



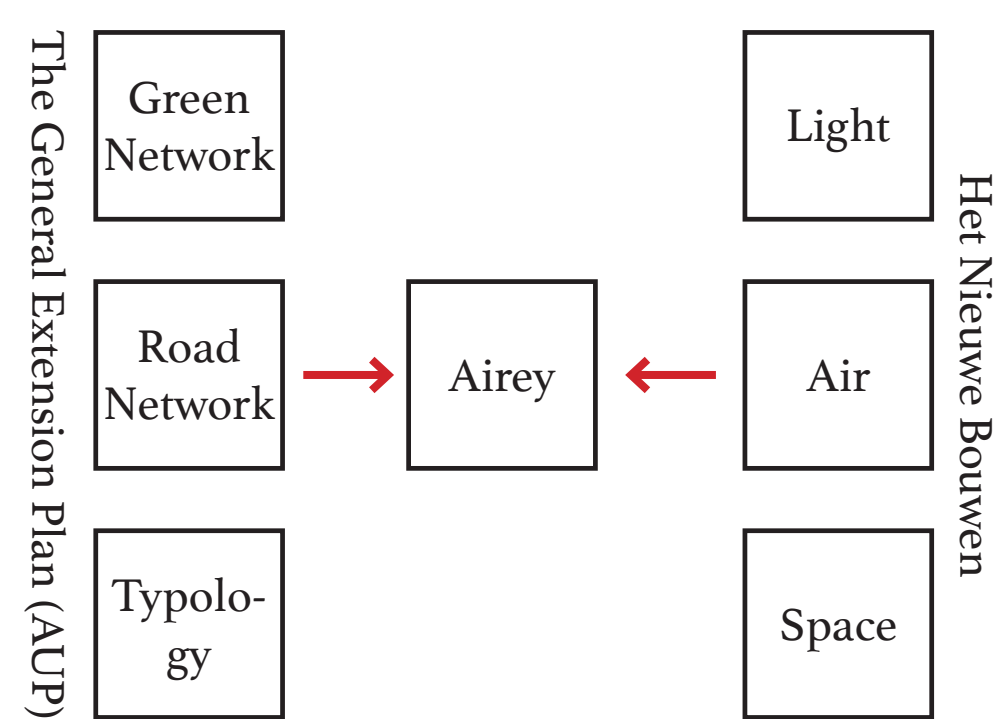
# THE RENOVATION OF AIREY BLOCKS IN AMSTERDAM WEST

The New Interpretation of 'Light, Air and Space'

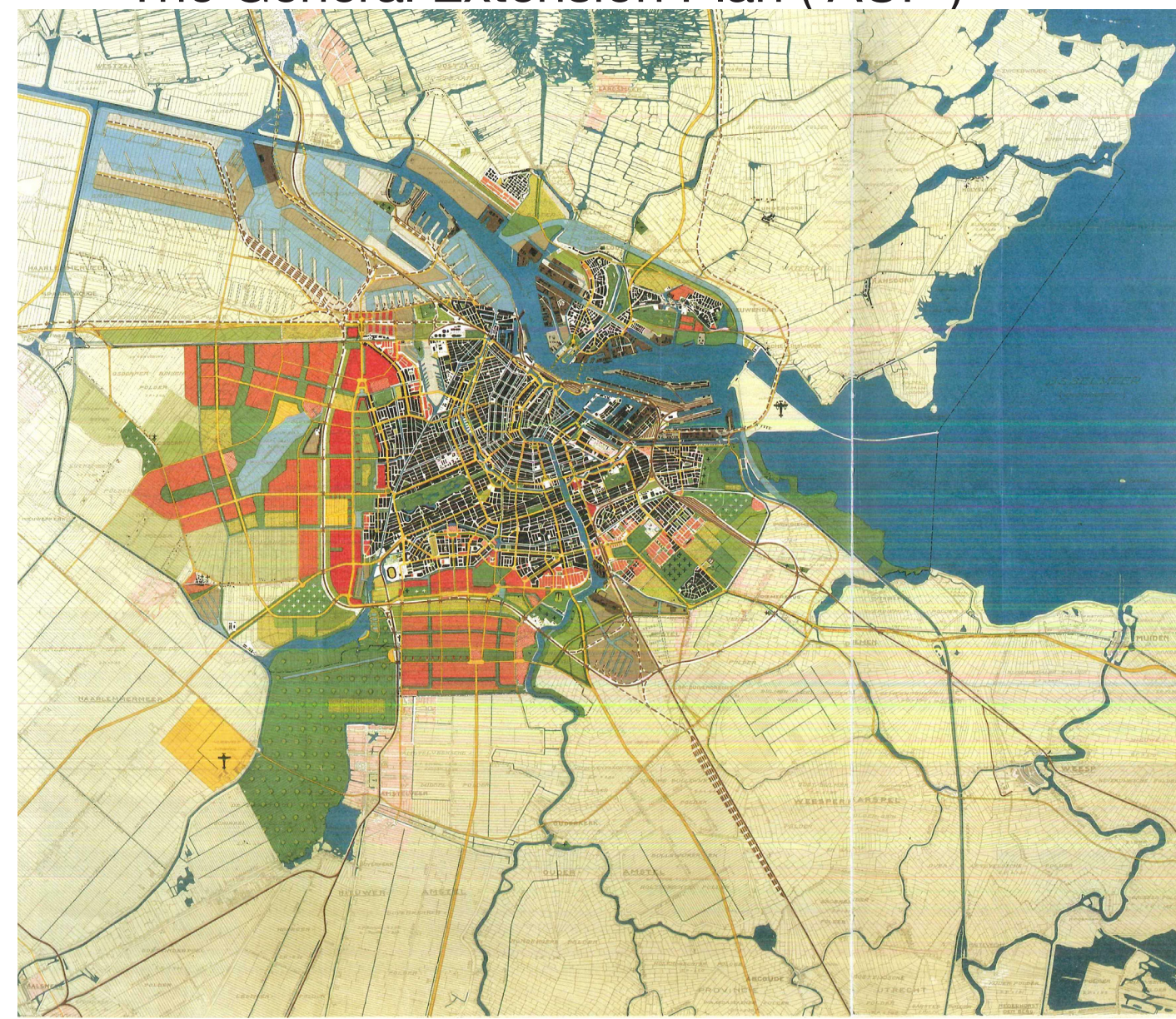
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 STUDENT NUMBER: 4515269  
 STUDIO: Heritage & Architecture Re-Housing  
 TUTORS: Lidwine Spoormans, Bas Gremmen, Nicholas Clarke

## Cultural Value

Startpoint of the design



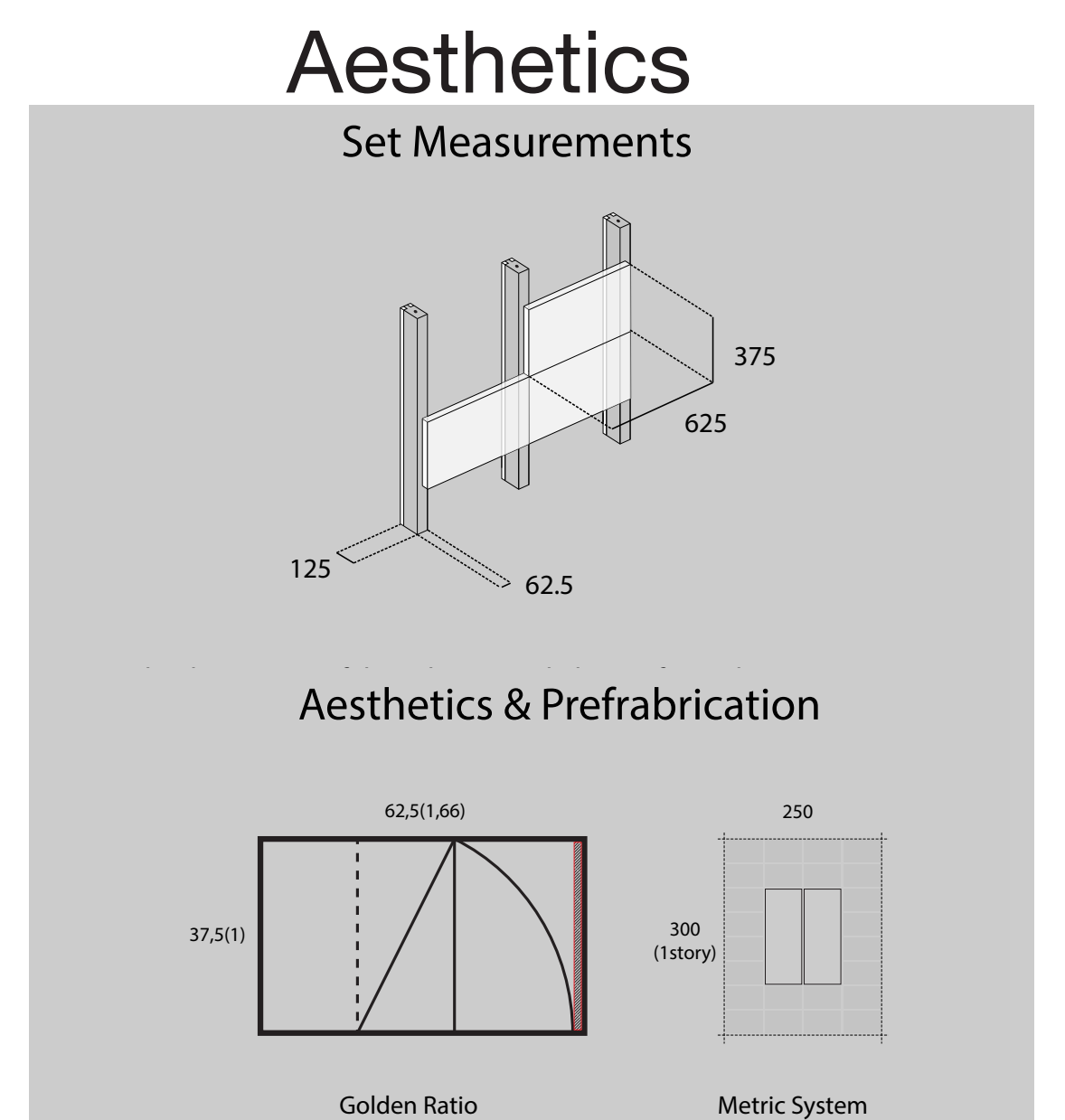
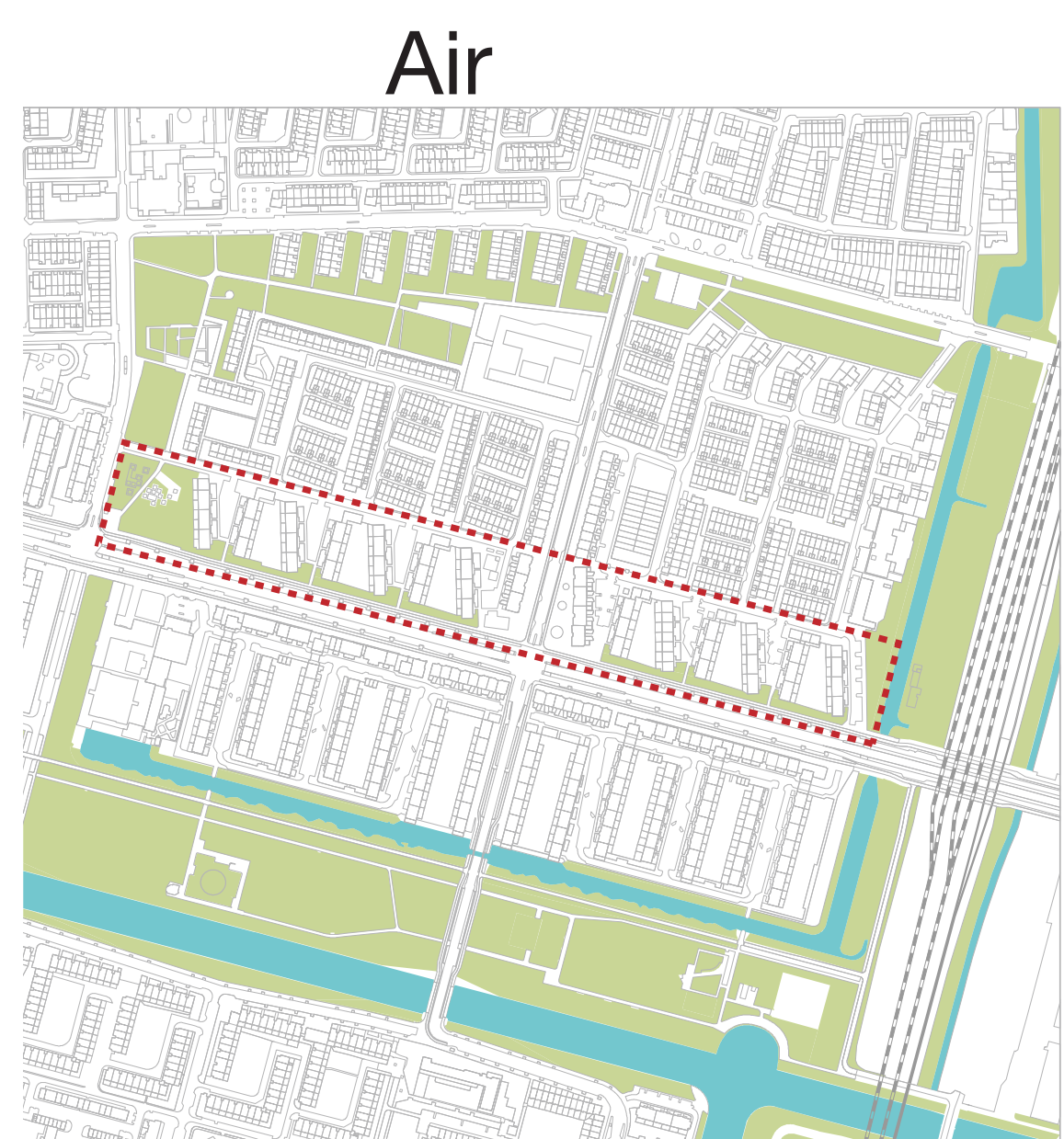
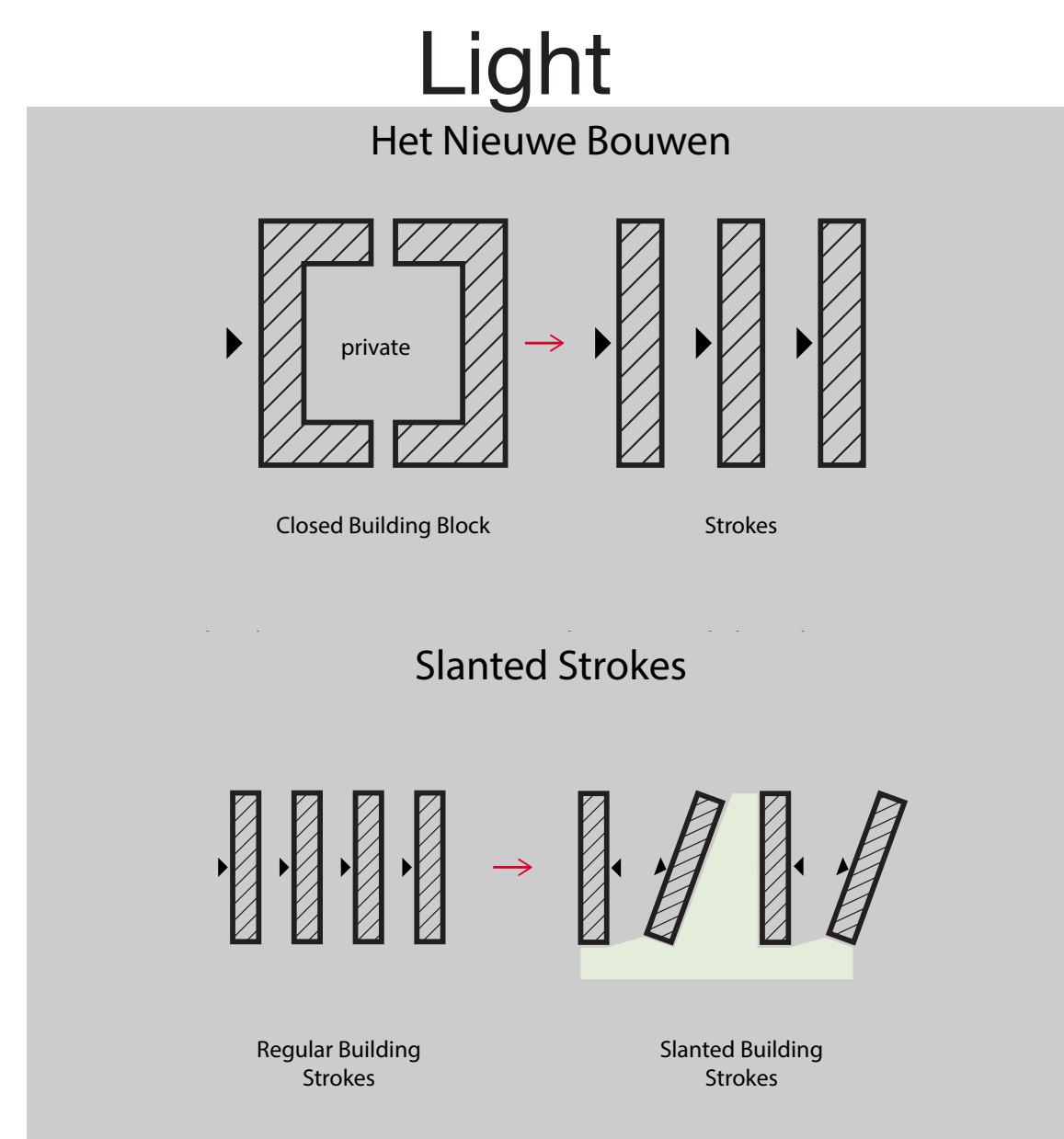
The General Extension Plan (AUP)



Het Nieuwe Bouwen

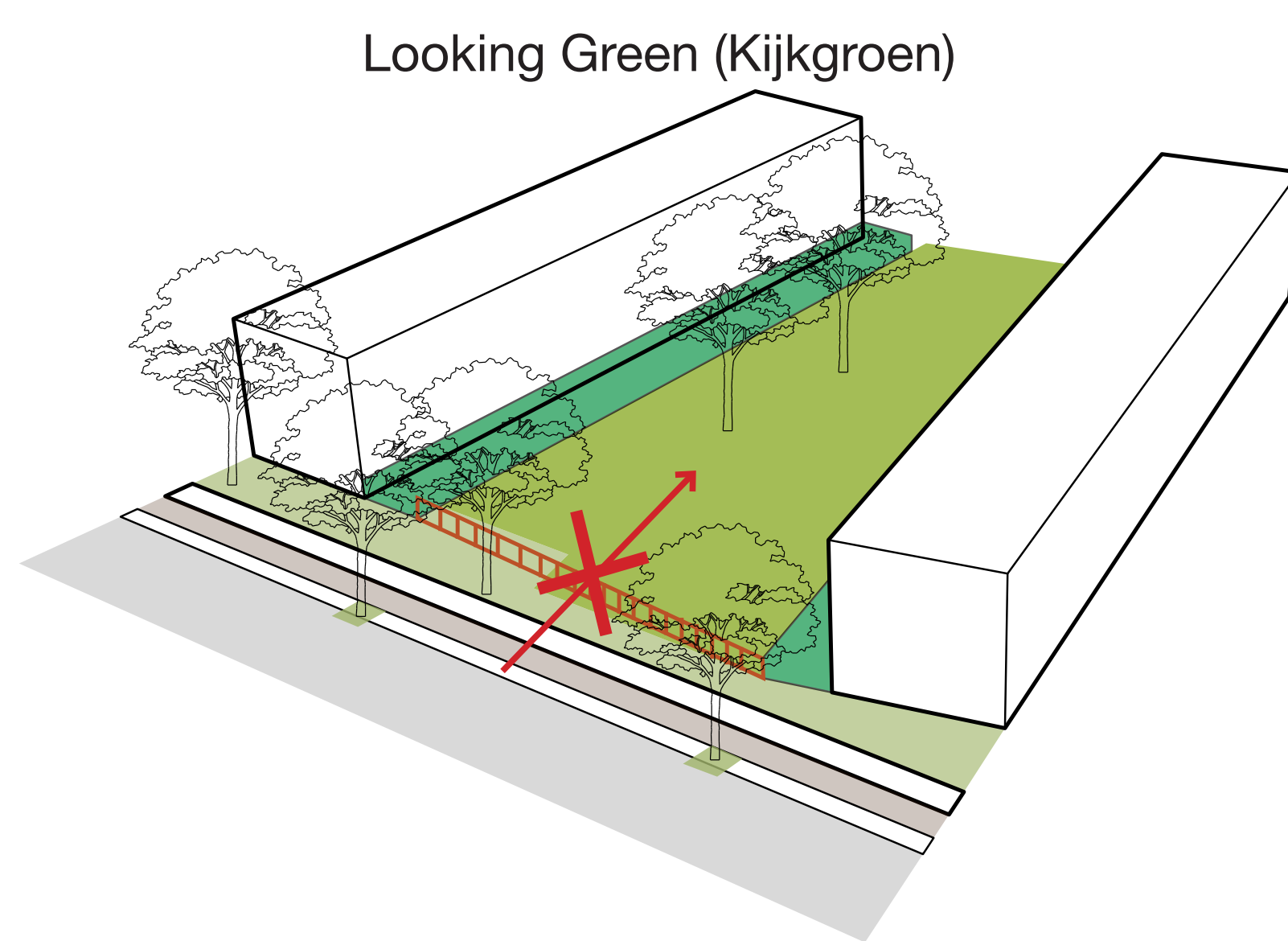
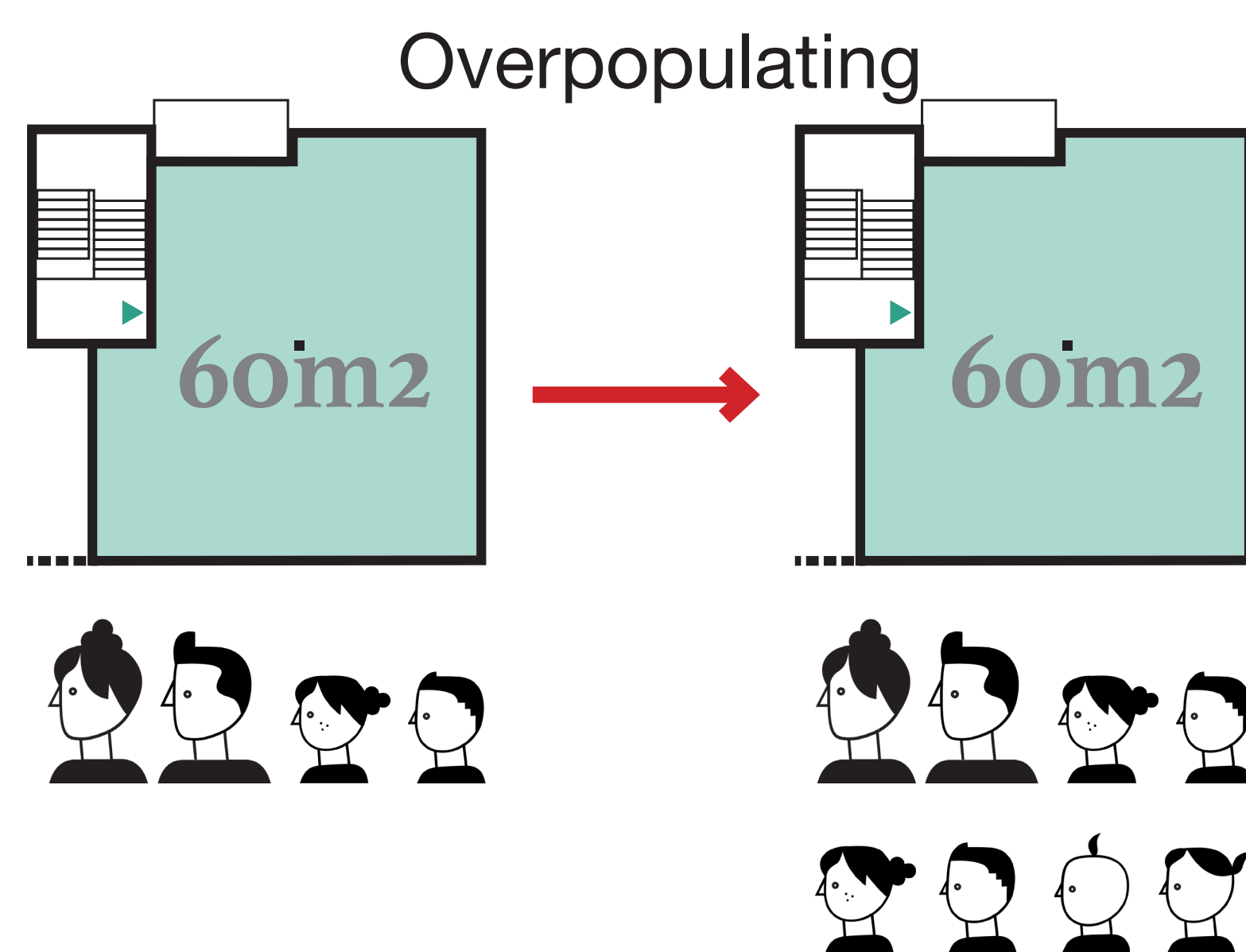


Monument Worthy (Monumentwaardig)



## Interview

Problem statement



## Interpretation

Light, Air and Space

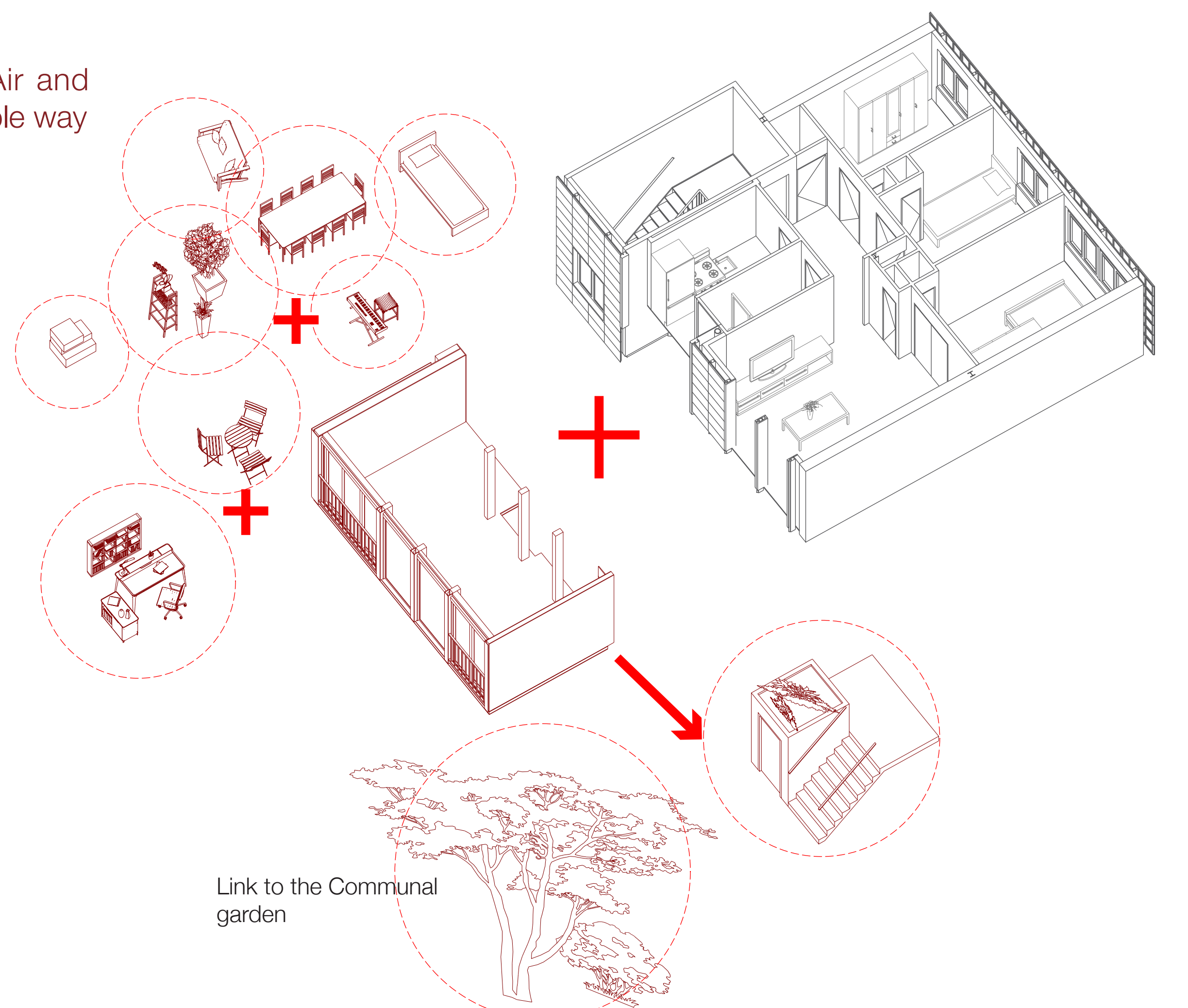
	BUILDING TECHNOLOGY INTERPRETATION	ARCHITECTURAL INTERPRETATION	HISTORICAL INTERPRETATION
EASY	Reduce time in site; Easy to maintenance; No complicated components; The components are easy to transport	Convenient for residents to use	Faster construction method; Prefabrication; Unskilled labor in site
AFFORDABLE	Cheap materials; Cheap construction method	Do not greatly increase the rent	Cheaper construction method
NEUTRAL (AESTHETICS)		Mimic the composition; Original material texture; No exaggerated color or form	Original material texture; Grid (reflects its construction way: prefabrication); Division (golden ratio)
FLEXIBLE	Long life span; Easy to maintenance	Free to use (free to arrange the furniture; Could be used as different functional space)	Efficient floor plan
TRANSPARENT		Big opening to allow more daylight; Good view	Nothing to hide from society; To be visible for anyone

## Concept

Bring back 'Light, Air and Space' in an affordable way

Providing affordable big apartment through extend the Airey blocks

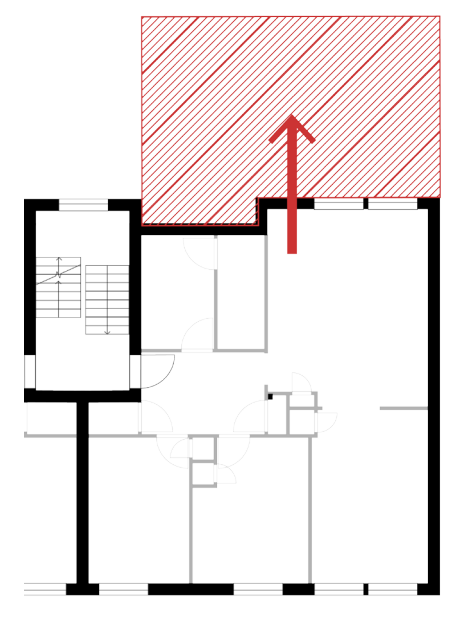
Multifunctional Flexible



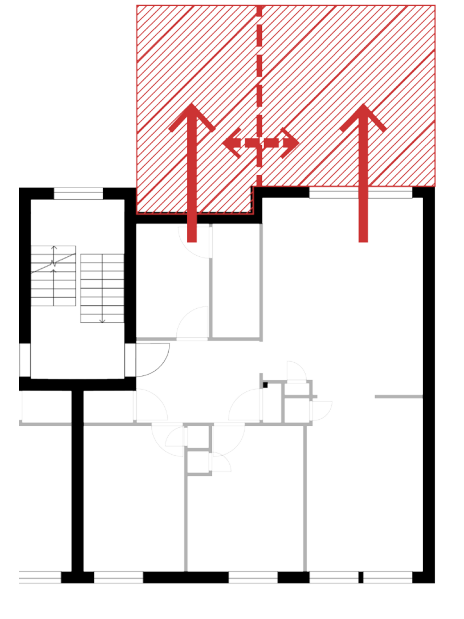
# Architectural Vision

## Apartment Scale

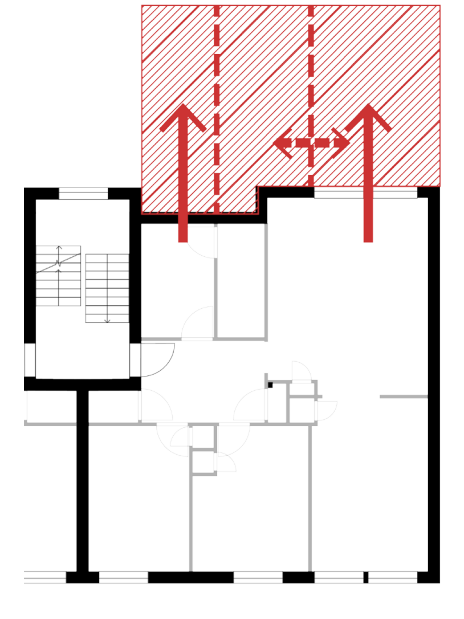
One optimal extension  
Provide multi-functional space



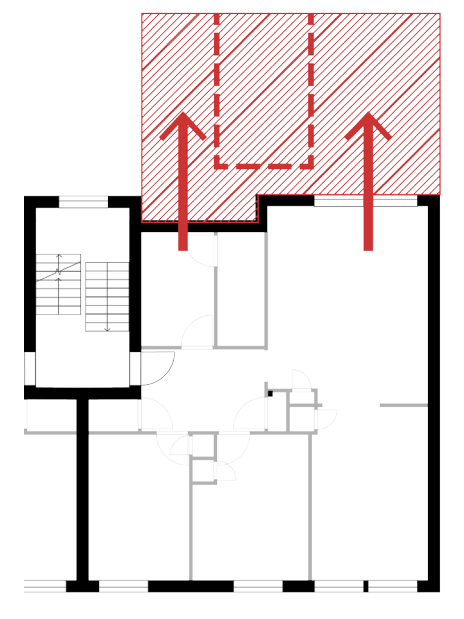
One big space connected to living room and kitchen



Two separated room connected to living room and kitchen



Three separated extra room



Three separated extra room



## Possible Floor Plans 1:100

The existing floor plan and family:  
Rent: €460 p/month  
Period: 13yrs  
Inhabitants: 2 pers and 4 kids  
**Demands: more space for kids, dining room**

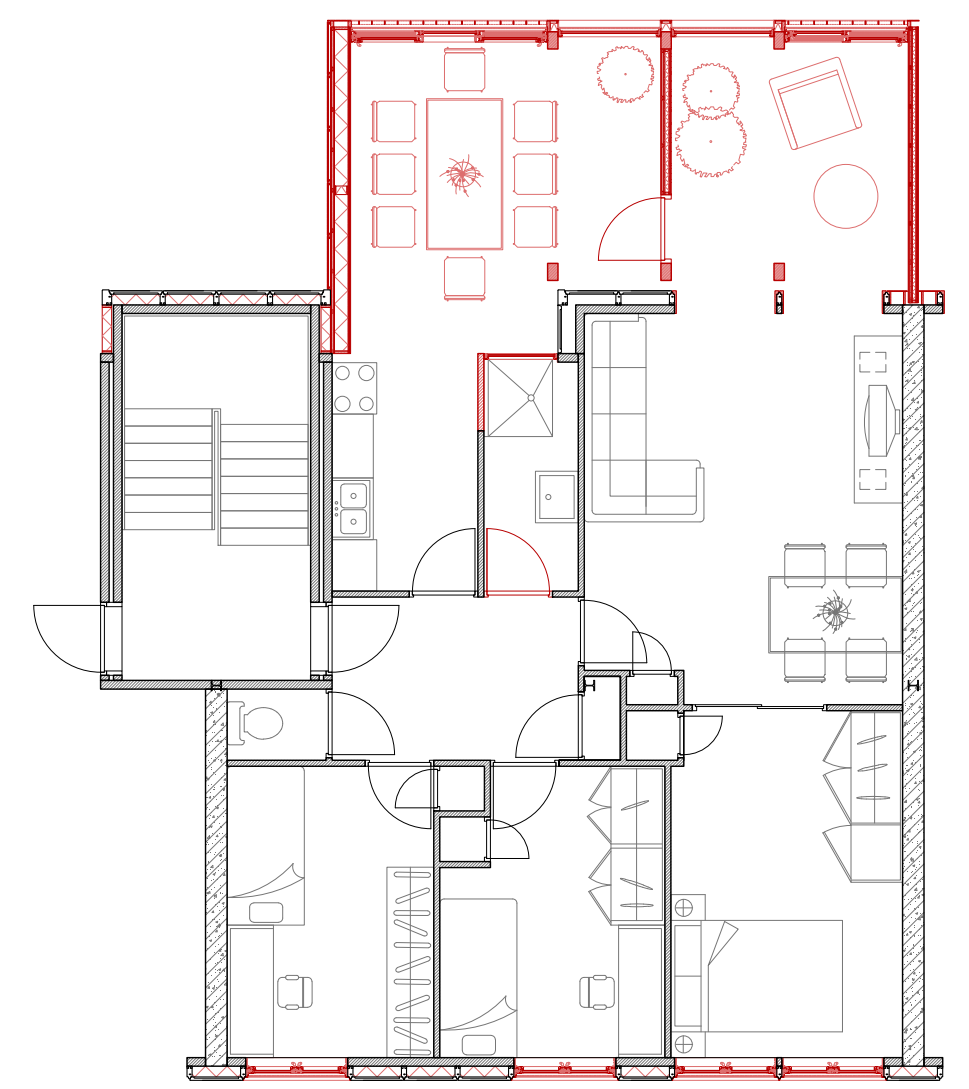
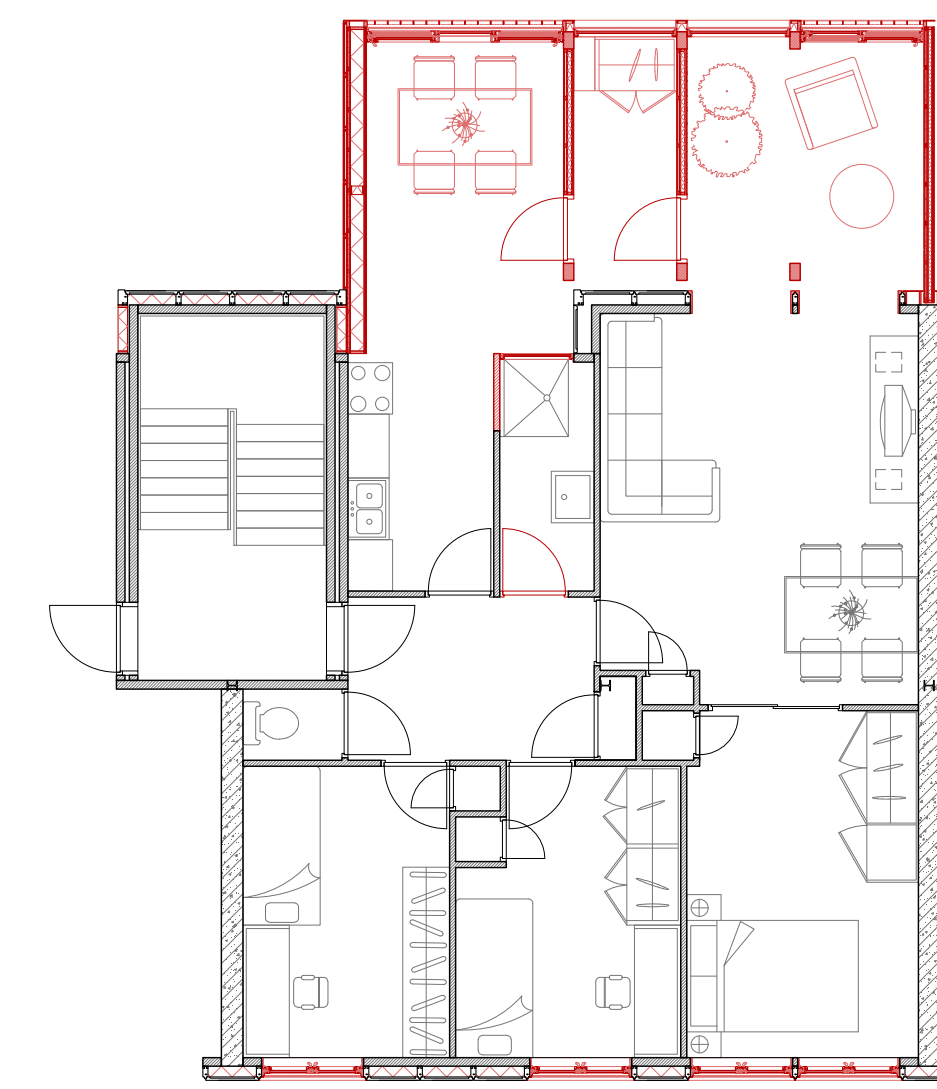
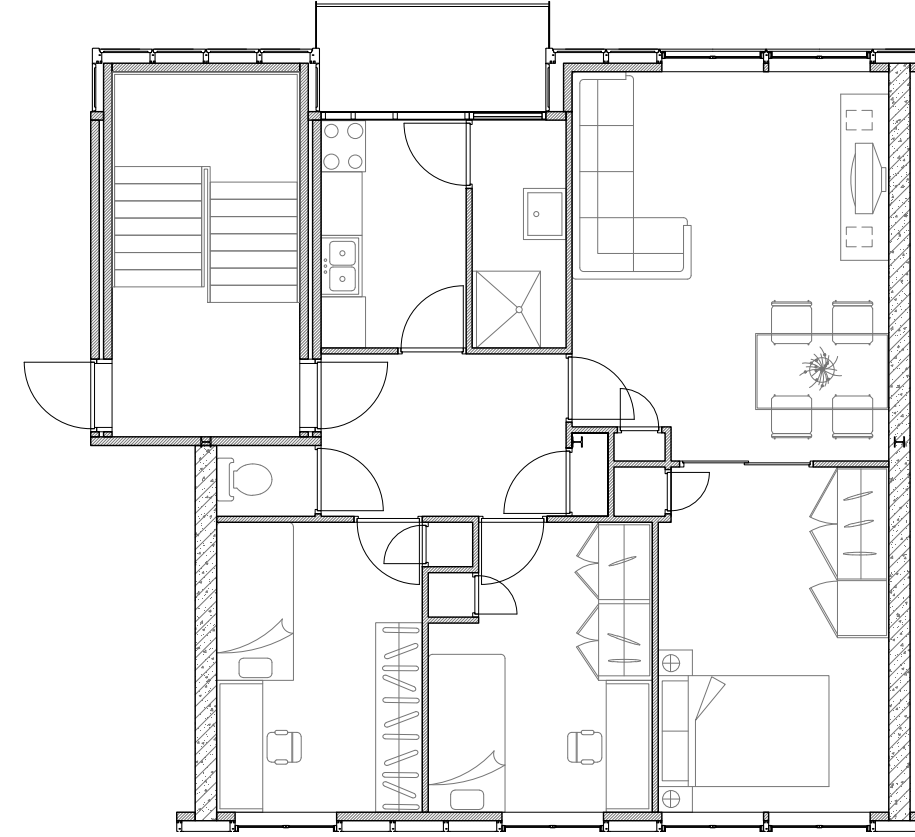
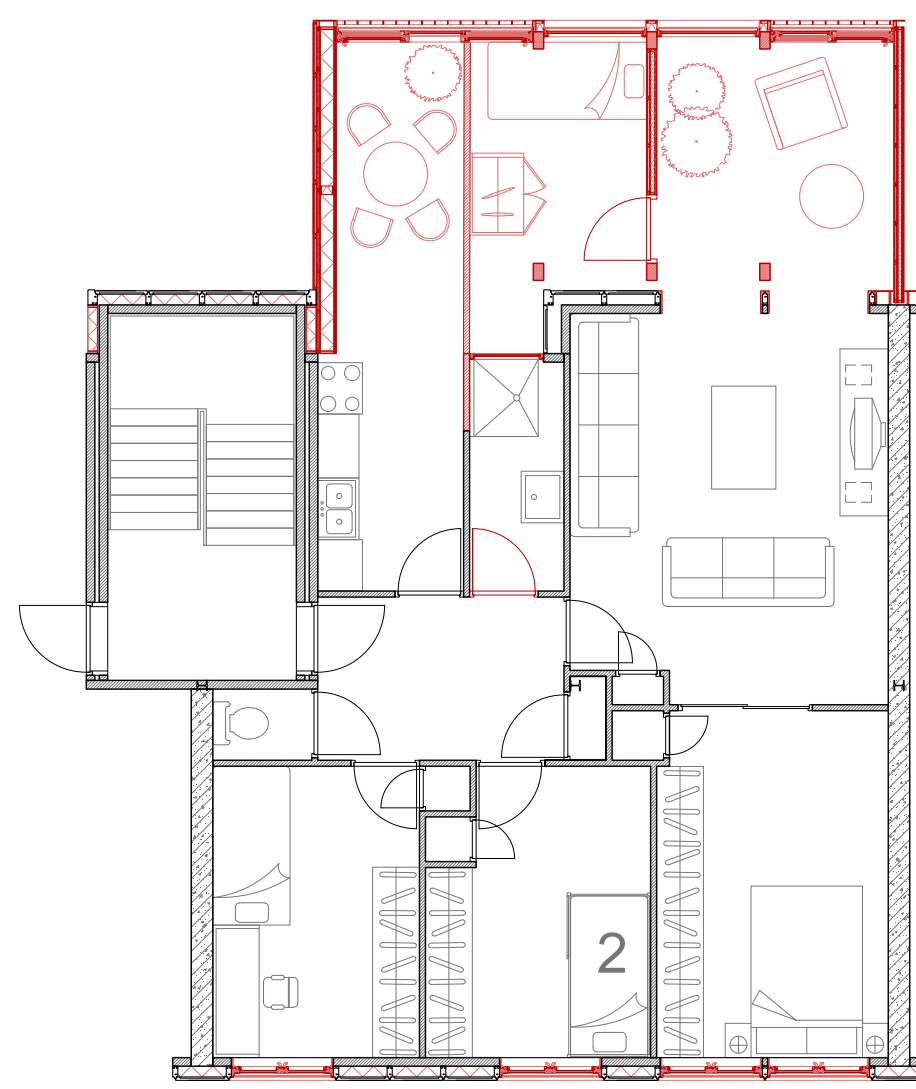
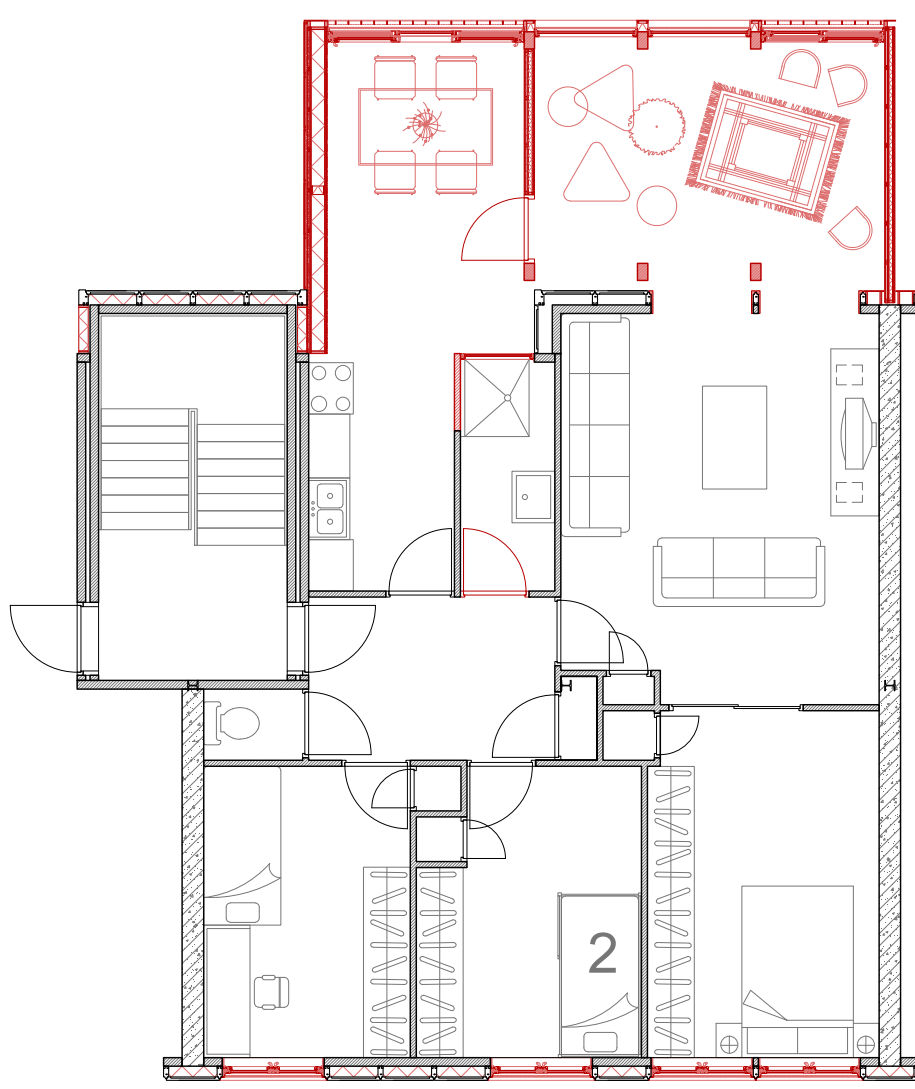
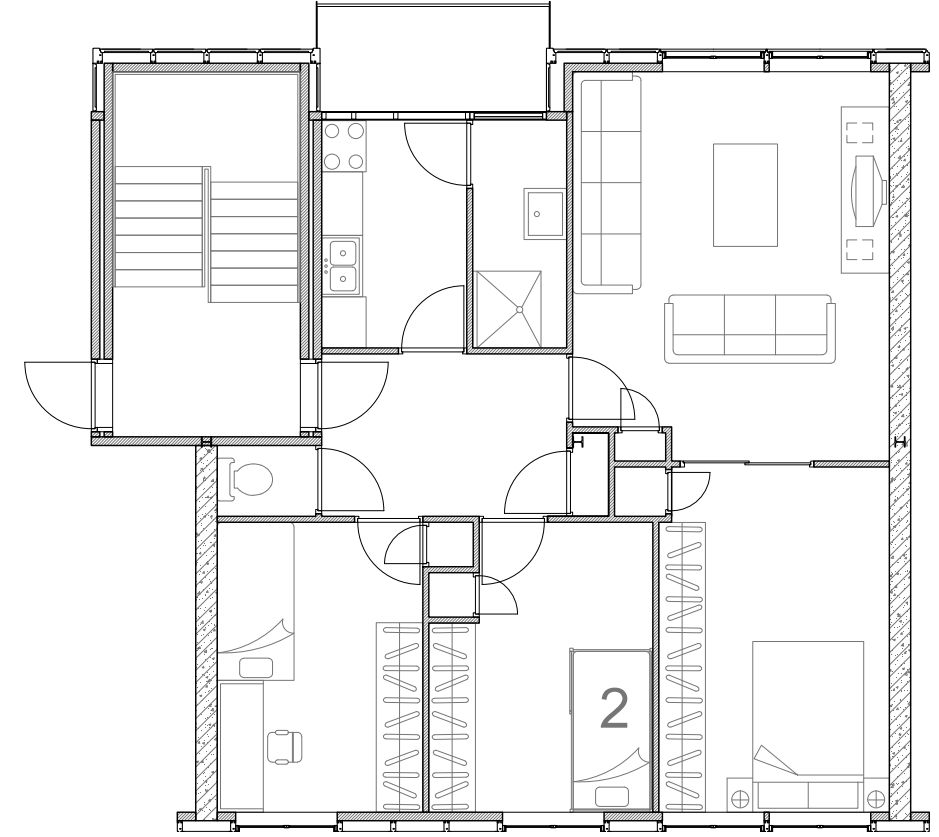
Extension option 1:  
Dining room + one big playroom for kids

Extension option 2:  
Small dining room + baby bedroom + extension of living room

The existing floor plan and family:  
Rent: €550 p/month  
Period: 17yrs  
Inhabitants: 4 pers  
**Demands: more space for dining**

Extension option 1:  
Small dining room + storage + extension of living room

Extension option 2:  
Big dining room + extension of living room



## Block Scale

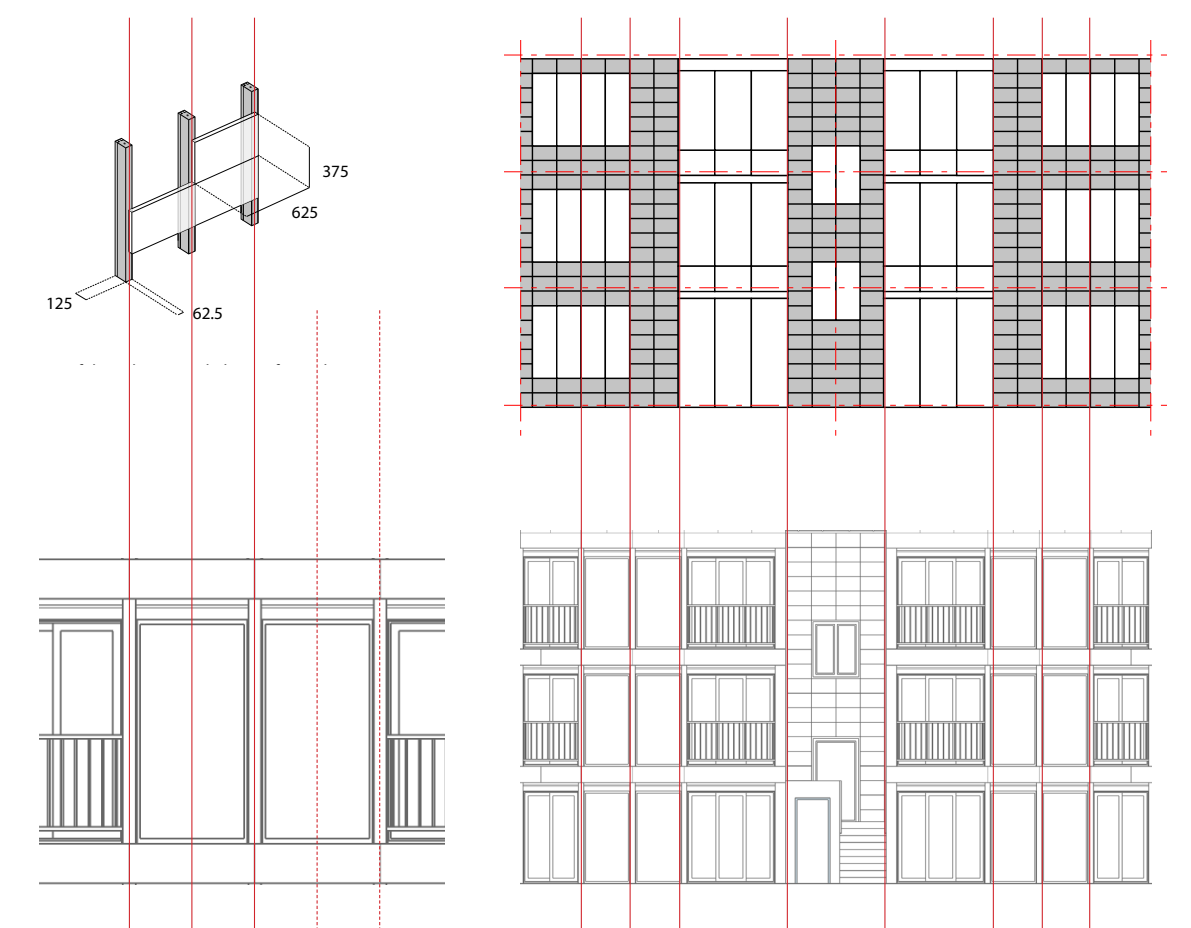
The existing elevation 1:200



The renovated elevation 1:200

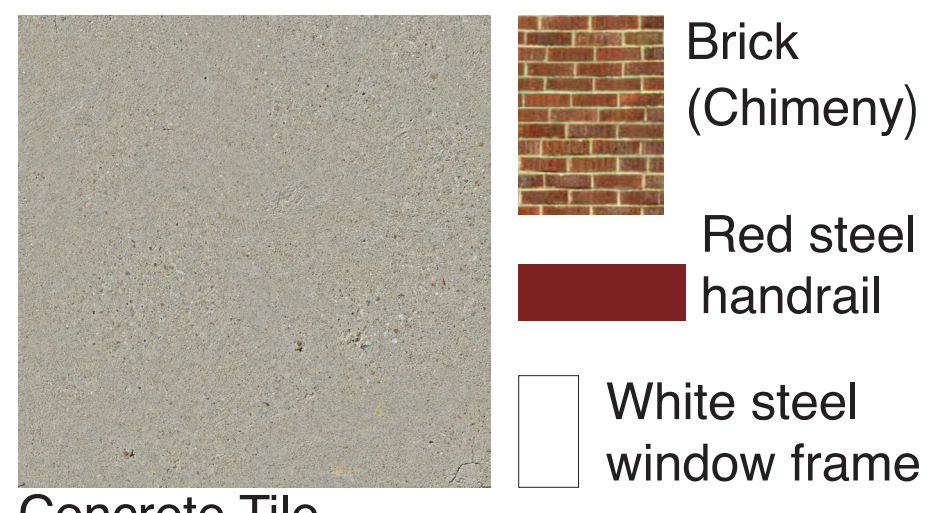


Composition of the Facade

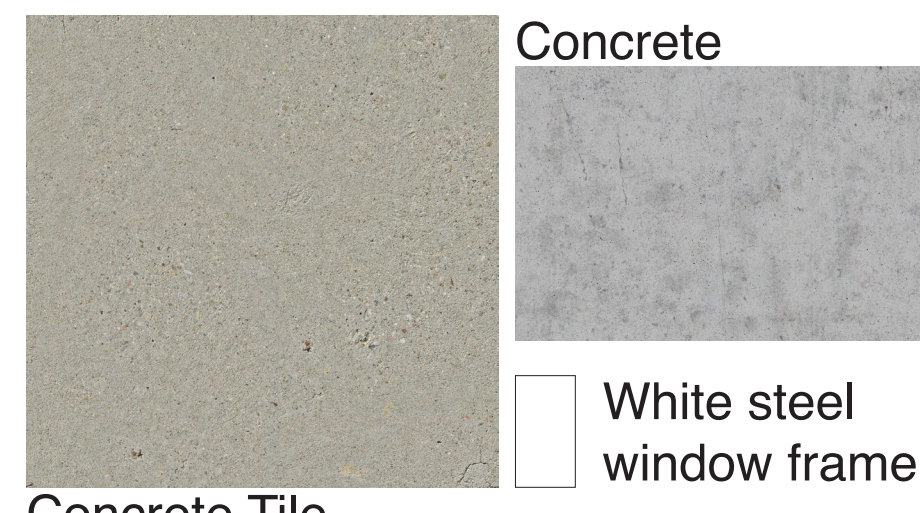
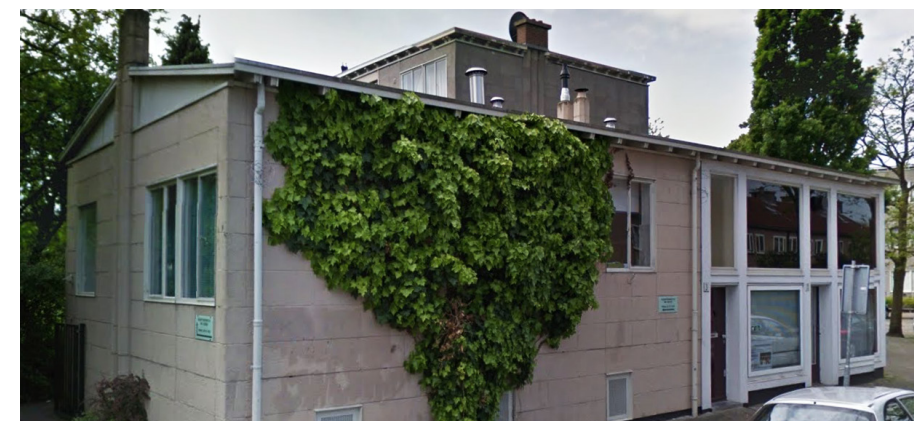


Material List

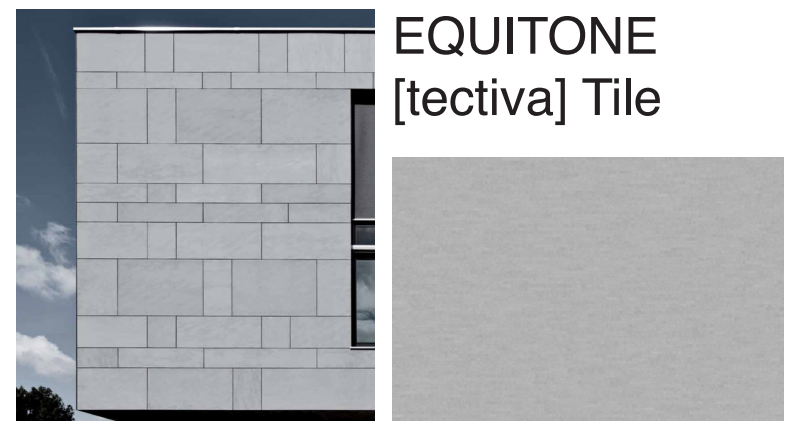
The material of existing Airey blocks:



The material of existing Airey shops:



The material of Renovated part:



Garden Scale

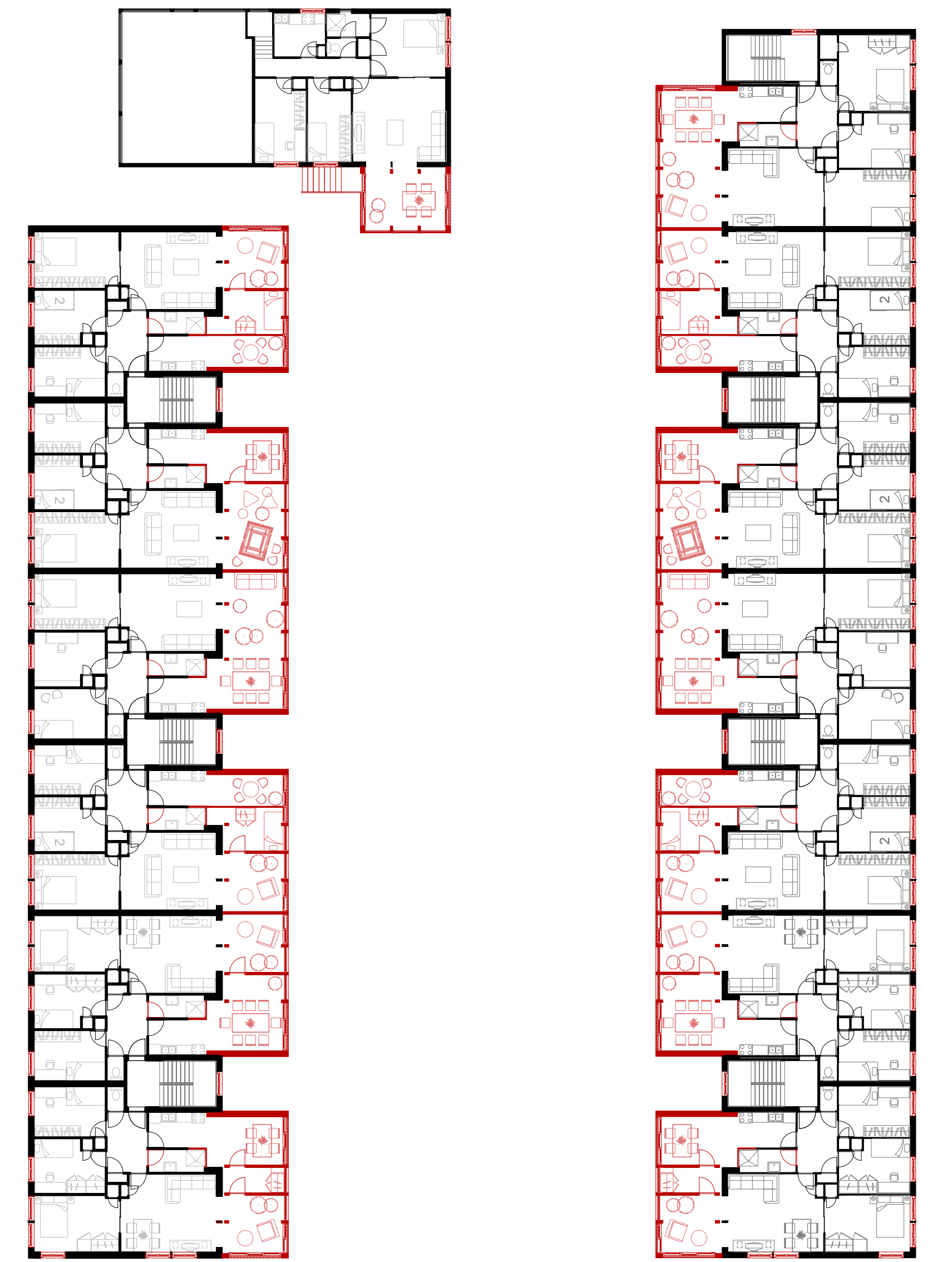
Section 1:200



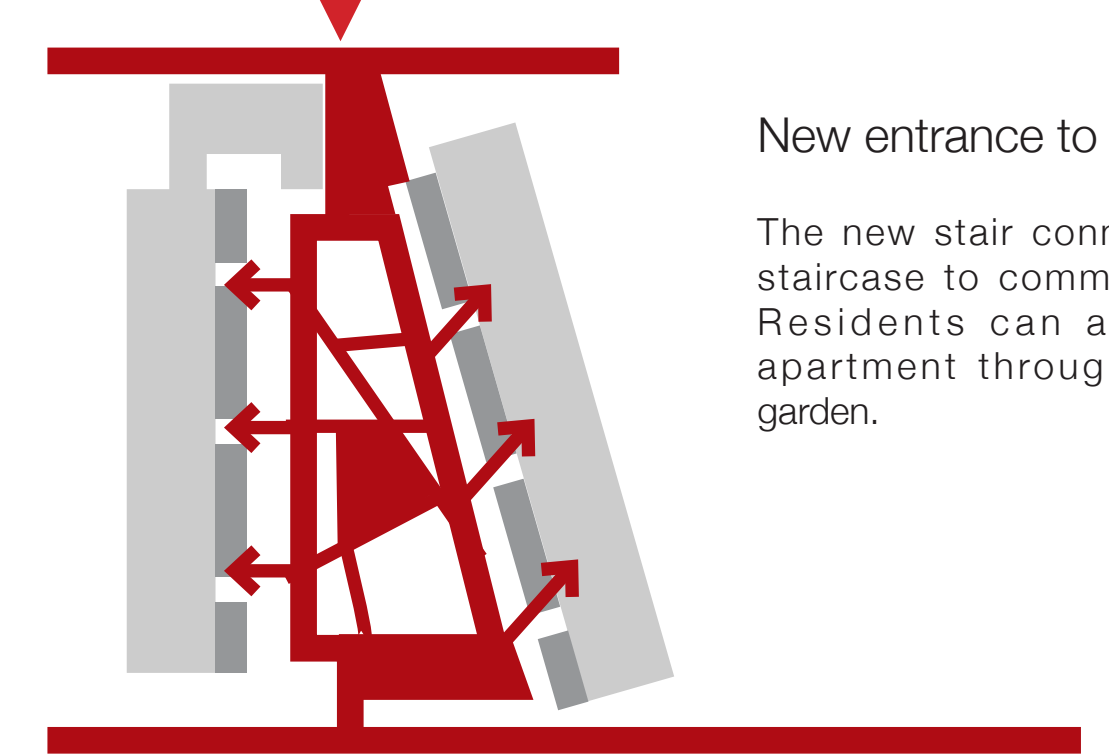
Ground Floor plan 1:200



1st and 2nd Floor plan 1:200



New Route



New entrance to Airey block:

The new stair connects the old staircase to communal garden. Residents can access their apartment through communal garden.

Greenery

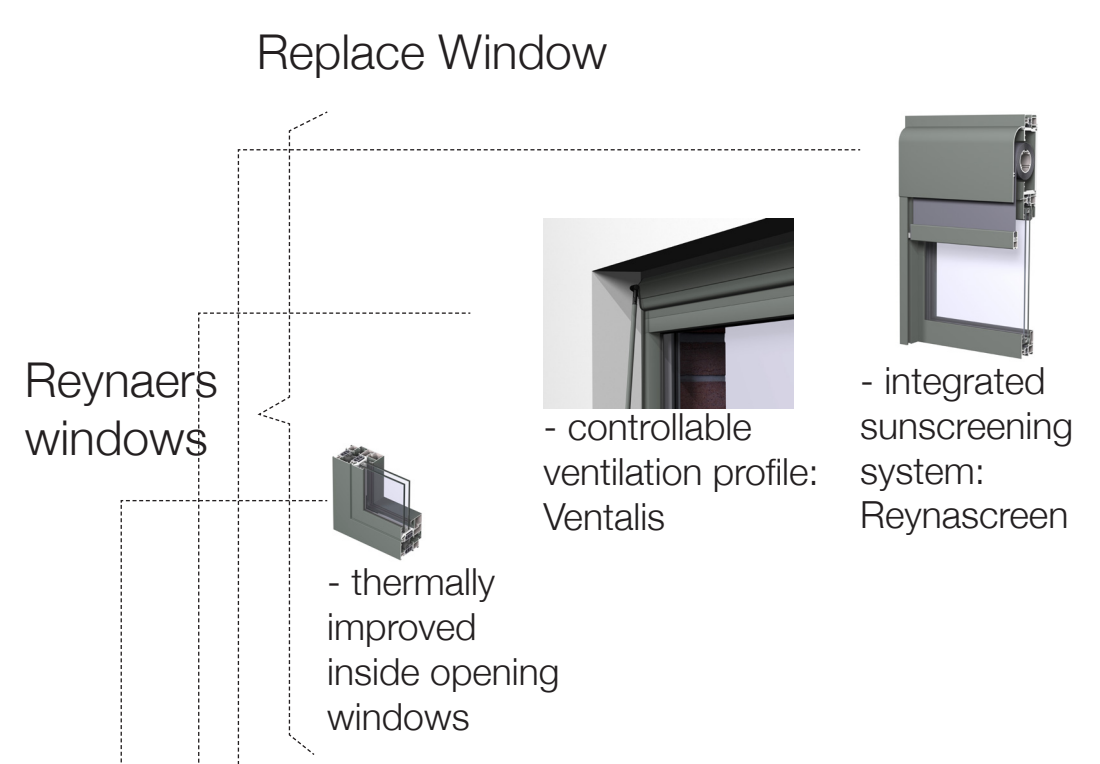


Different type of green land  
 Grass  
 Shrub  
 Private garden

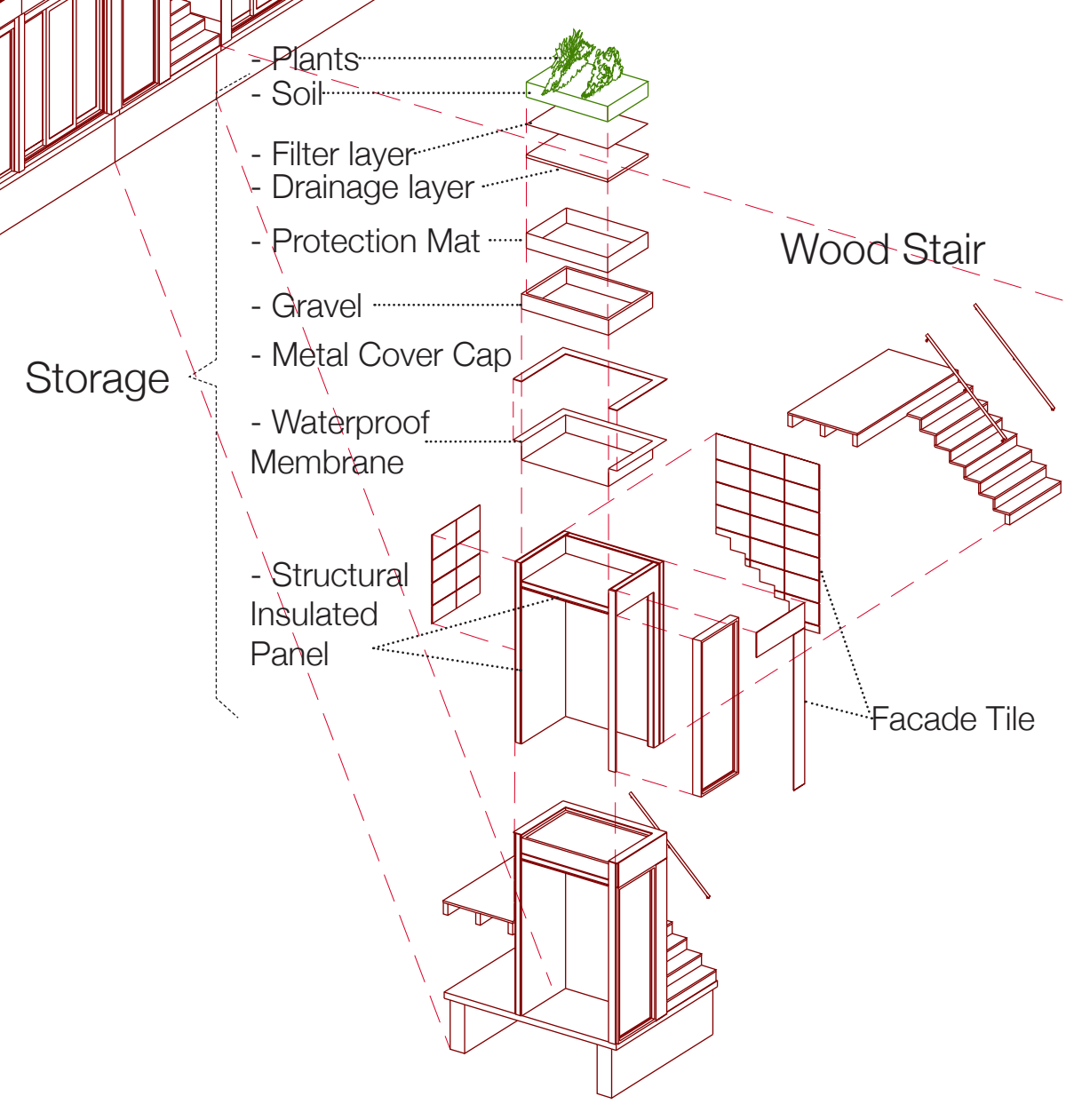
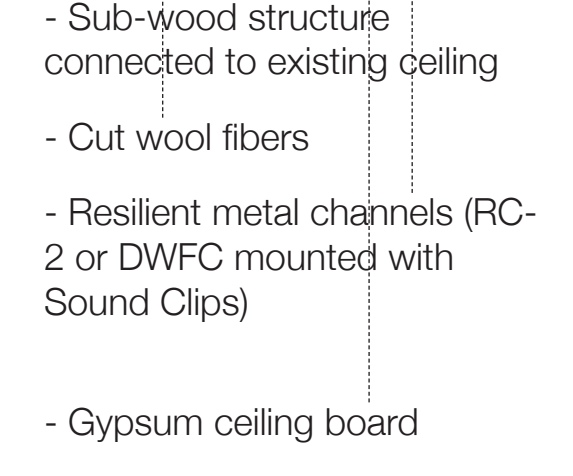


# Structural Scheme

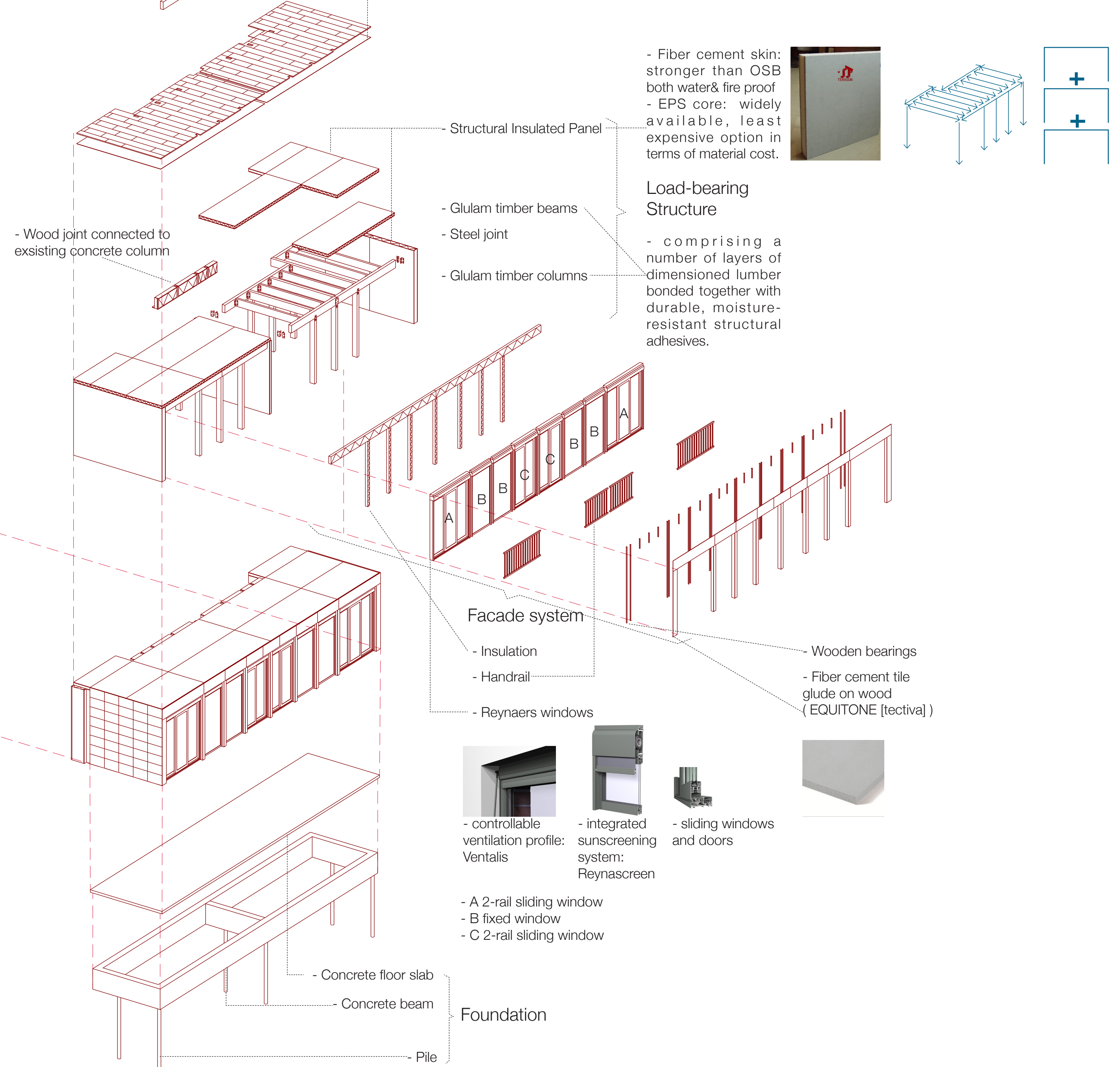
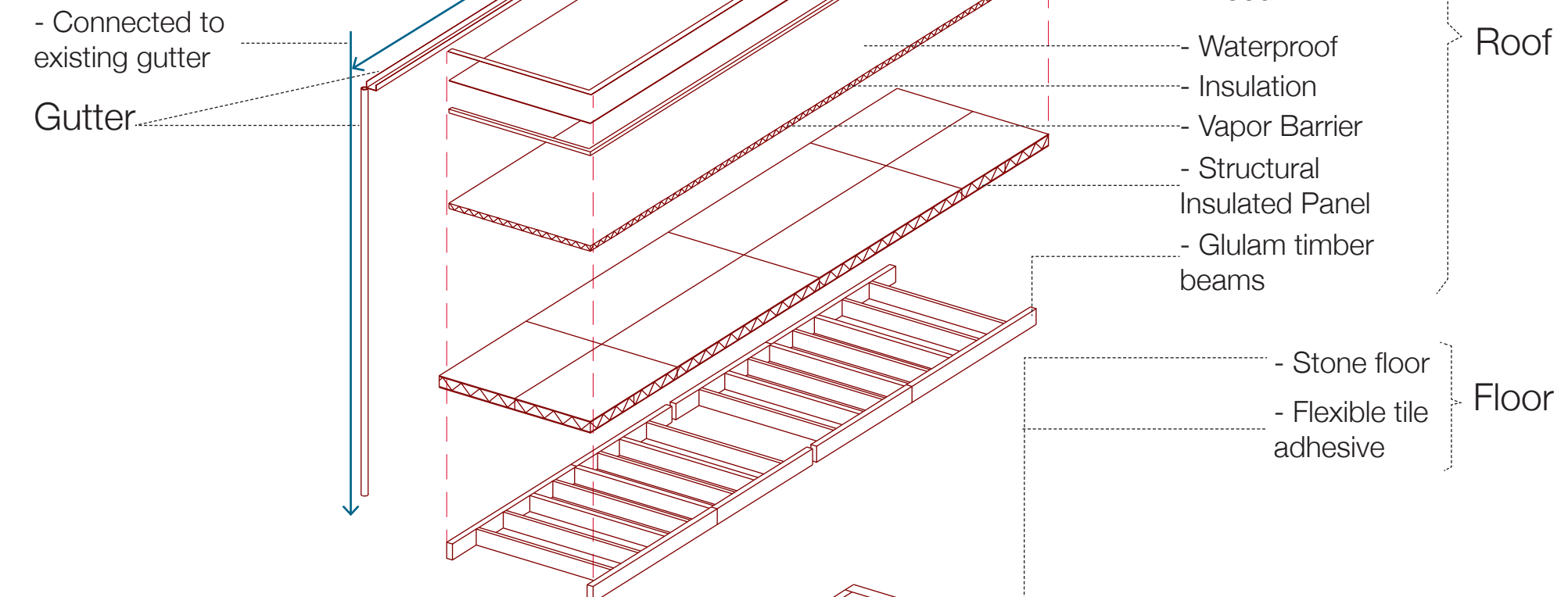
## 1. Replace window & Installing loose-fill material insulation



## 2. Installing acoustic insulation and new ceiling

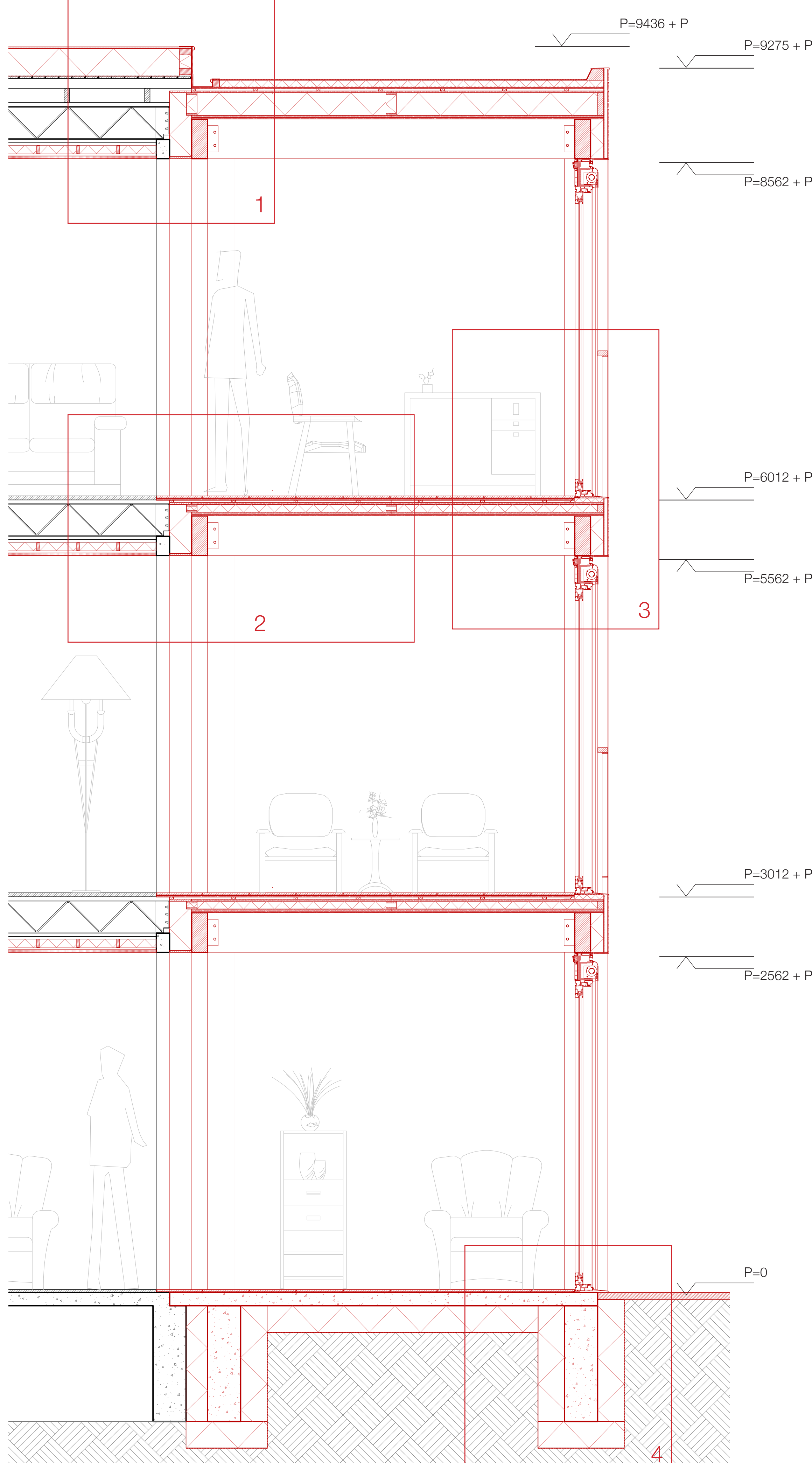


## 3. Extension

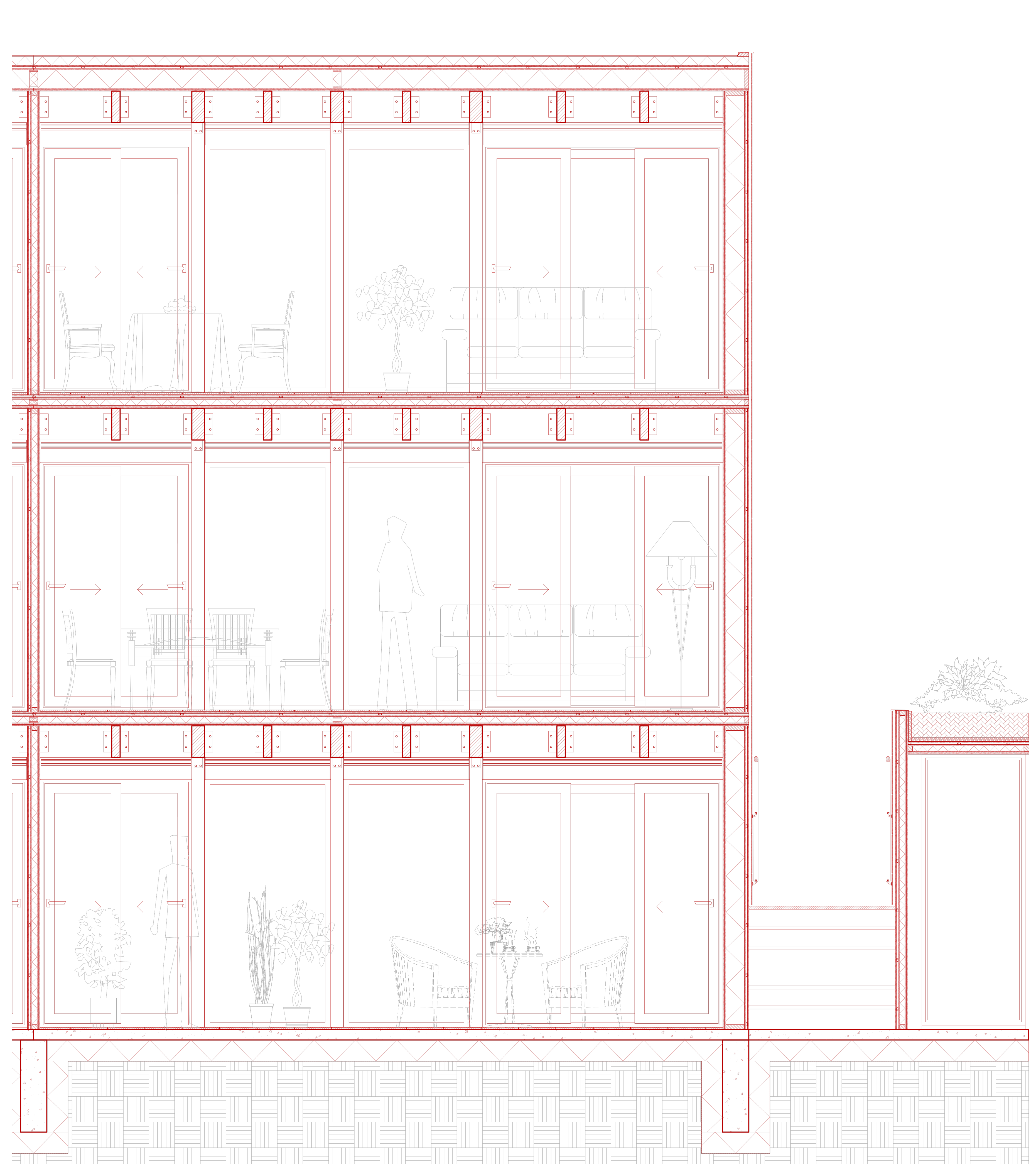


# Technical Detail

Section A 1:20

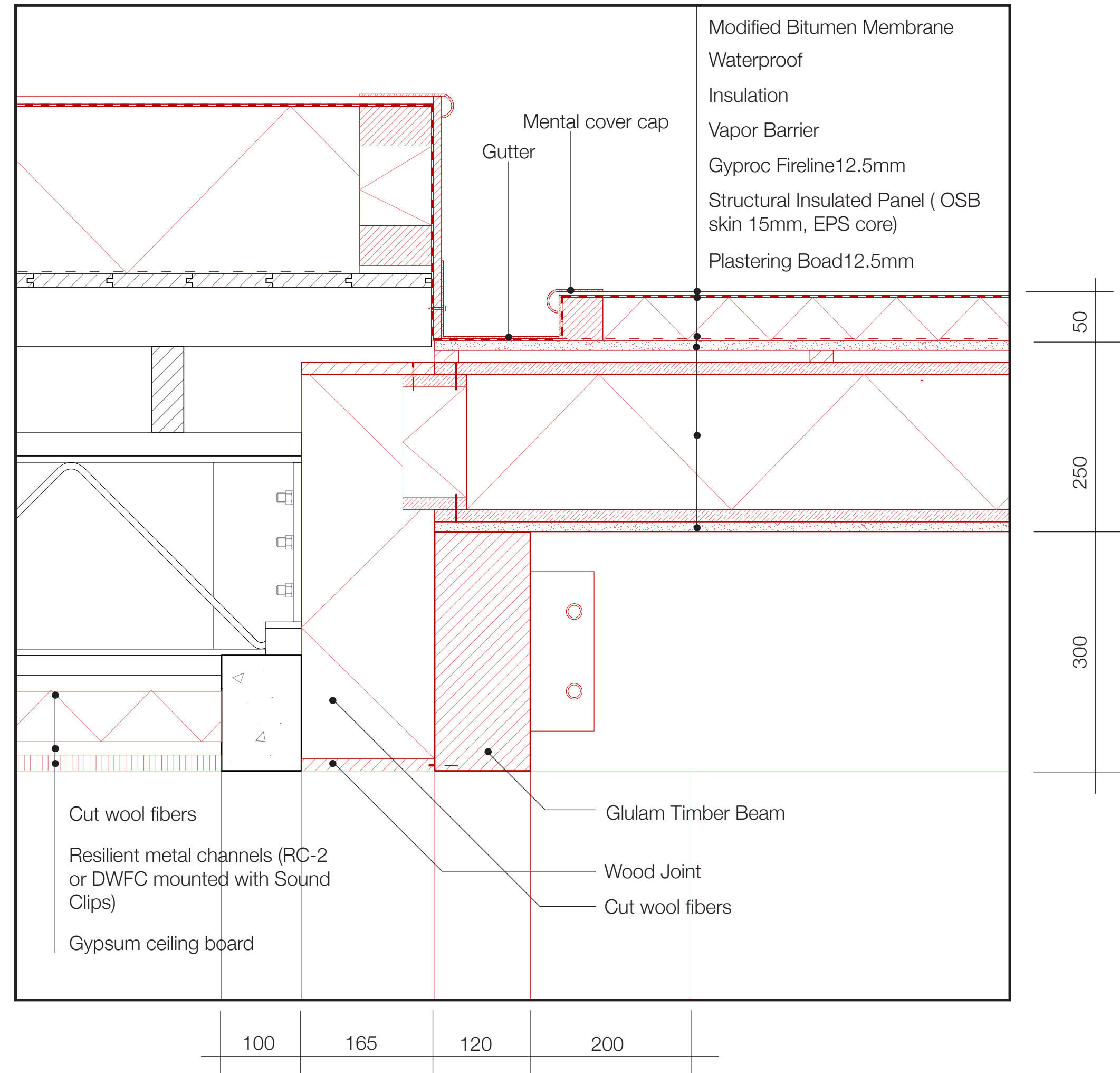


Section B 1:20

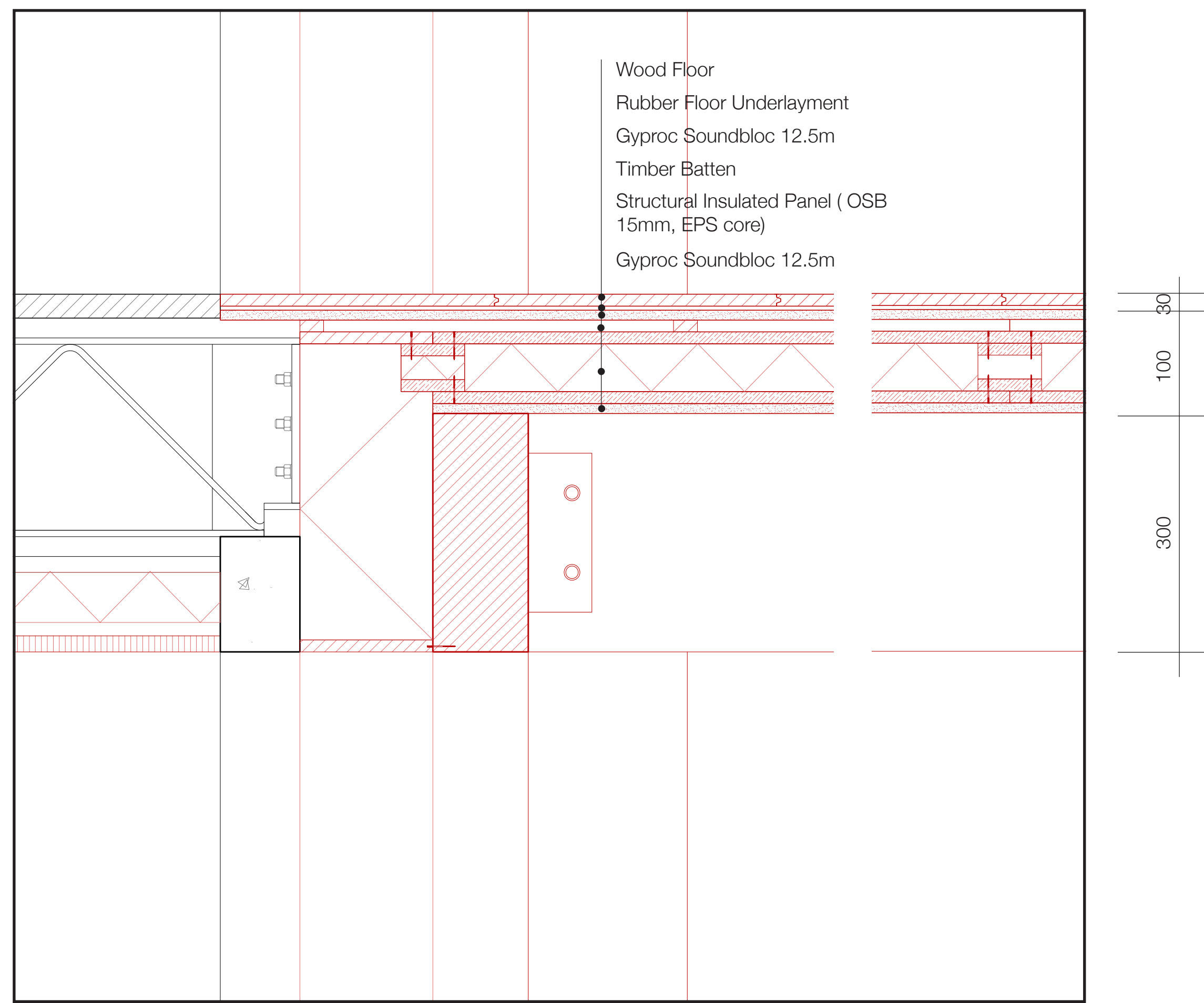


# Technical Detail

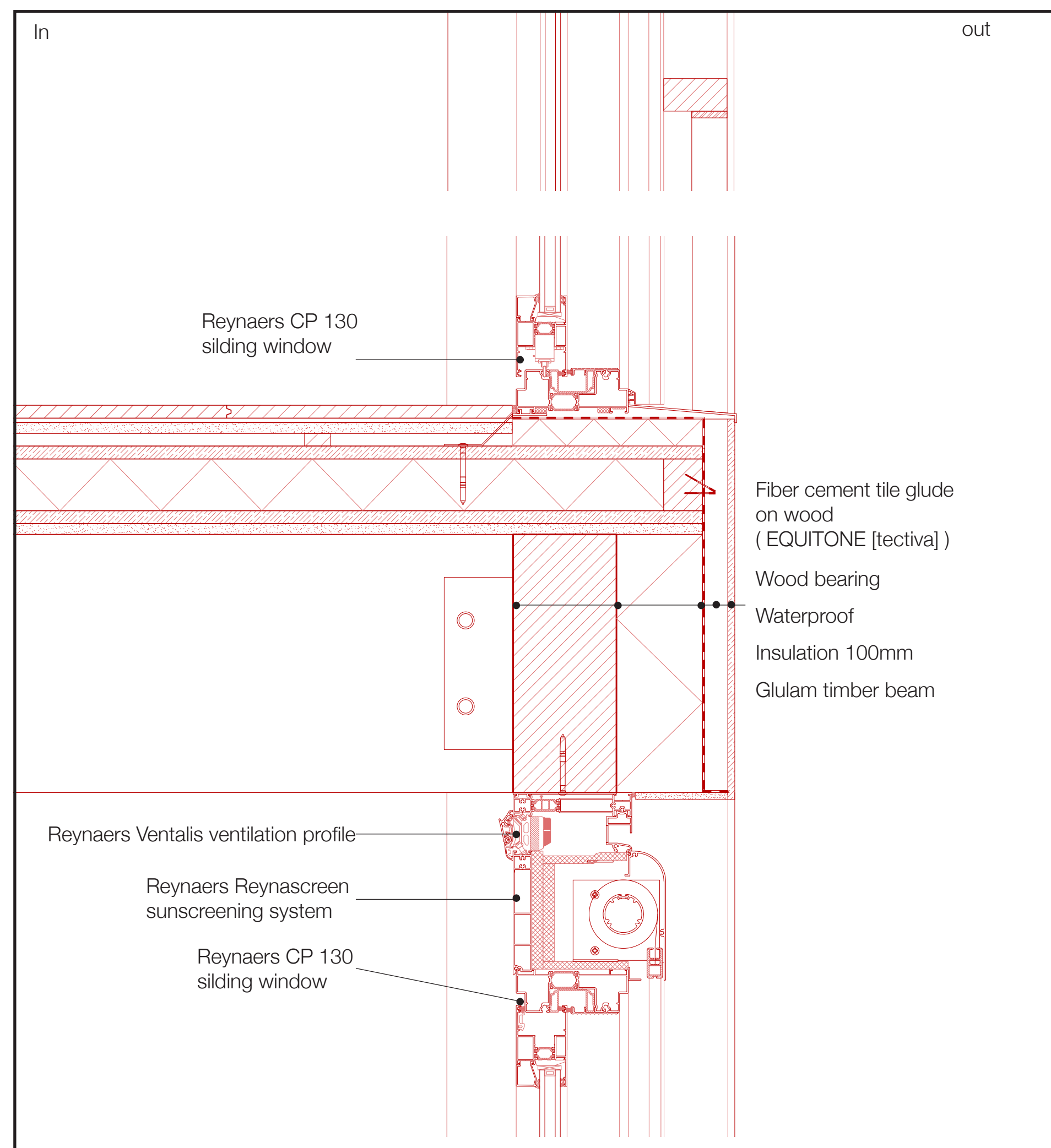
Detail 1 1:5



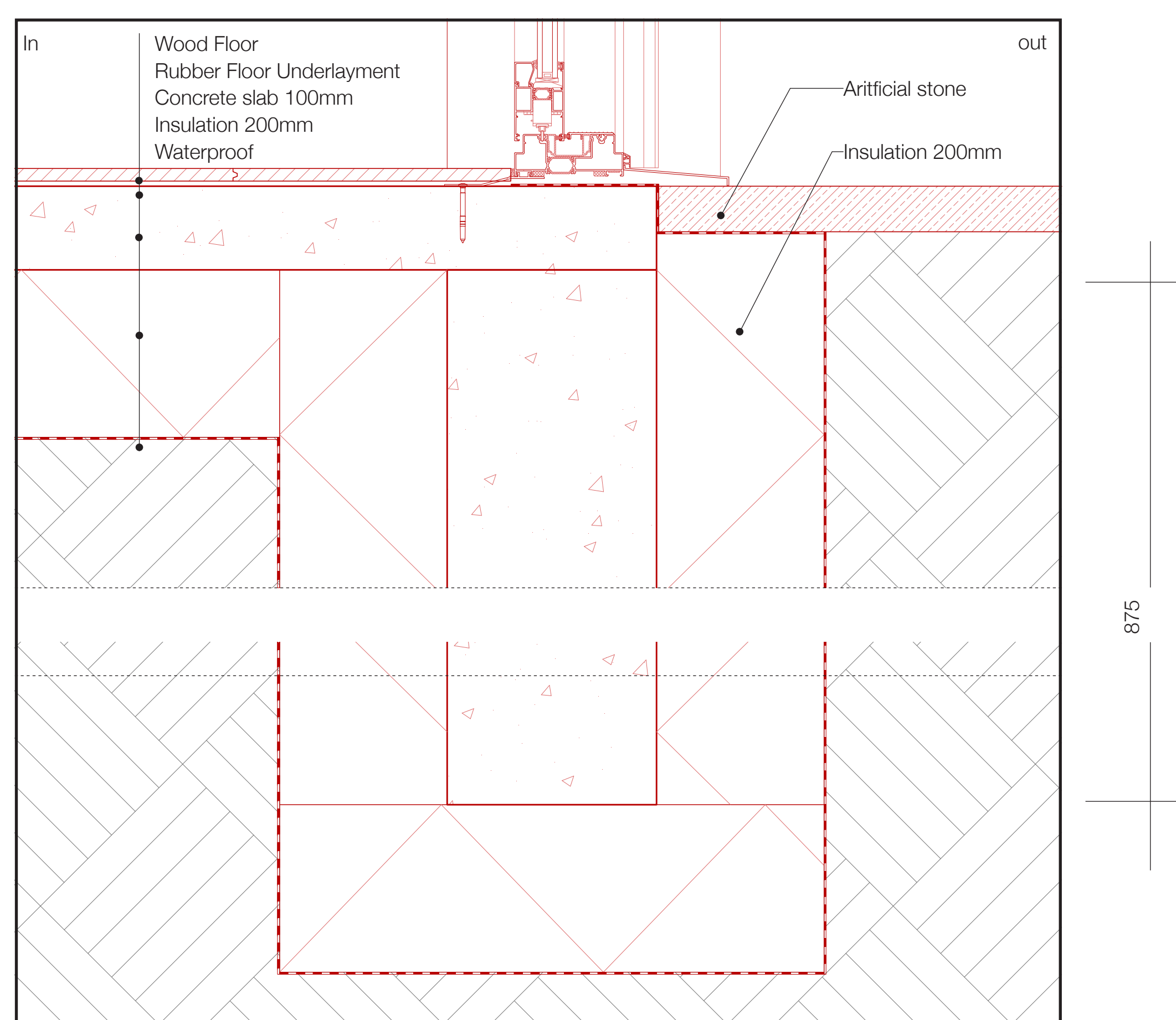
Detail 2 1:5



Detail 3 1:5



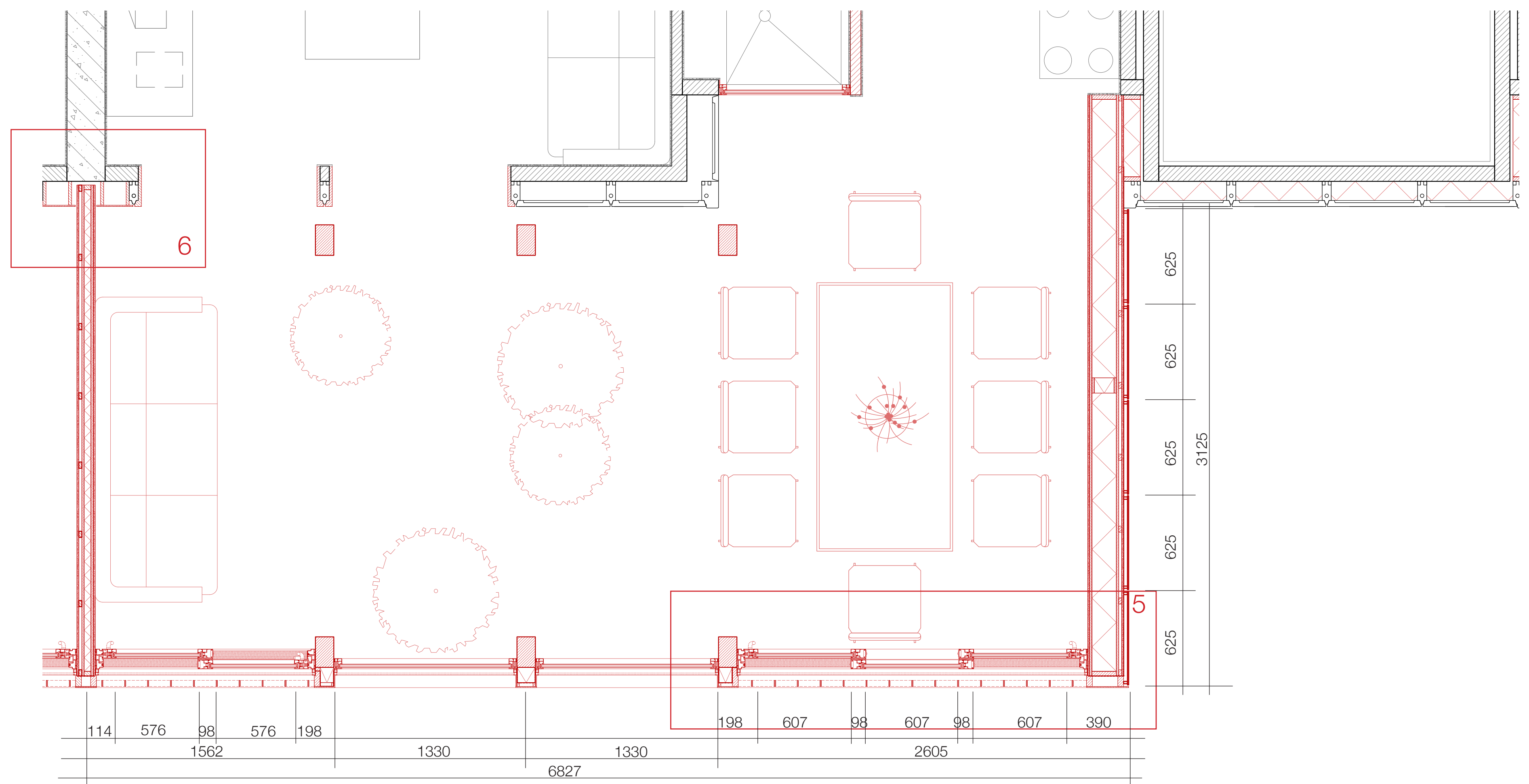
Detail 4 1:5



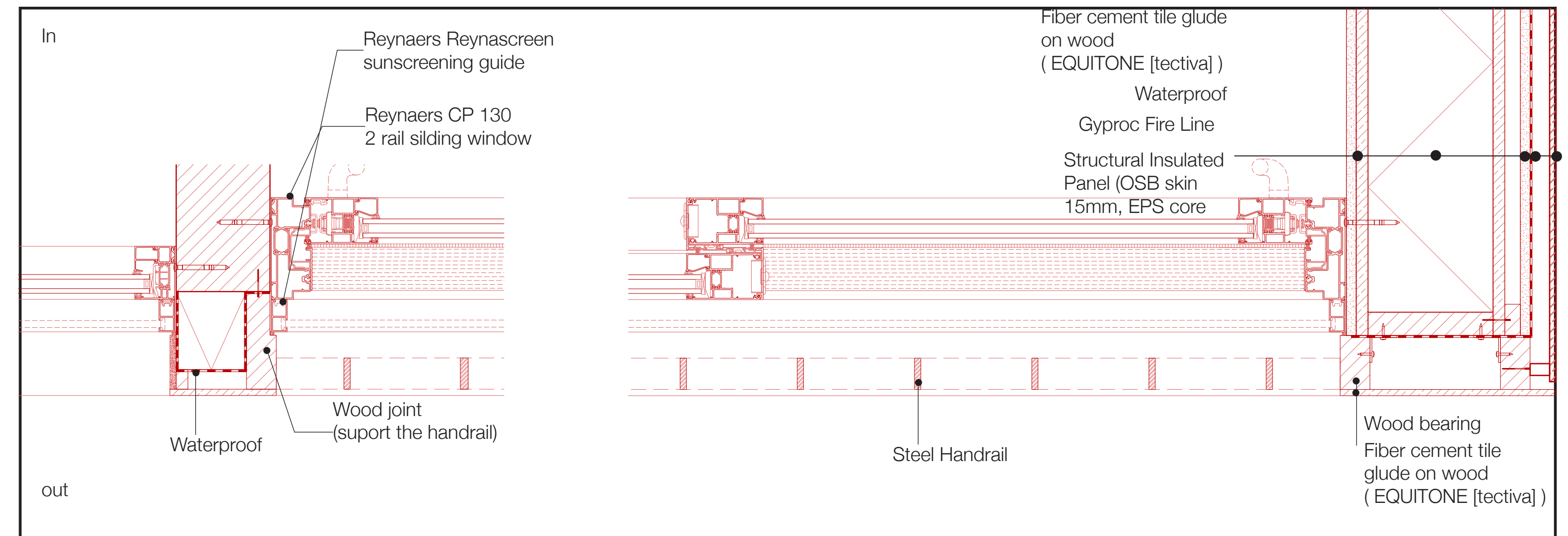
Elevation 1:20



Horizontal Section 1:20



Detail 5 1:5



Detail 6 1:5

