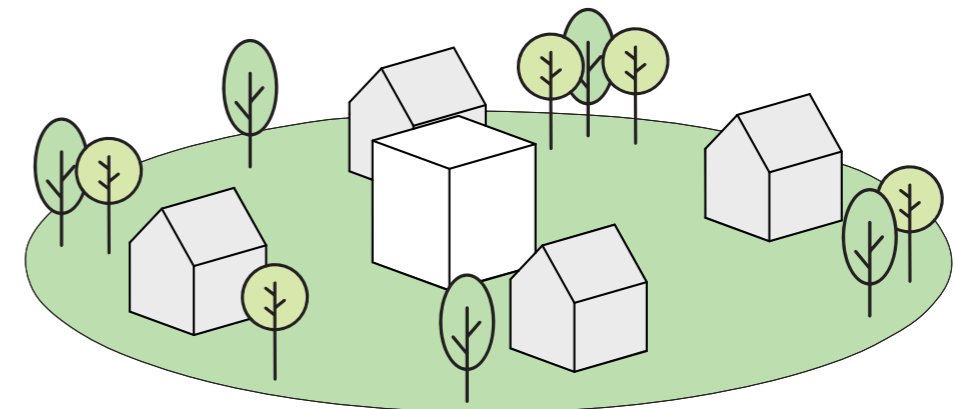
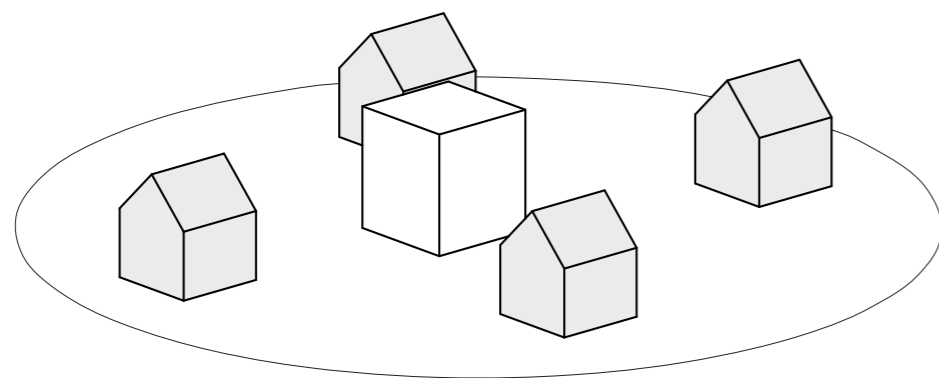
Living & Activities separated



Separate living and activities to create a **balance** between serenity and liveliness for the residents.

CONCEPT

Healing Surroundings



Create a **healthy** surrounding environment.



Design location
Approx. 5200 m²

Residential area

Residential area

City centre
1000 m

Park 'De Ruigte'
700 m

Witte singel
80 m

Allego Charging Station

Topaz Groenhoven

De Leidse Empire State

Residential area

Residential area

Residential area

B&B 3 kastanjes

Allego Charging Station

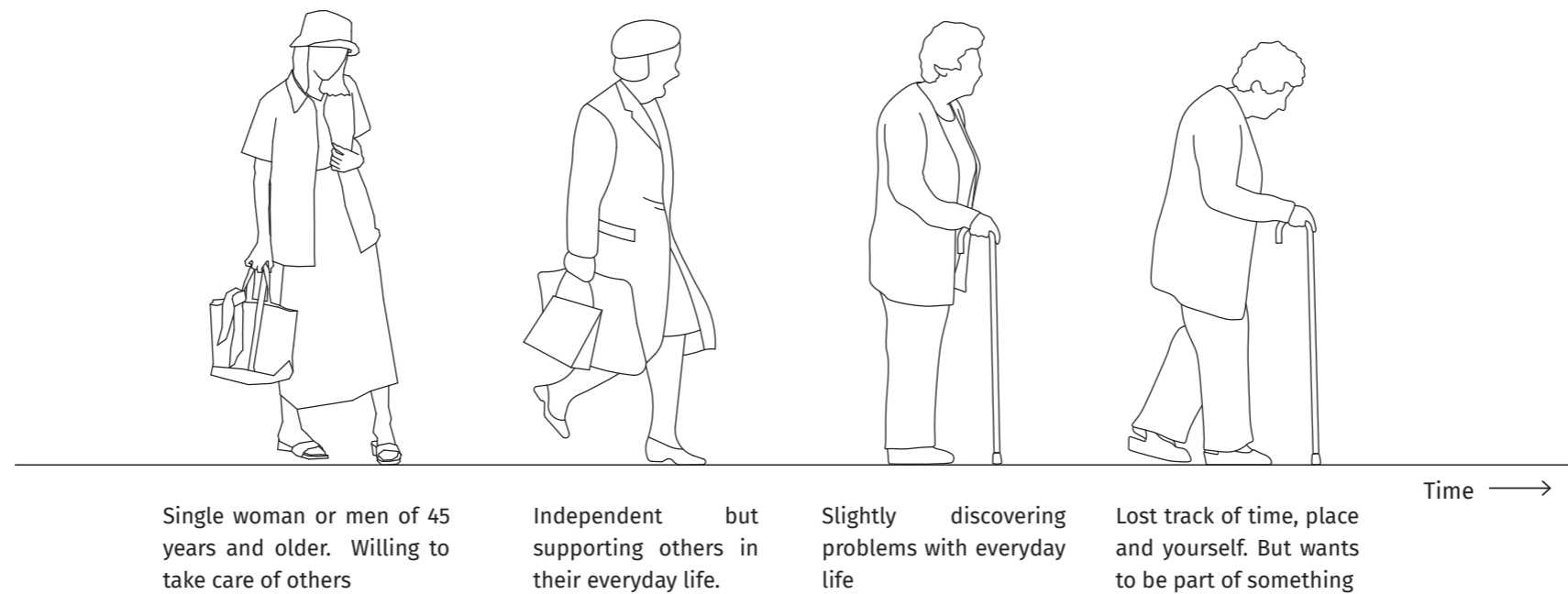
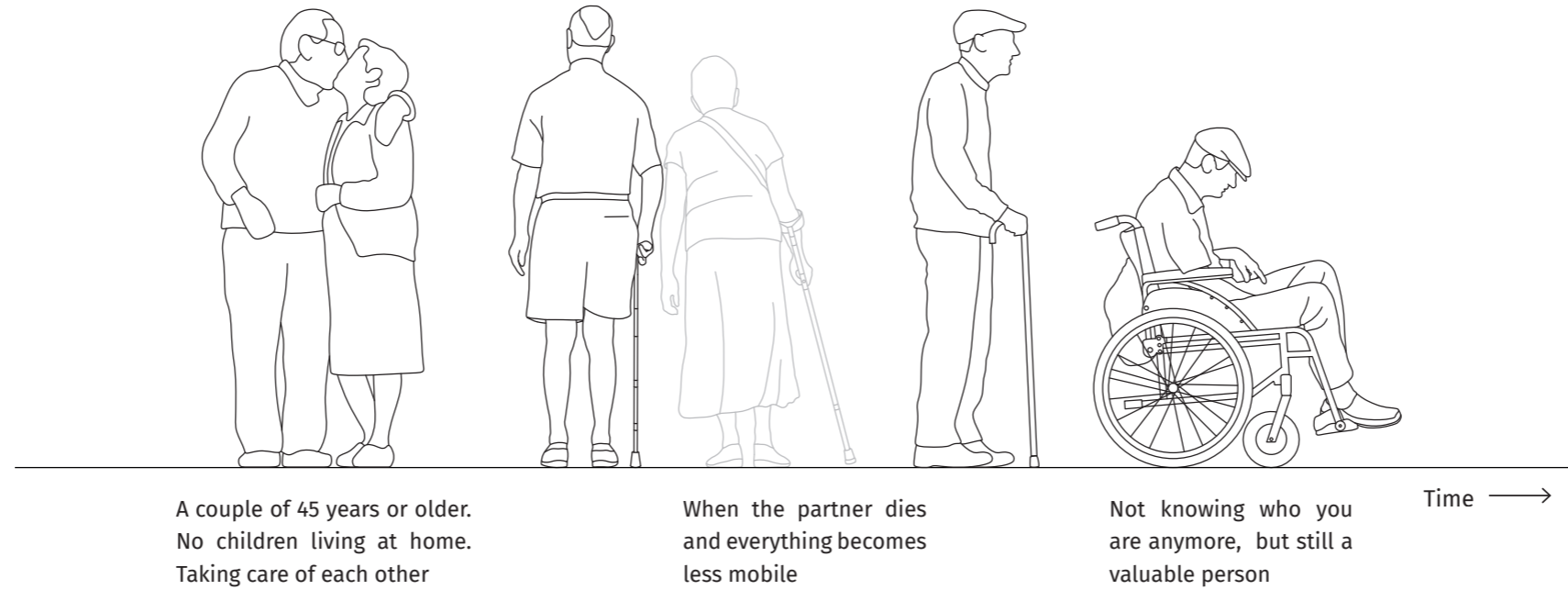
Studio Jan van Goyen

Antroposofisch
Gezondheidscentrum

Spar
800 m

The target group

an aging group



Dementia

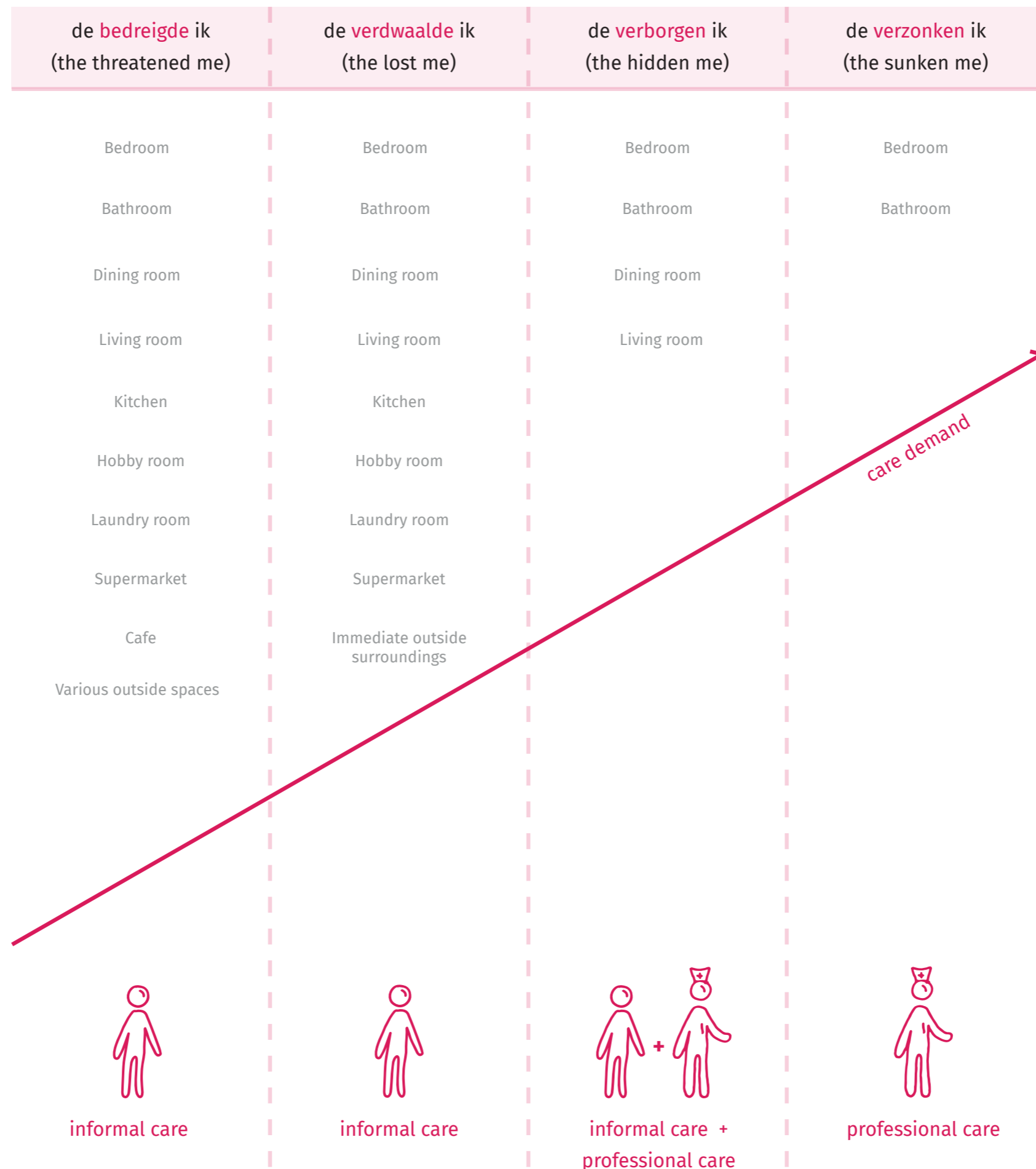
Four phases

Four different phases of dementia can be distinguished. Sometimes phases run together, which makes it harder to distinguish. The loss of the 'I' experience occurs on a conductive scale.

	de bedreigde ik (the threatened me)	de verdwaalde ik (the lost me)	de verborgen ik (the hidden me)	de verzonken ik (the sunken me)
TIME	Lives in the present	Mixes past and present	Lives in the past	Lives in inner world
AWARE	Is aware of memory problem and deterioration, tries to hide problems	Limited awareness of memory problem and deterioration	No awareness of memory problem and deterioration	No awareness of memory problem and deterioration
EMOTIONS	Nervous, irritable, insecure, suspicious, angry, sadness and fear. Blame another.	Restless, fear, panic. Often shows emotions. Mood swings. Often 'on their way home'.	Often shows emotions. Mood swings. Cries / laughs for no apparent reason.	Emotions are difficult to perceive.
LANGUAGE	Verbal communication, uses correct words and sentences. Voice expresses emotion.	Verbal and non-verbal communication, problems with finding correct words. Voice is monotonous.	Primarily non-verbal communication. Major problems with wording. Voice melodic and slow. Repetition of words and sentences.	No verbal communication. Voice is weak and soundless.
PHYSICAL	Can perform most general daily life activities himself, sometimes needs help.	Needs guidance with general daily life activities. Sometimes incontinent by accident	General daily life activities must be taken over. Becomes more passive, can no longer walk independently. Incontinent.	Completely dependent on others. Complete passivity. Incontinent.
STIMULI	Conscious of environment	Usually, responds alert to environmental stimuli	Occasionally, stimuli from the environment still come in	Most of the stimuli from the environment don't come in anymore
ORIENTATION	Knows what time of day it is. Knows the way home. Recognizes family / caregivers.	Difficulties with time and day planning. Limited knowledge of way in and around the house. Limited recognition of family and caregivers.	No sense of time. Gets lost in own house and the immediate surroundings. No recognition of family and caregivers	Complete disorientation, has no idea of time, place and person.
OBJECTS	Recognizes the function of objects and uses them correctly.	Collects objects, often loses objects. Does not recognize the function of various objects and does not use them correctly.	A certain object can offer comfort. Hardly recognizes the function of objects.	Does not recognize the function of objects.

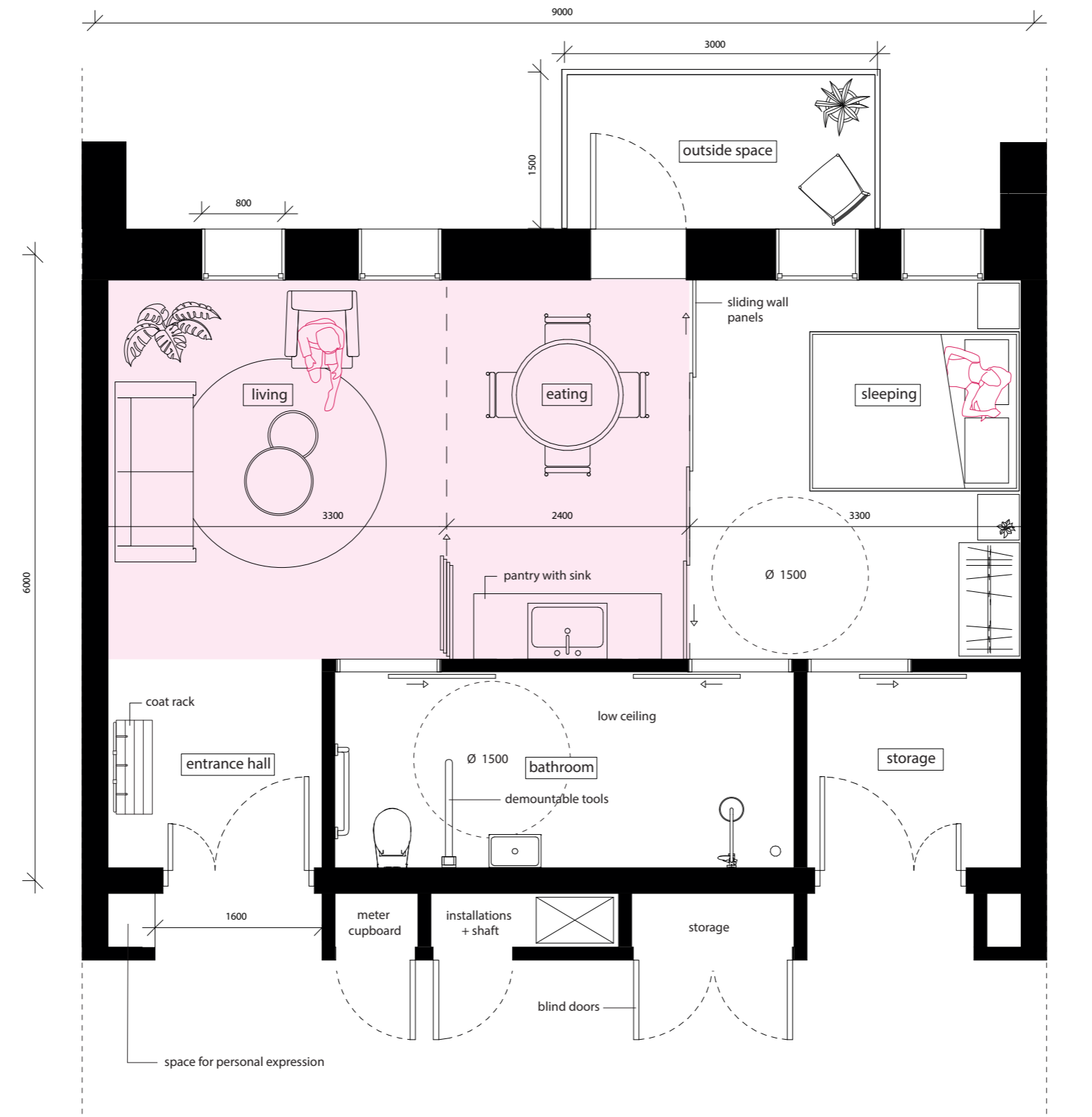
Dementia

& its meanings for architecture



The flexible private unit

Normal situation

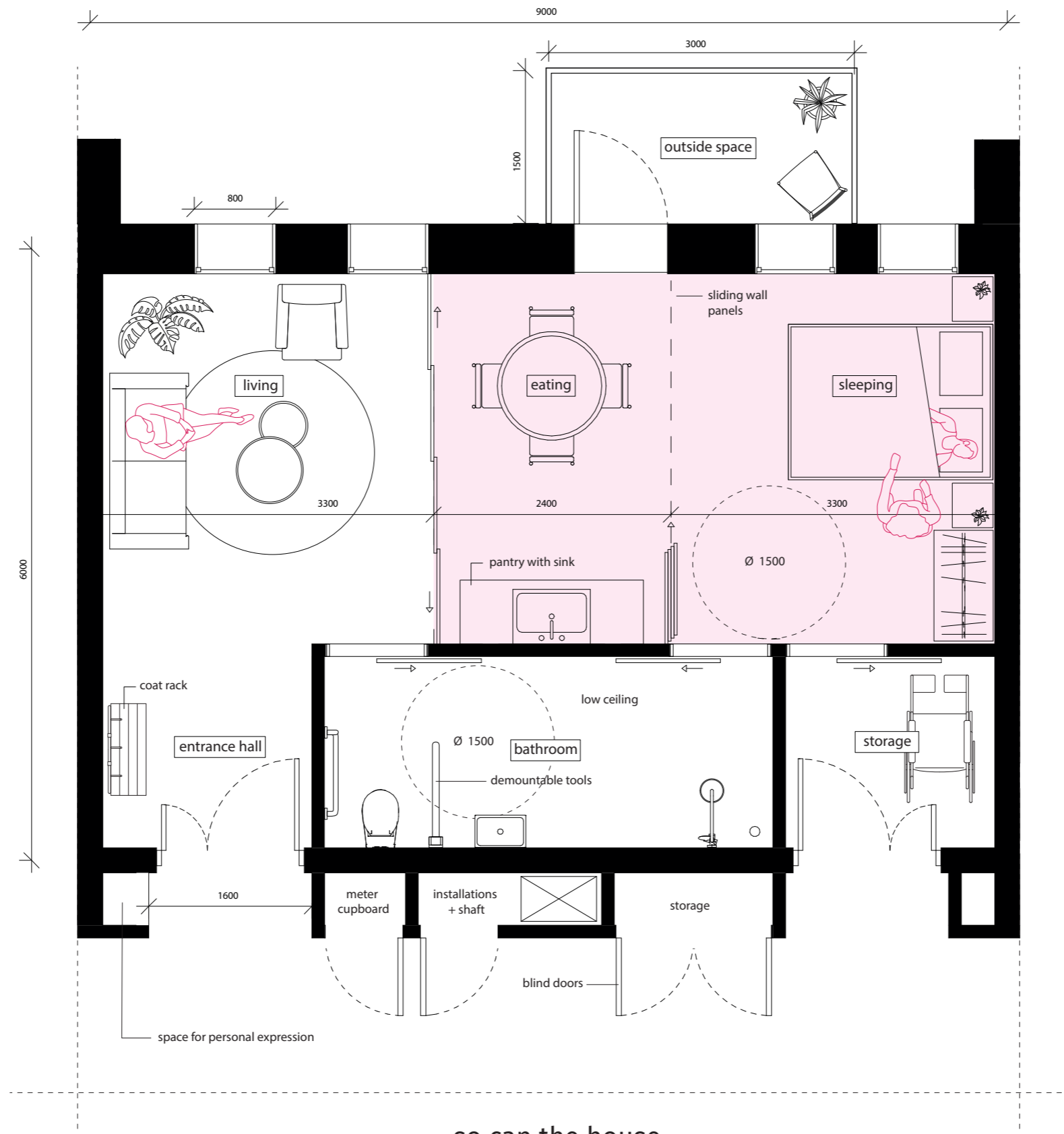


As the patient is changing

1 m

The flexible private unit

Care situation



.... so can the house.

1 m

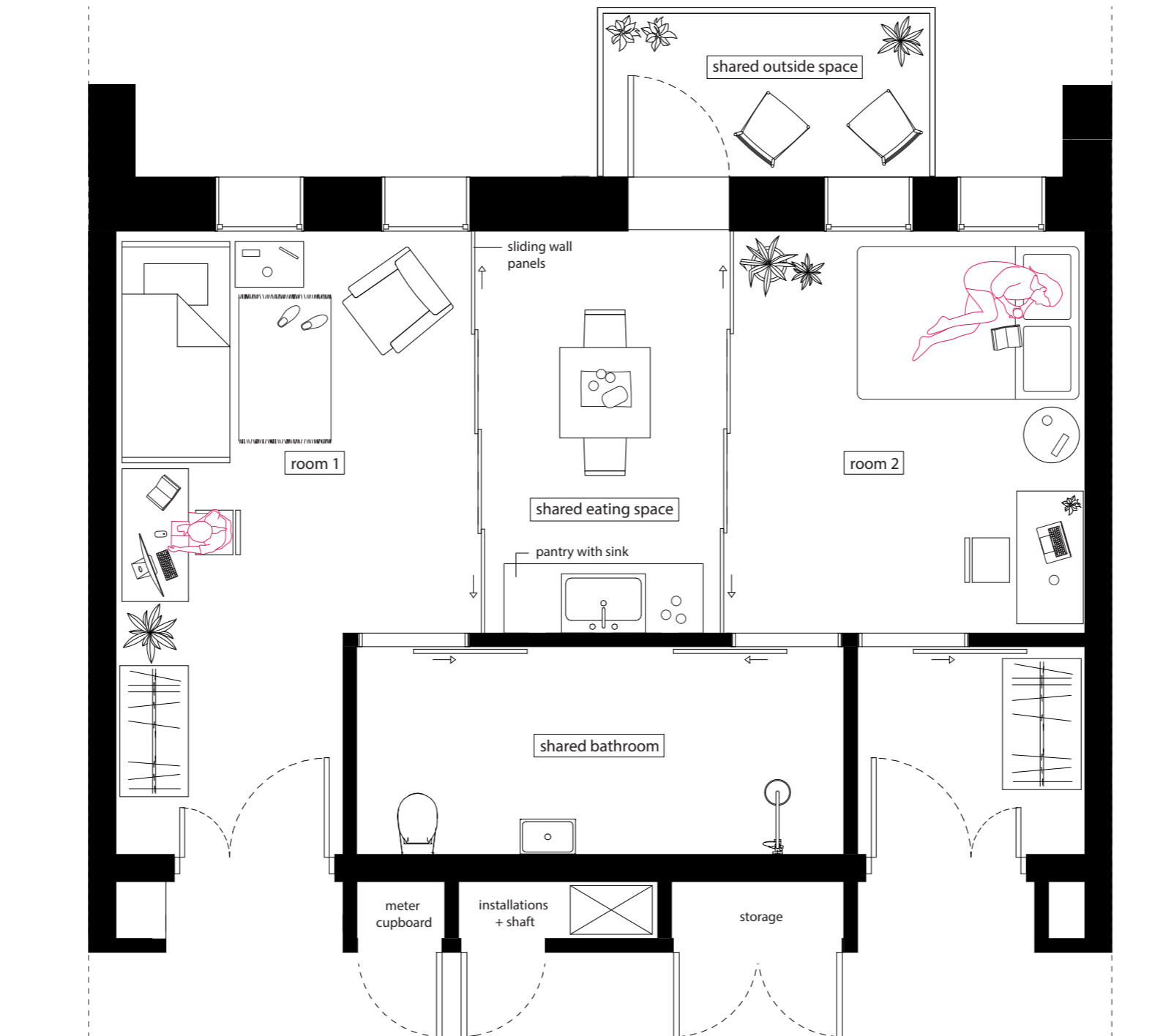
The flexible private unit

Impression



The flexible private unit

In the future

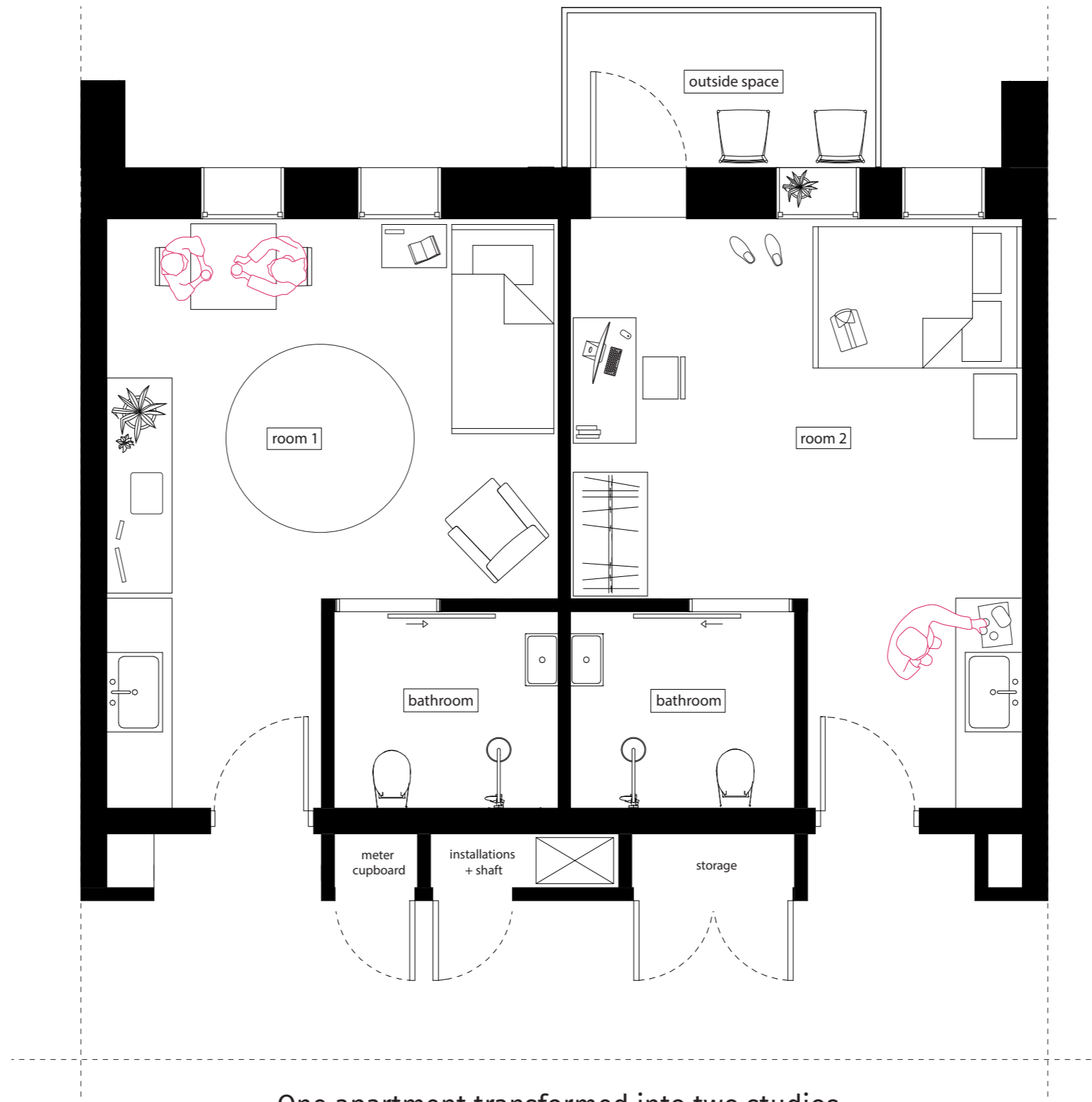


Two students sharing one apartment

1 m

The flexible private unit

In the future

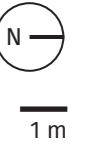


One apartment transformed into two studios

1 m

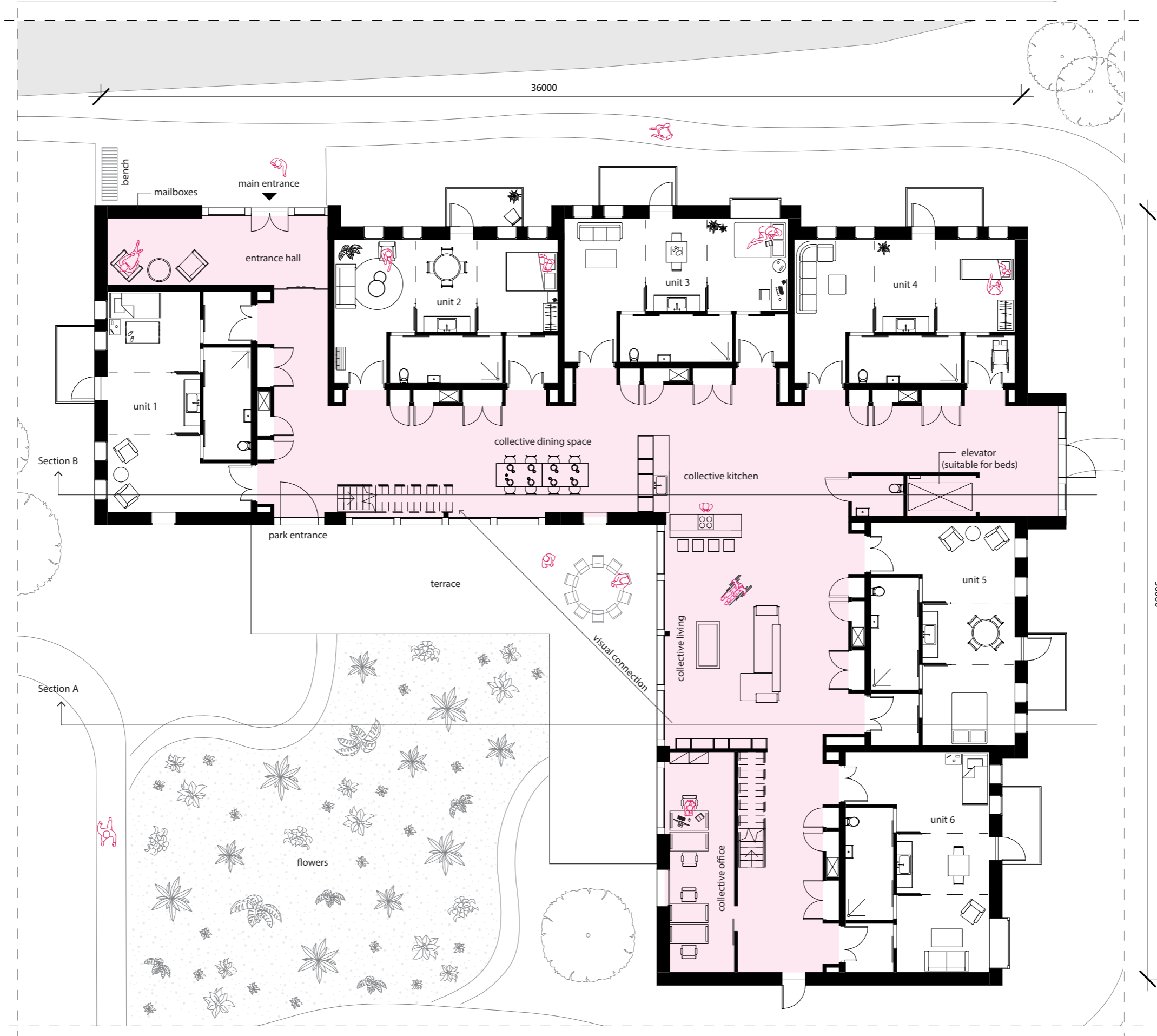
The collective living

Ground floor



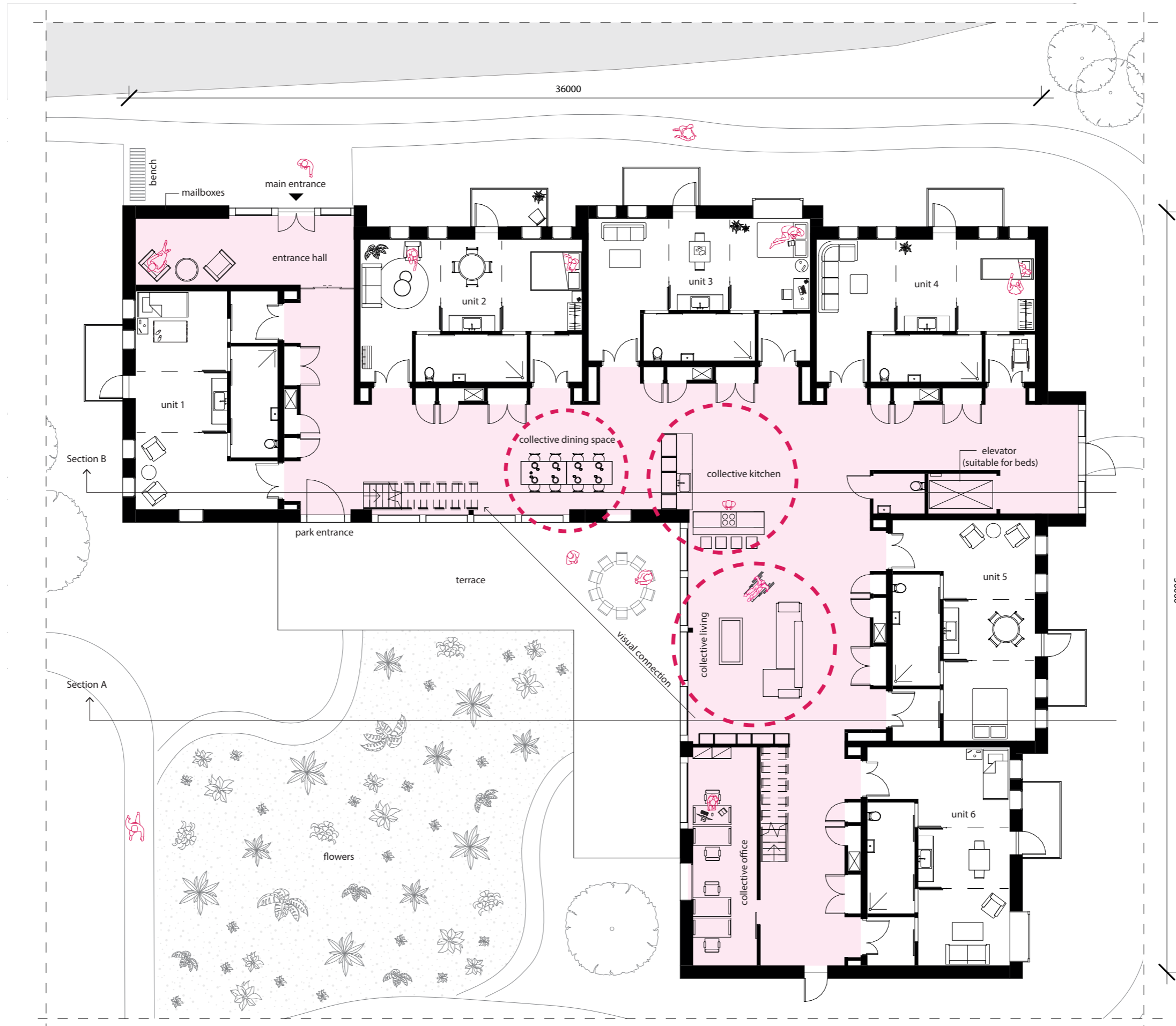
The collective living

Ground floor



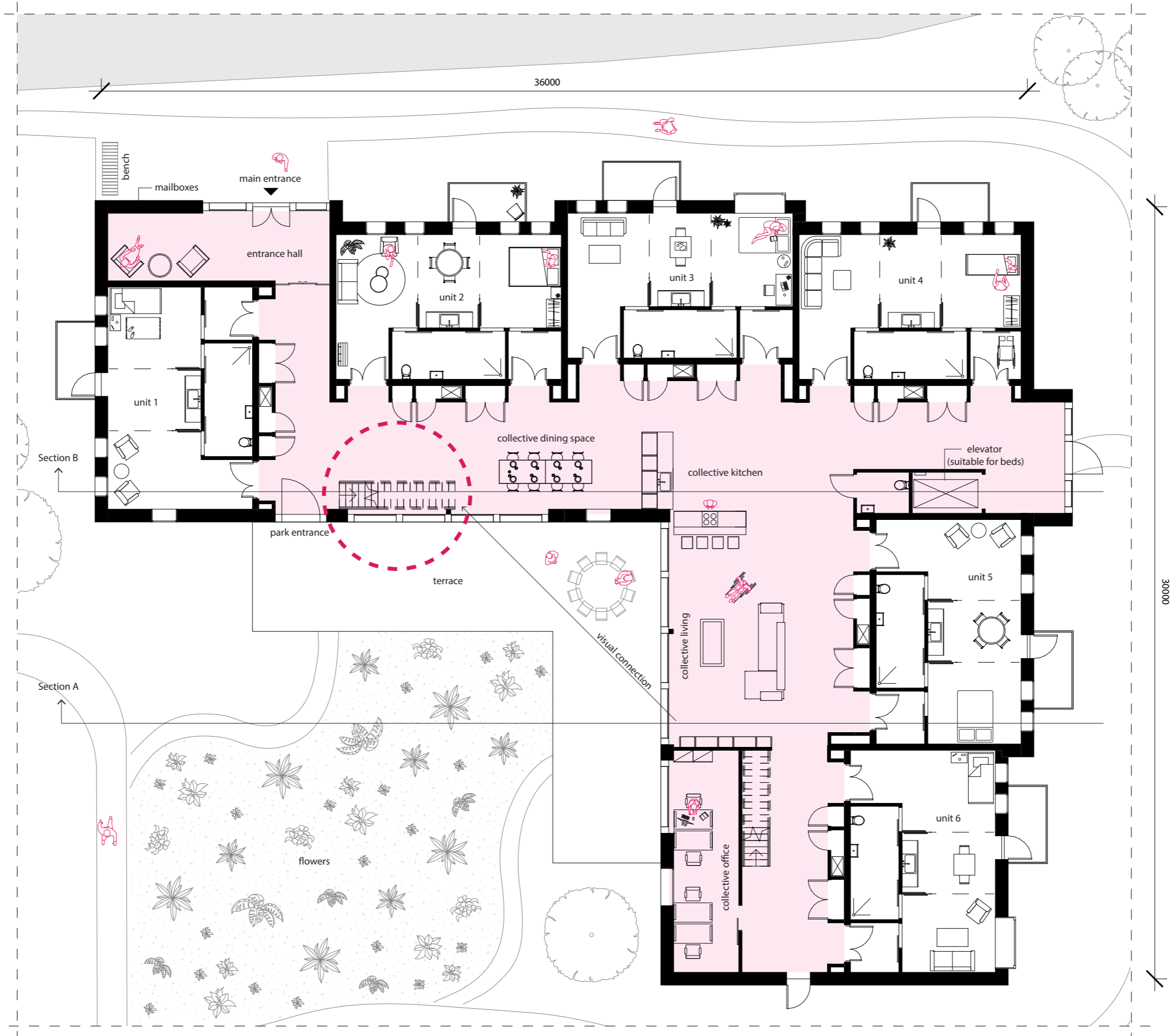
The collective living

Ground floor



The collective living

Ground floor



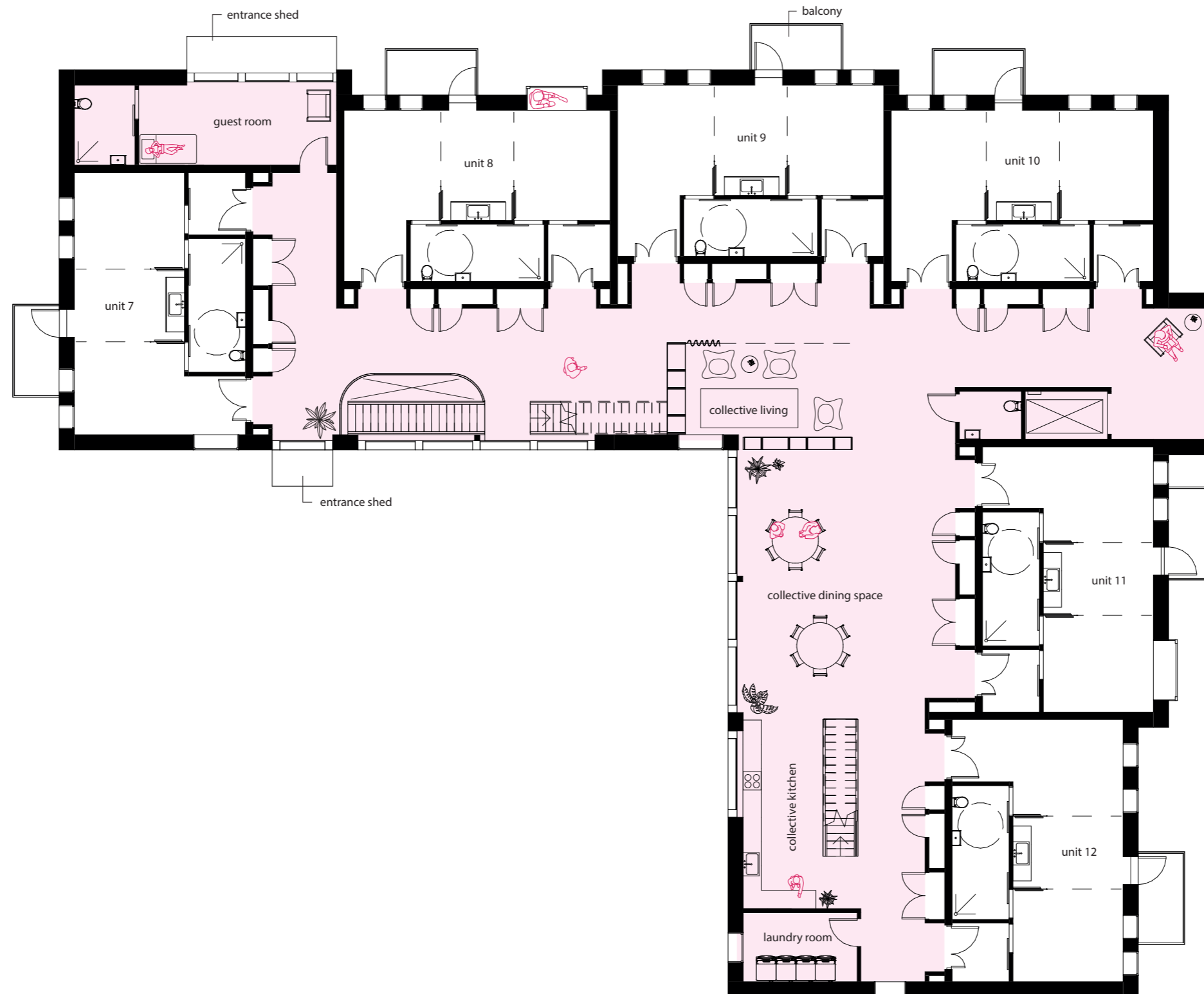
The collective living

Impression



The collective living

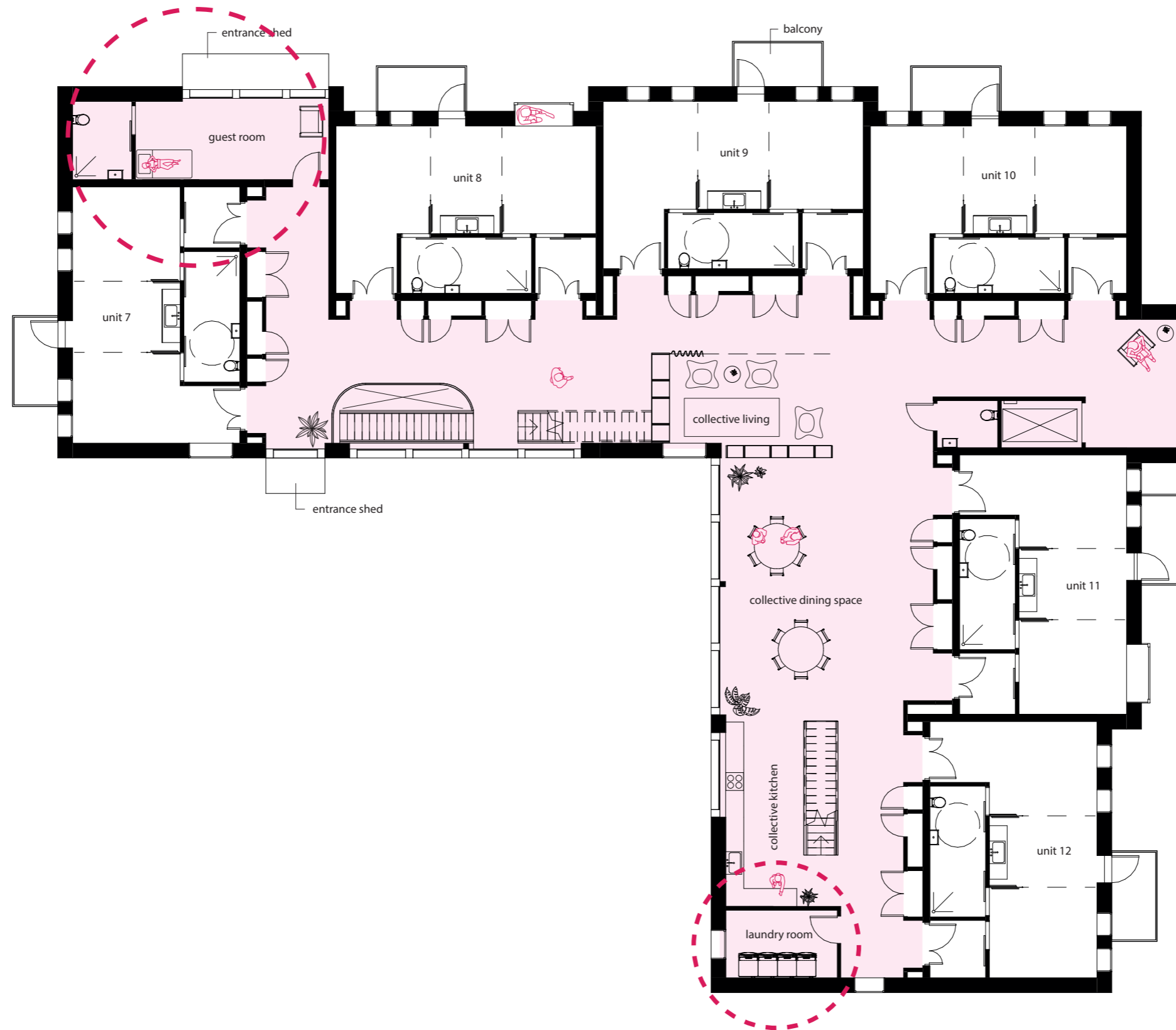
First floor



1 m

The collective living

First floor



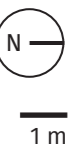
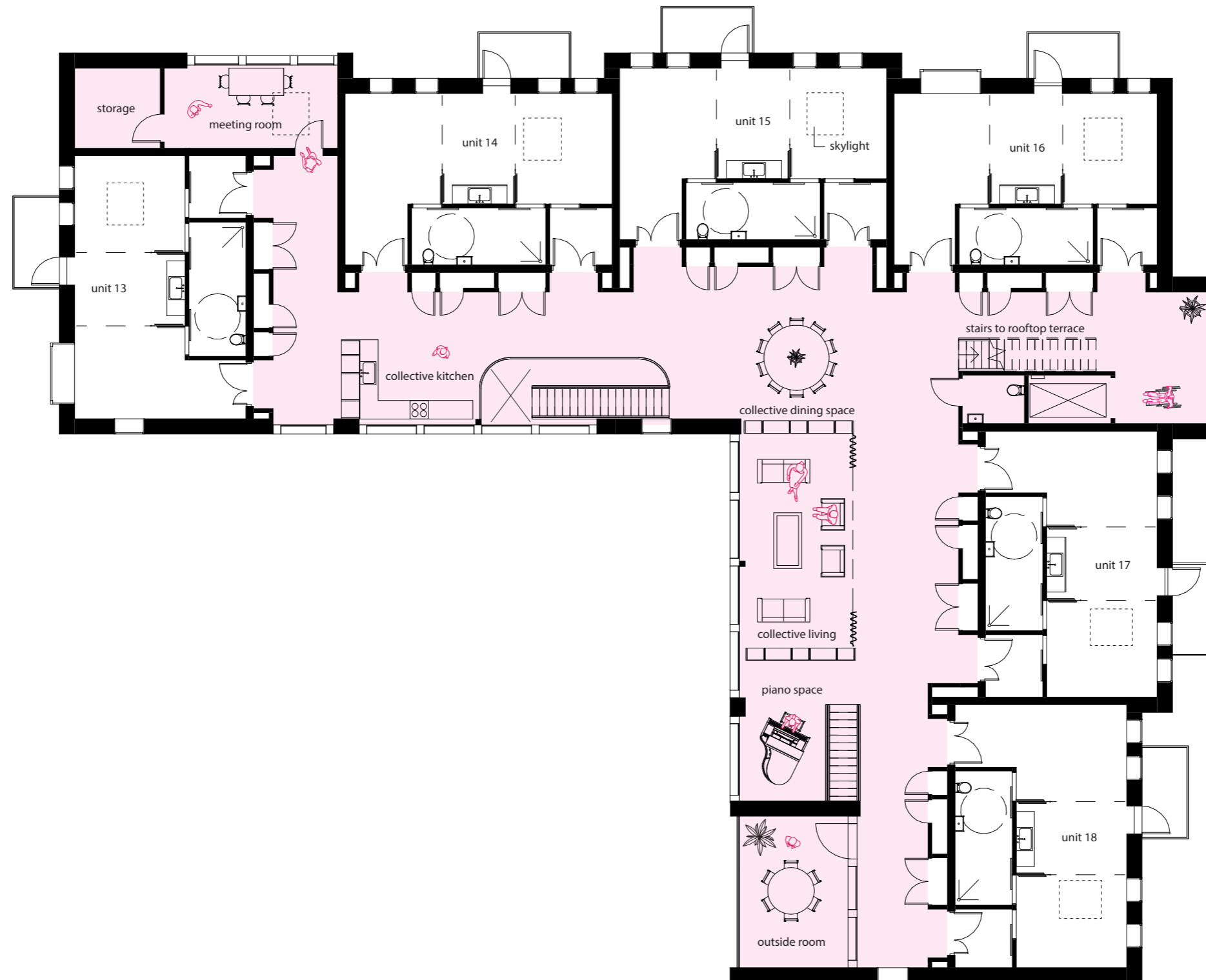
The collective living

Impression



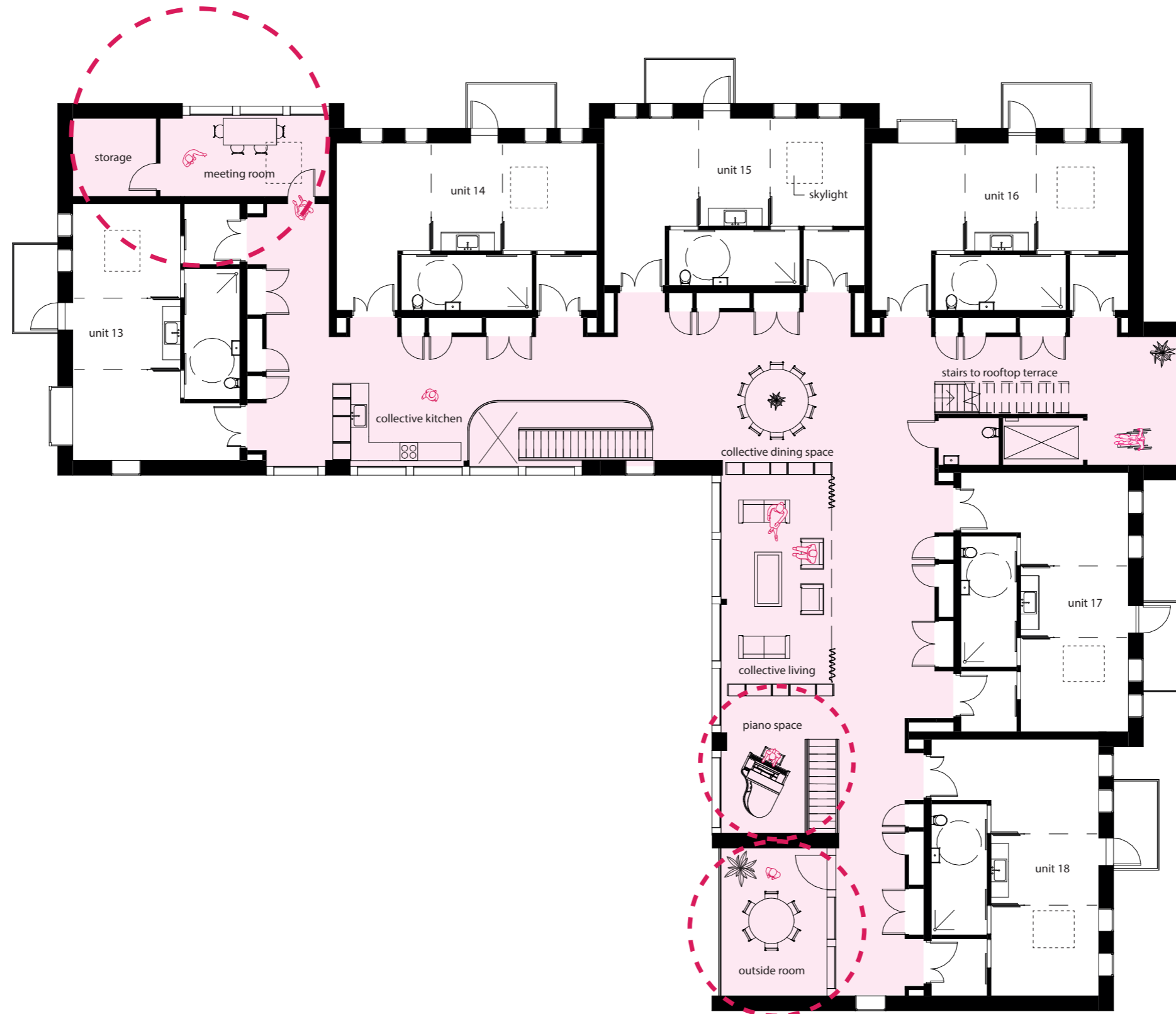
The collective living

Second floor



The collective living

Second floor



1 m

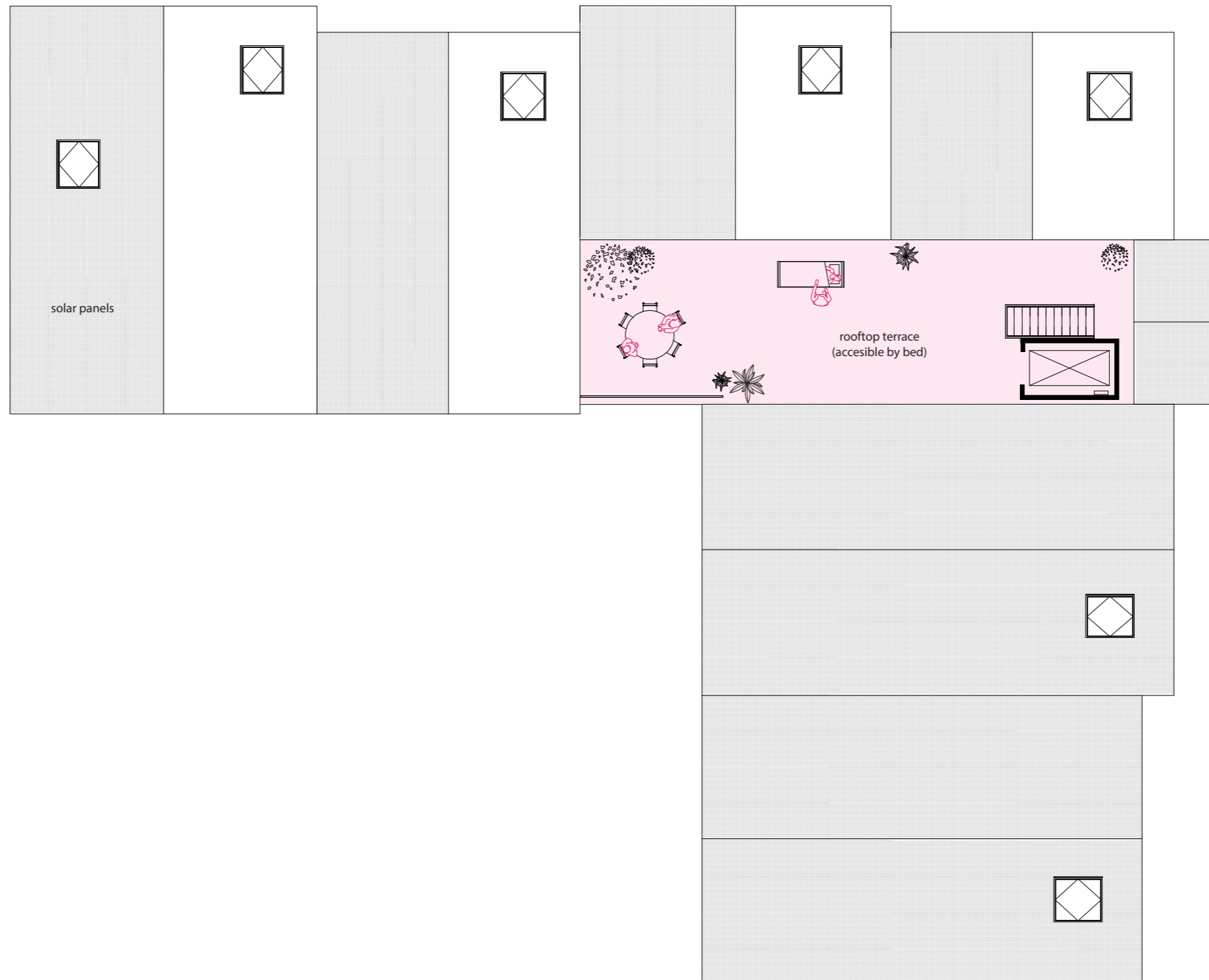
The collective living

Impression

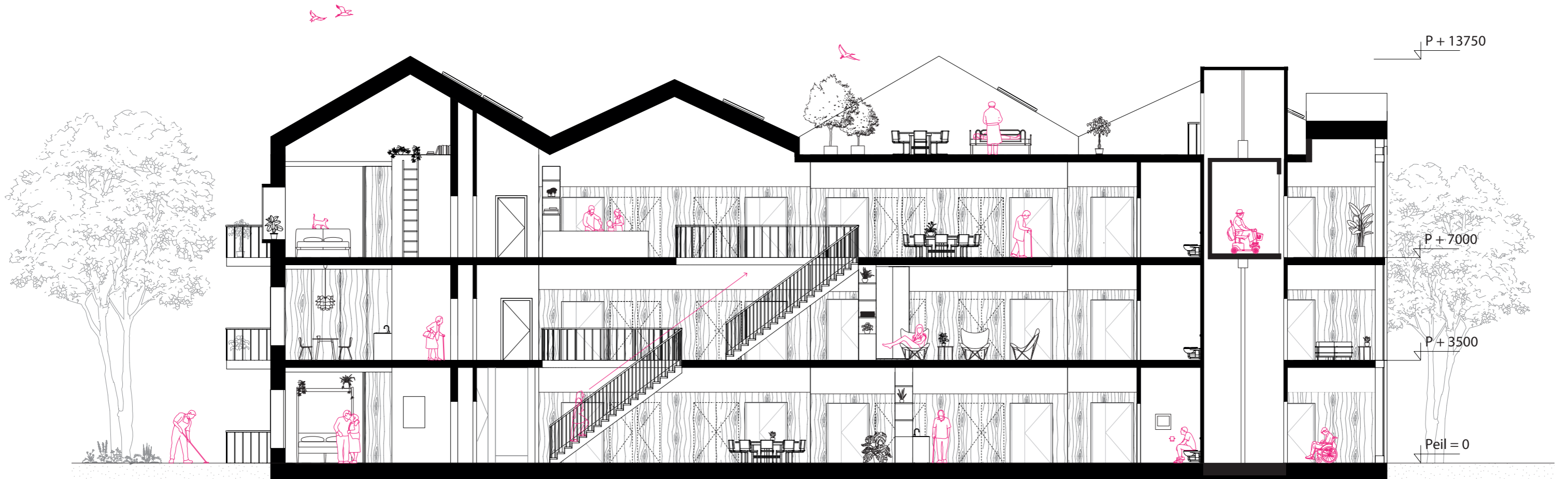


The collective living

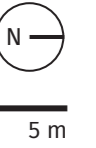
Rooftop terrace



Section B

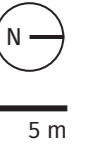
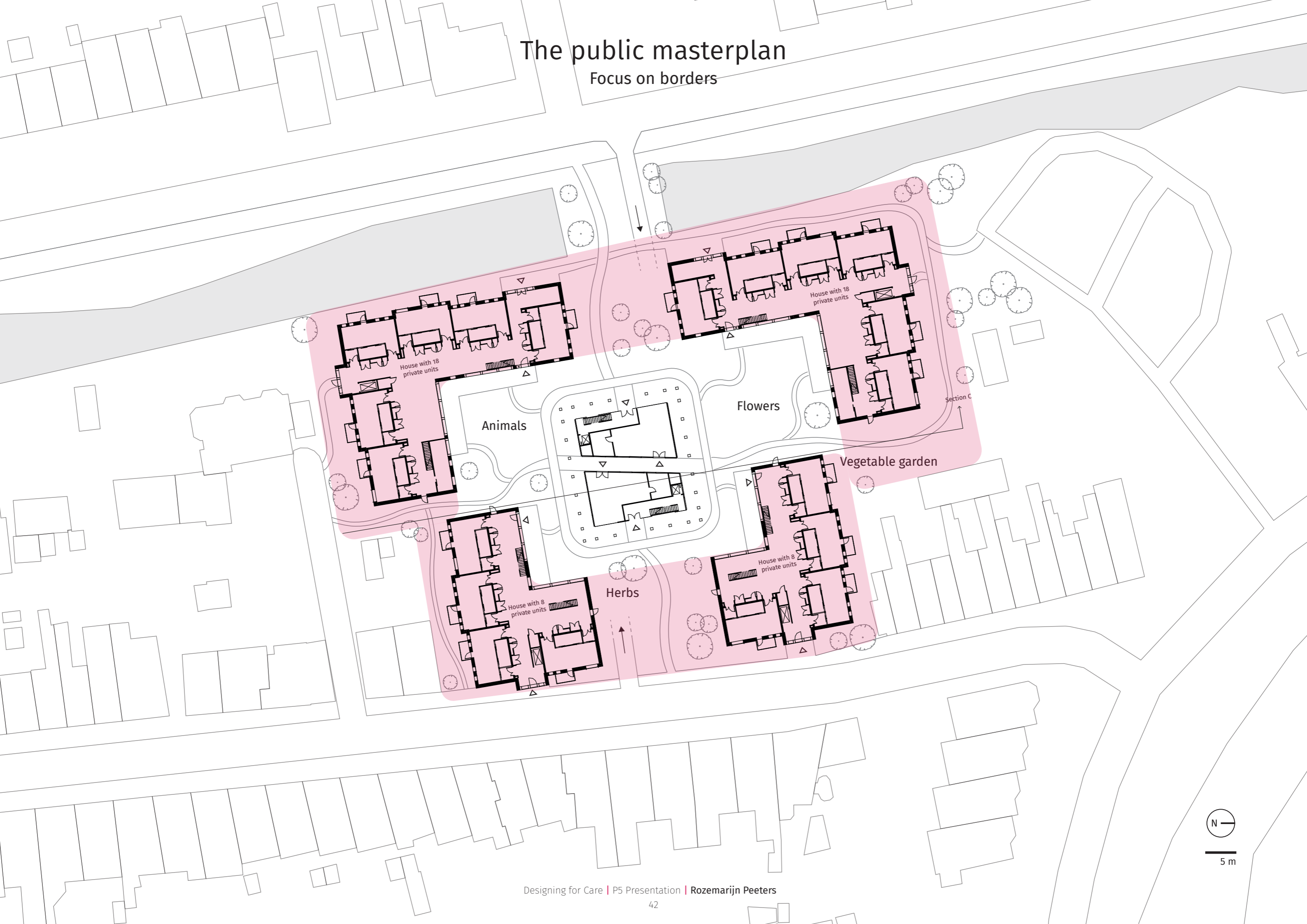


The public masterplan a healing park



The public masterplan

Focus on borders



The public masterplan

Opened up to the neighbourhood



The public masterplan




Sightlines



The public masterplan

Private - collective- public



-  = Public
-  = Collective
-  = Private



5 m

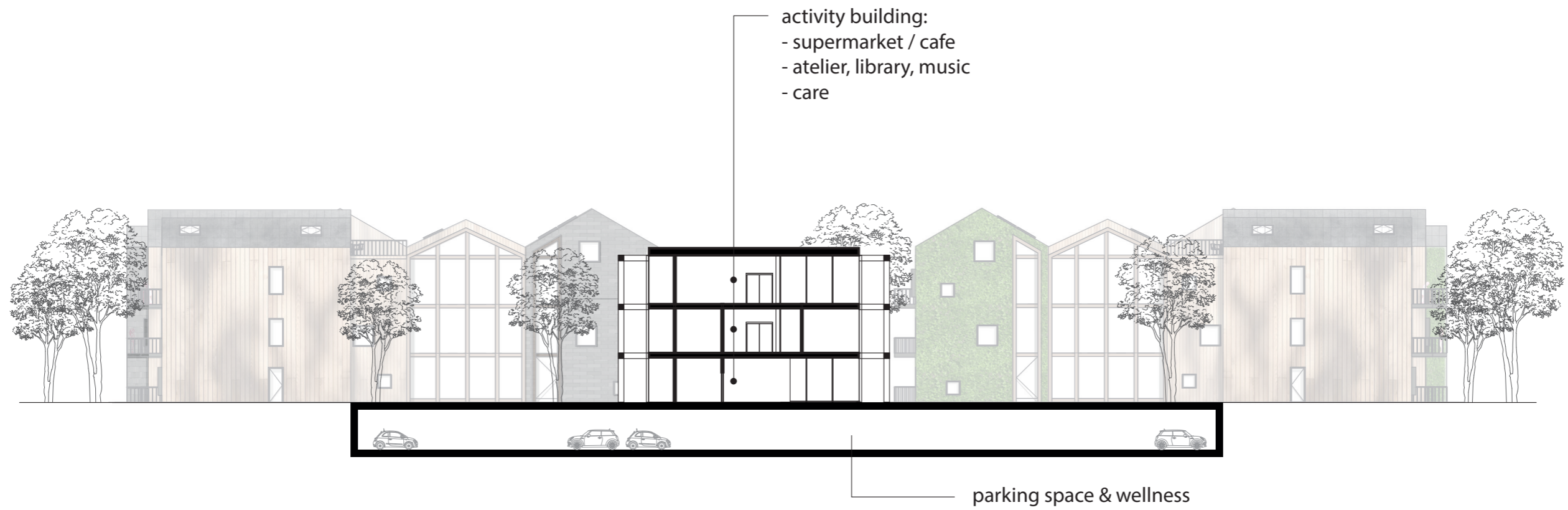
The masterplan

Impression



The masterplan

Section



The city

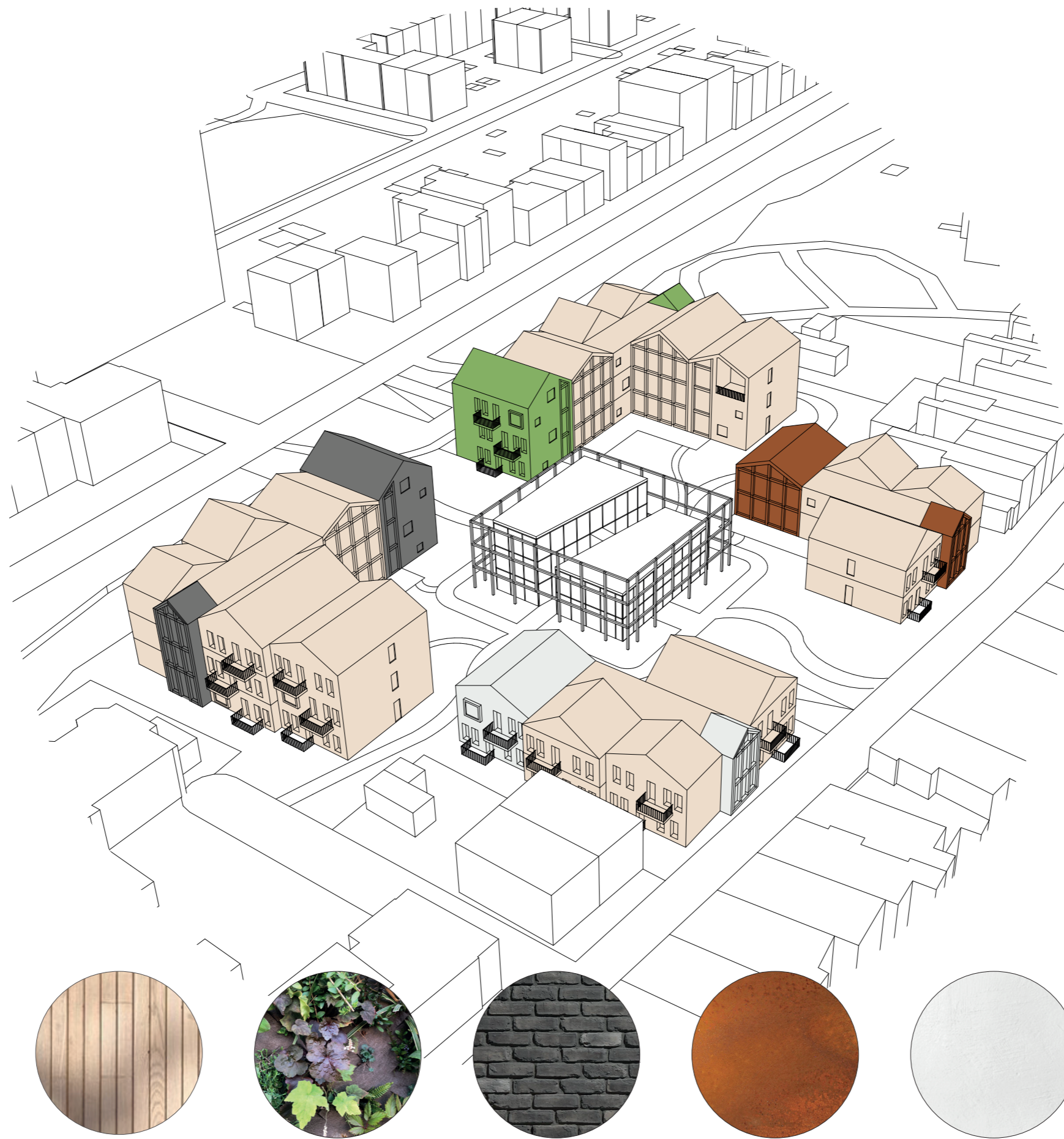
Leiden



50 m

Materials

Exterior



Elevations

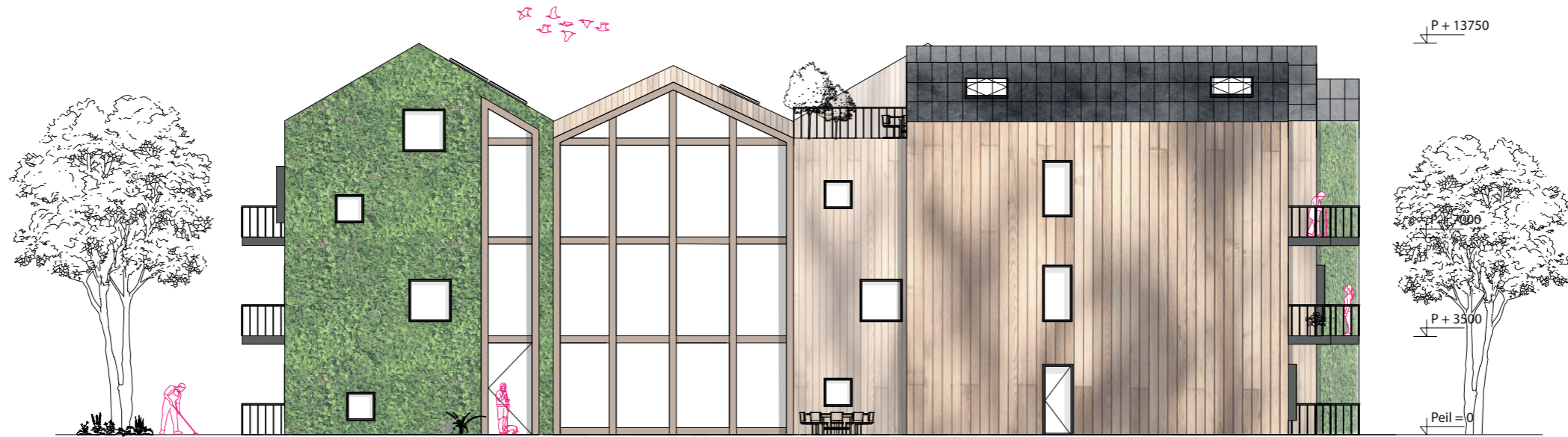


west elevation



north elevation

Elevations



east elevation



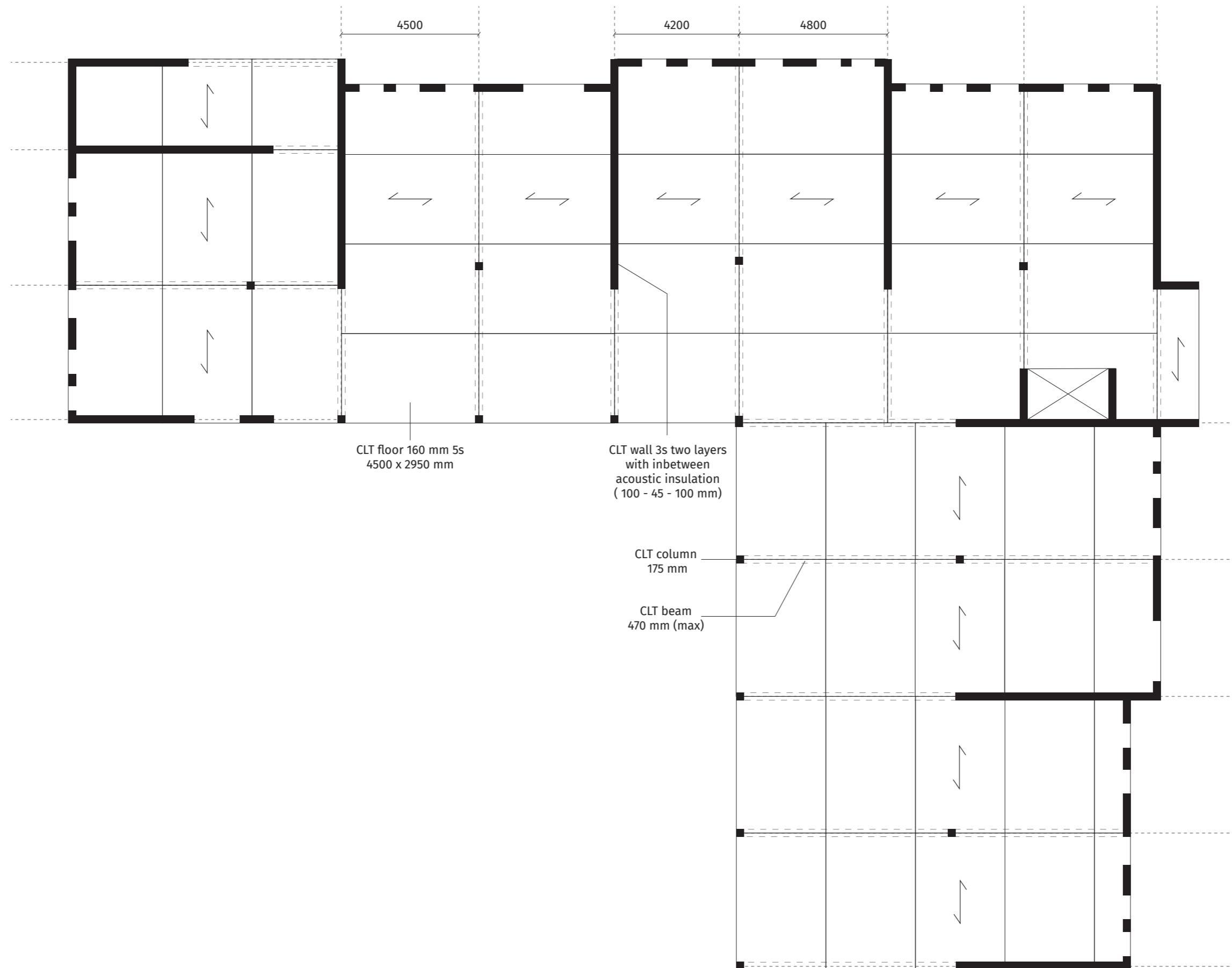
south elevation

Materials

Impression



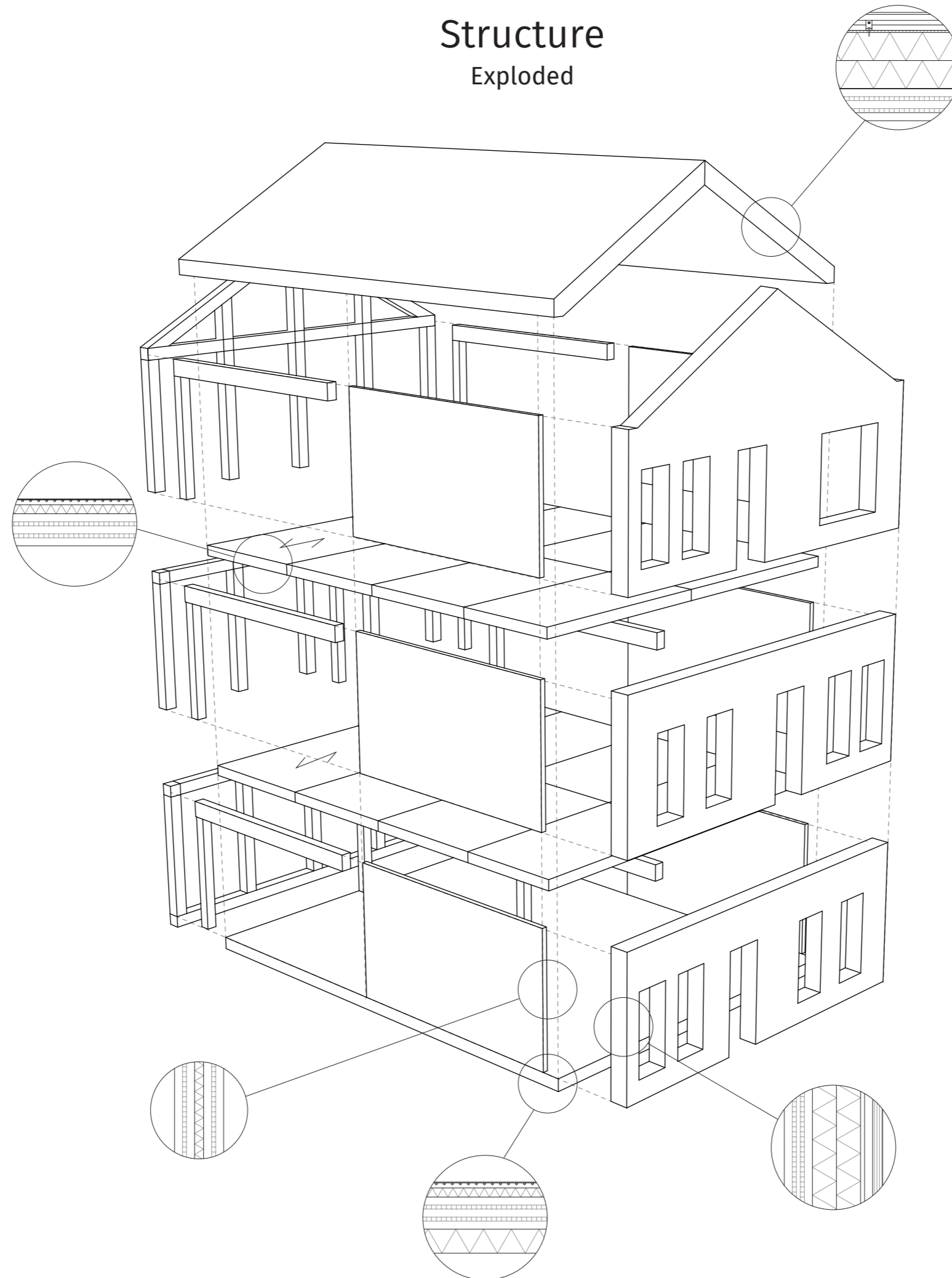
Structure in floorplan



1m

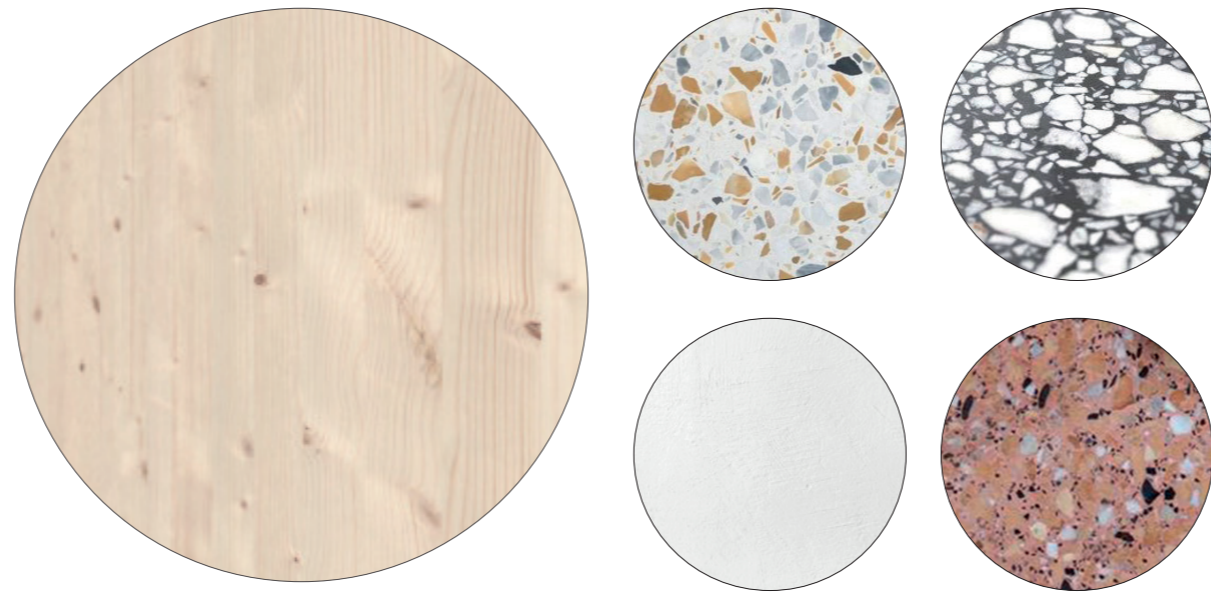
Structure

Exploded



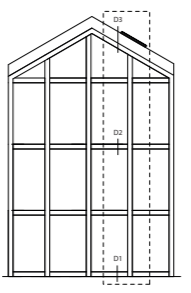
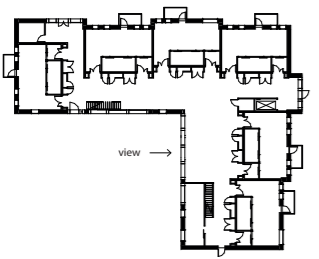
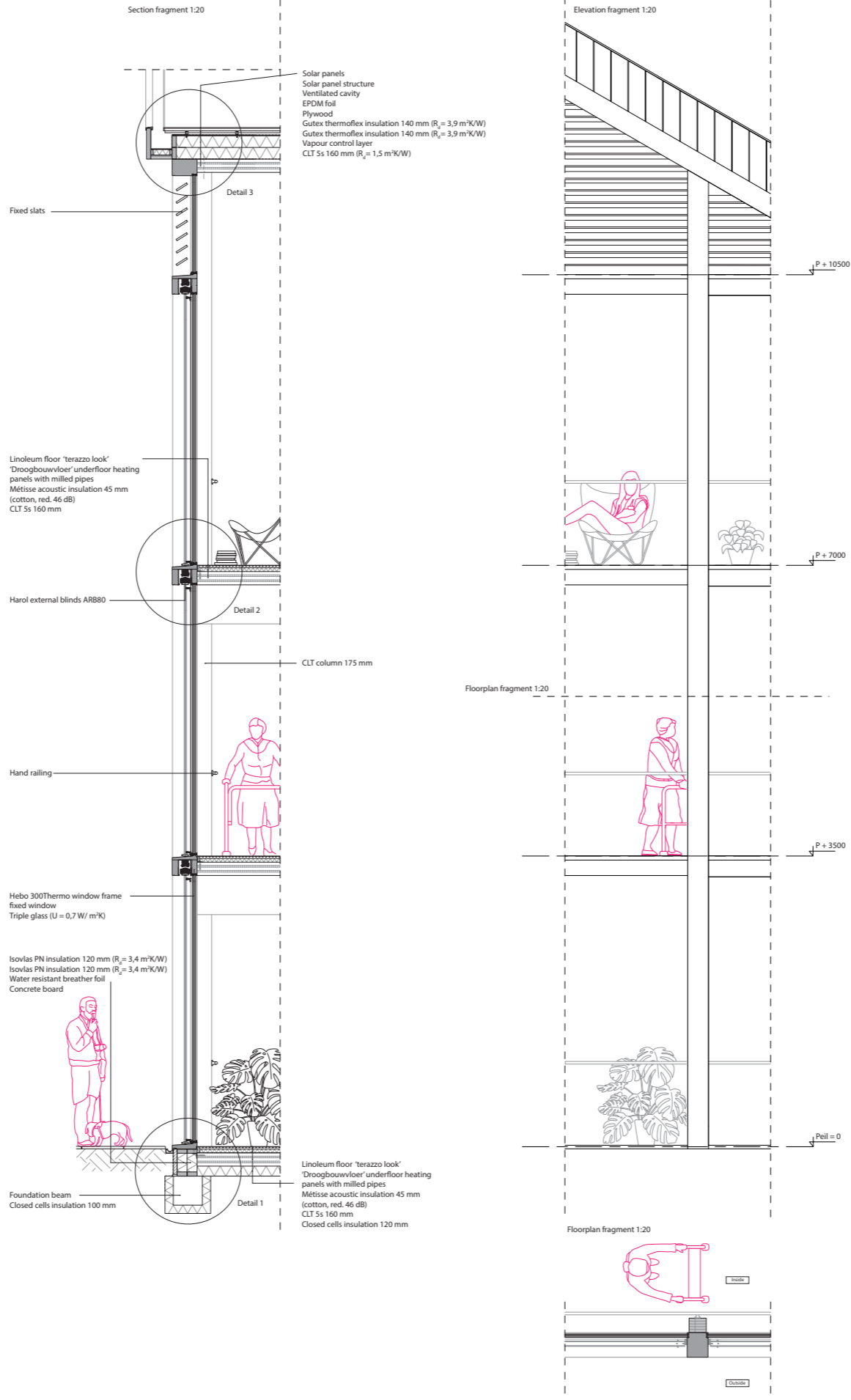
Materials

Interior



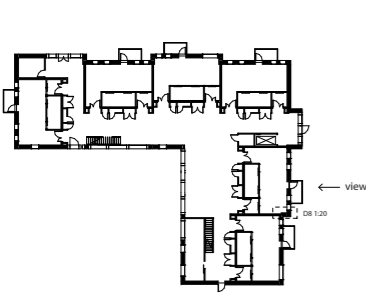
Facade fragment

Collective side

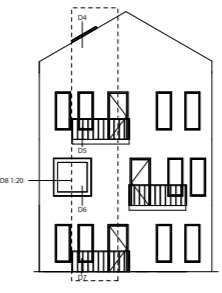


Facade fragment

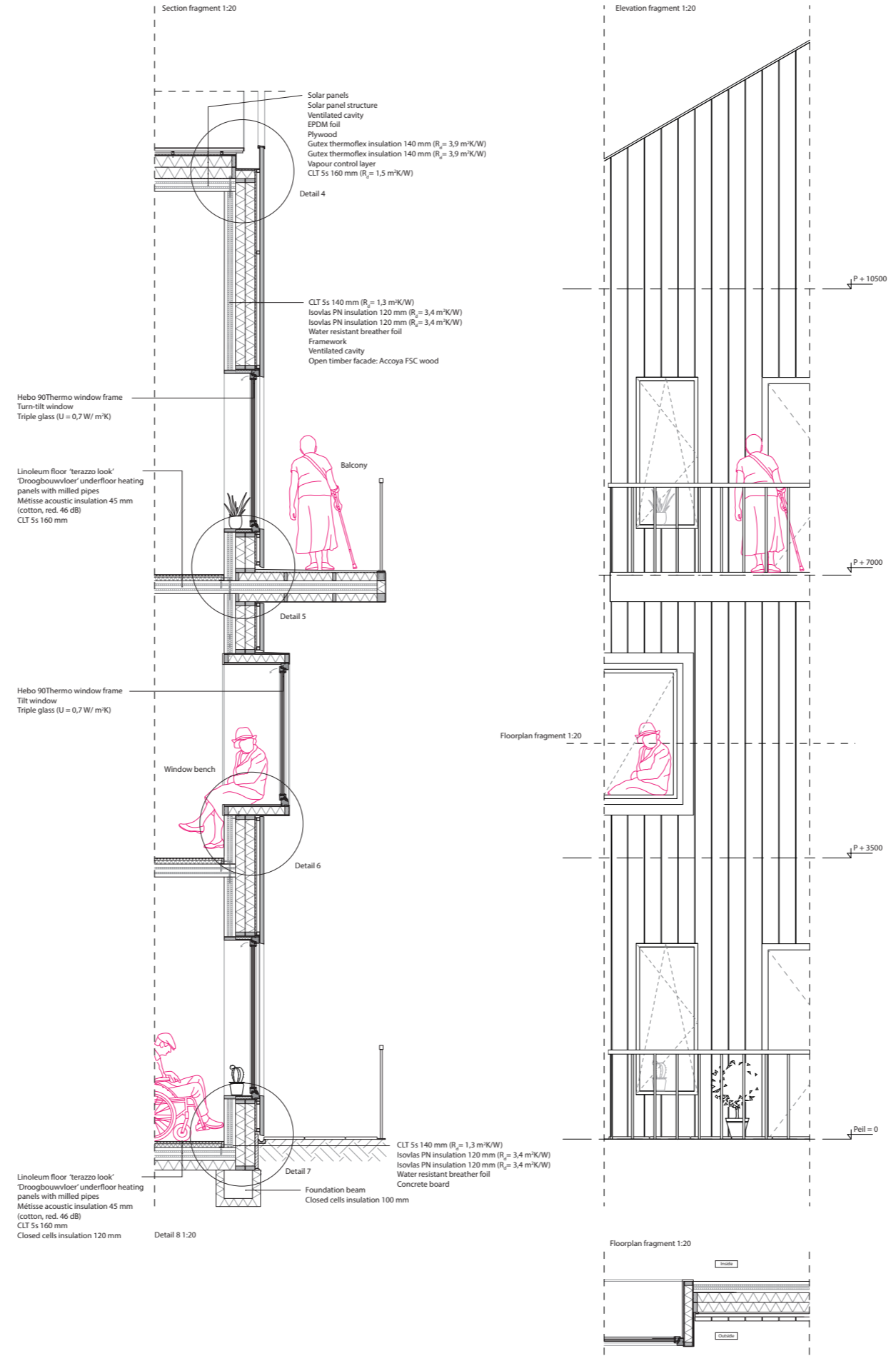
Private side



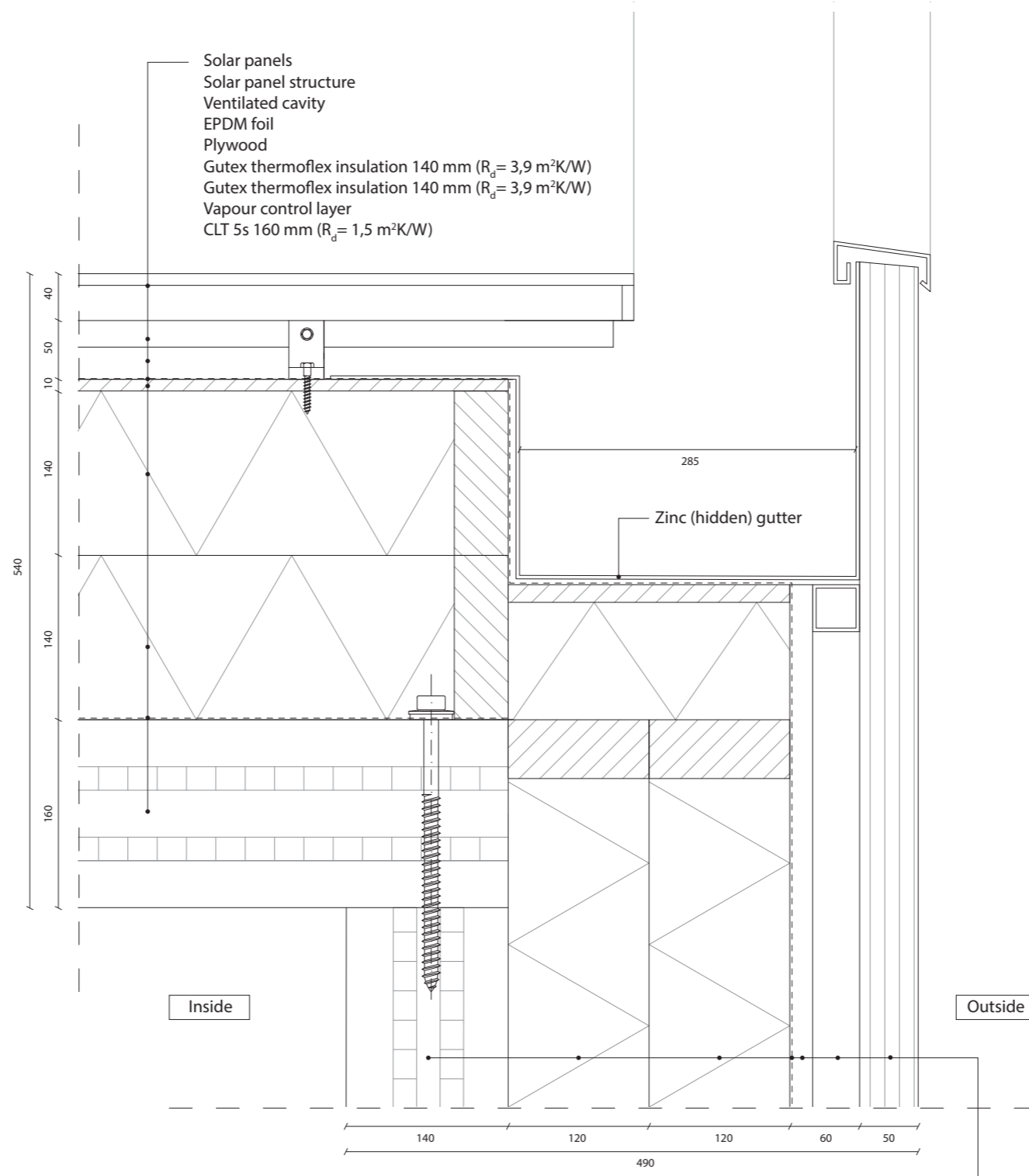
Floorplan 1:500



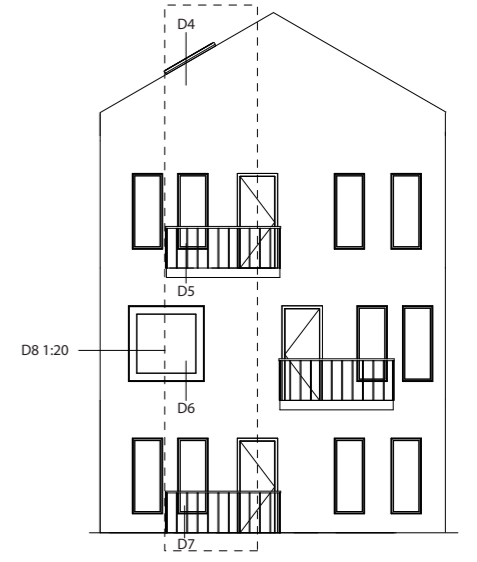
Elevation 1:200



Detail 4

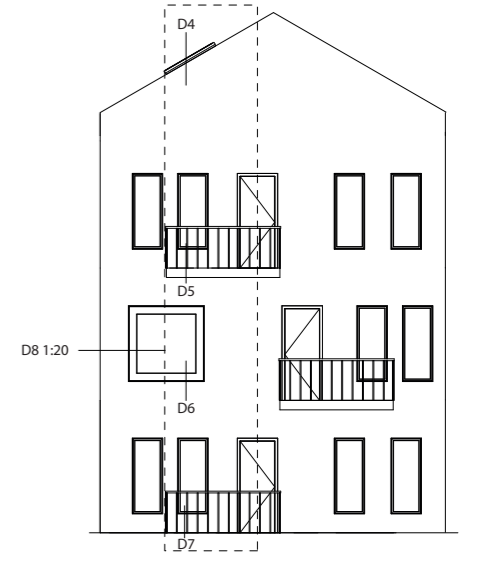
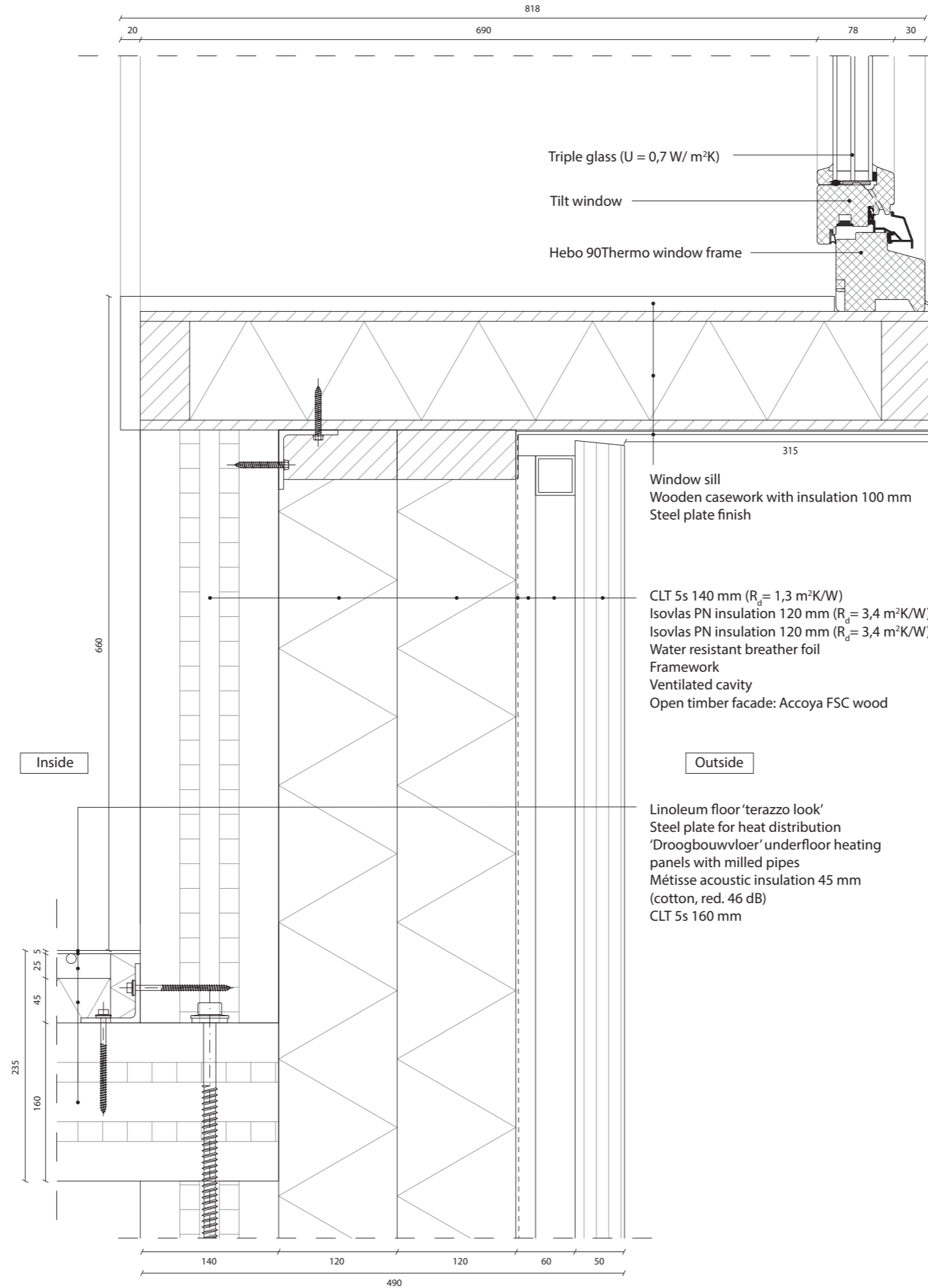


CLT 5s 140 mm ($R_d = 1,3 \text{ m}^2\text{K/W}$)
 Isovlas PN insulation 120 mm ($R_d = 3,4 \text{ m}^2\text{K/W}$)
 Isovlas PN insulation 120 mm ($R_d = 3,4 \text{ m}^2\text{K/W}$)
 Water resistant breather foil
 Framework
 Ventilated cavity
 Open timber facade: Accoya FSC wood



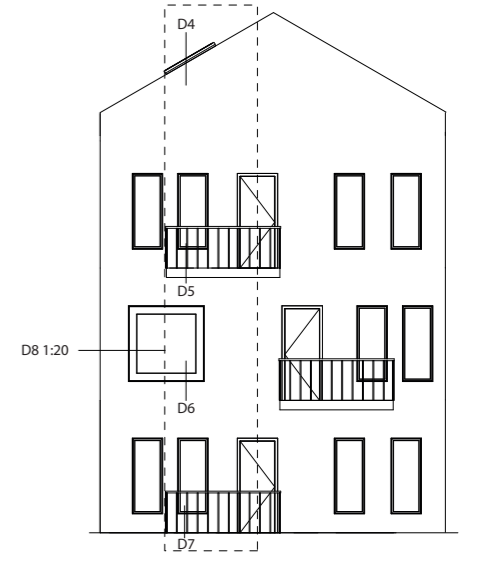
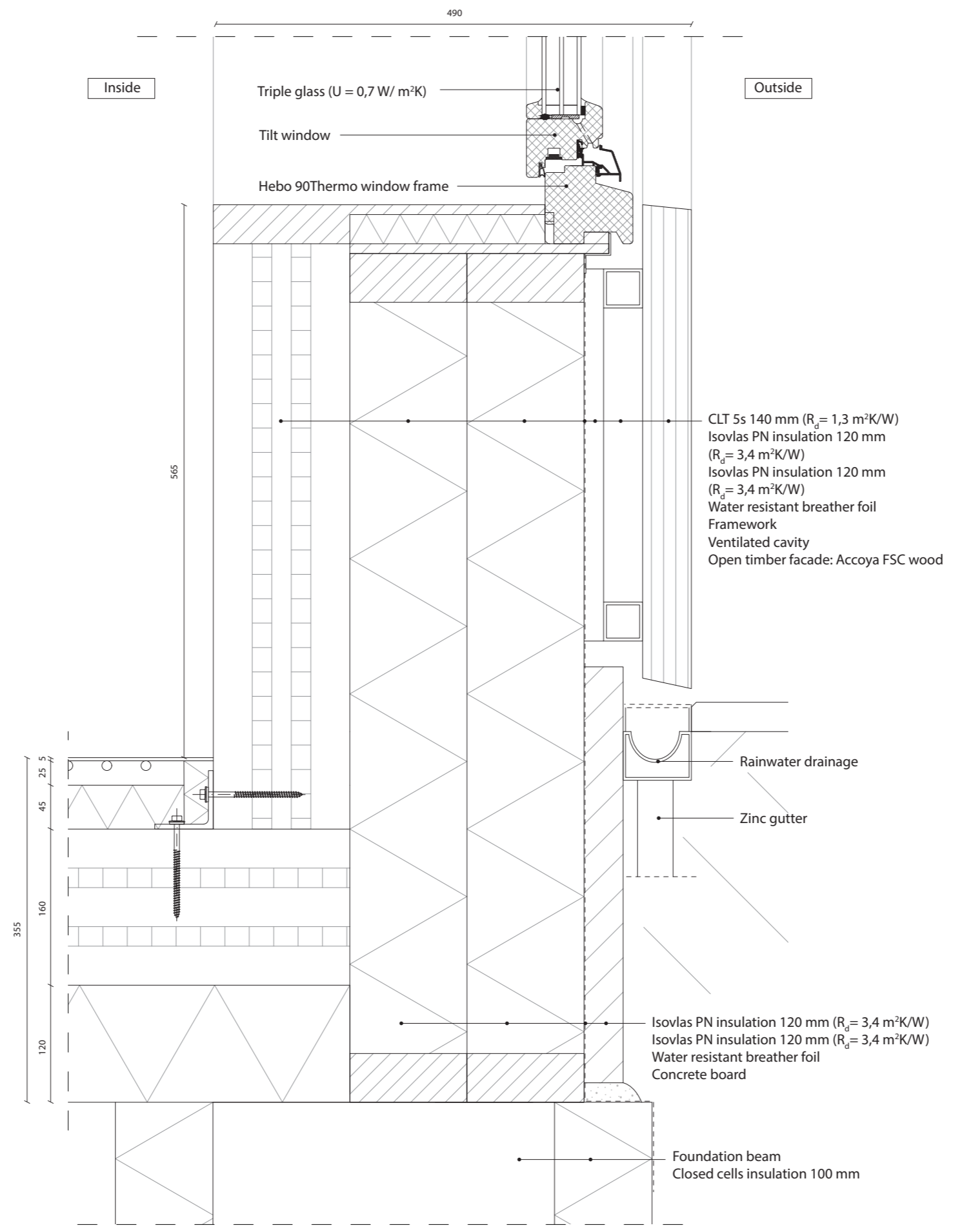
Elevation 1:200

Detail 6



Elevation 1:200

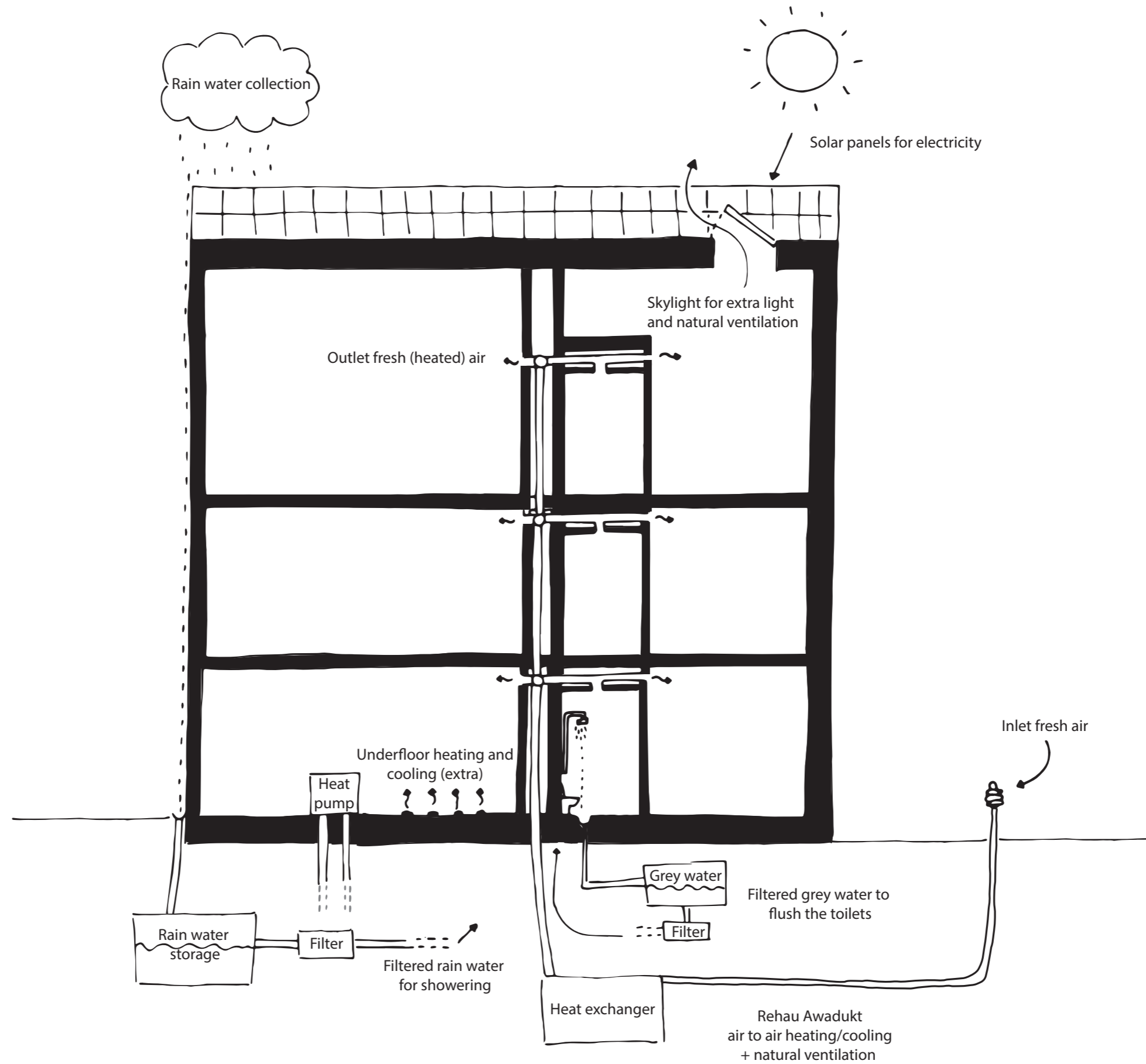
Detail 7



Elevation 1:200

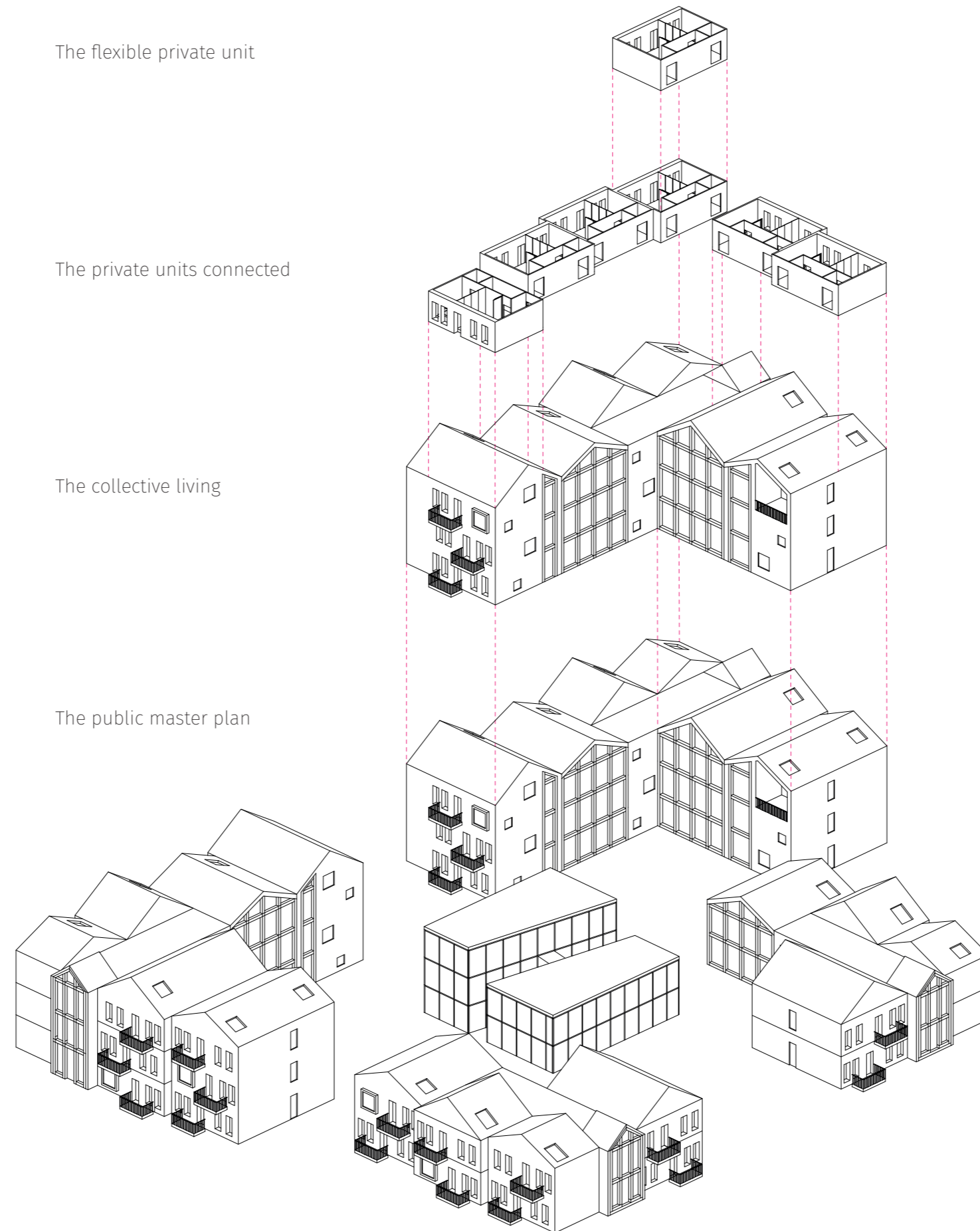
Climate and installations

Scheme



The Plan

Towards a dementia proof society

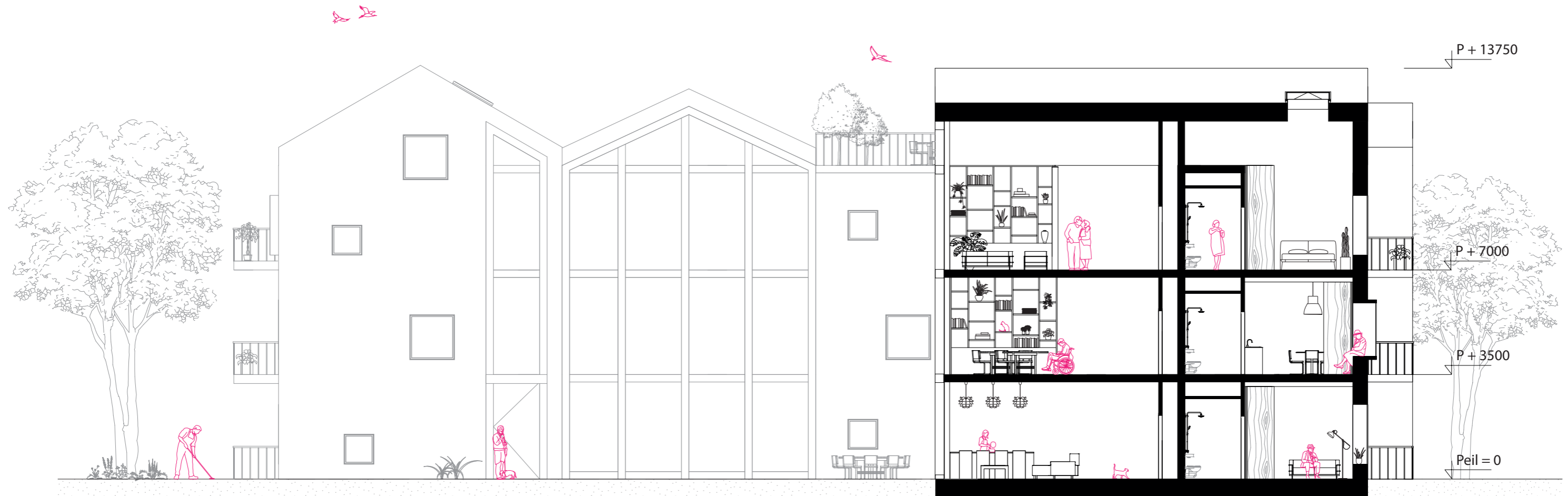




Thank you for your attention.

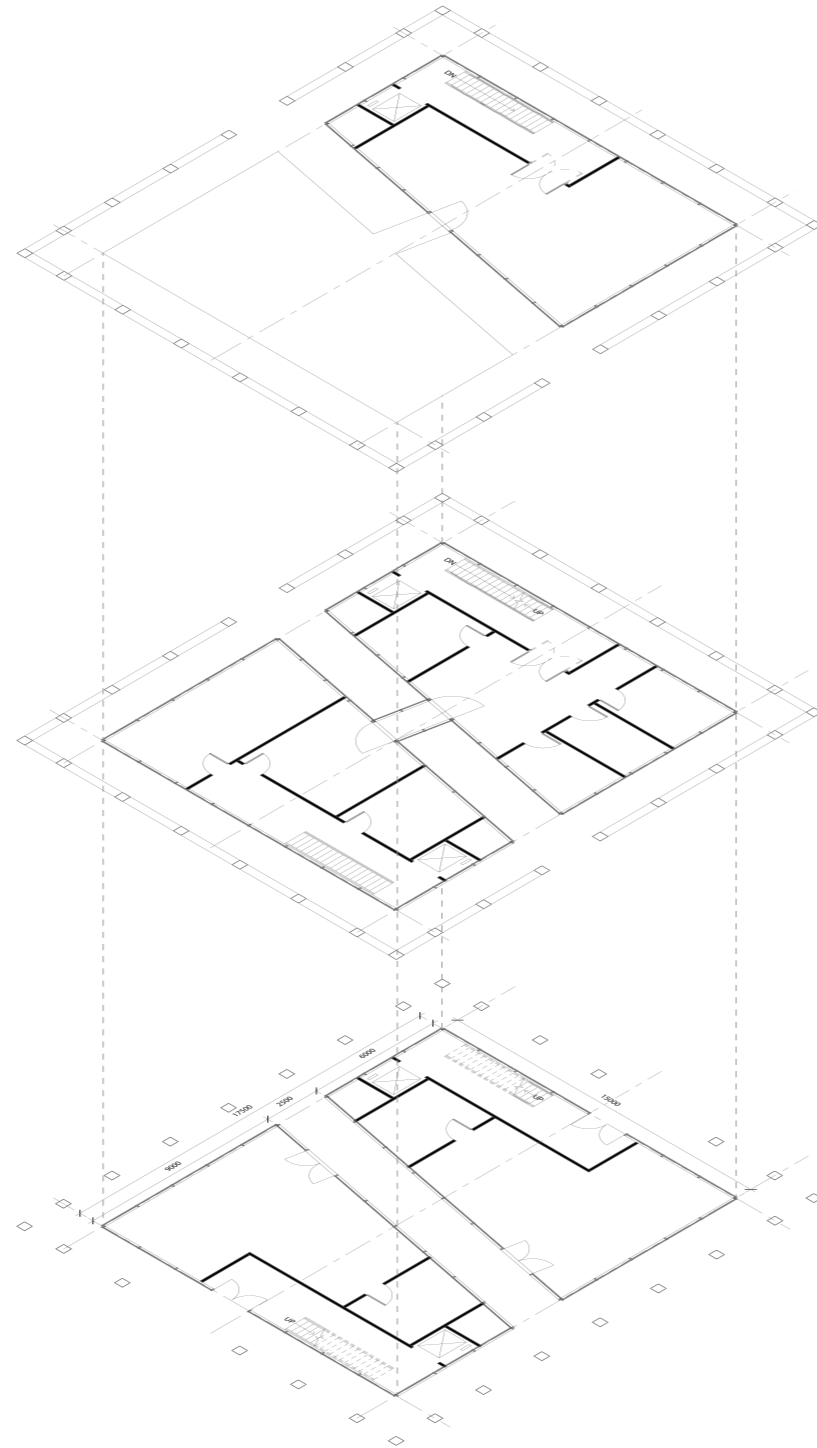
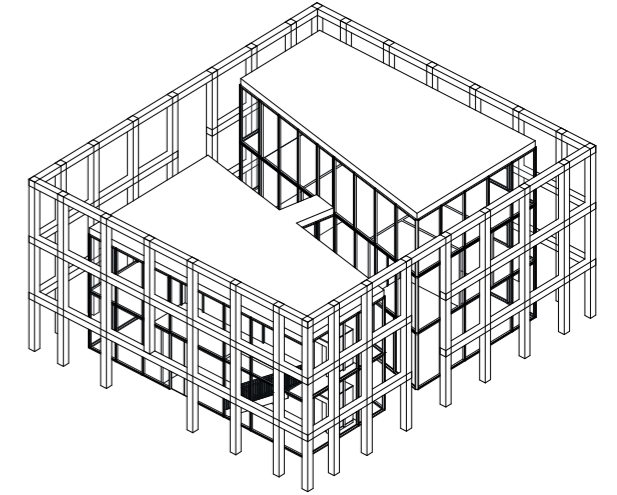
Questions?

Section A



Activity building

Community centre

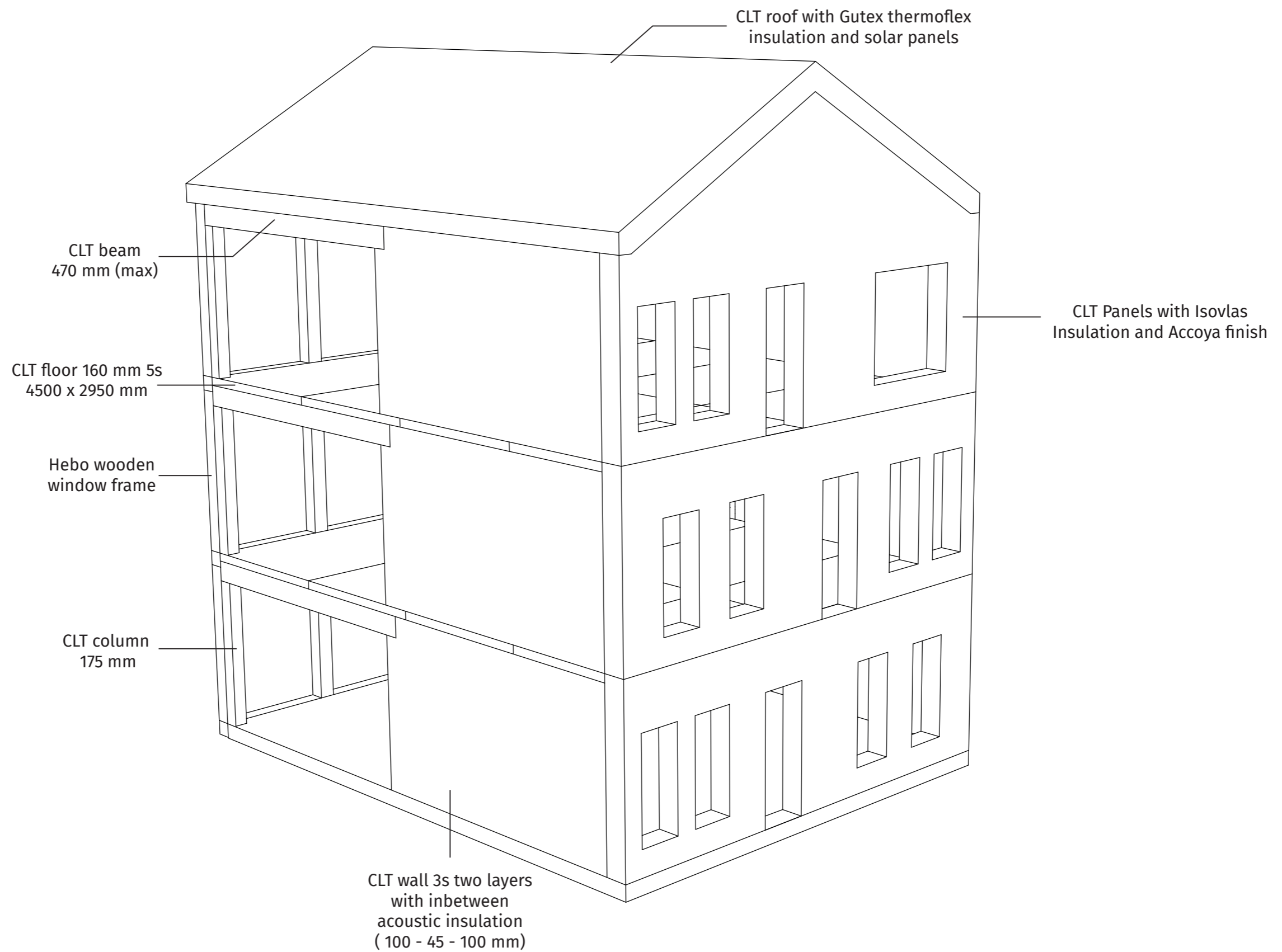


Floor +02:
- Extra care space 82 m²

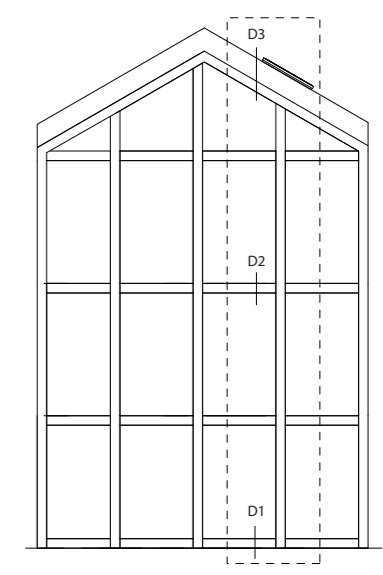
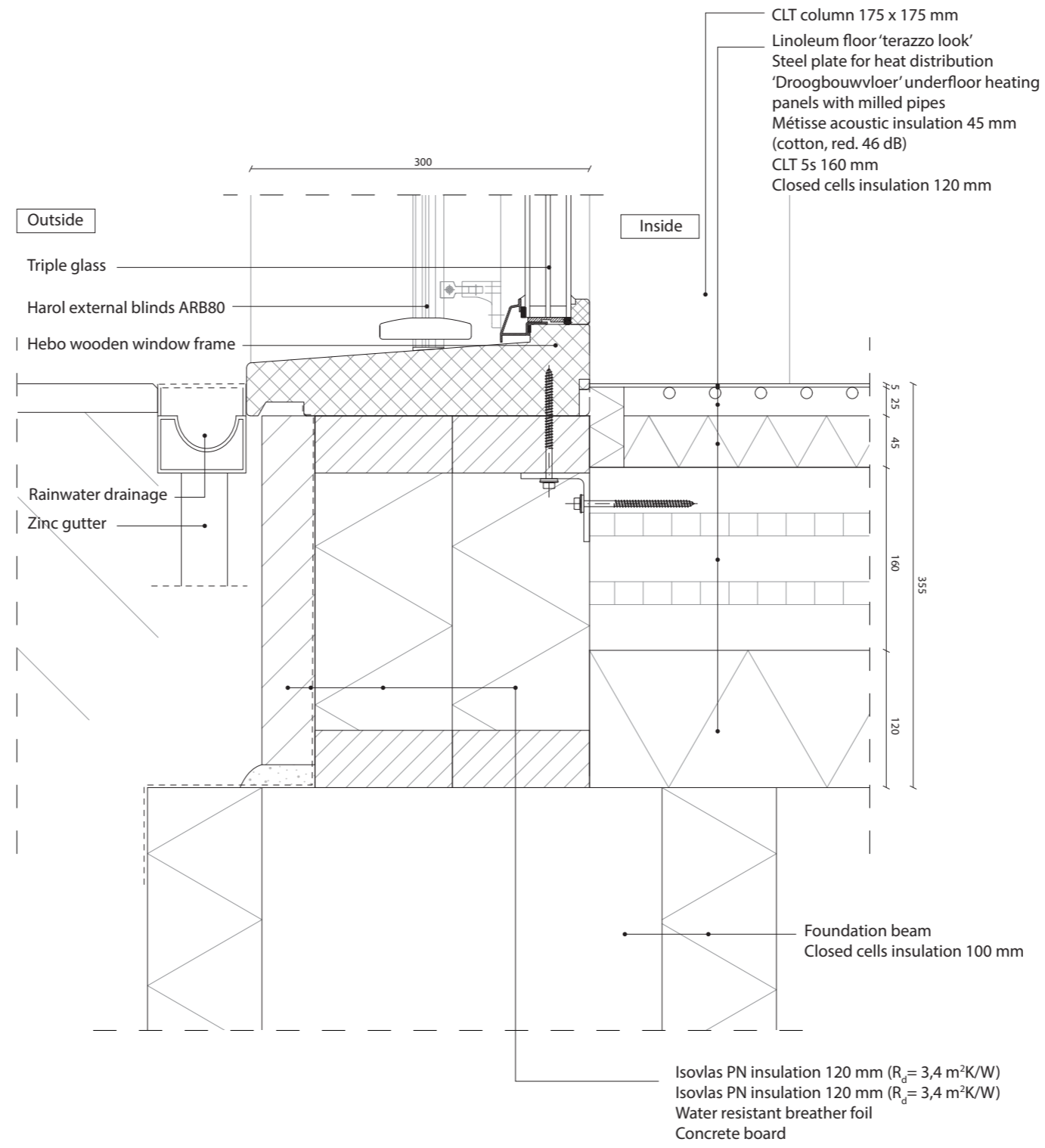
Floor +01:
- Care space 82 m²
- Library 15 m²
- Atelier 36 m²
- Music space 25 m²

Floor 00:
- Cafe 82 m²
- AH to Go 82 m²

Structure

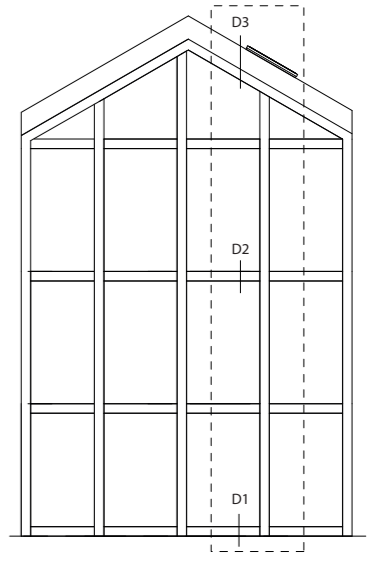
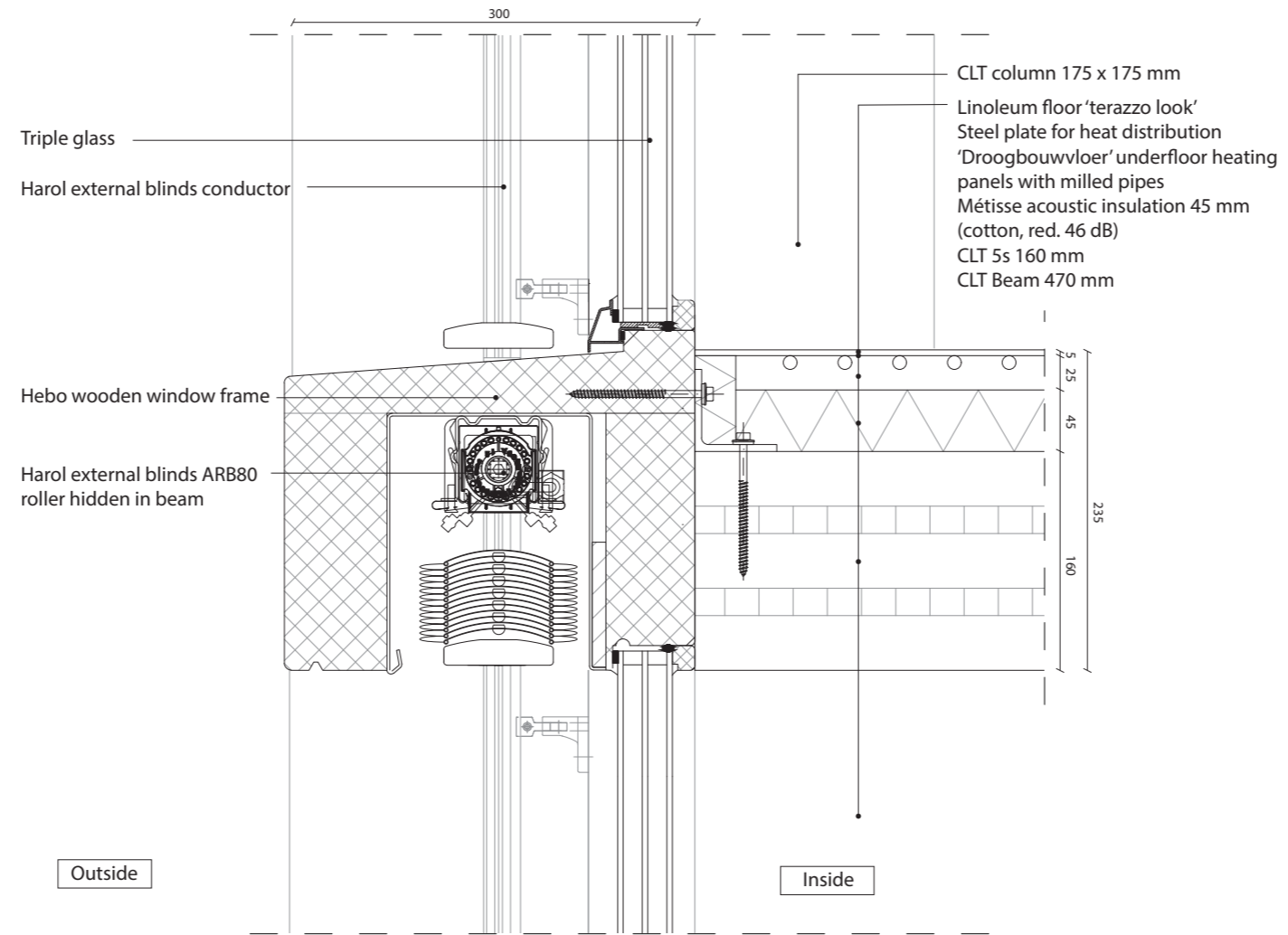


Detail 1



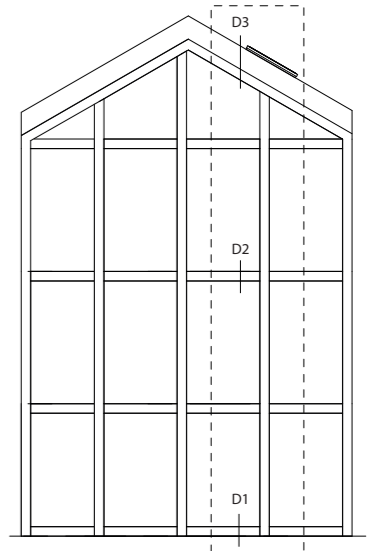
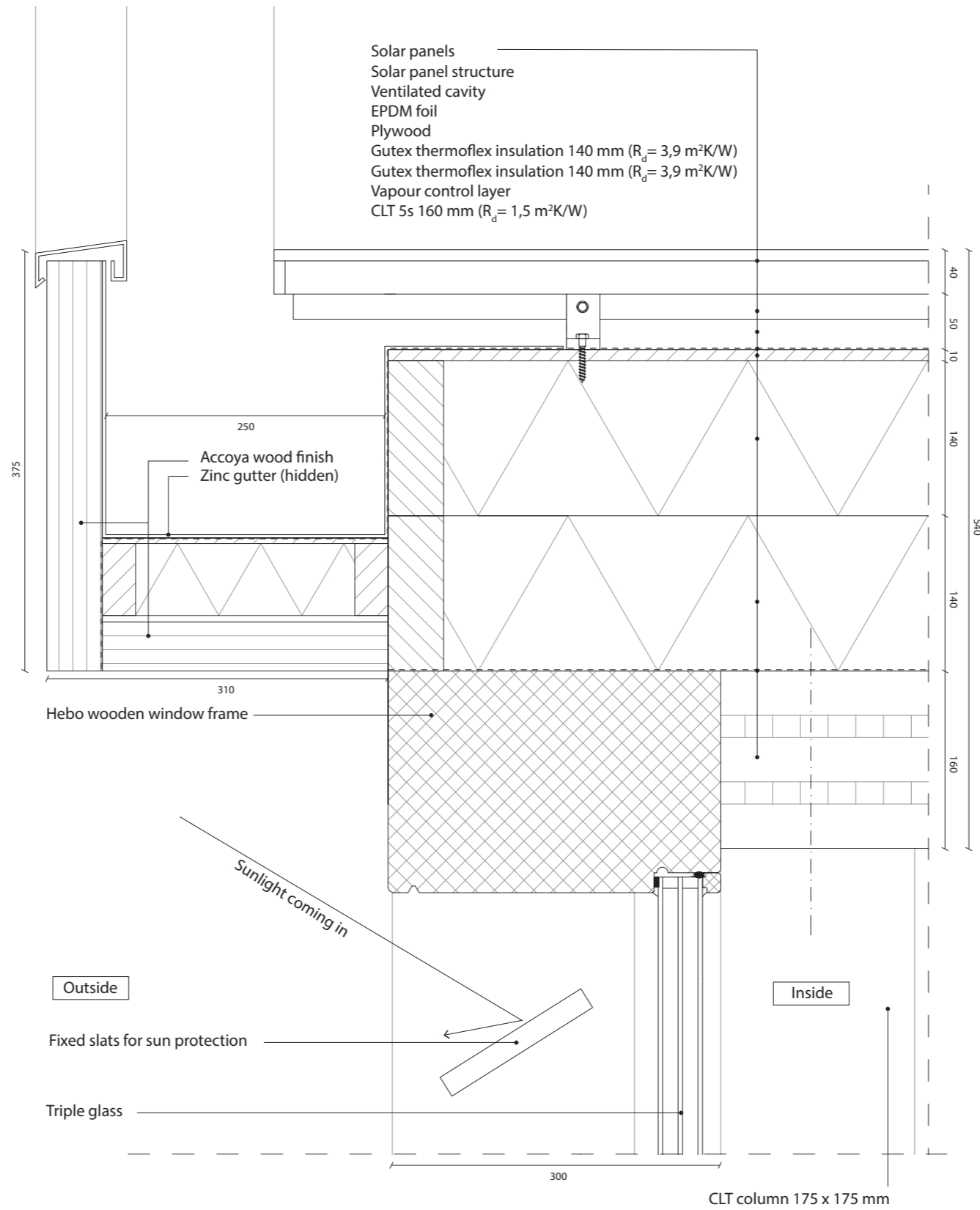
Elevation 1:200

Detail 2



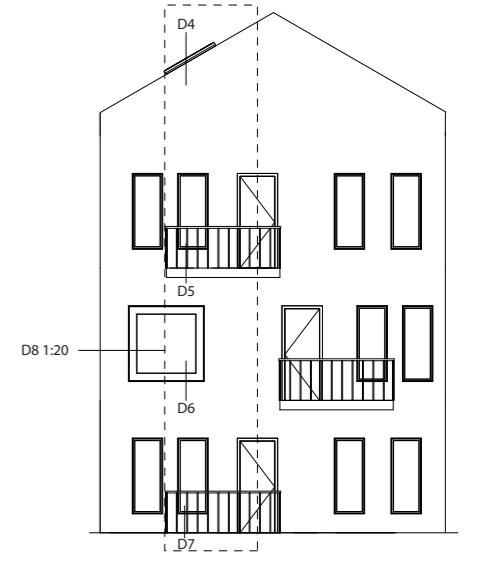
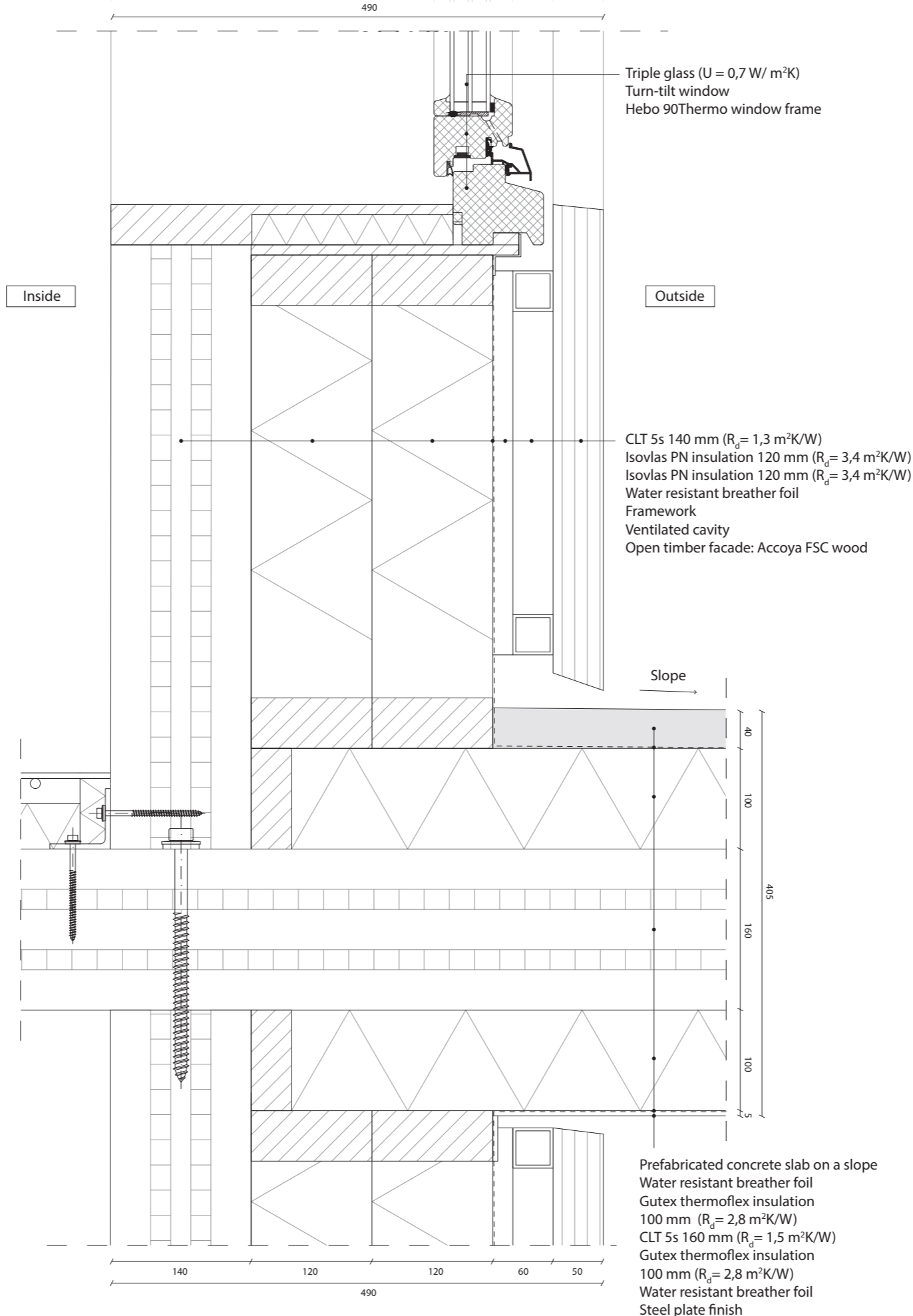
Elevation 1:200

Detail 3



Elevation 1:200

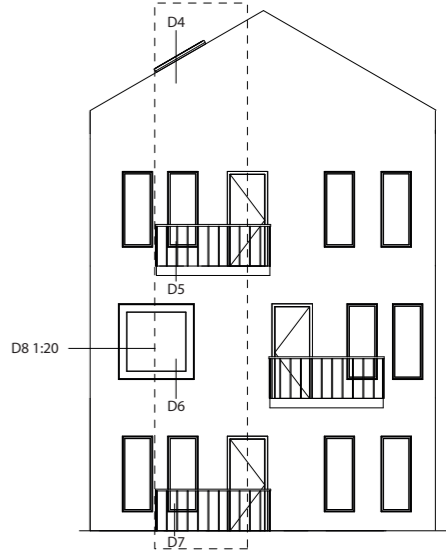
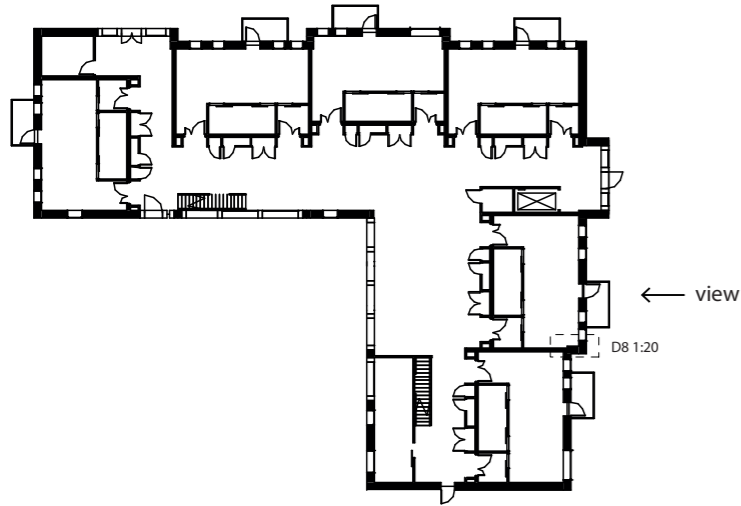
Detail 5



Elevation 1:200

Detail 8

Scale 1:20



Elevation 1:200

