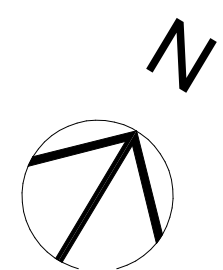
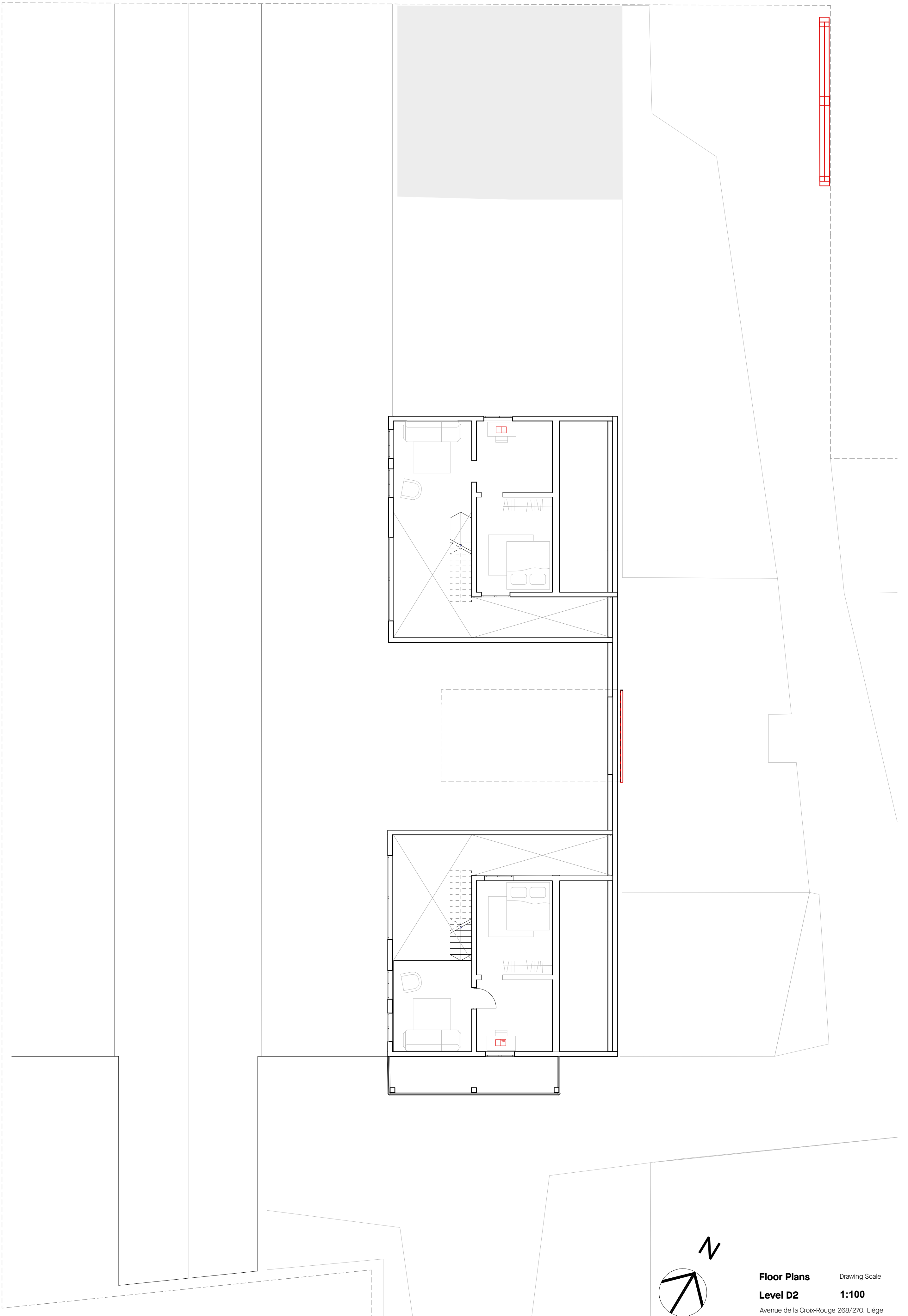
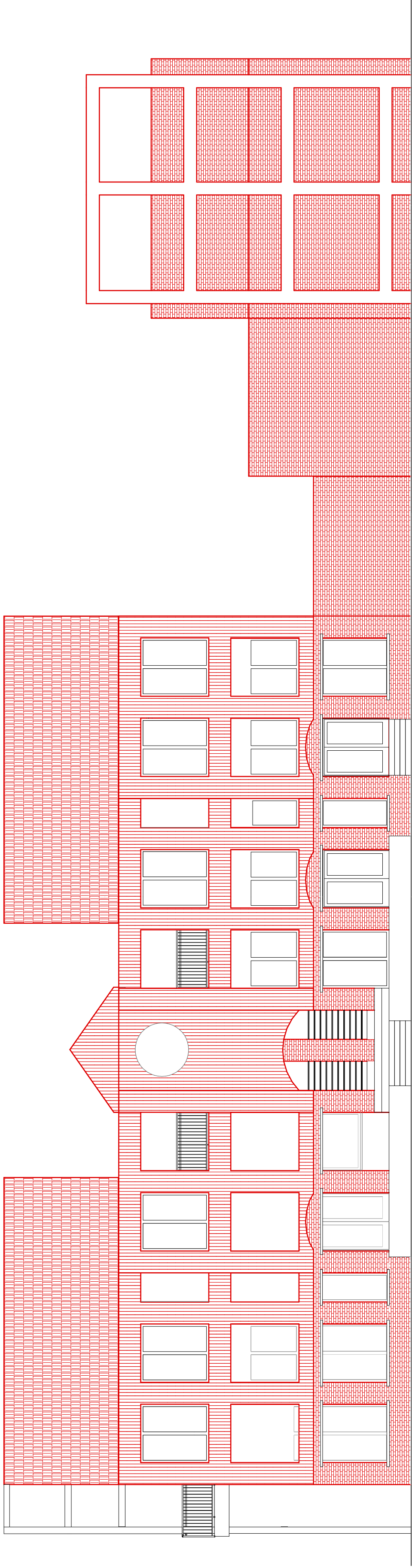


Floor Plans Drawing Scale
Level D1 **1:100**
Avenue de la Croix-Rouge 268/270, Liège



Floor Plans Drawing Scale
Level D2 **1:100**
Avenue de la Croix-Rouge 268/270, Liège

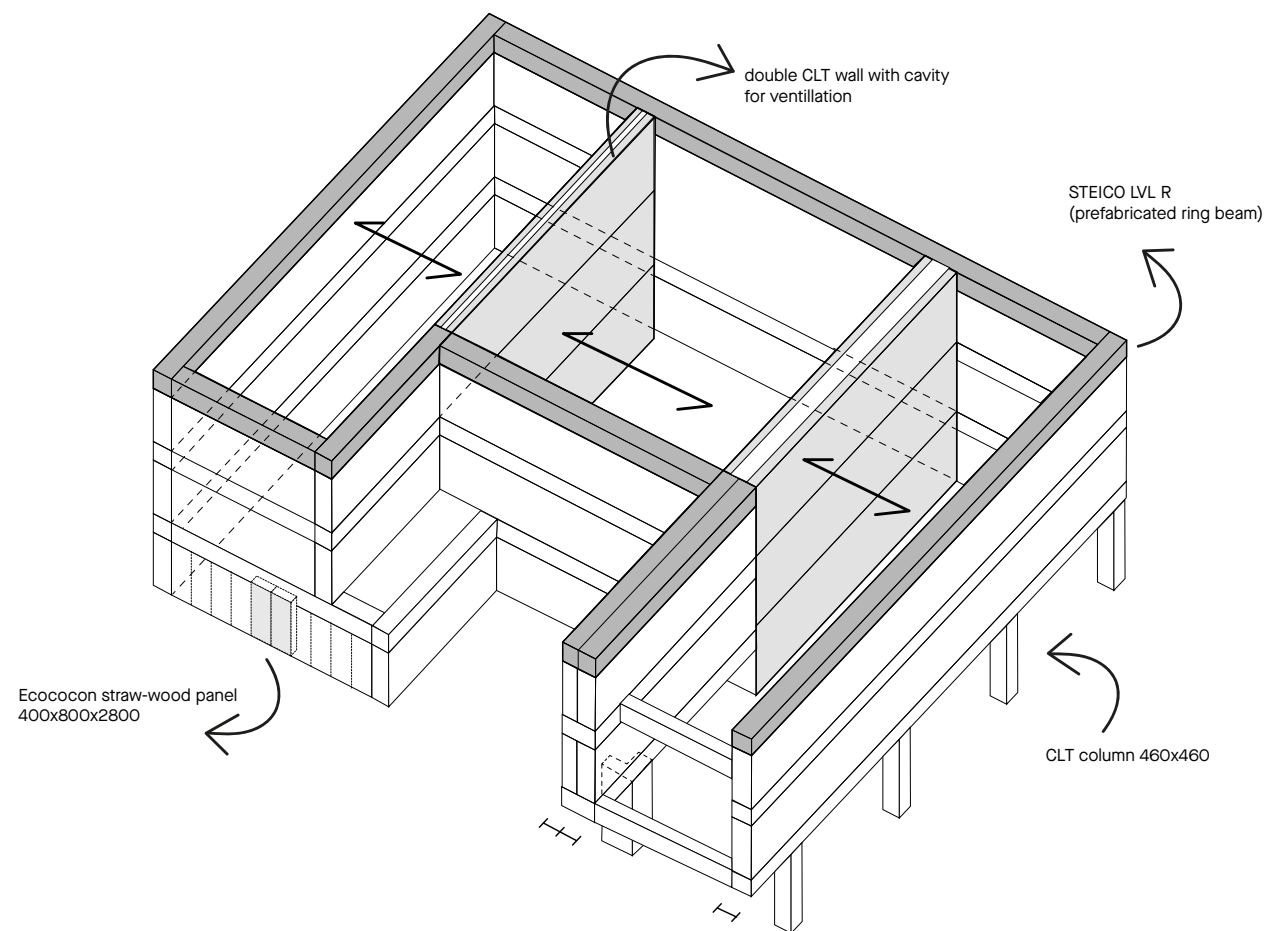
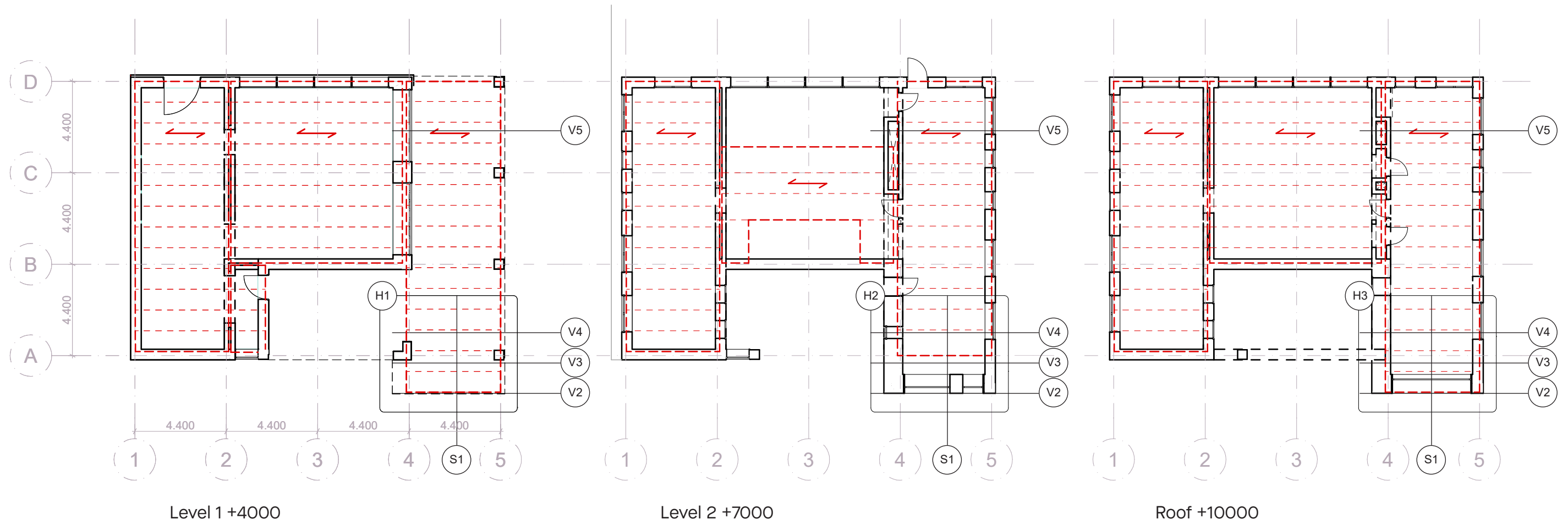


Avenue de la Croix-Rouge 268/270, Liège

D Drawing Scale

Elevation east 1:100

Basia van Vliet | UA graduation Studio 2022-2023



Avenue de la Croix-Rouge 268/270, Liège

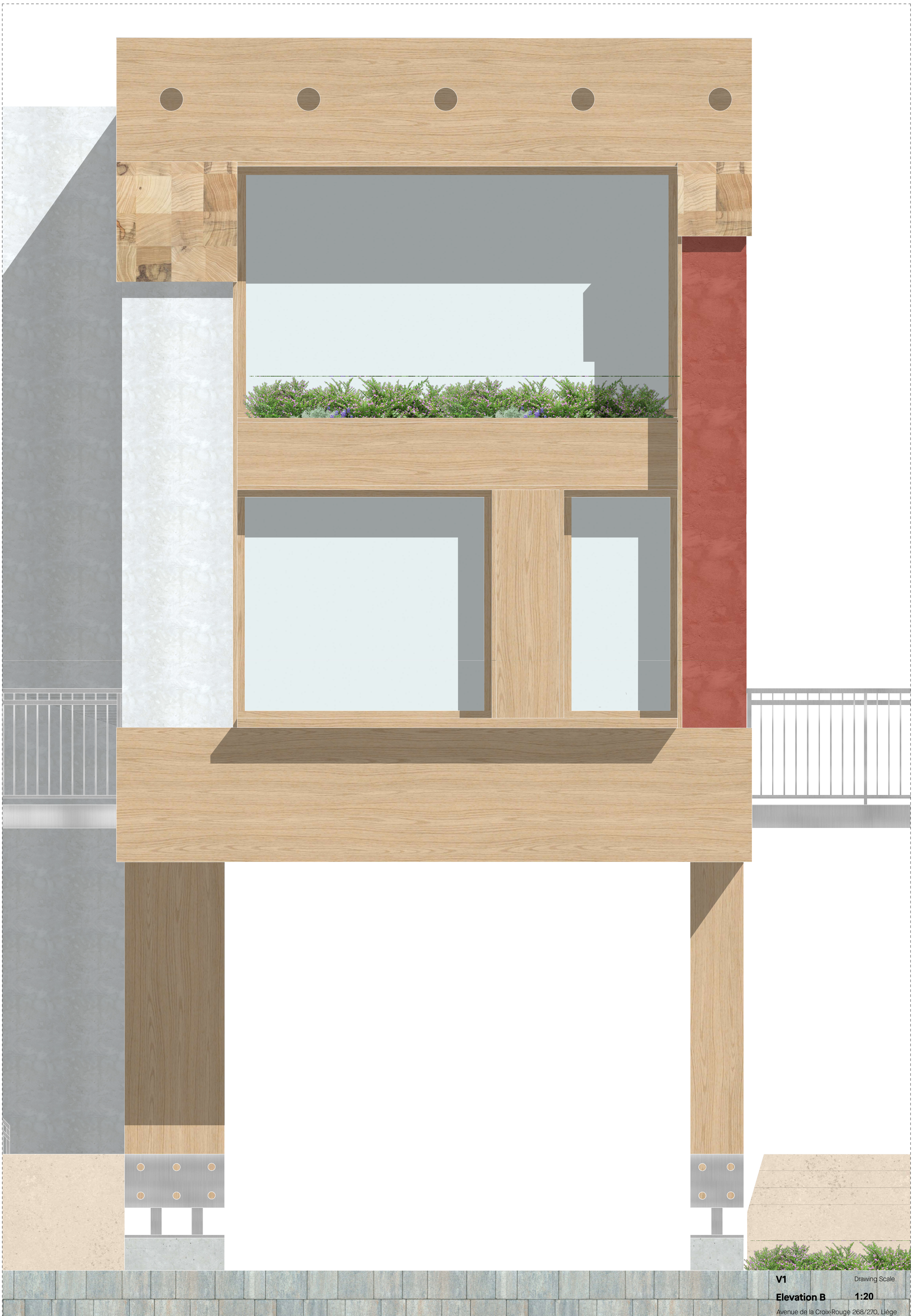
Structural Plans

Drawing Scale

Building A

1:200

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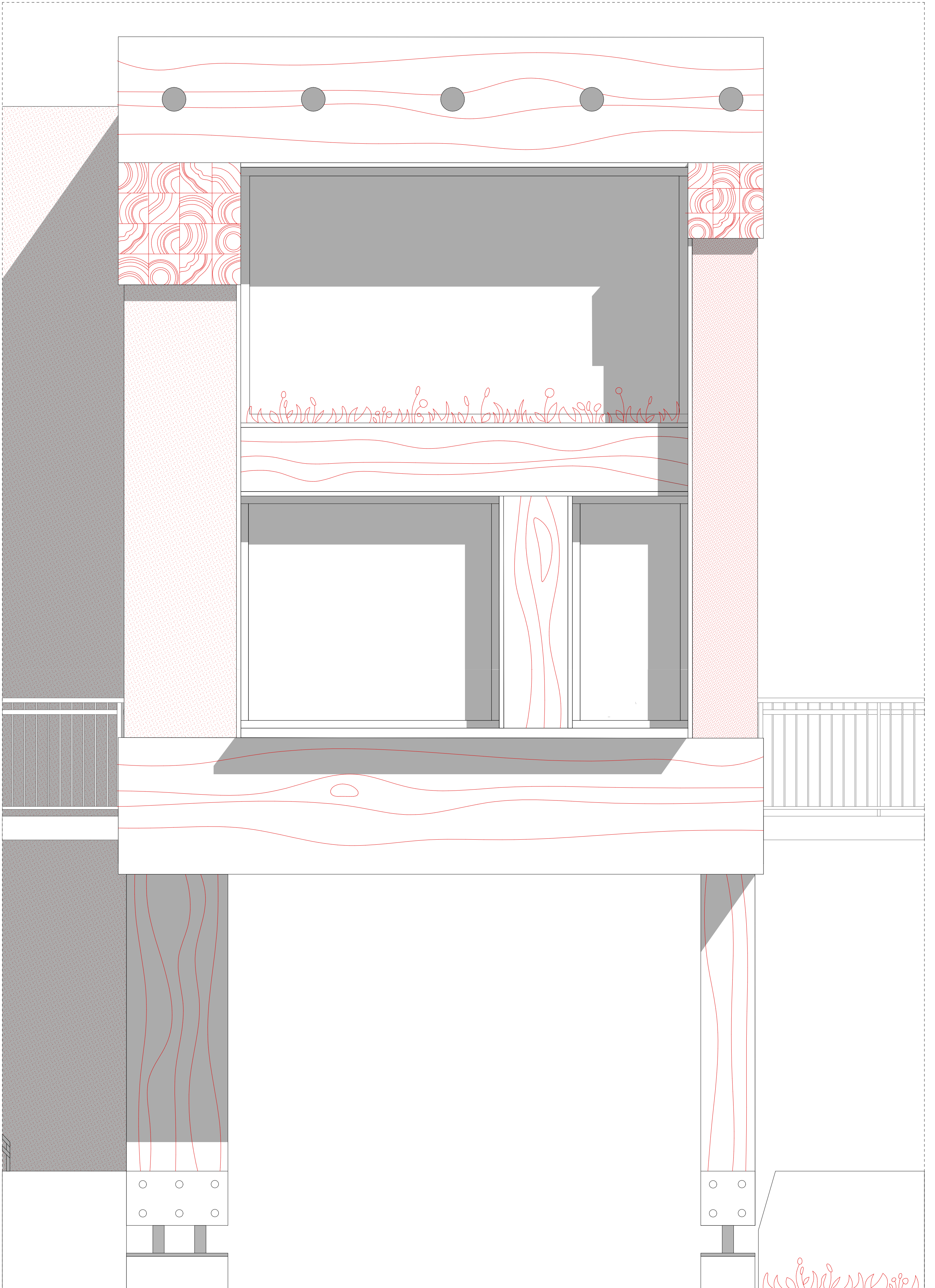
V1

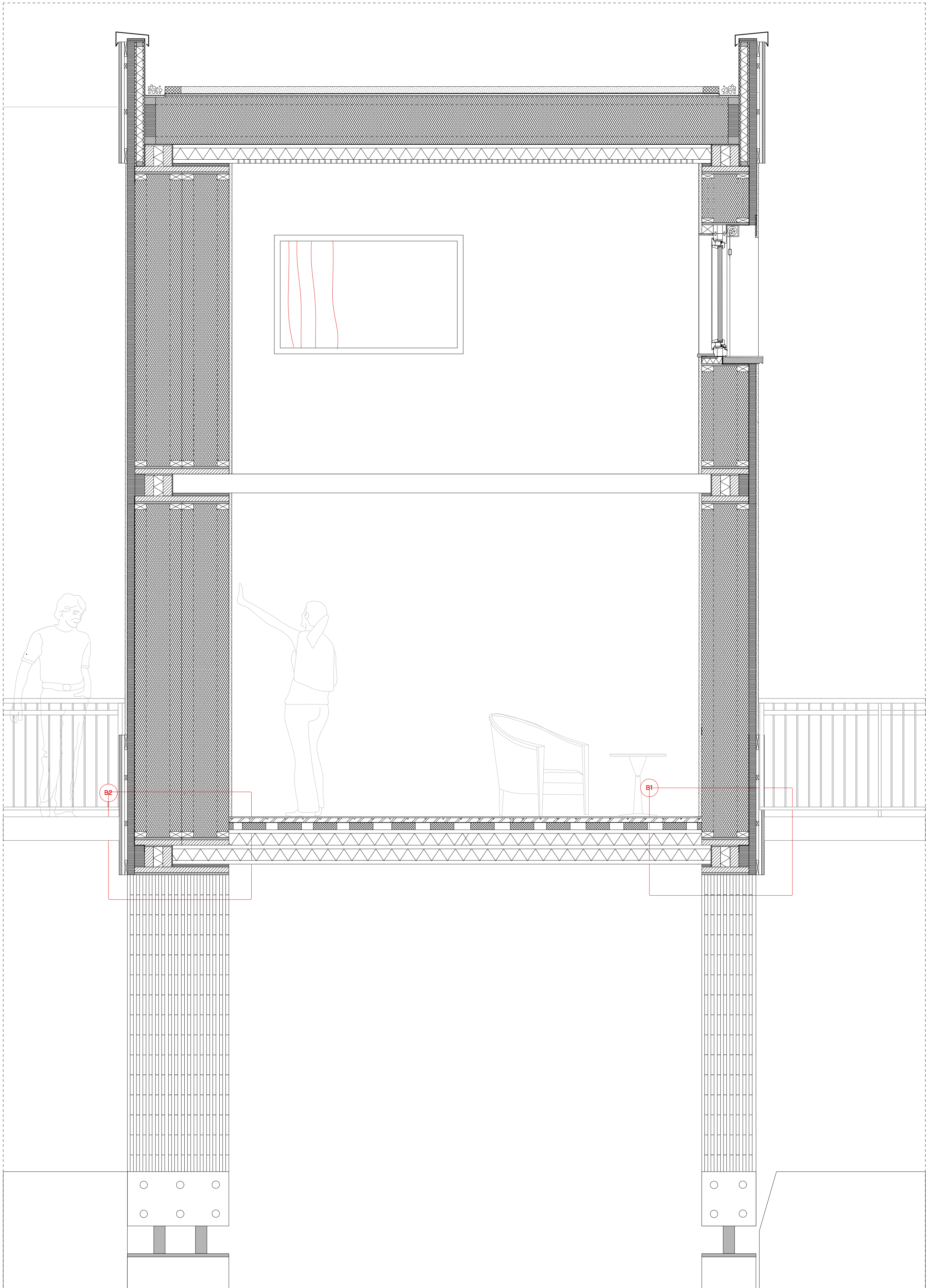
Elevation B

Drawing Scale

1:20

Avenue de la Croix-Rouge 268/270, Liège





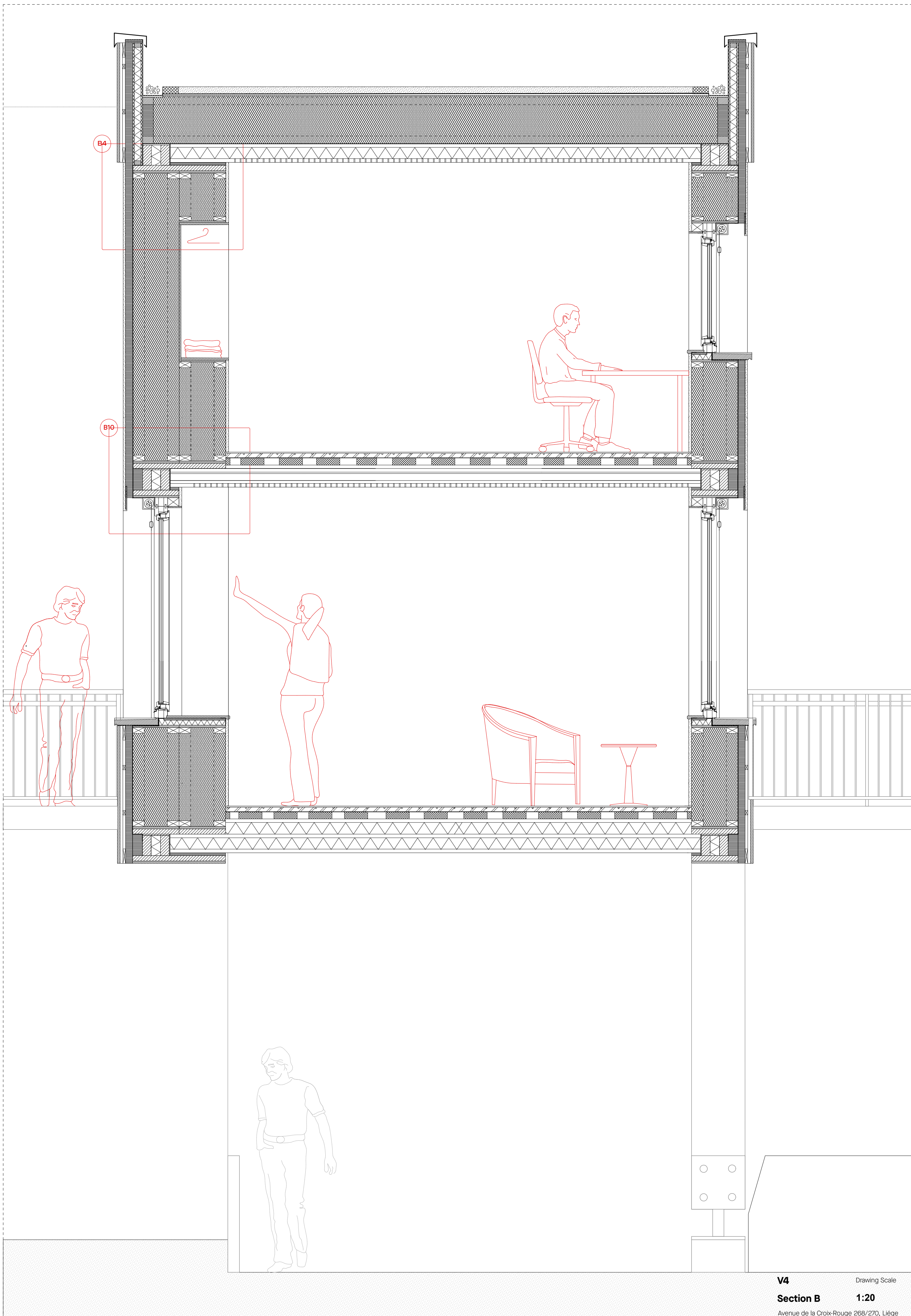
V3

Section B

Drawing Scale

1:20

Avenue de la Croix-Rouge 268/270, Liège



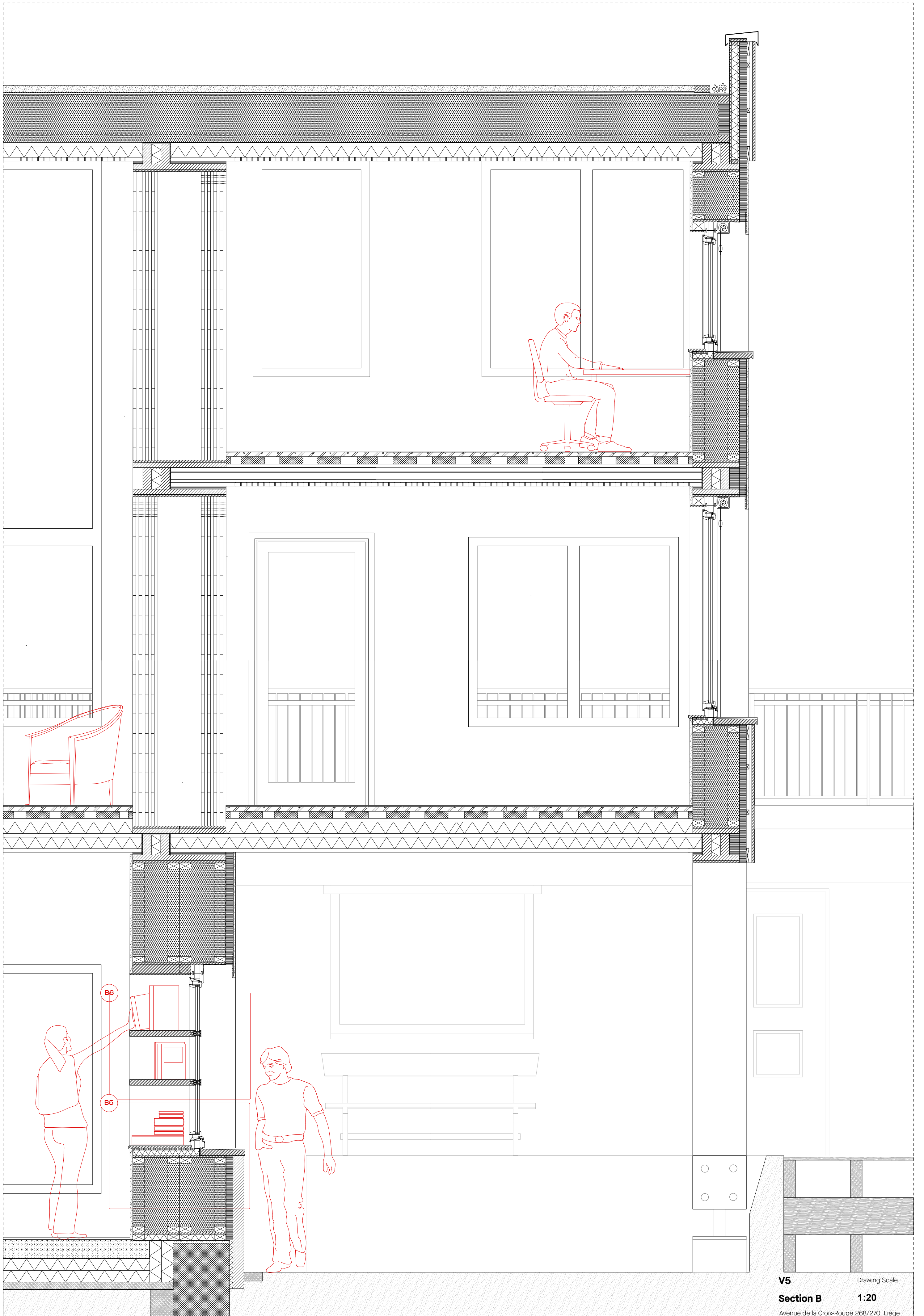
V4

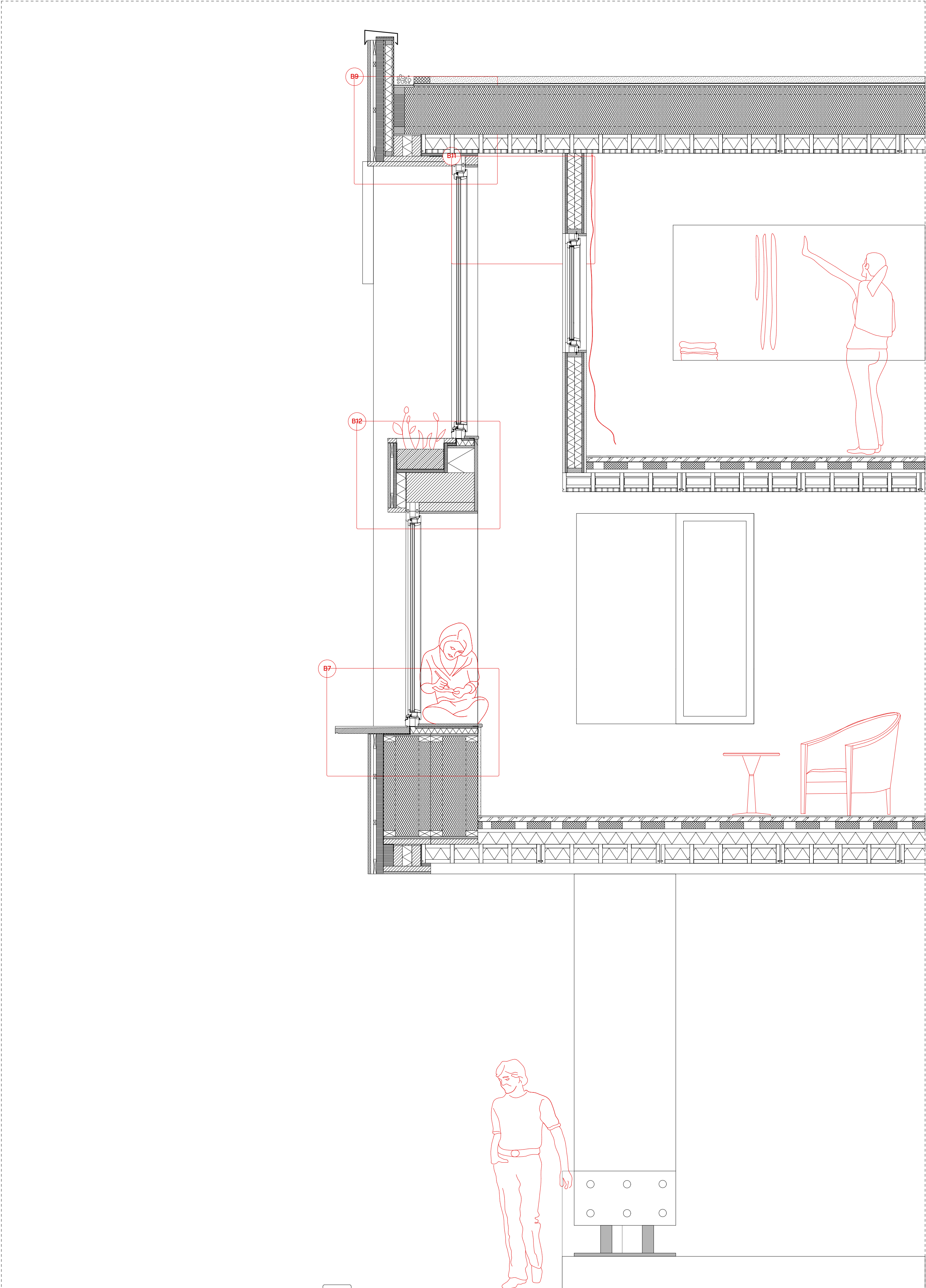
Section B

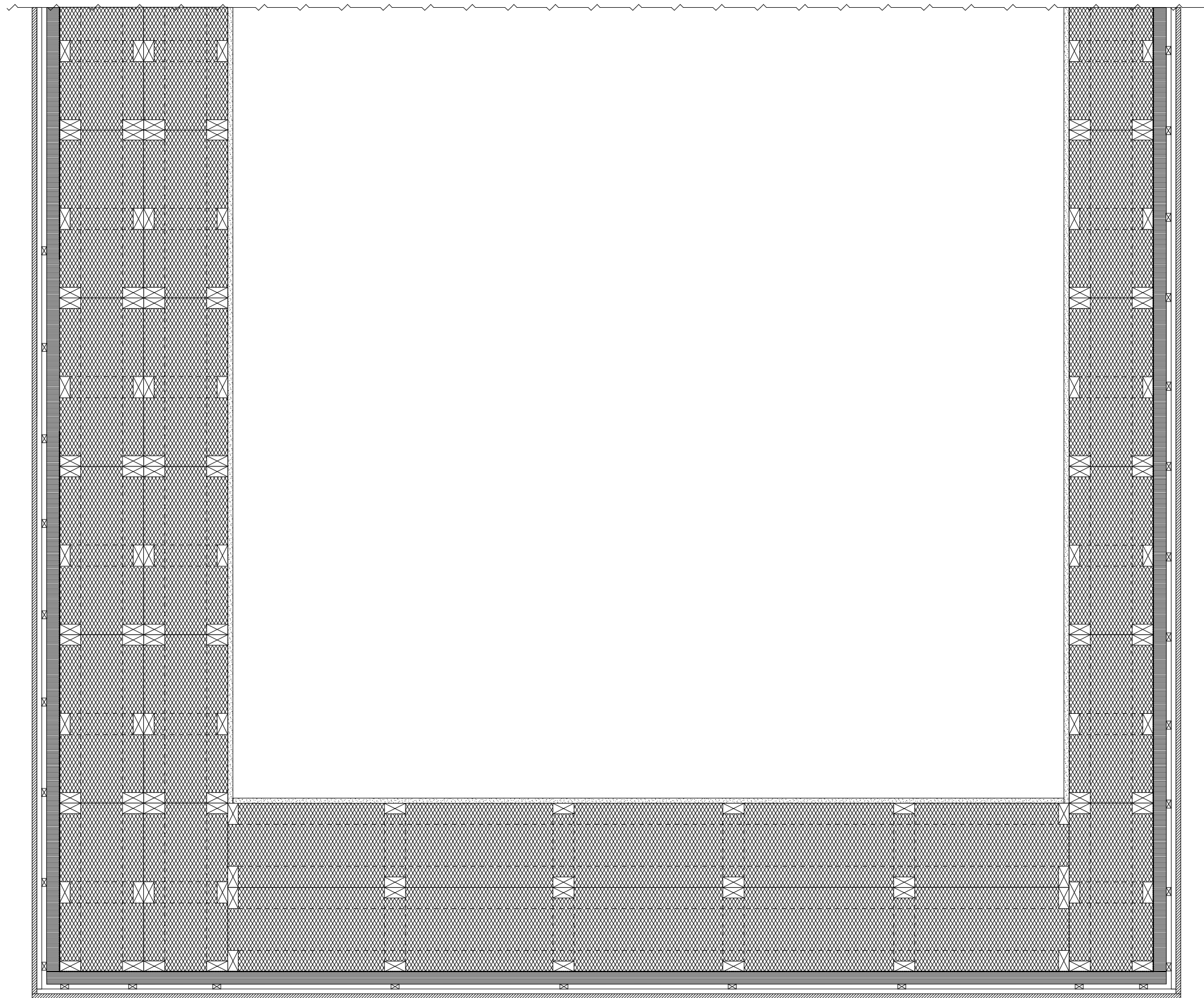
Drawing Scale

1:20

Avenue de la Croix-Rouge 268/270, Liège







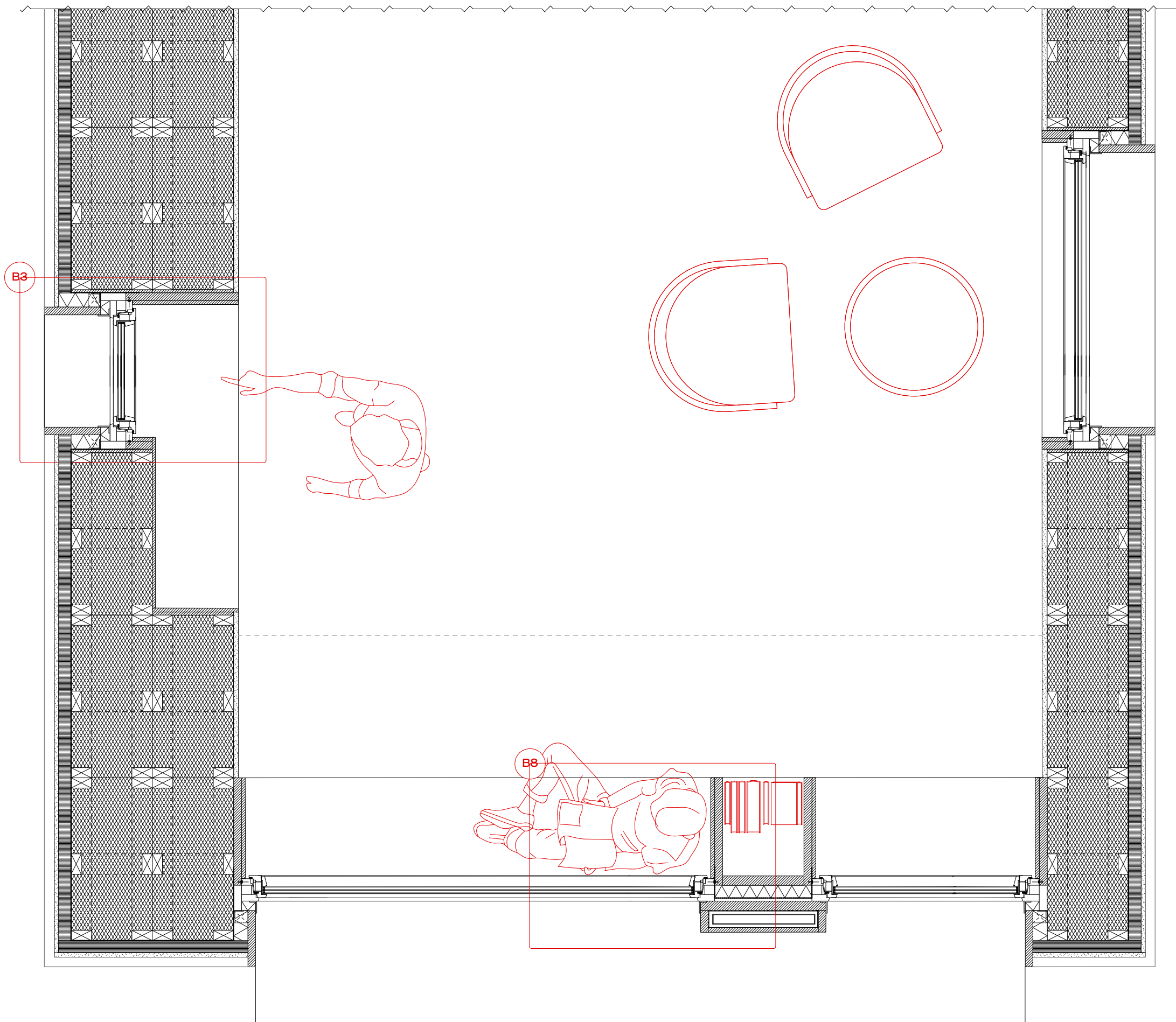
H1

Drawing Scale

Section B

1:20

Avenue de la Croix-Rouge 268/270, Liège



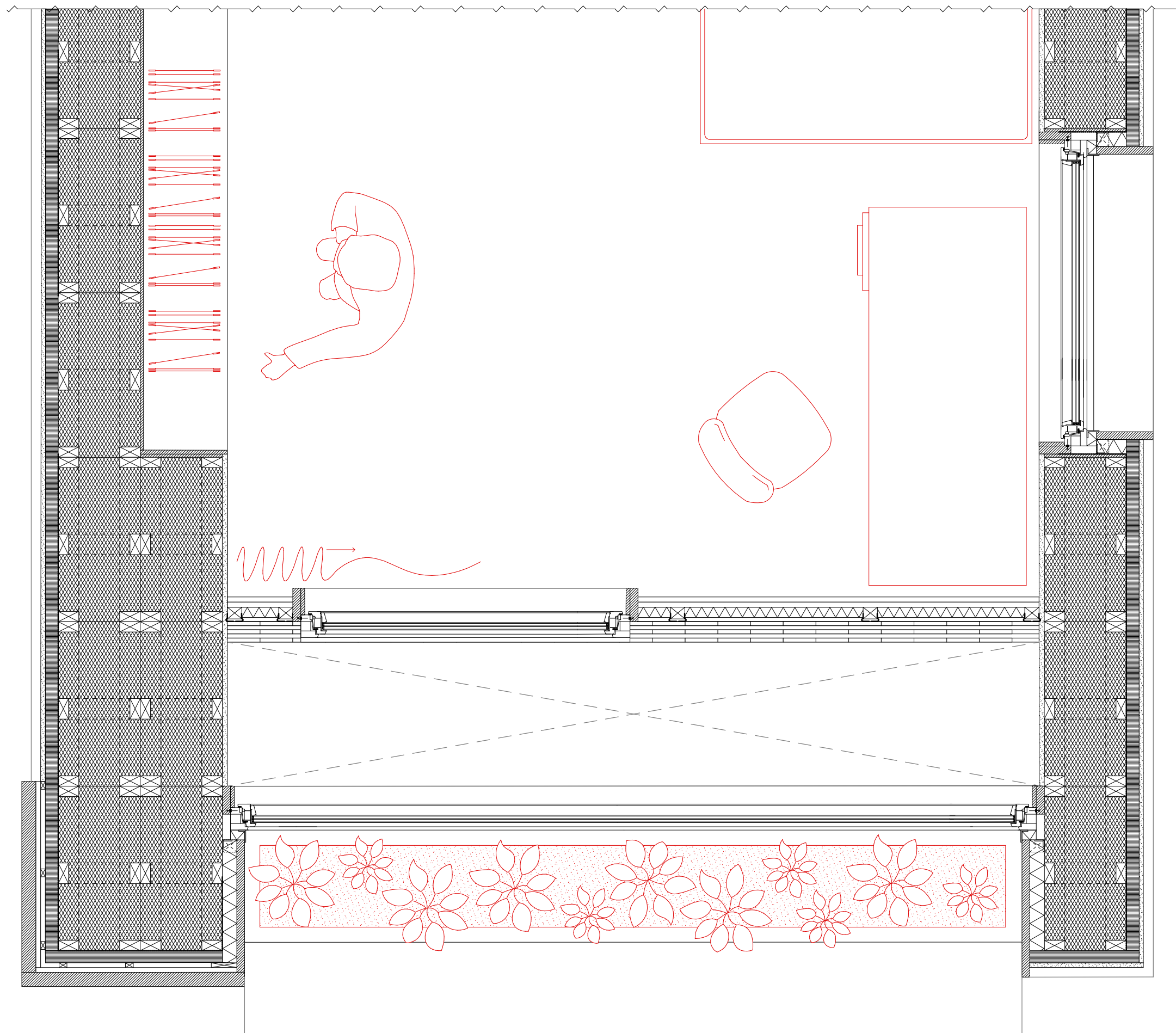
H2

Drawing Scale

Section B

1:20

Avenue de la Croix-Rouge 268/270, Liège



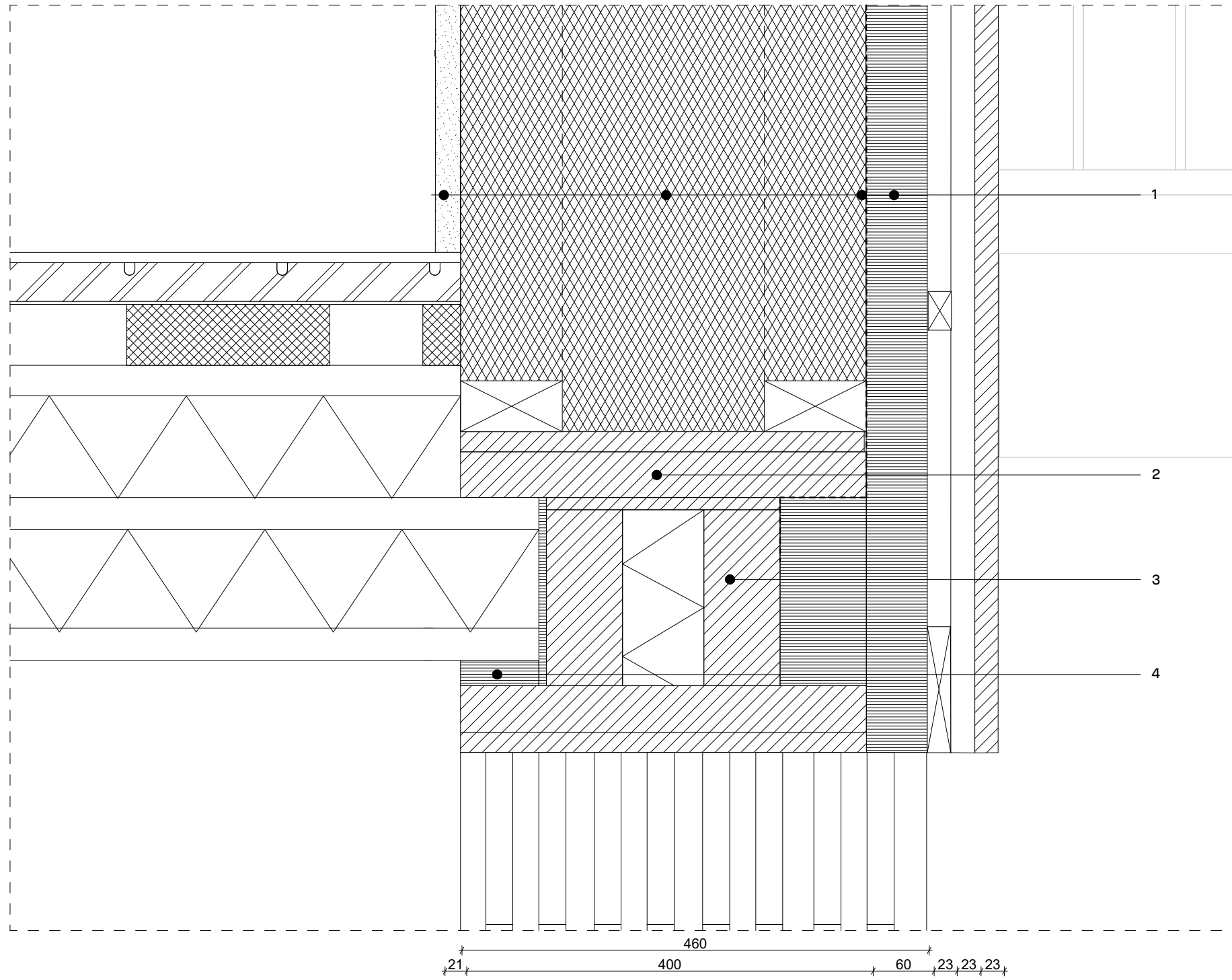
H3

Drawing Scale

Section B

1:20

Avenue de la Croix-Rouge 268/270, Liège



1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrara White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm

straw/wood Ecococon panel 400x800

airtight breather membrane

STEICOprotect Typ H woodfibre board 60mm

ventilated timber facade Platowood Spruce 3x23mm

2. TOP BEAM STEICO LVL X (top beam)

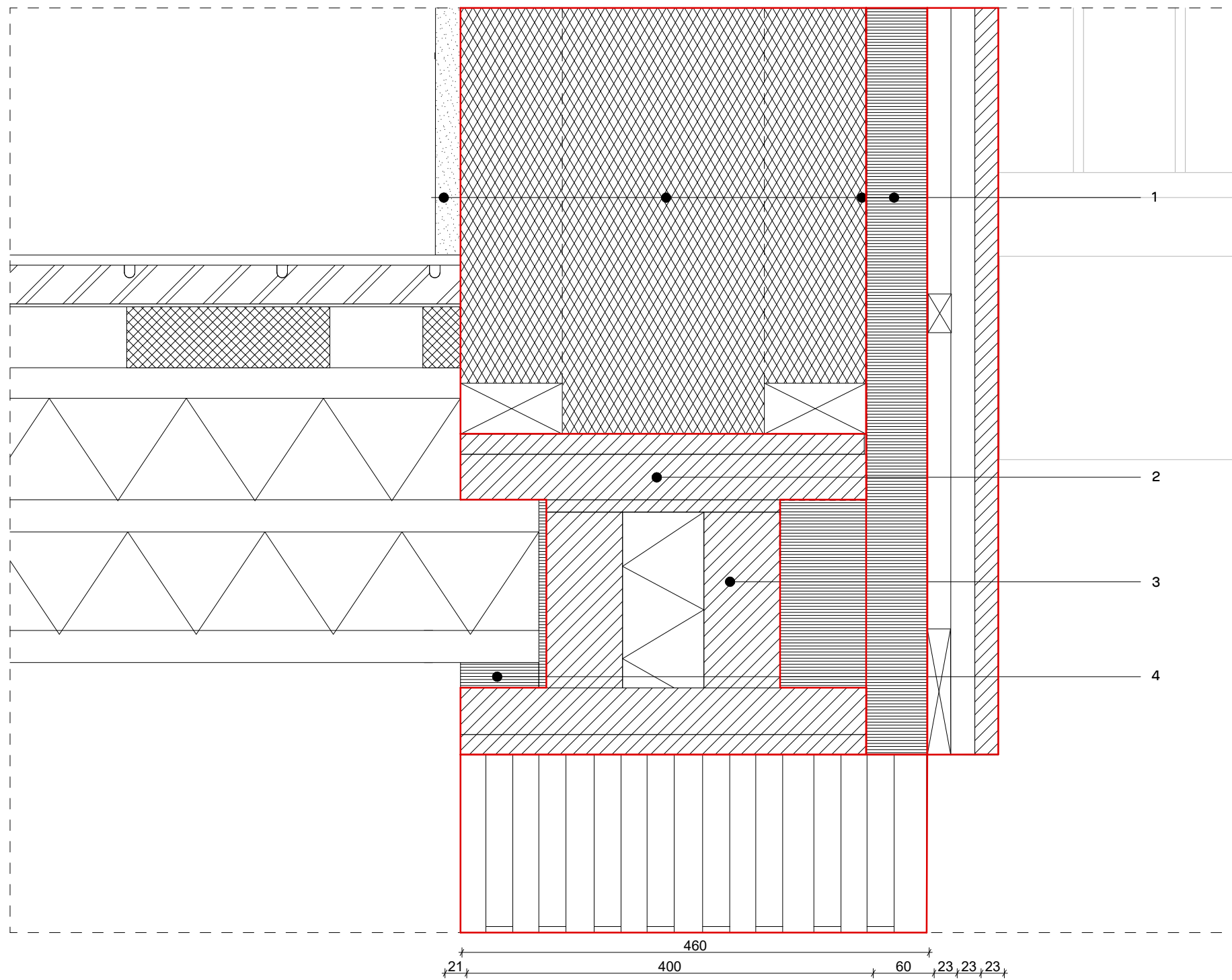
3. PREFABRICATED RINGBEAM STEICO LVL R

4. ACOUSTIC SEPERATION Rothoblaas Xylofon

B1 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



How strong must that wooden **column** be, proudly exhibiting the support it is giving to the gate, the entrance to the site. Ready to prevail over the passing of time, ready to do a better job than concrete ever could. The protagonist of the future, **wood**, anchoring its proof in the ground, they way it has been for centuries. This story is narrated by wood, the brave hero, pioneering in the neighbourhood, truthful to its purpose, exposing itself to its core, setting a precedent. A **ringbeam** connects the four columns to each other, crowning them by showcasing their bearing task. If you look up you can see that each column is equally tasked with carrying the ceiling, a Lignatur floor element spanning 4,4 m with a height of 280mm. The ease with which the floor element can slide into the ringbeams shows the obviousness of this construction, setting a precedent for whats to come: a lightweight element within the precise boundaries dictated by the wooden structure, a straw/wood Ecococon panel 400x800 providing a biobased solution to the need for **isolation**. The 460 mm columns perfectly lining up with the 400mm straw/wood panel and 60mm of STEICOprotect Typ H woodfibre board, seperated only by a thin layer of **airtight breather membrane**. Instead of a facade plinth made of stone, a vapour permeable wooden cladding of the same height, once more shows that wood is tough and can withstand time while staying truthful to its age.

1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrara White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm

straw/wood Ecococon panel 400x800
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 ventilated timber facade Platowood Spruce 3x23mm

2. TOP BEAM STEICO LVL X (top beam)

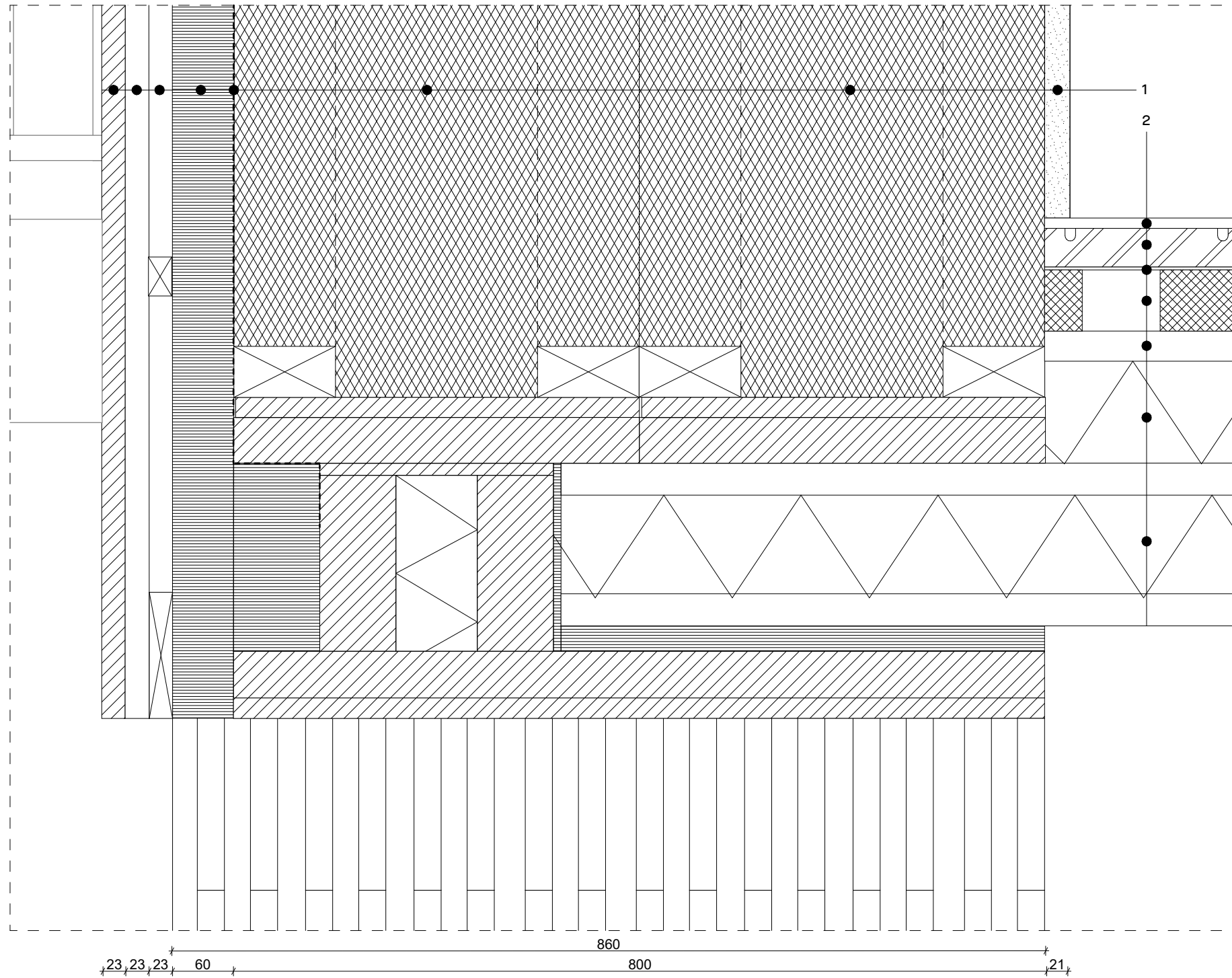
3. PREFABRICATED RINGBEAM STEICO LVL R

4. ACOUSTIC SEPERATION Rothoblaas Xylofon

B1 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrara White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 ventilated timber facade Platowood Spruce 3x23mm
 wooden plank 200mm horizontal

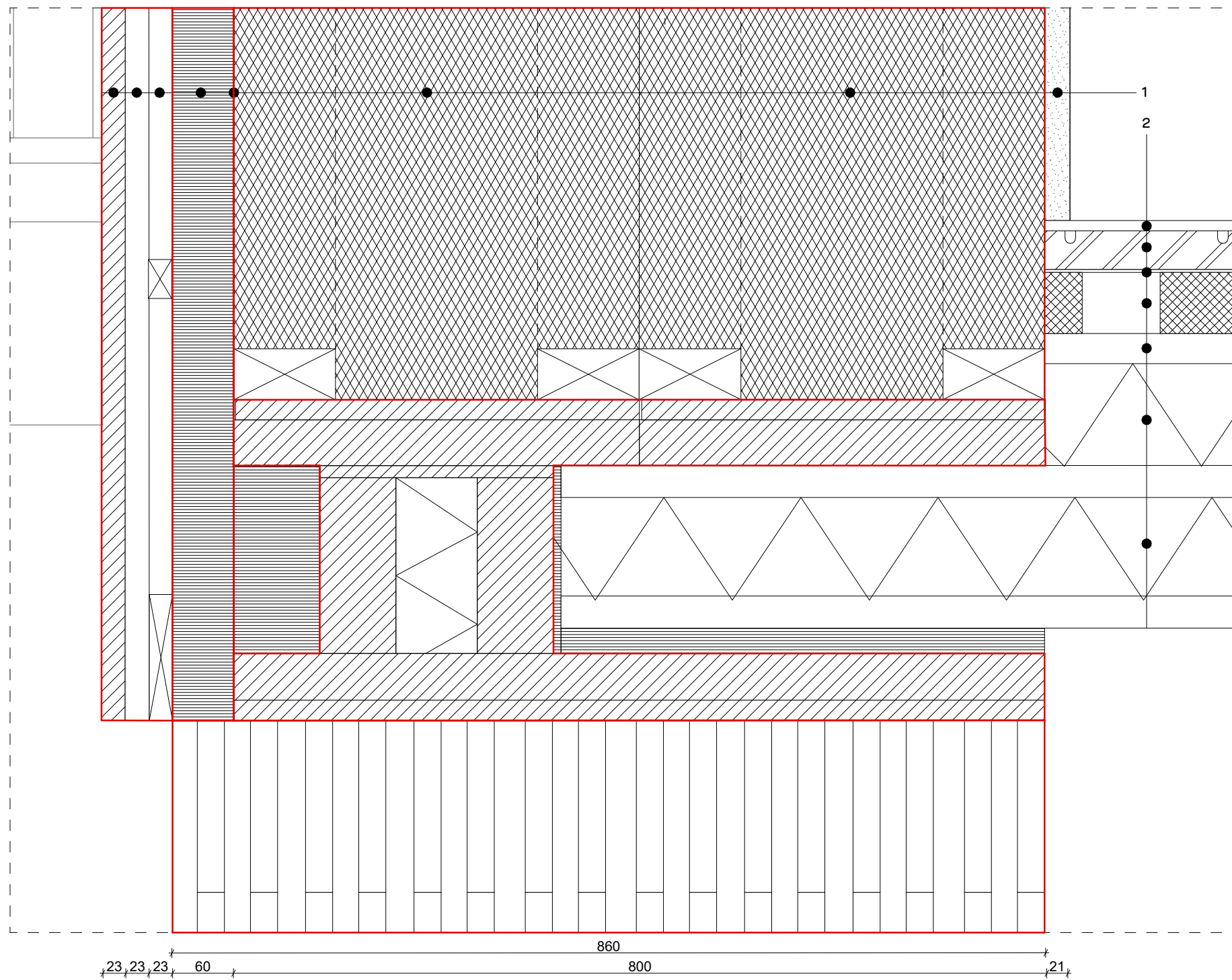
2. FLOOR

Marmoleum
 Knauf GIFAfloor Klima with heating 38 mm
 Landolt TS Silent 3 mm
 concrete flags 60 mm
 Isover EP 2, 30 mm, $s' \leq 15 \text{ MN/m}^3$, on the
 edge Thermofloor
 wood fibre 100 mm
 LIGNATUR surface element (LFE 200)
 insulated

B2 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



Already in the first encounter with the site, before even entering, our protagonist makes a strong statement, staying true to what he promised: to be truthful to the precise boundaries dictated by the wooden structure. Hence, the challenge, if the structure is doubled, the isolation layer must be doubled as well. One Ecococon panel of 400 mm is joined by another of 400 mm making the perfect pair, and together with the 60mm woodfibre board they match the 860 mm of the wooden structure seamlessly.

1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrara White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 ventilated timber facade Platowood Spruce 3x23mm
 wooden plank 200mm horizontal

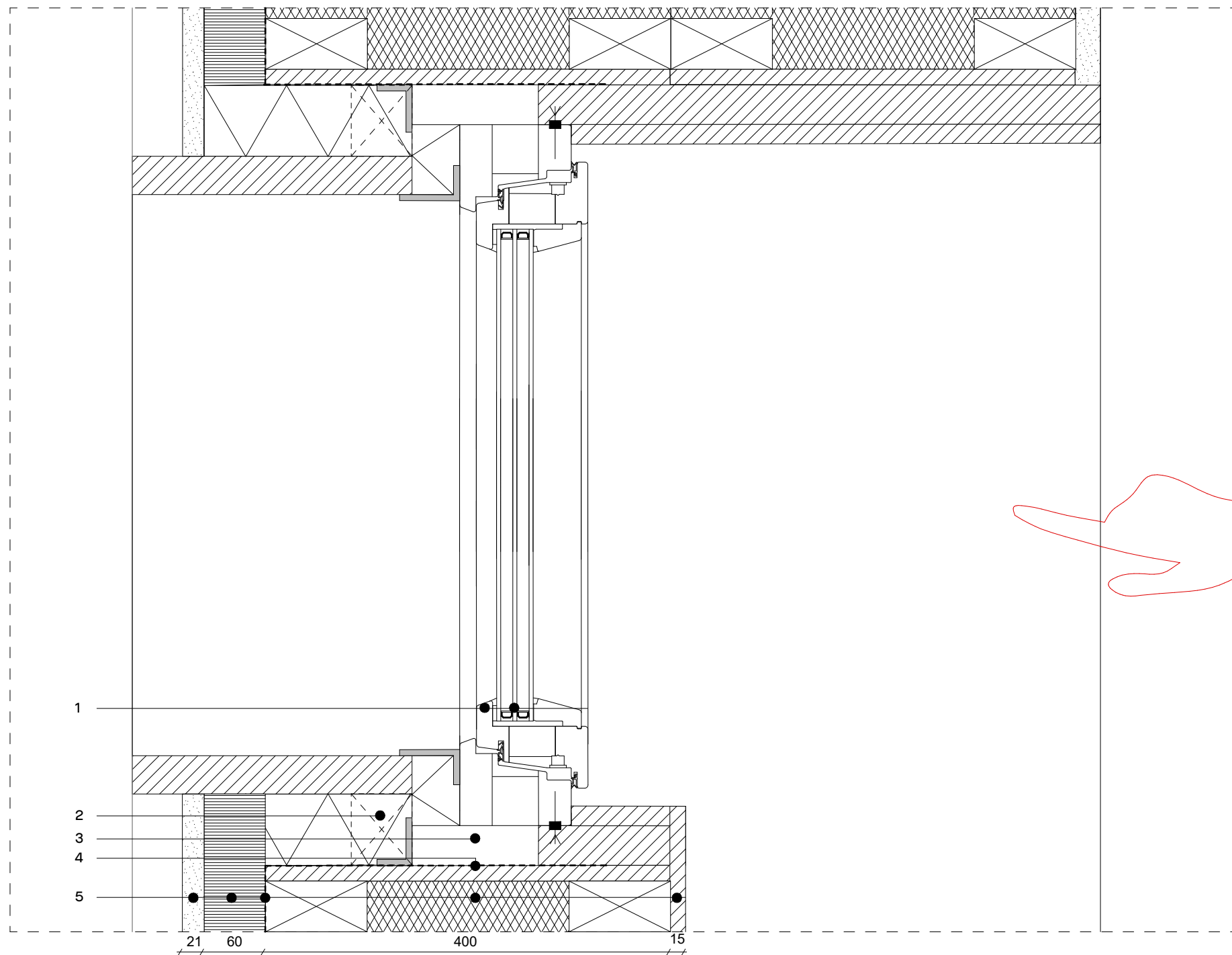
2. FLOOR

Marmoleum
 Knauf GIFAfloor Klima with heating 38 mm
 Landolt TS Silent 3 mm
 concrete flags 60 mm
 Isover EP 2, 30 mm, $s' \leq 15 \text{ MN/m}^3$, on the edge Thermofloor
 wood fibre 100 mm
 LIGNATUR surface element (LFE 200)
 insulated

B2 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

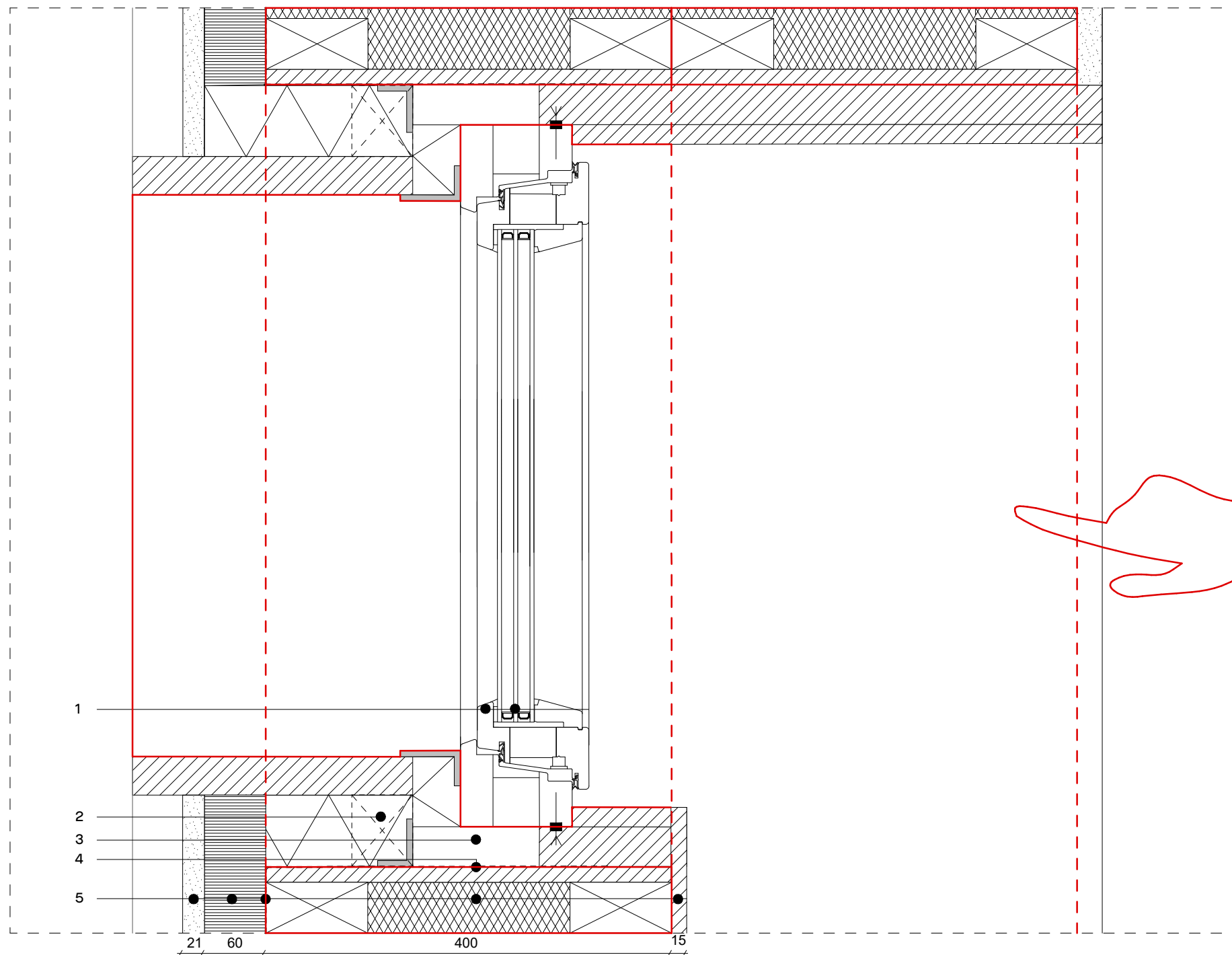


- 1. WINDOW**
 passive airtight window frame ENERGATE 1042+
 triple HR+++ glass
- 2. LINTEL ACHORING** wood 60×70mm
- 3. INSTALLATION GAP**
- 4. AIRTIGHT BREATHER MEMBRANE**
- 5. EXTERIOR WALL**
 vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrara White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm
 STEICOprotect Typ H woodfibre board 60mm
 airtight breather membrane
 straw/wood Ecococon panel 400×800
 plywood 15 mm

B3 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



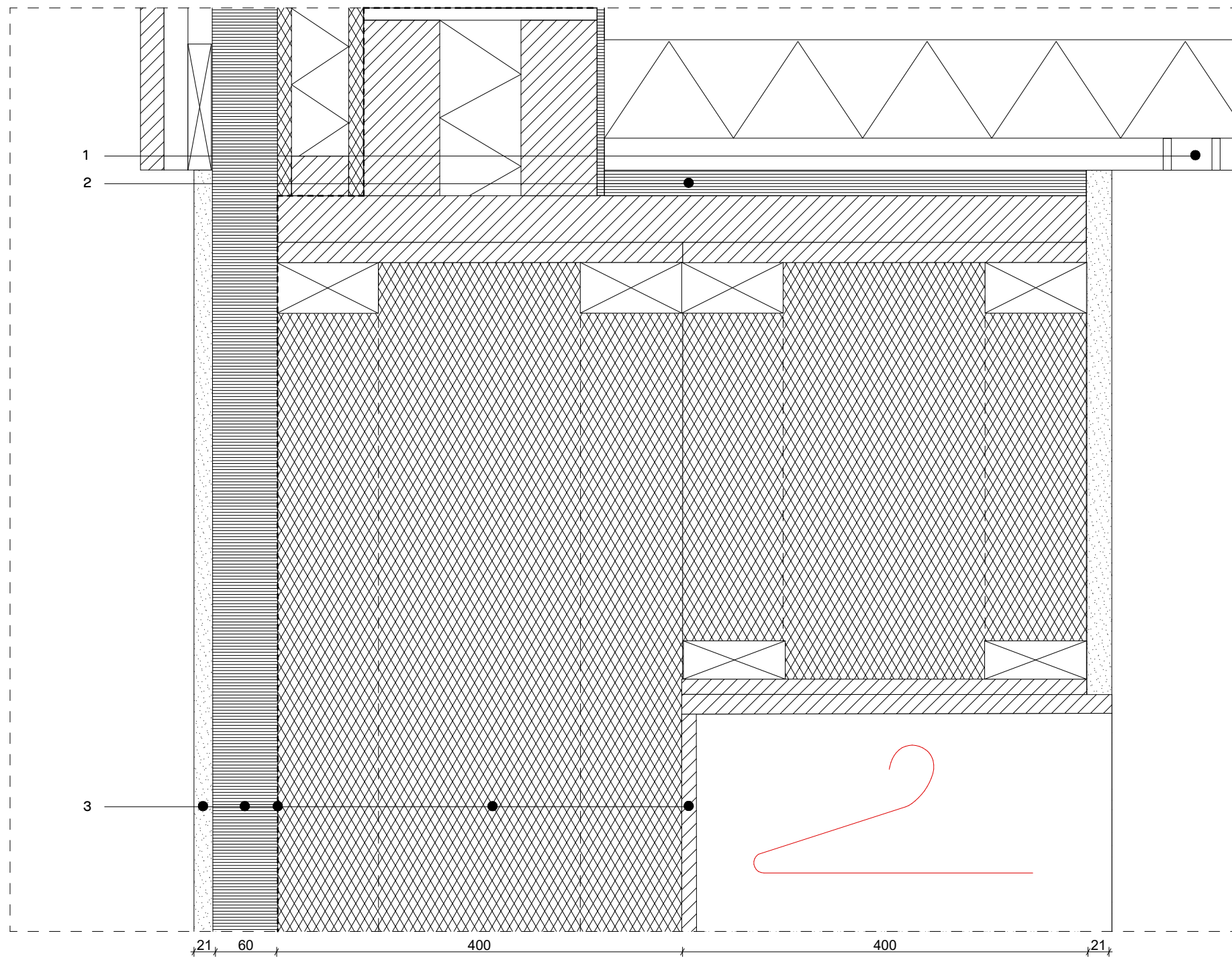
This doubling in the structure creates the possibility for this layer to fulfill more than just the purpose of isolation. While one layer of panels is enough to accommodate the structural needs as well as the need for isolation and the occasional window or door, the second panel shows an investigation into the use of elements, aiding the manipulation of elements, into objects that ensue a certain use of the element and thereby the space. Take this window for example. Its shape and height is based on a type found in the neighbourhood, narrow windows near doors, with an unobstructed view of the space in front of the front door. Usually they are just used for a quick check if the doorbell rings, or if you'd here a sound outside. But what if you could include them more in the "inkom" instead of just adding them for their incidental functionality. Could making it a place to sit, stay, take of your shoes, increase the sense of "eyes of the street", a visual safeguarding without the need for an instigator, something happening?

1. WINDOW
passive airtight window frame ENERGATE 1042+
triple HR+++ glass
2. LINTEL ACHORING wood 60×70mm
3. INSTALLATION GAP
4. AIRTIGHT BREATHER MEMBRANE
5. EXTERIOR WALL
vapour permeable certified BioLime render system 21mm
BioLime Finish Coat Carrara White 3mm
BioLime Brown Coat 6mm
BioLime Scratch Coat with embedded Mesh 6mm
BioLime Bond Coat 3mm
STEICOprotect Typ H woodfibre board 60mm
airtight breather membrane
straw/wood Ecococon panel 400×800
plywood 15 mm

B3 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. ACOUSTIC CEILING LIGNATUR surface element (LFE 200) acoustics type 3.1

2. ACOUSTIC SEPERATION Rothoblaas Xylofon

3. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm

BioLime Finish Coat Sienna 3mm

BioLime Brown Coat 6mm

BioLime Scratch Coat with embedded Mesh 6mm

BioLime Bond Coat 3mm

STEICOprotect Typ H woodfibre board 60mm

airtight breather membrane

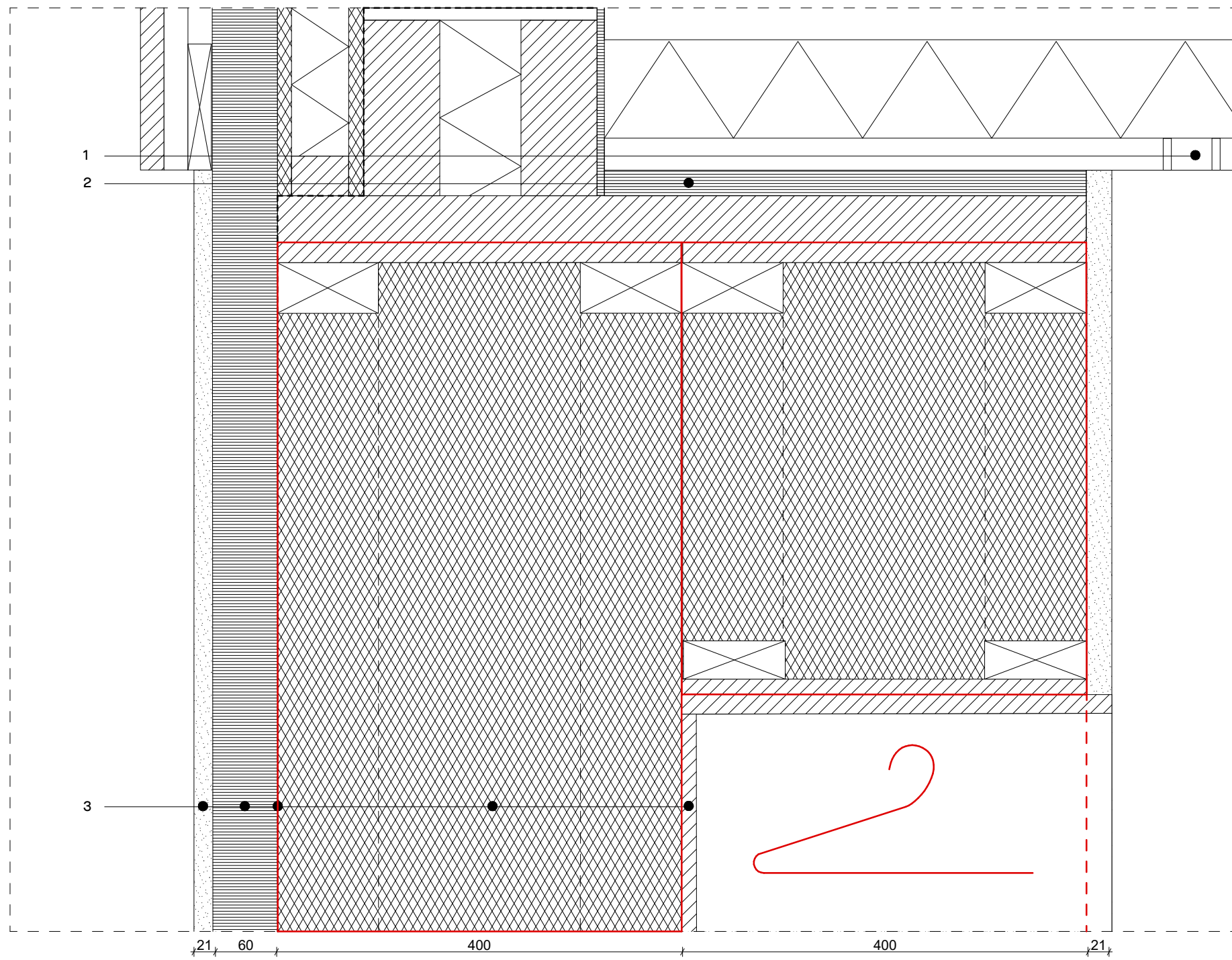
straw/wood Ecococon panel 400x800

plywood 15 mm

B4 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. ACOUSTIC CEILING LIGNATUR surface element (LFE 200) acoustics type 3.1

2. ACOUSTIC SEPERATION Rothoblaas Xylofon

3. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm

BioLime Finish Coat Sienna 3mm

BioLime Brown Coat 6mm

BioLime Scratch Coat with embedded Mesh 6mm

BioLime Bond Coat 3mm

STEICoprotect Typ H woodfibre board 60mm

airtight breather membrane

straw/wood Ecococon panel 400x800

plywood 15 mm

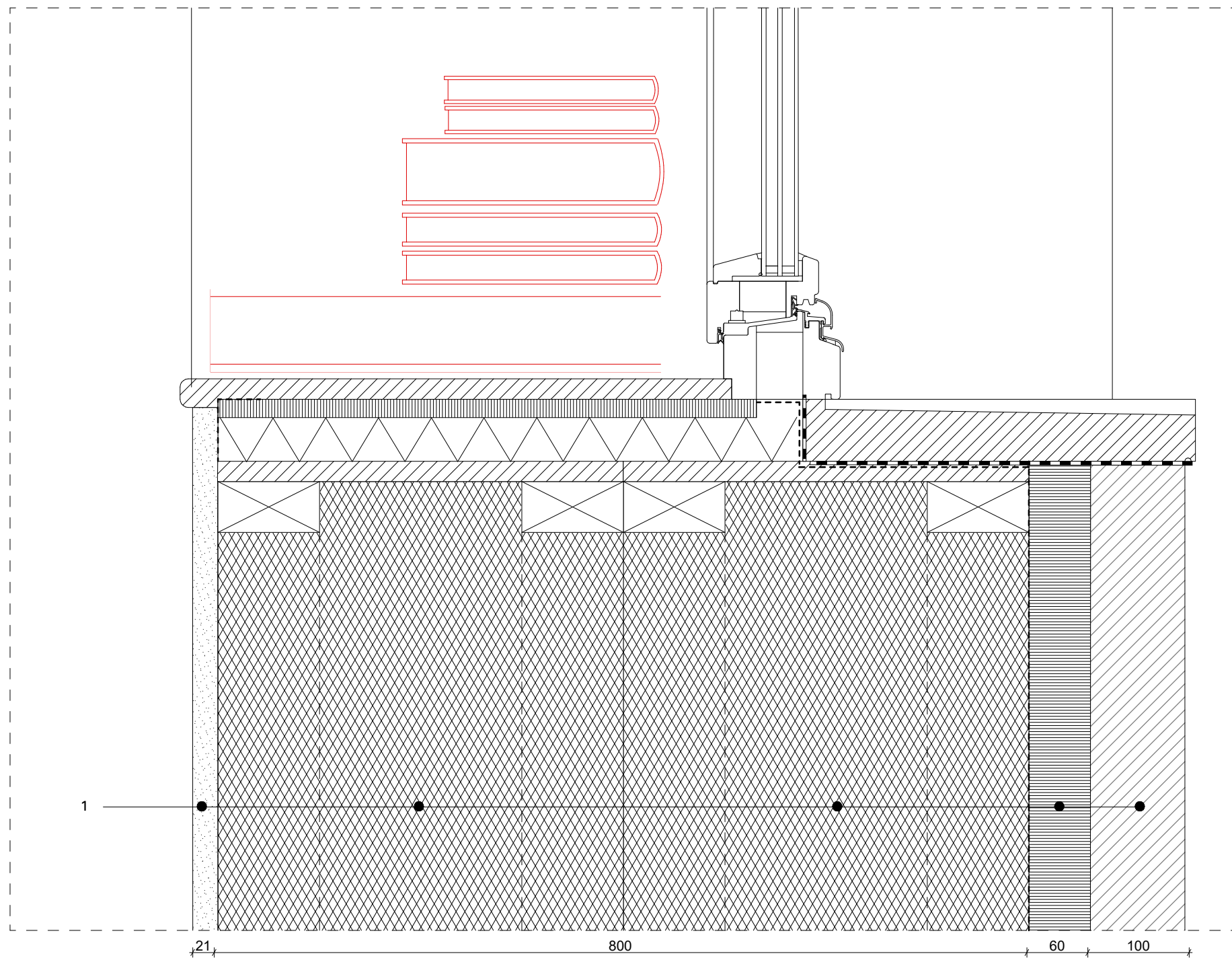
One floor up, shows that the second layer of panels can also be used for more funtional measurers, such as a built in closed for example.

B4

Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



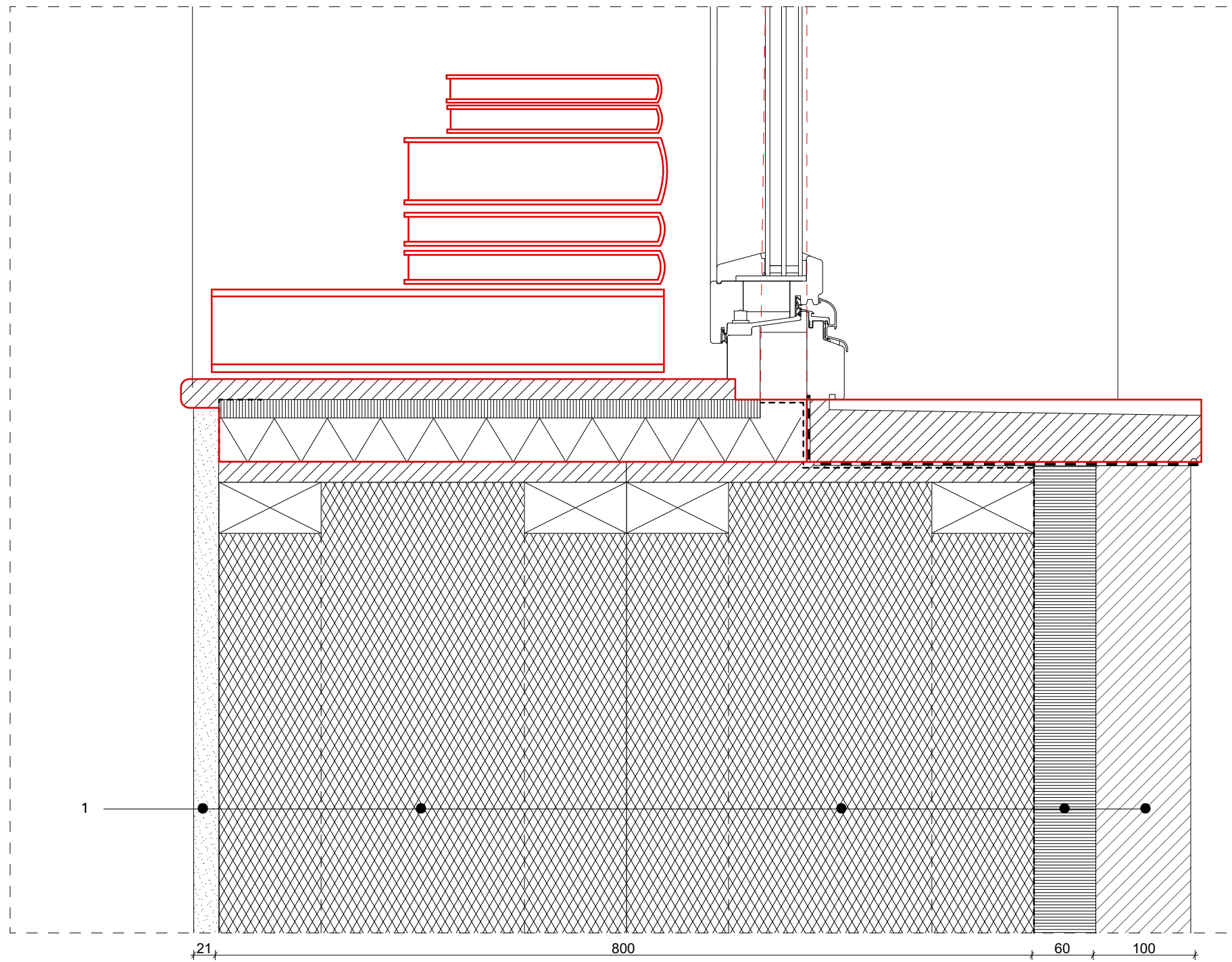
1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Sienna 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 airtight breather membrane
 STEICprotect Typ H woodfibre board 60mm
 limestone 100 mm

B5 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



One floor down shows another way the window element can be manipulated, making it into shelves to store books. The window combines a functional purpose (shelving) with a representational purpose, using this element to display the use of the space behind it: the reading room. The same has been done in the community kitchen, where the sills are extended inwards, creating a space people can eat, cook and sit around.

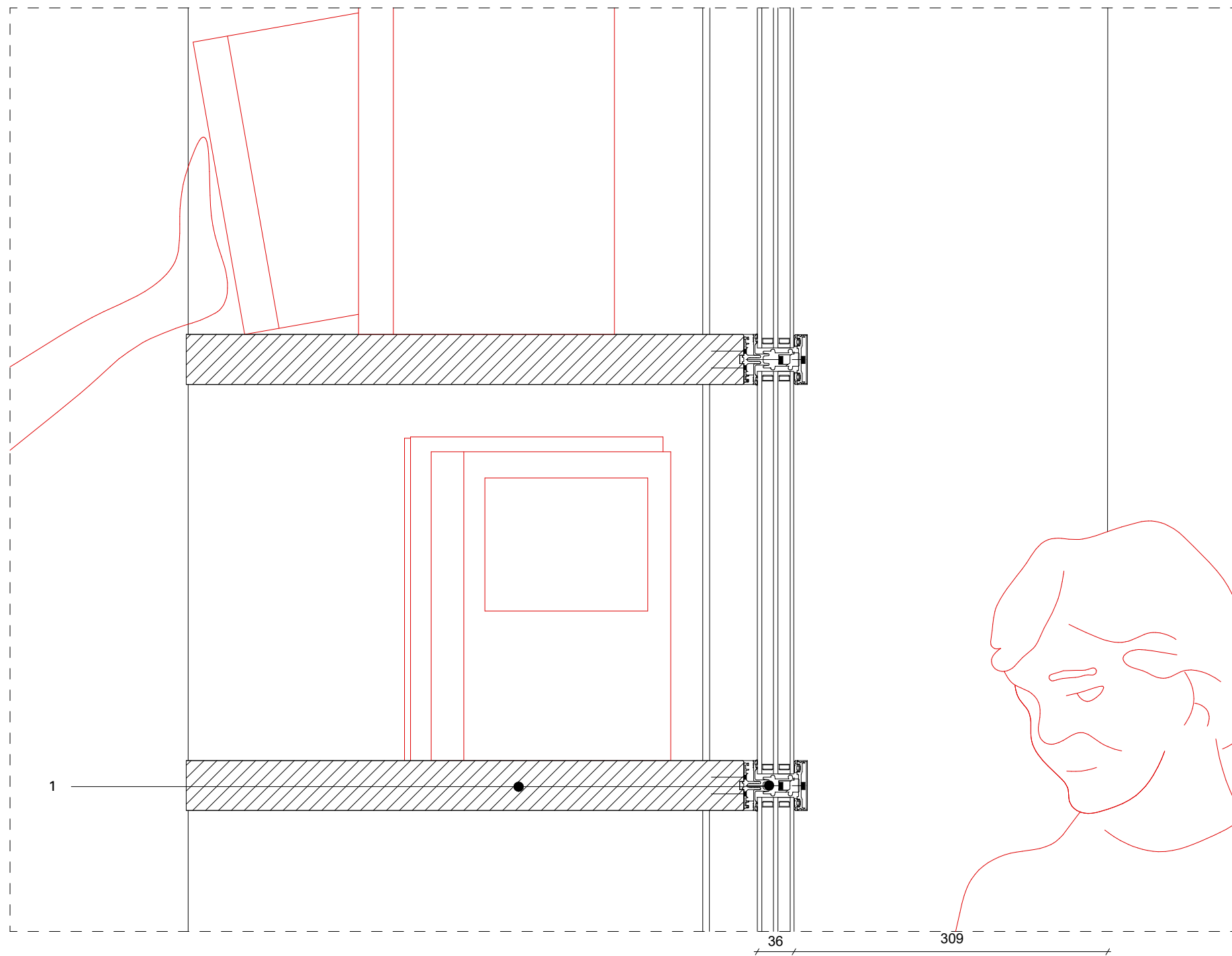
1. EXTERIOR WALL

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Sienna 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 limestone 100 mm

B5 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

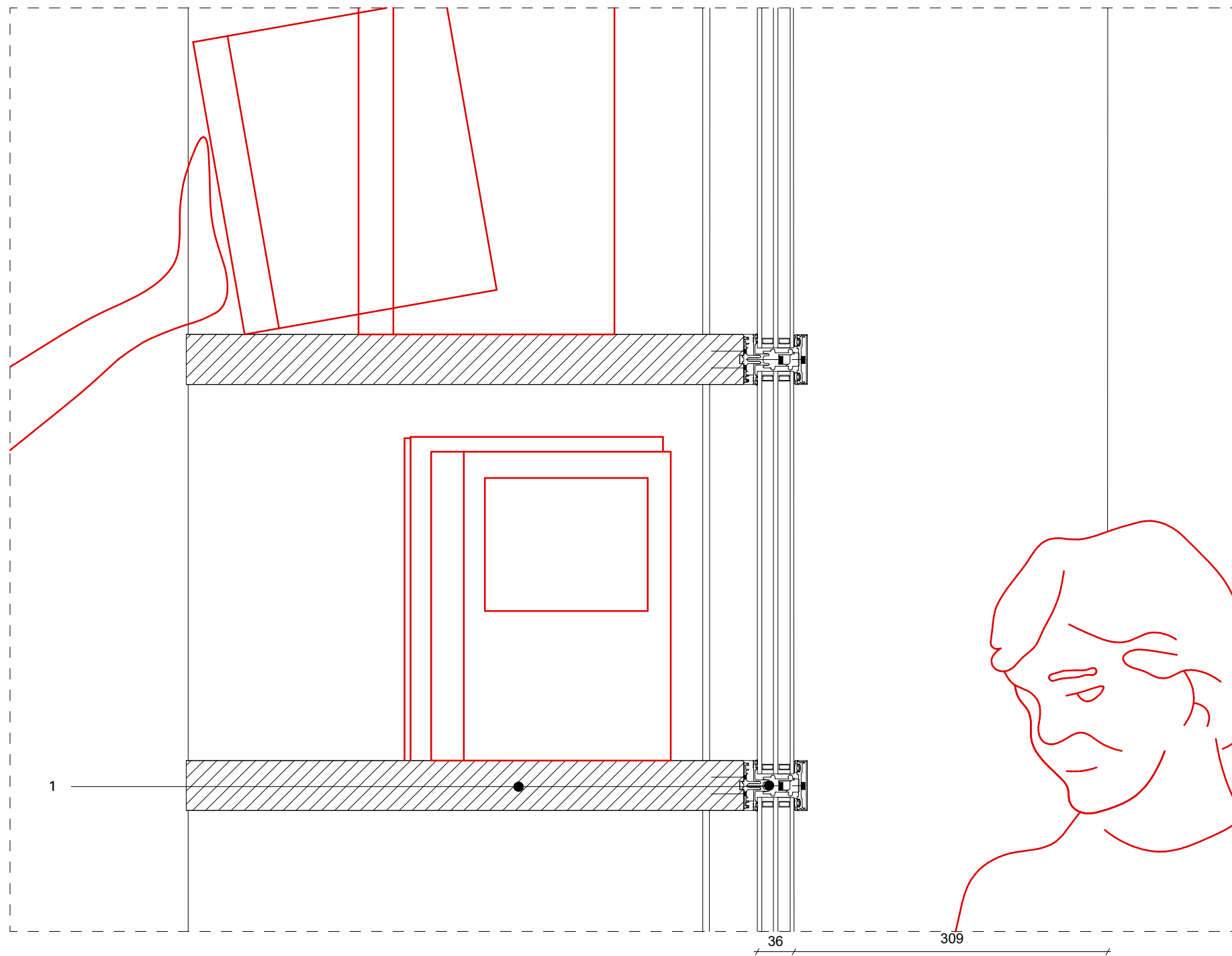


1. WINDOW
wooden shelve 50 mm
Wood-Aluminium Curtain Wall batimet TM60 SE

B6 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



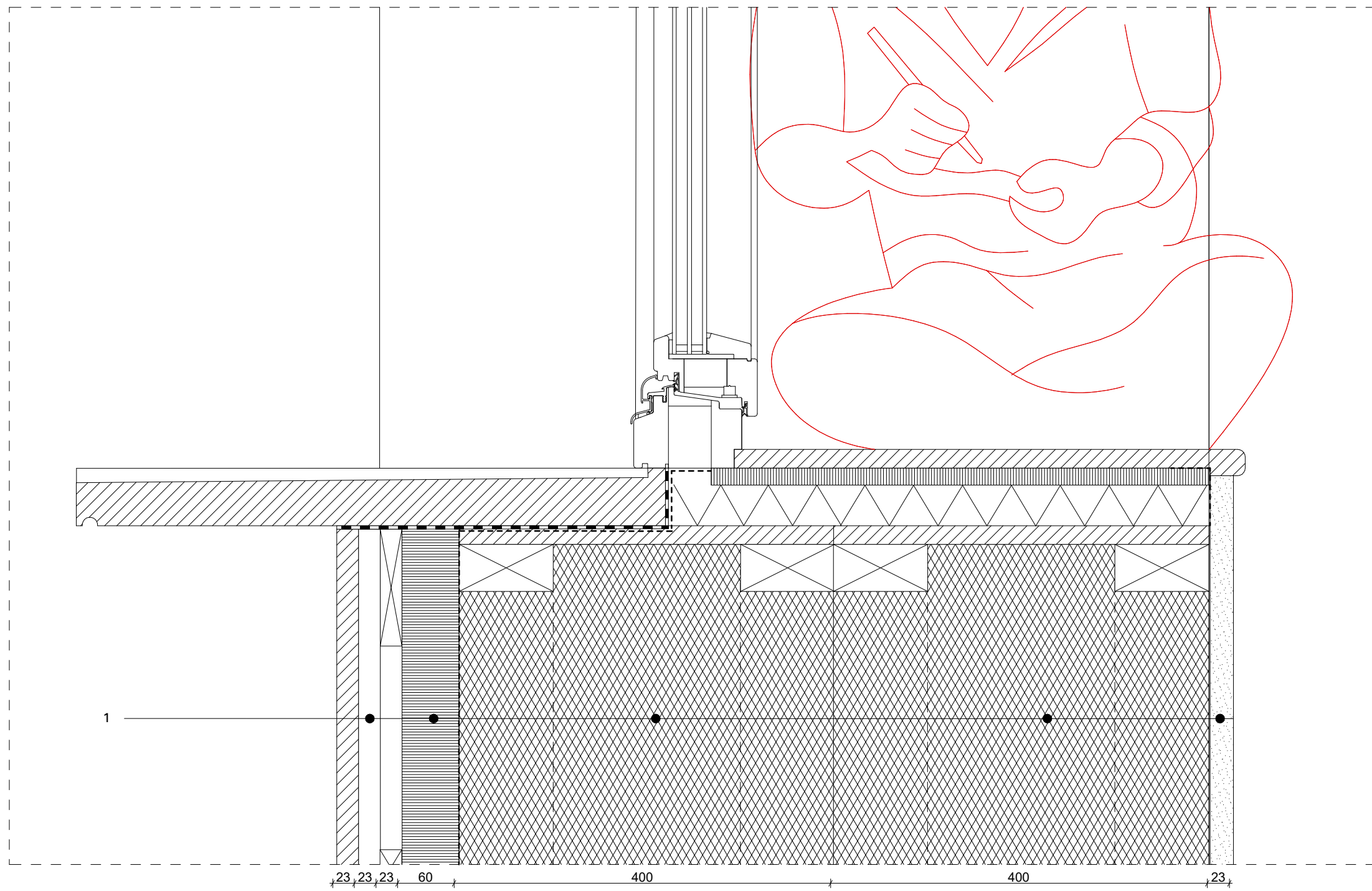
This duality in purpose for the window creates a space for interaction between people and between public and collective. As the reading room is a public space but has a collective feeling, and the path through the site is open and inviting to the public, encounters like this are exemplary for the design. The transition from public to collective to private happens on all scale levels, this being an example of how it can be achieved on 1:5 scale.

1. WINDOW
 wooden shelve 50 mm
 Wood-Aluminium Curtain Wall batimet TM60 SE

B6 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

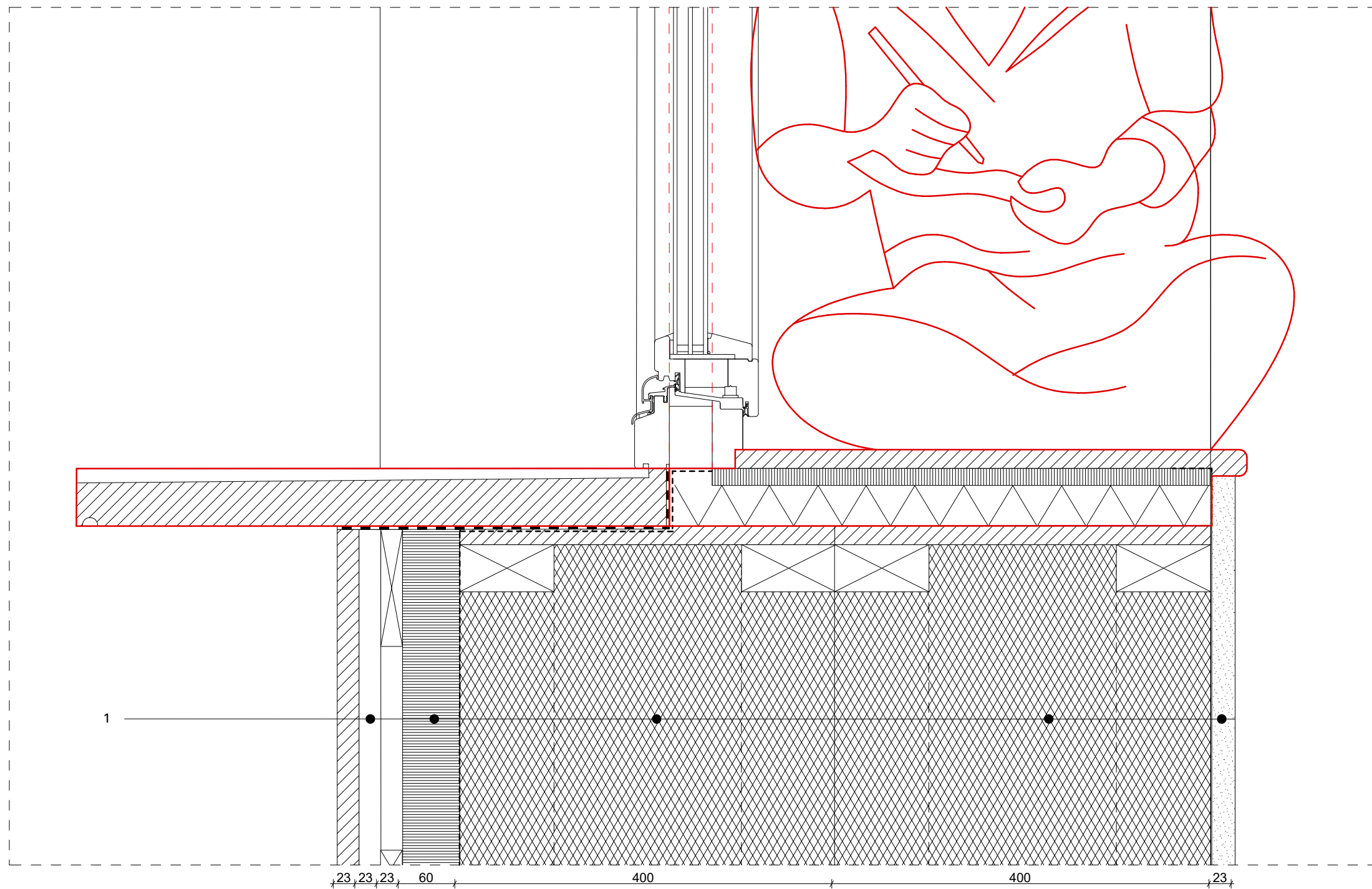


EXTERIOR WALL
 ventilated timber facade Platowood Spruce 3x23mm
 STEICprotect Typ H woodfibre board 60mm
 airtight breather membrane
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 vapour permeable certified BioLime render system 21mm
 BioLime Bond Coat 3mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Brown Coat 6mm
 BioLime Finish Coat Natural White 3mm

B7 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



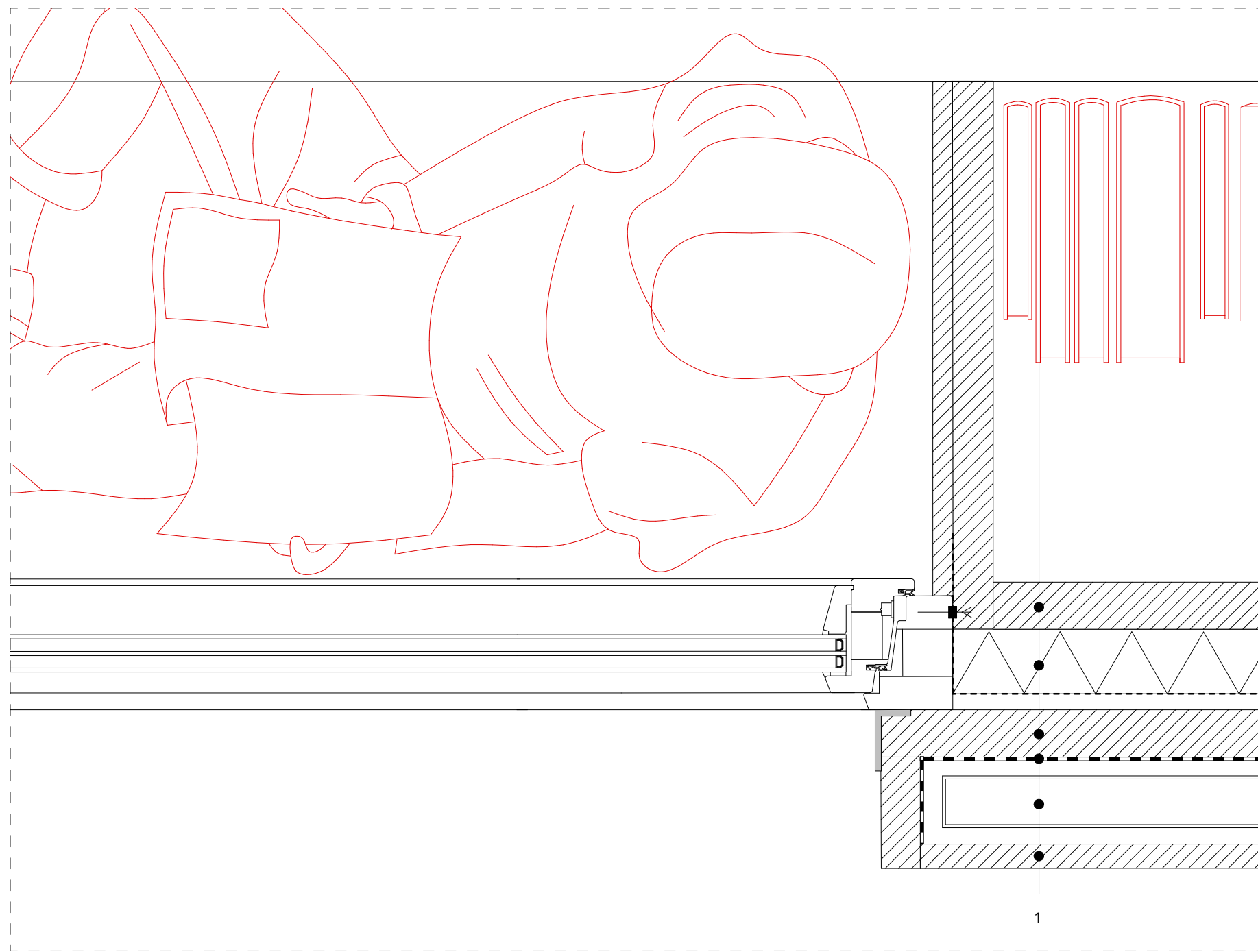
Another example of the window as an element that can be manipulated through design, according to its perceived use, is the window in the facade. Again, the double panel structure gives the possibility for the manipulation of the element. In this example, the element plays on the observation of shut close windows in the neighbourhood. By making a large extruded sill and board (possible because of the double panel wall layer) the window obstructs view from the street into the house unless you're actually sitting in the window. Hereby the window presents a choice for the visual connection with the streets and thus a solution for the closed windows. This window does not need to be closed, because if you're not sitting in it, you won't be visible from the street.

EXTERIOR WALL
 ventilated timber facade Platowood Spruce 3x23mm
 STEIC Oprotect Typ H woodfibre board 60mm
 airtight breather membrane
 straw/wood Ecococon panel 400x800
 straw/wood Ecococon panel 400x800
 vapour permeable certified BioLime render system 21mm
 BioLime Bond Coat 3mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Brown Coat 6mm
 BioLime Finish Coat Natural White 3mm

B7 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

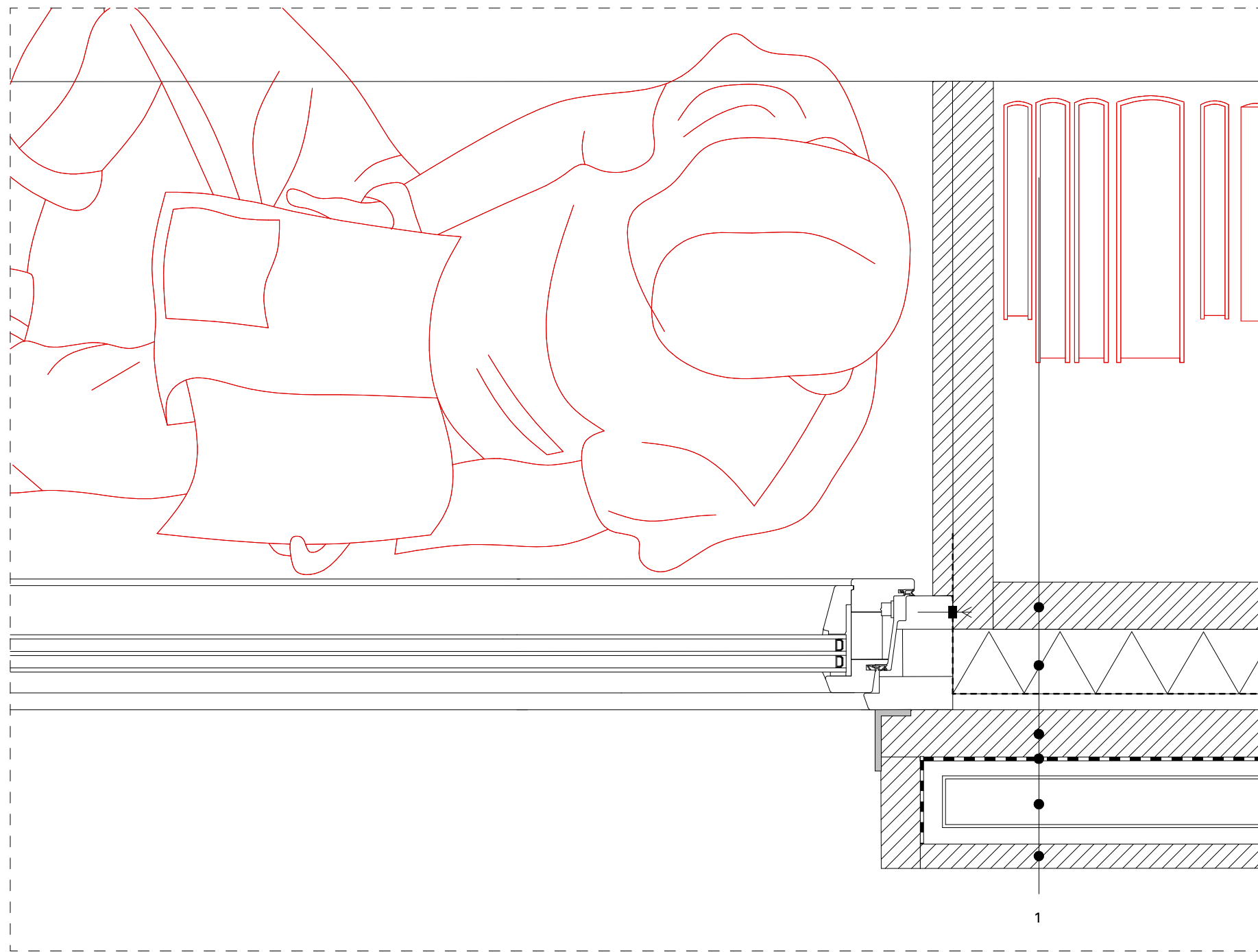


1. MULLION
 Plywood 40 mm
 EPS isolation 60 mm
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 EPDM membrane
 rectangular steel pipe
 ventilated timber facade Platowood Spruce 23mm

B8 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



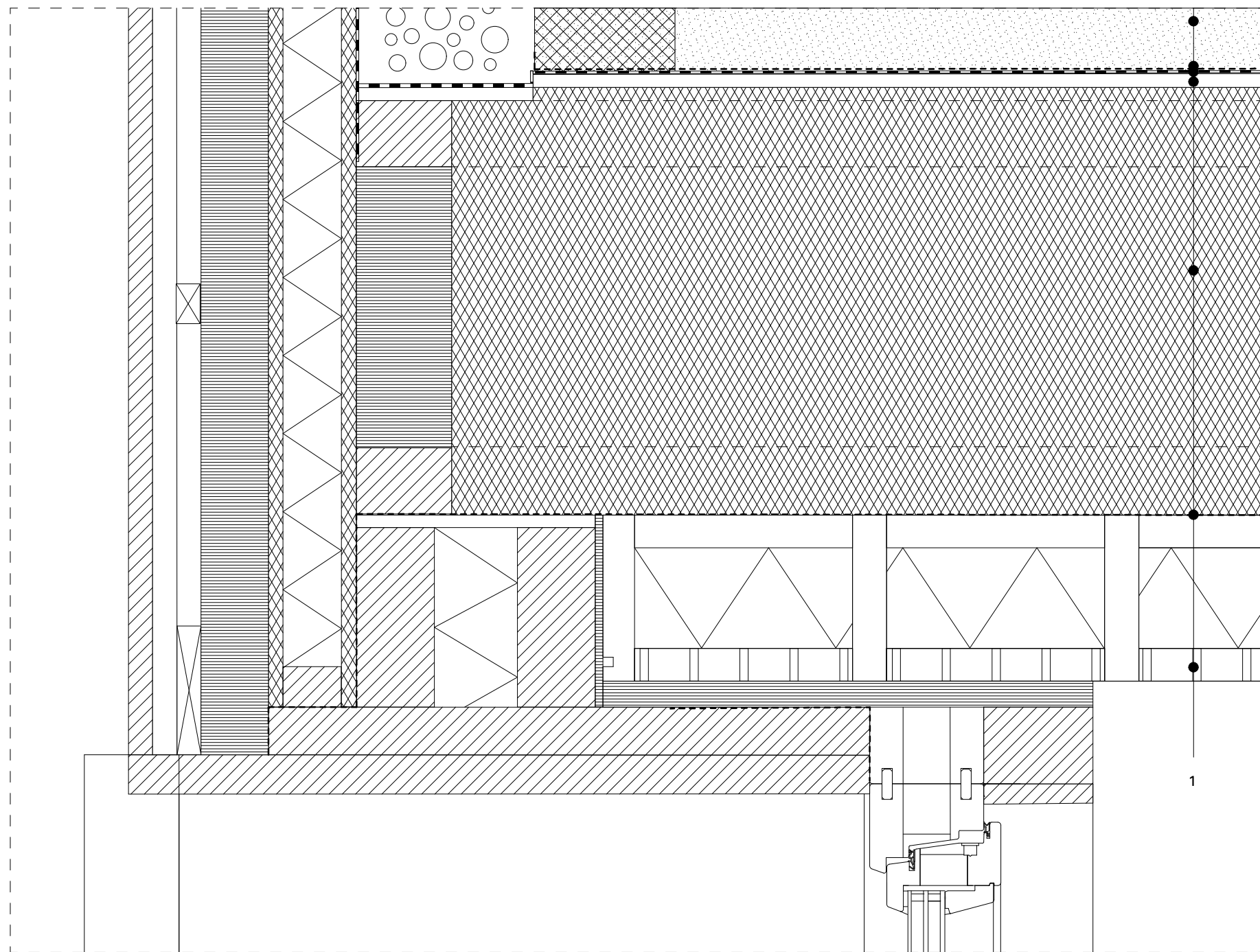
If you do make the choice to sit in the window, the south east orientation of the window makes for a lovely spot to take your morning coffee, read a book or inspect the unsuspecting passerby's.

1. MULLION
 Plywood 40 mm
 EPS isolation 60 mm
 airtight breather membrane
 STEICOprotect Typ H woodfibre board 60mm
 EPDM membrane
 rectangular steel pipe
 ventilated timber facade Platowood Spruce 23mm

B8 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



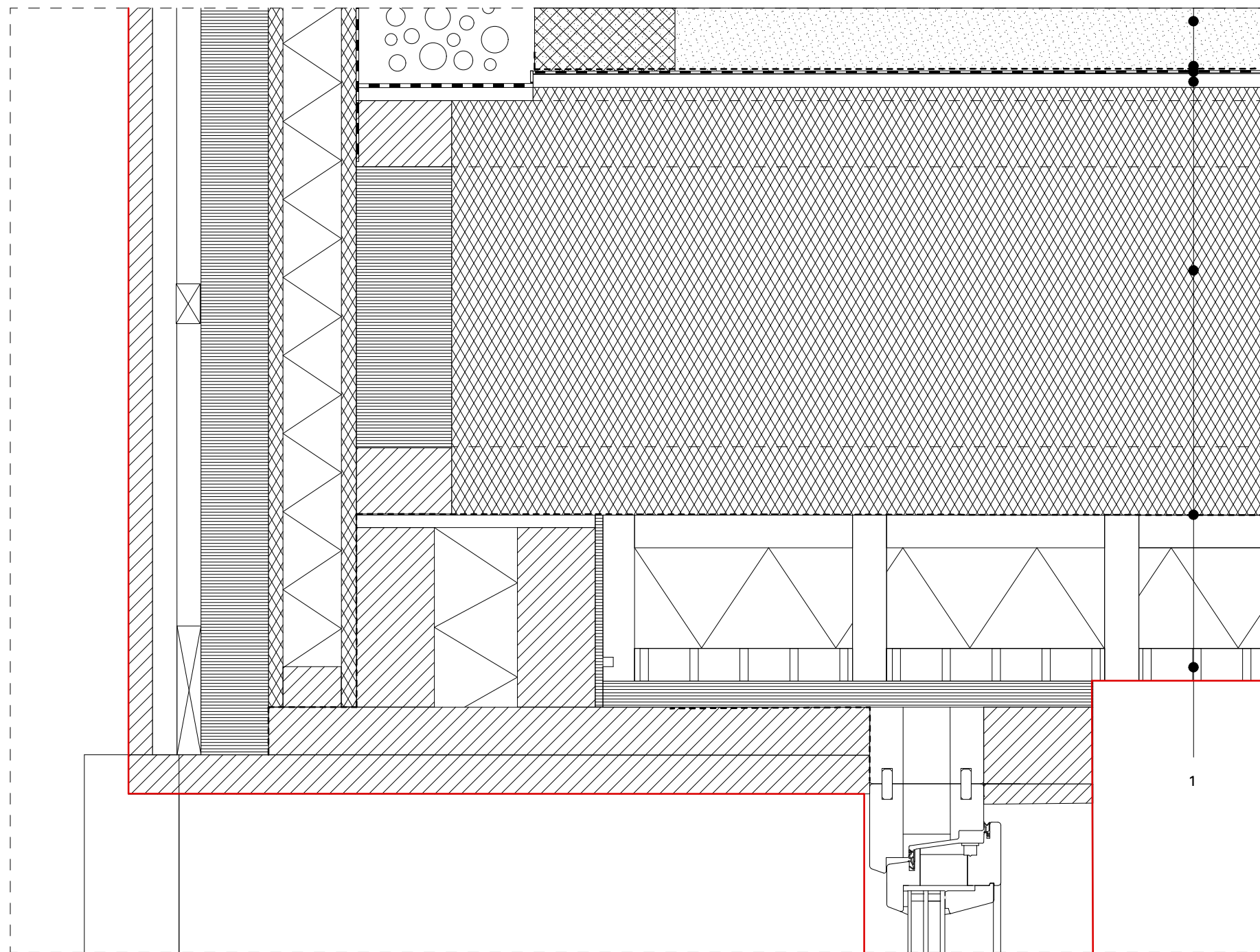
1. EXTENSIVE GREEN ROOF

roof substrate 60mm
geotextile for drainage
EPDM membrane
STEICO I-beams (Insulated with blown cellulose) 400mm
Airtight vapour barrier
LIGNATUR surface element (LFE 200) with fill 50 kg/m²,
acoustics type 3.1

B9 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. EXTENSIVE GREEN ROOF

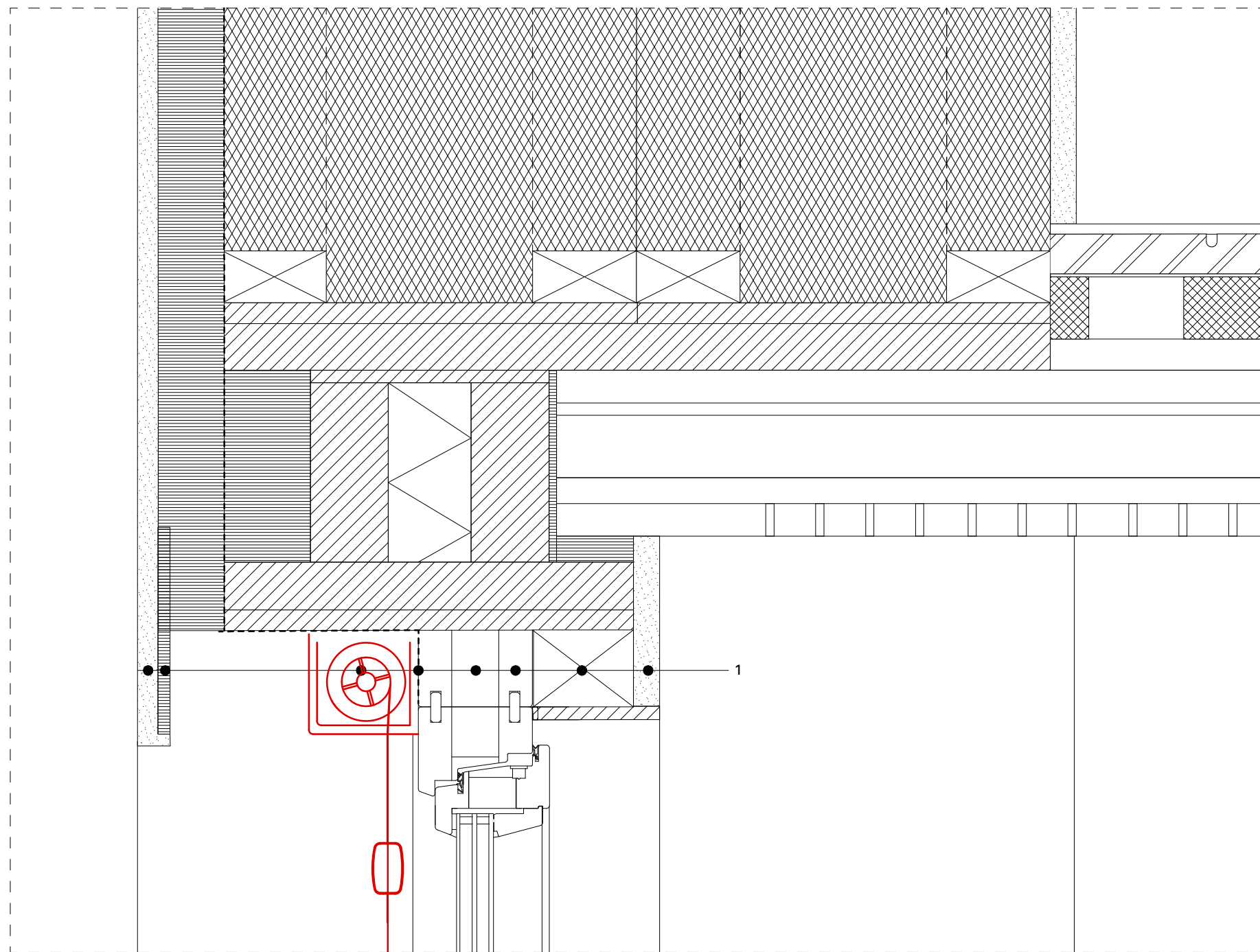
roof substrate 60mm
 geotextile for drainage
 EPDM membrane
 STEICO I-beams (Insulated with blown cellulose) 400mm
 Airtight vapour barrier
 LIGNATUR surface element (LFE 200) with fill 50 kg/m2,
 acoustics type 3.1

Thus there is no need to install
 shutters in this part of the facade
 of the building.

B9 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. EXTENSIVE GREEN ROOF

vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Carrera White 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm

EPS 100mm
 passivehouse window frame
 Installation gap
 airtight breather membrane
 screen

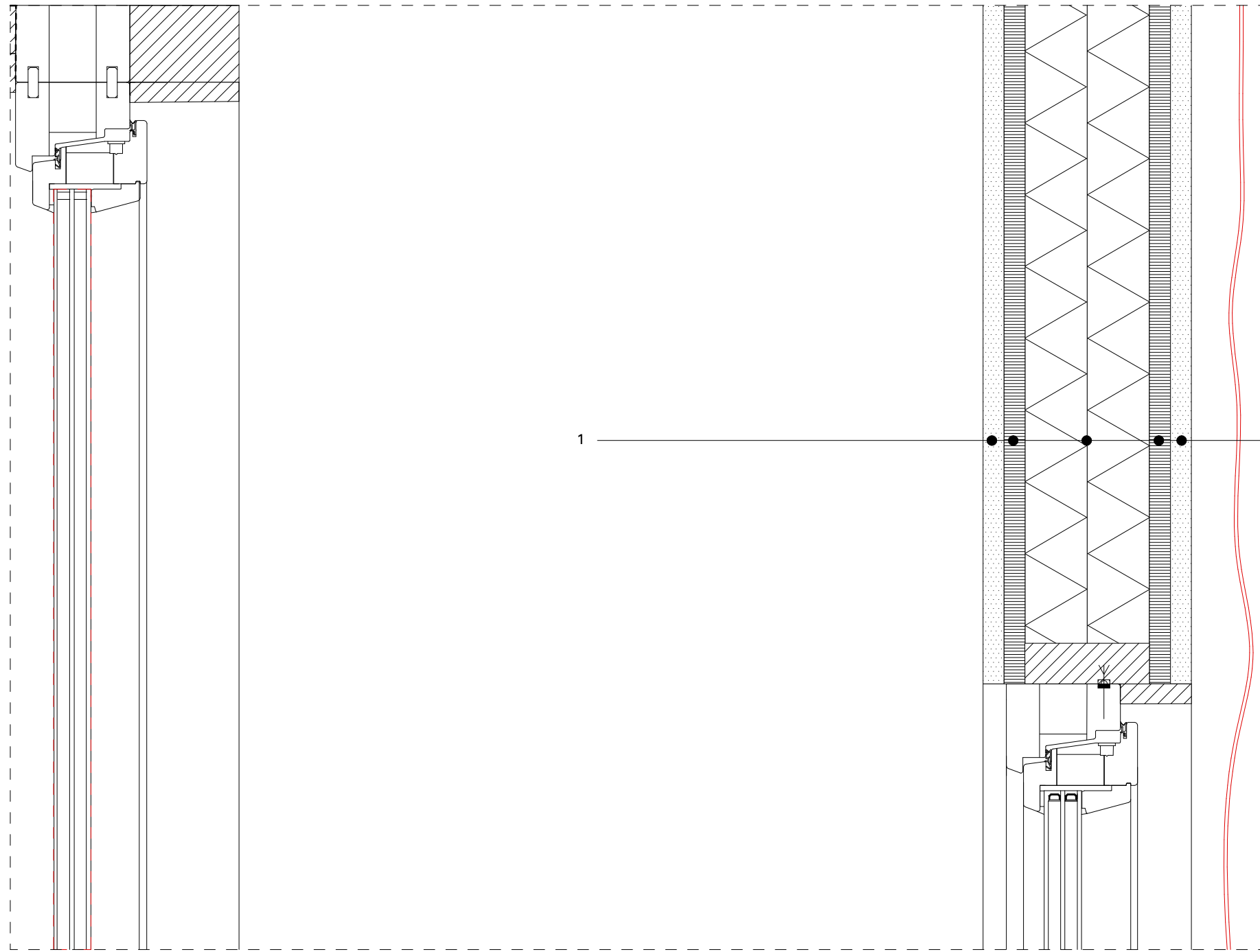
DHF board
 vapour permeable certified BioLime render system 21mm
 BioLime Finish Coat Sienna 3mm
 BioLime Brown Coat 6mm
 BioLime Scratch Coat with embedded Mesh 6mm
 BioLime Bond Coat 3mm

In other parts of the building,
 shutters are incorporated in the
 design.

B10 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

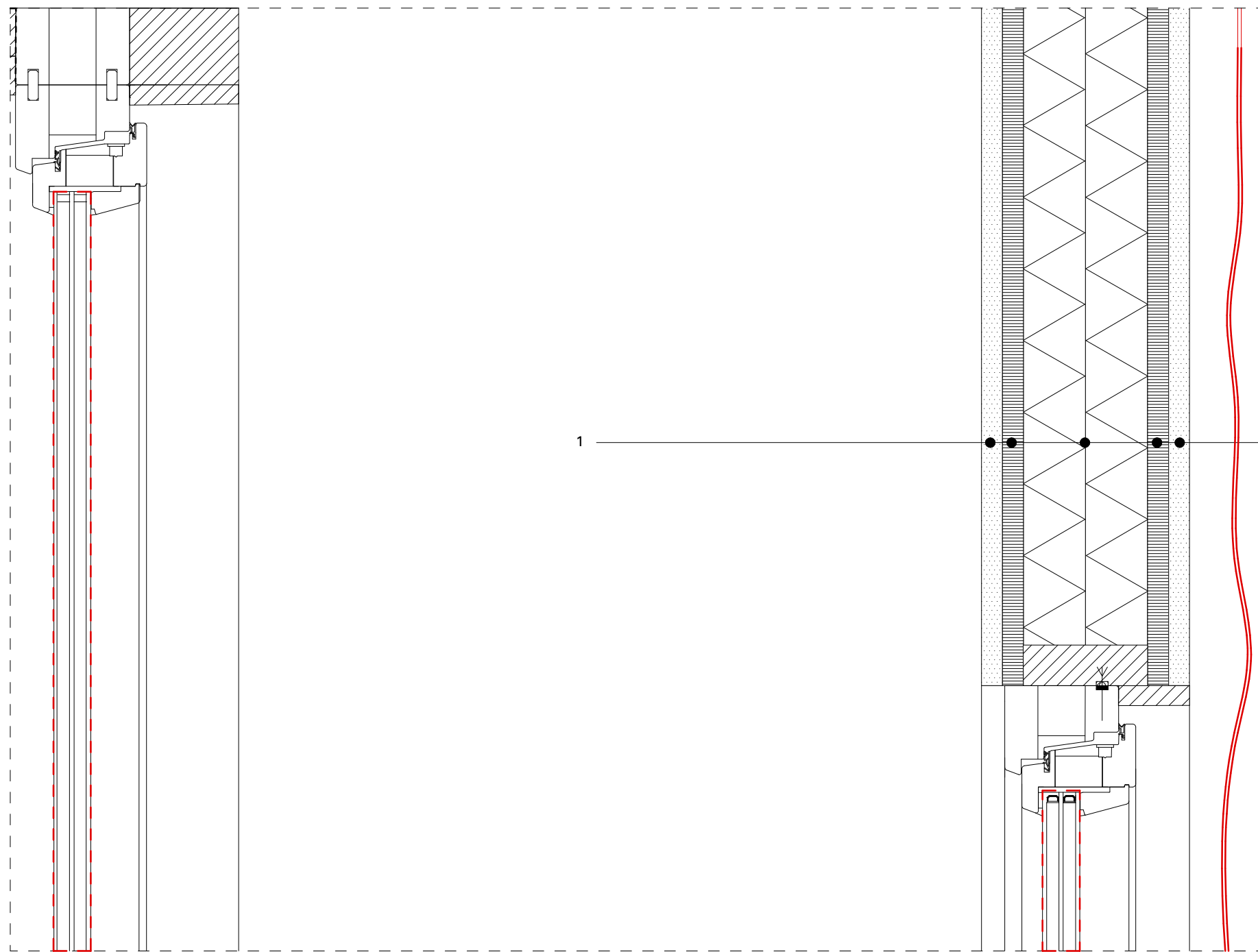


1. INTERIOR WALL
plasterboard 21 mm
OSB 20 mm
timber 60×120 + acoustic insulation
OSB 20 mm
plasterboard 21 mm

B11 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



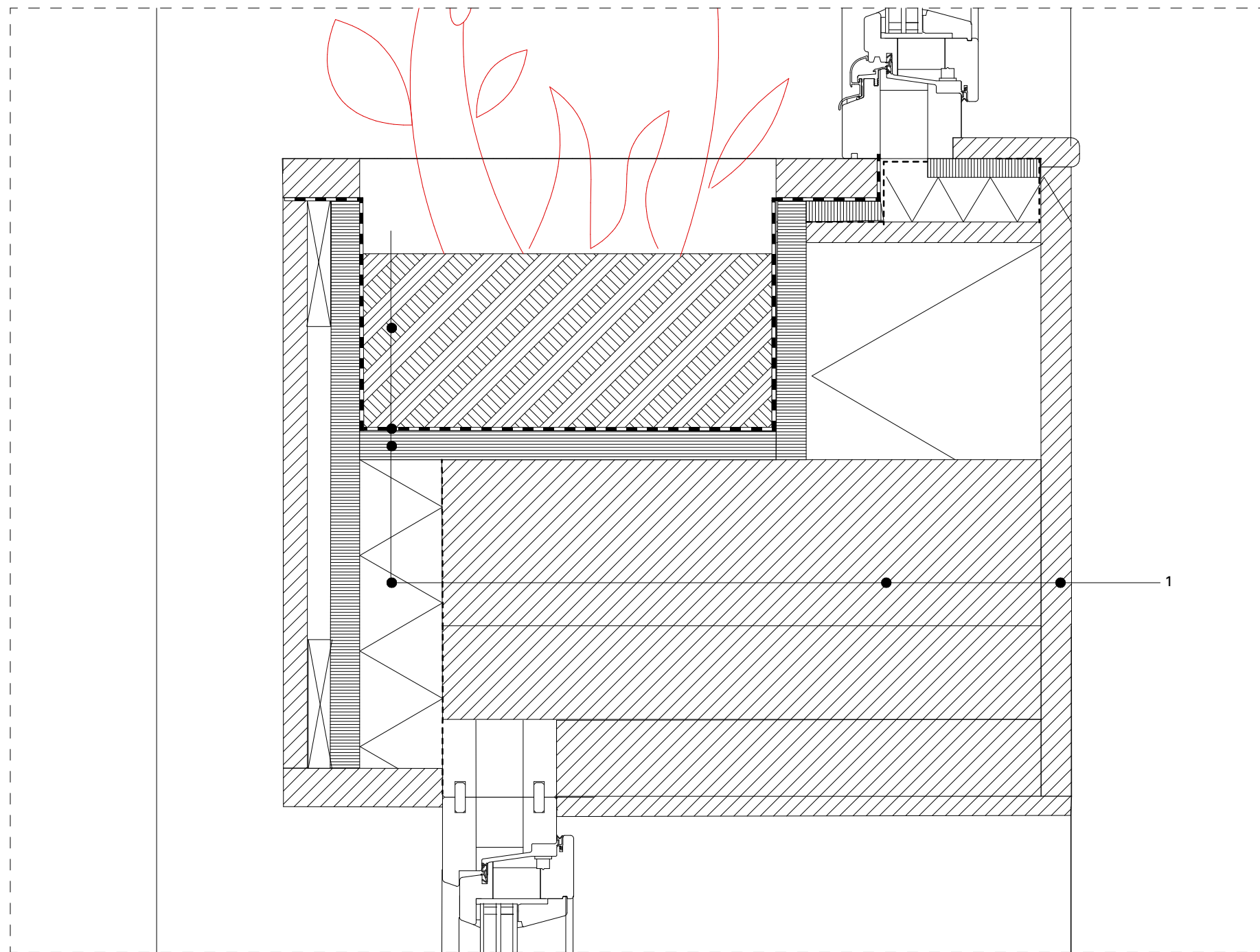
However, shutters are not the only way to block out sight from outside in. A double layer of windows prohibits direct sight into the living space, and curtains inside the room give the possibility to shade from light.

1. INTERIOR WALL
 plasterboard 21 mm
 OSB 20 mm
 timber 60×120 + acoustic insulation
 OSB 20 mm
 plasterboard 21 mm

B11 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270

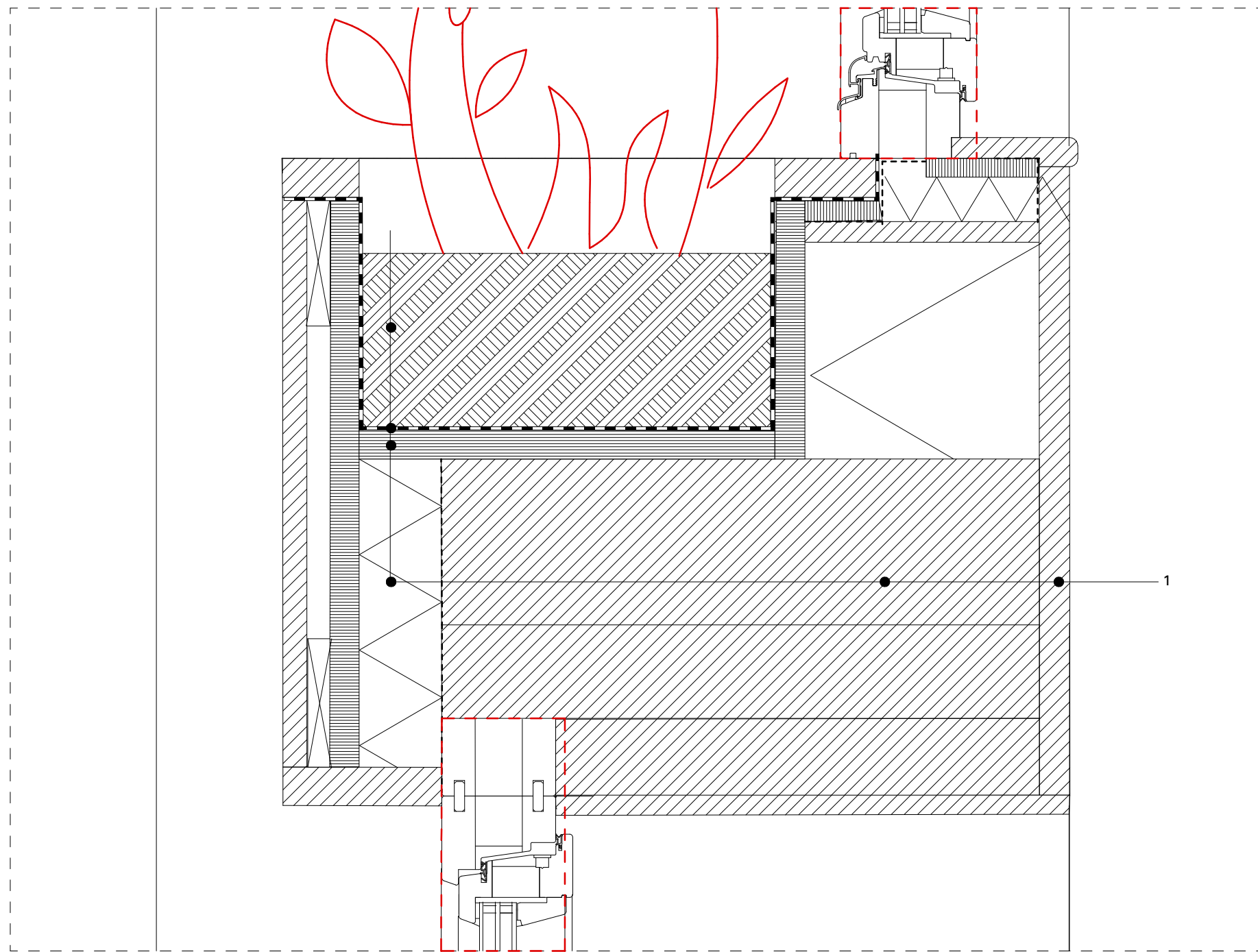


1. TRANSOM
plywood 20 mm
timber beam 160×590mm
EPS 100 mm
woodfibre board 20 mm
EPDM foil
geotextile for drainage
roof substrate 60mm

B12 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



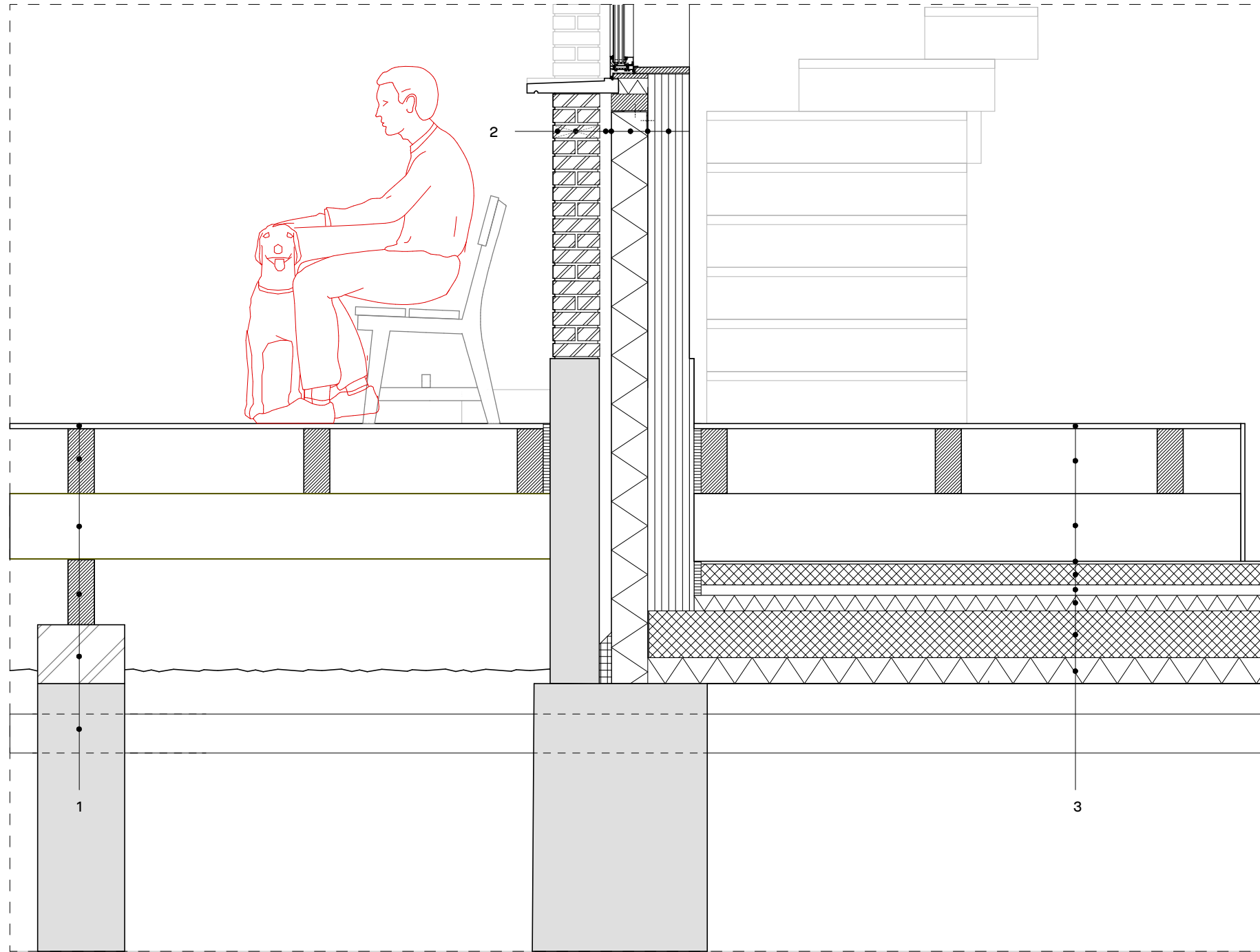
The transom divides the window in an upper window and a lower window, both serving different purposes due to their positioning within the casement. Apart from this structural functionality, the transom also acts as a planter, resembling the planters that hang in front of the windows in Liège. Drainage for the planter is incorporated into the mullion.

1. TRANSOM
 plywood 20 mm
 timber beam 160×590mm
 EPS 100 mm
 woodfibre board 20 mm
 EPDM foil
 geotextile for drainage
 roof substrate 60mm

B12 Drawing Scale

Detail 1:5

Av. de la Croix-Rouge 268/270



1. OUTSIDE TERRACE
 timber planks 20 mm
 timber beam 250 mm
 timber beam 250 mm
 timber beam 250 mm
 concrete block 225 mm
 foundation

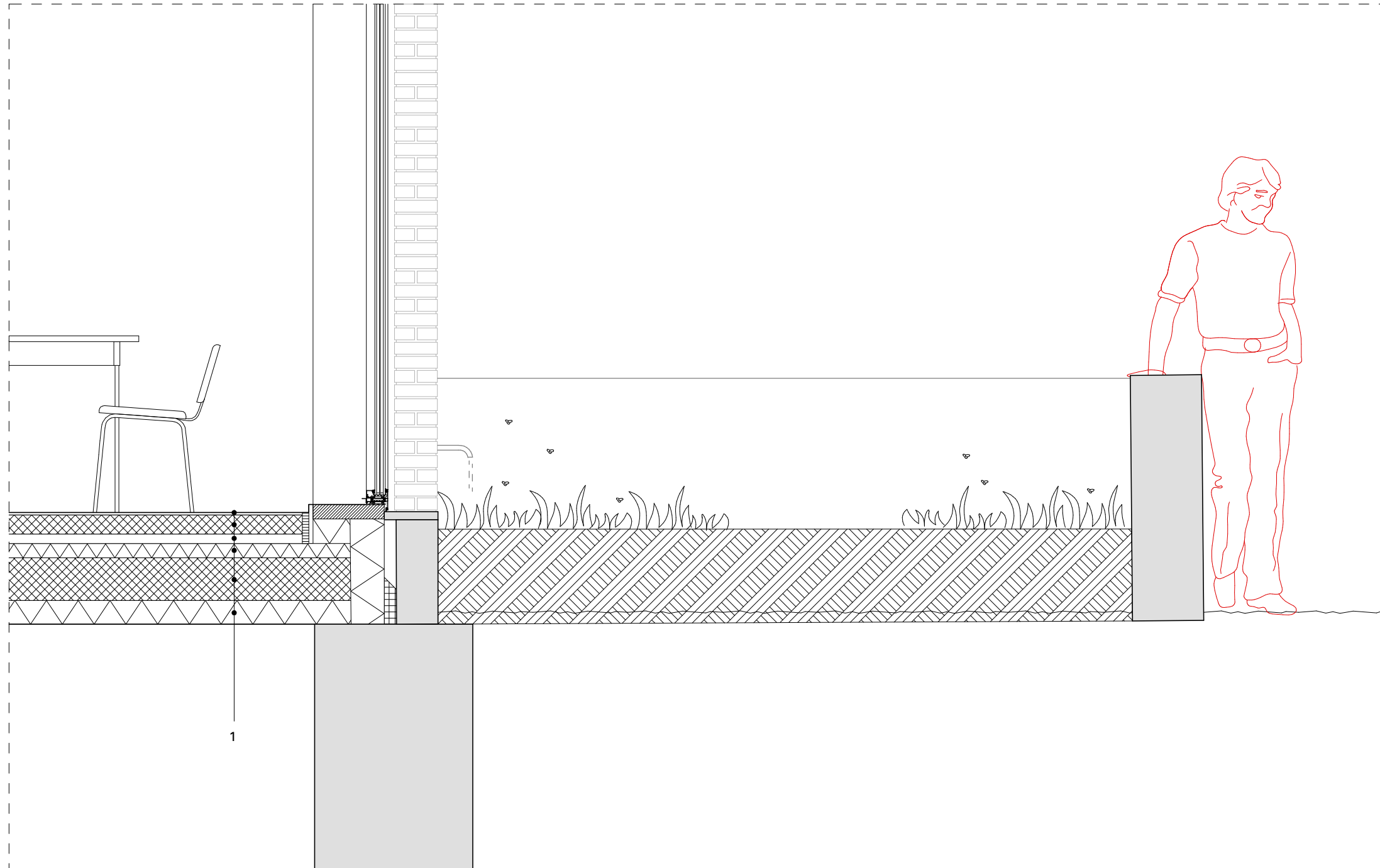
2. EXTERIOR WALL
 repurposed brickwork 180 mm
 open butt joint
 ventilated air cavity 40 mm
 Waterproof layer
 Isorooof woodfibre isolation 140mm
 vapour permeable membrane
 CLT 160 mm

3. FLOOR
 timber planks 20 mm
 timber beam 250 mm
 timber beam 250 mm
 marmoleum finishing 10 mm
 cement screed floor 80 mm
 climalevel system element with floor heating
 and ventilation 40 mm
 rigid insulation 60 mm
 cast concrete 180 mm
 rigid insulation 100 mm

A1 Drawing Scale

Detail 1:20

Av. de la Croix-Rouge 268/270



1. FLOOR
 marmoleum finishing 10 mm
 cement screed floor 80 mm
 climatelevel system element with floor heating
 and ventilation 40 mm
 rigid insulation 60 mm
 cast concrete 180 mm
 rigid insulation 100 mm

A2 Drawing Scale

Detail 1:20

Av. de la Croix-Rouge 268/270