



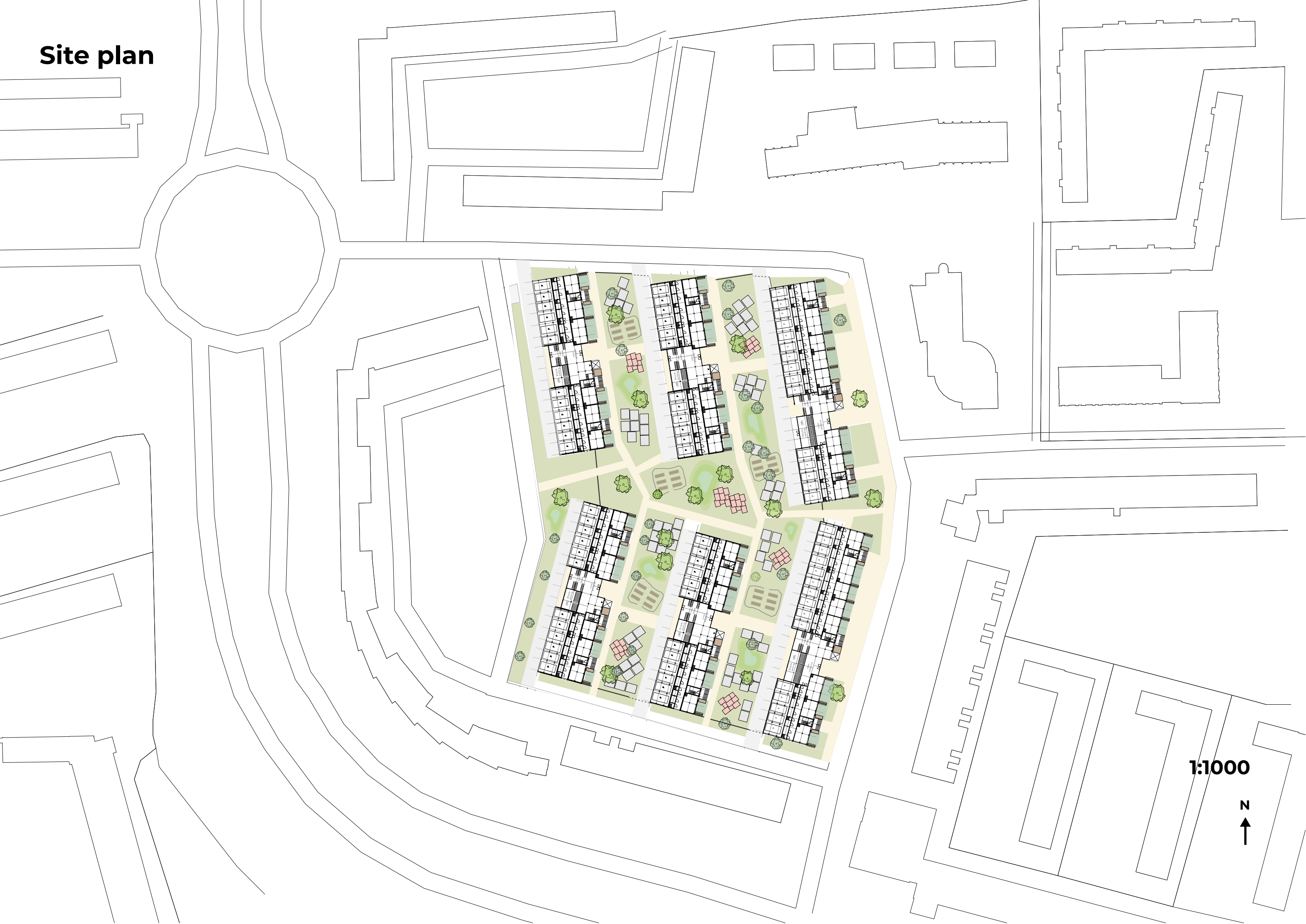
Nieuwenhuysenbuurt /future proof

Architectural Engineering Studio

Merijn Braam
Drawing set

Design tutor: Pieter Stoutjesdijk
Building technology tutor: Paddy Tomesen
Research tutor: Jos de Krieger

Site plan



1:1000



Site plan

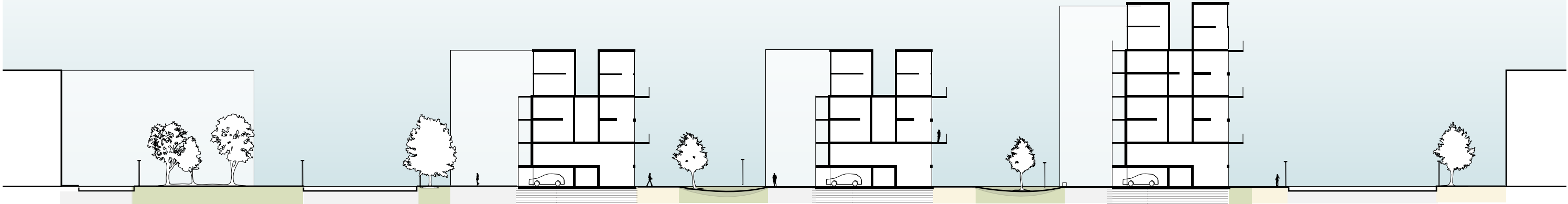
section



→ z

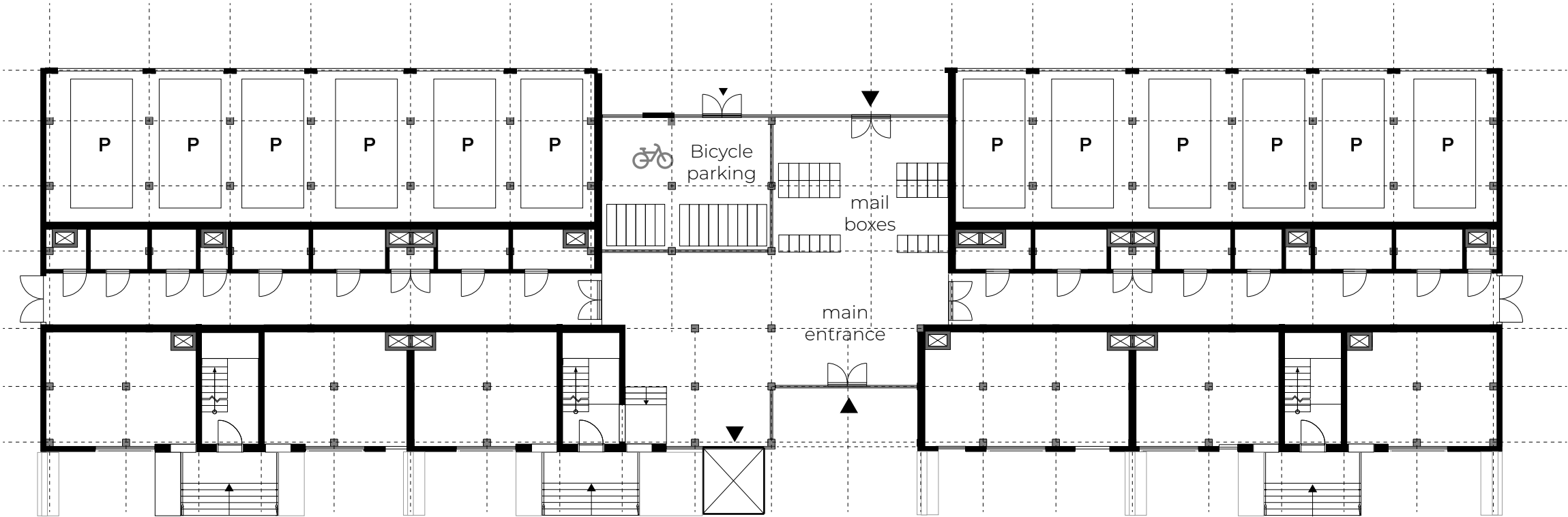
1:500

Site section



1:500

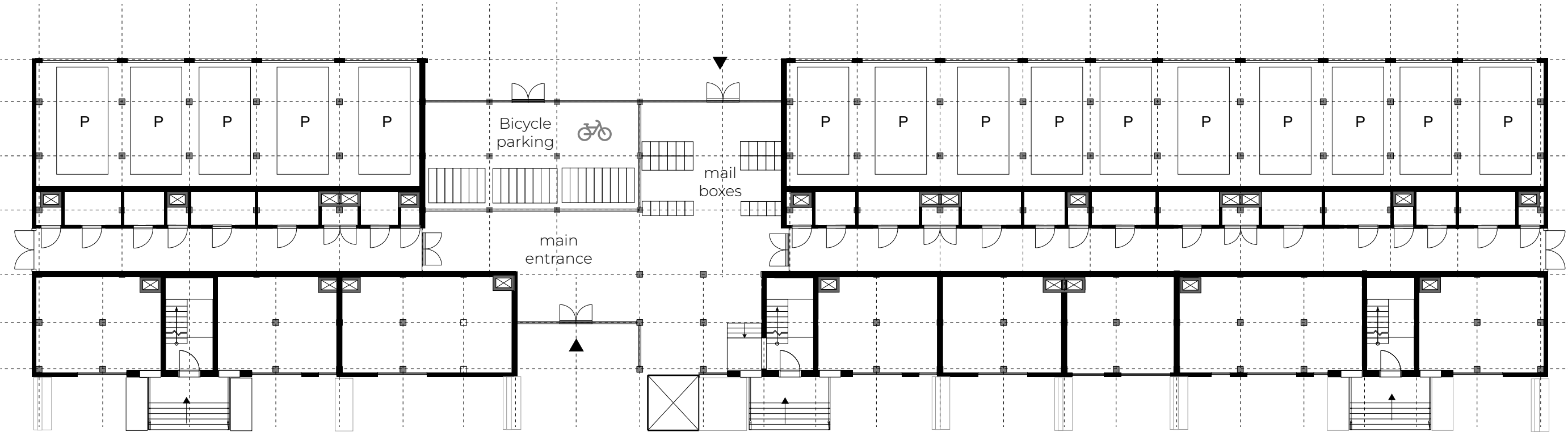
Ground floor plan - 4 block



4-block
Ground floor
1:200

→ z
1:200

Ground floor plan - 5 block



5-block
Ground floor
1:200

→ z
1:200

Double height corridor plan - 4 block



0

+1

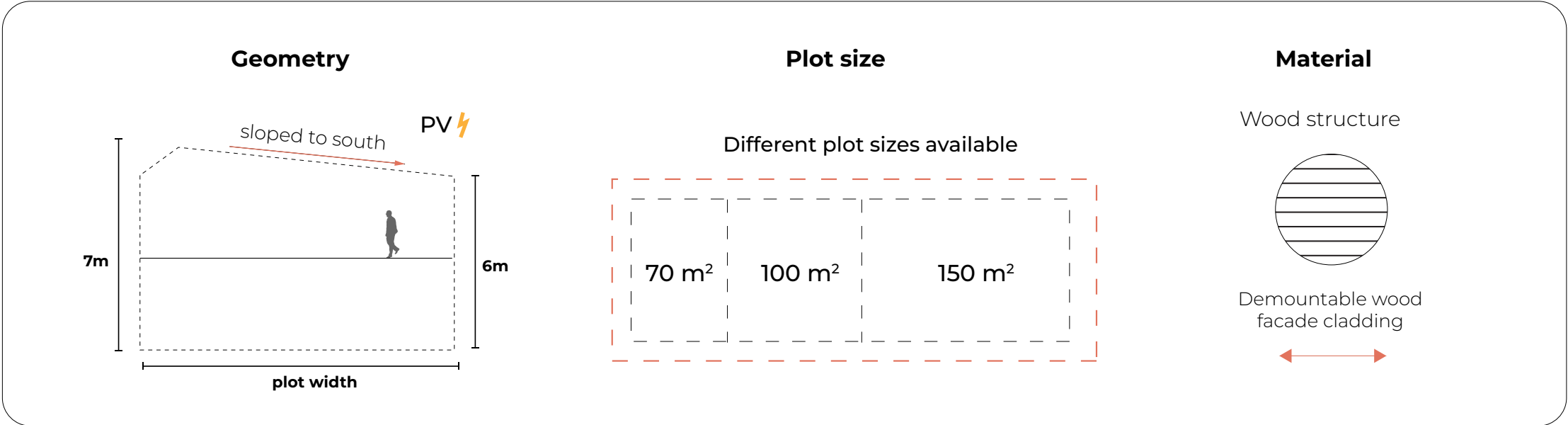
→ z

1:200

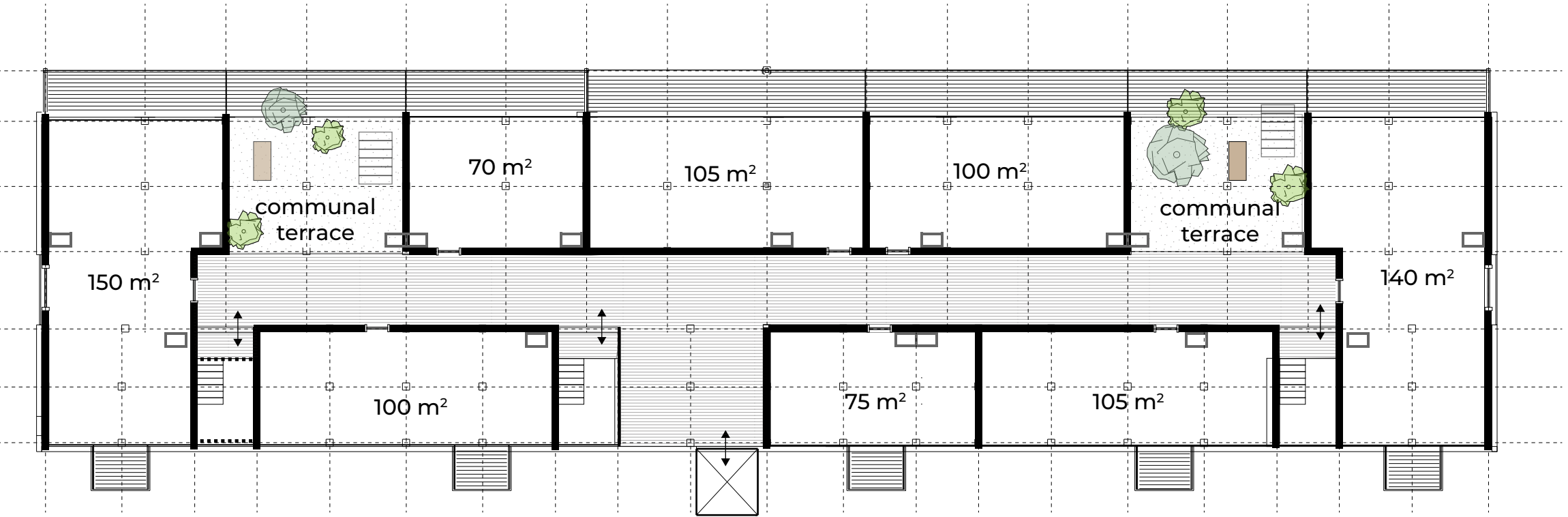
Double height corridor plan - 5 block



Roof top-up

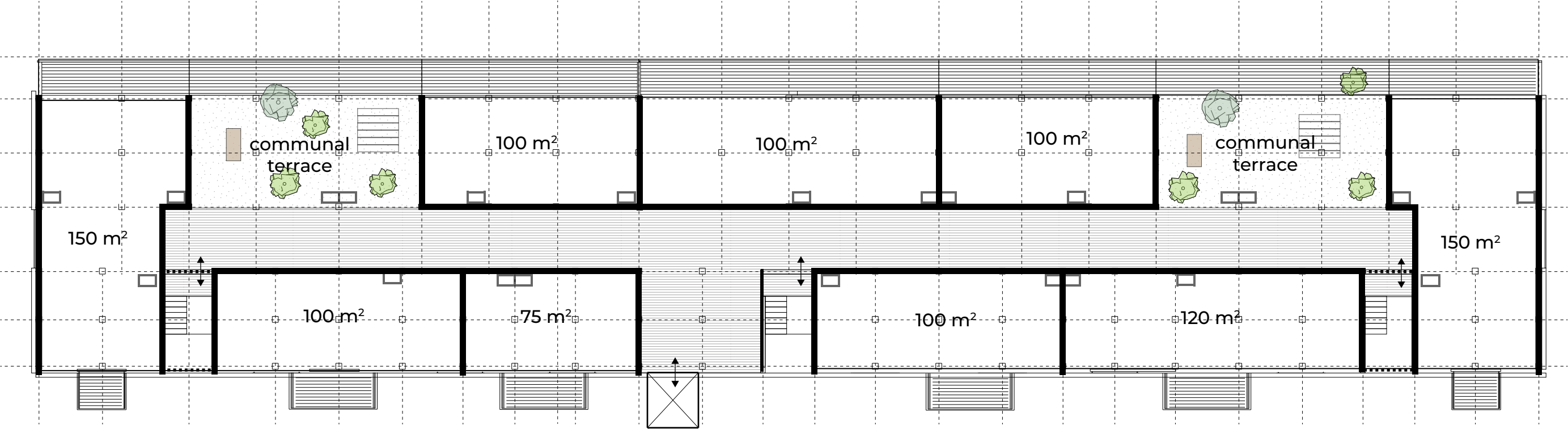


Roof top-up plan - 4 block



→ z
1:200

Roof top-up plan - 5 block



→ z
1:200

Elevation East - 4 block



1:200

Elevation East - 4 block

Lower version



1:200

Elevation West - 4 block



1:200

Elevation north & south - 4 block

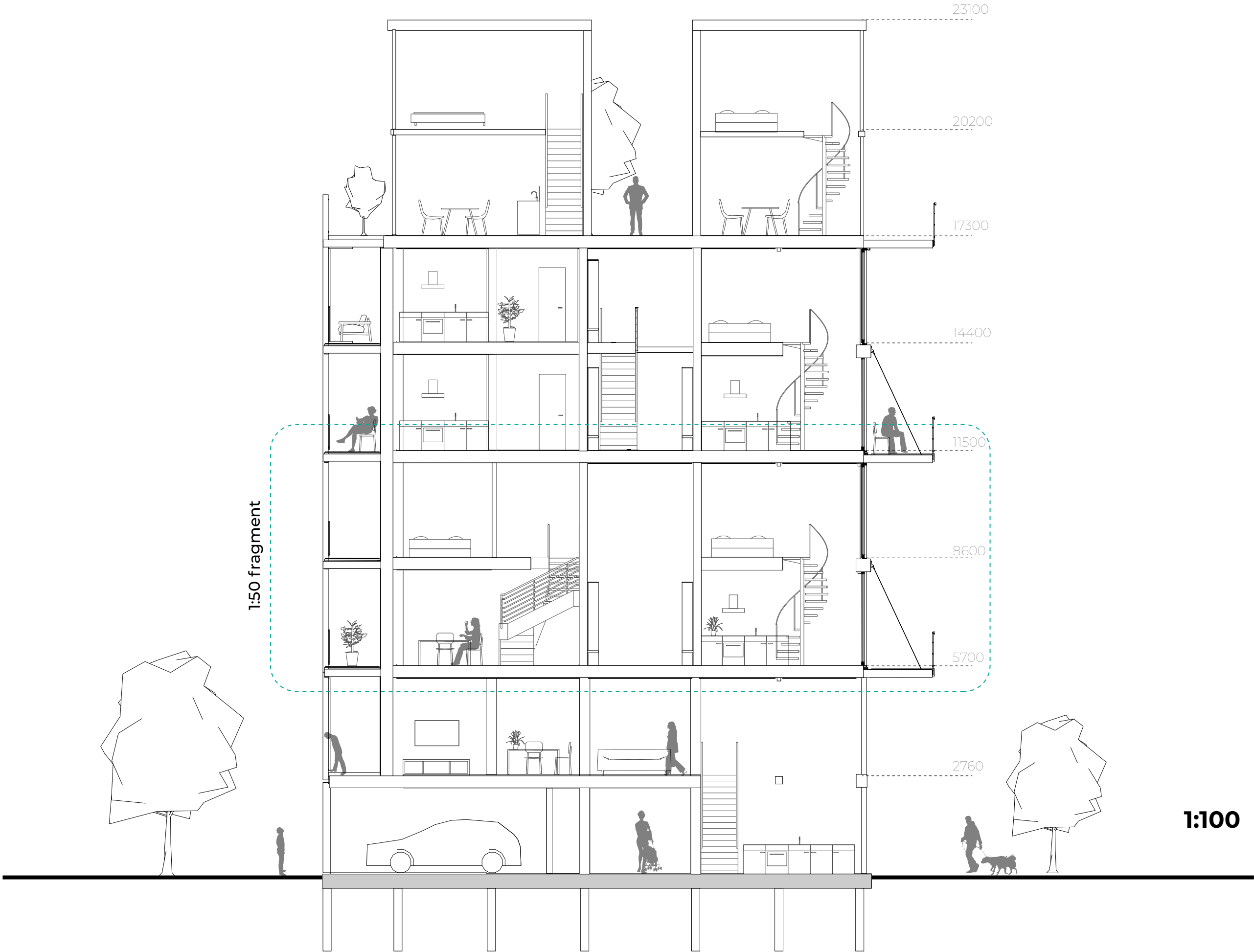


North

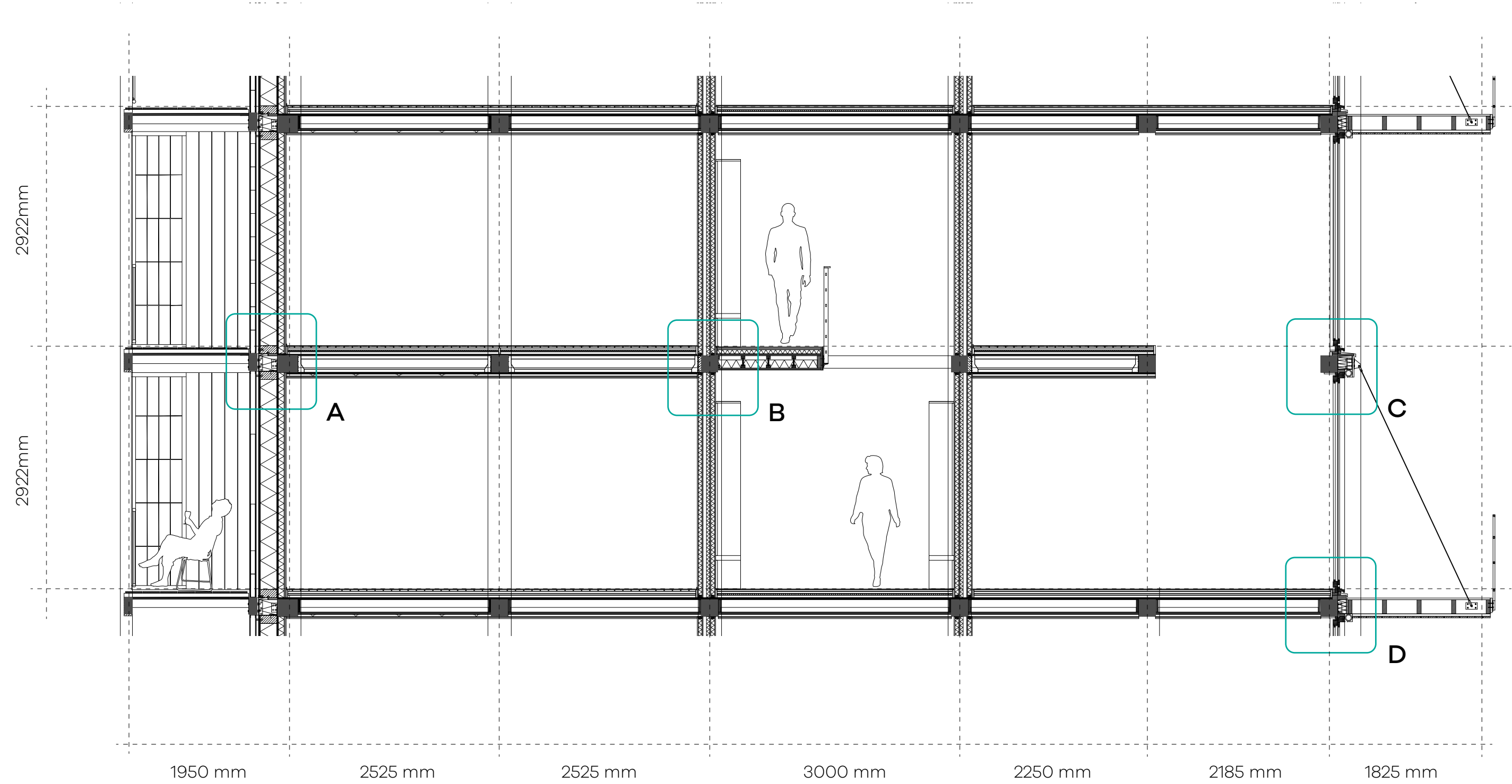


South

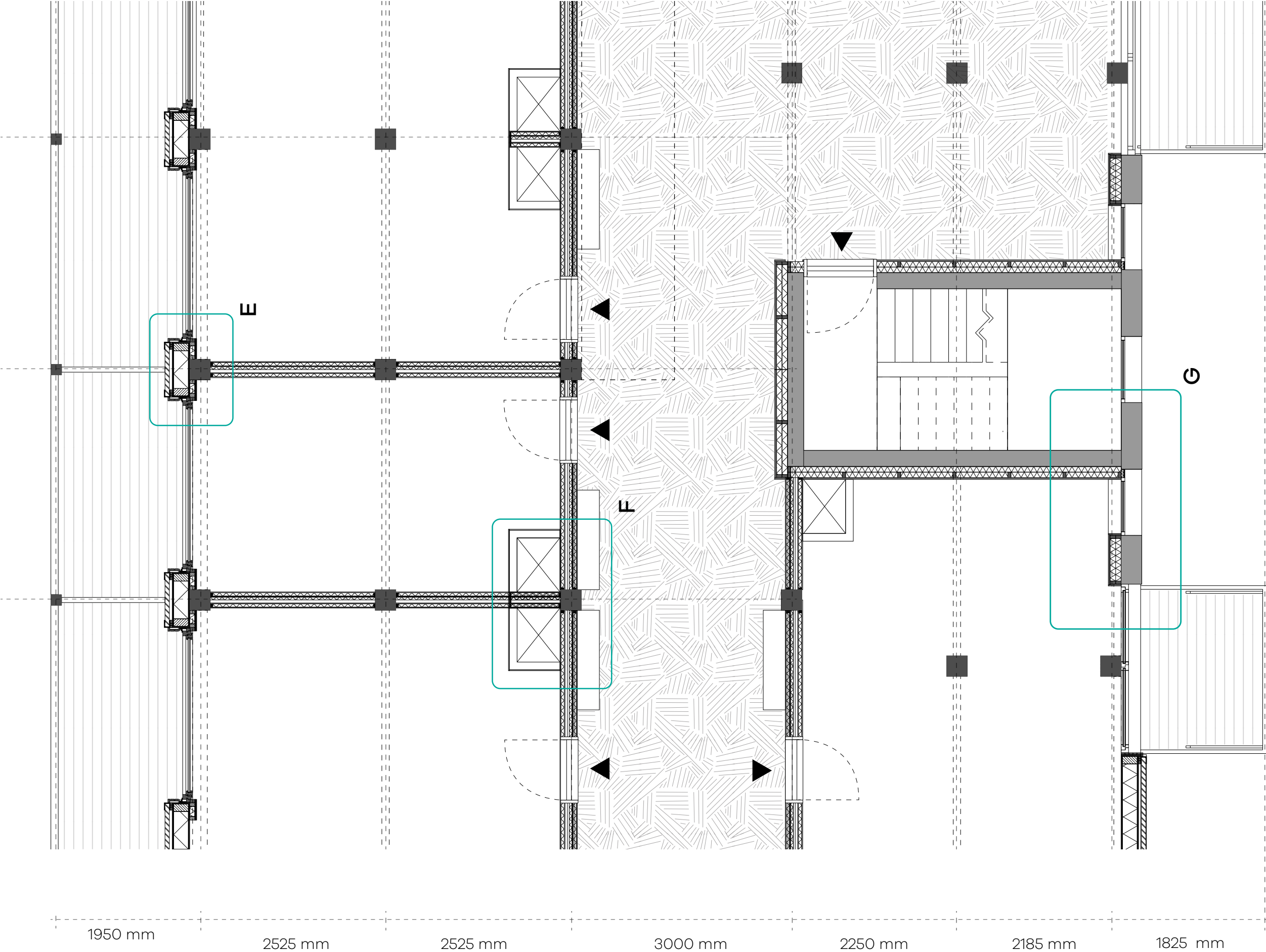
Section



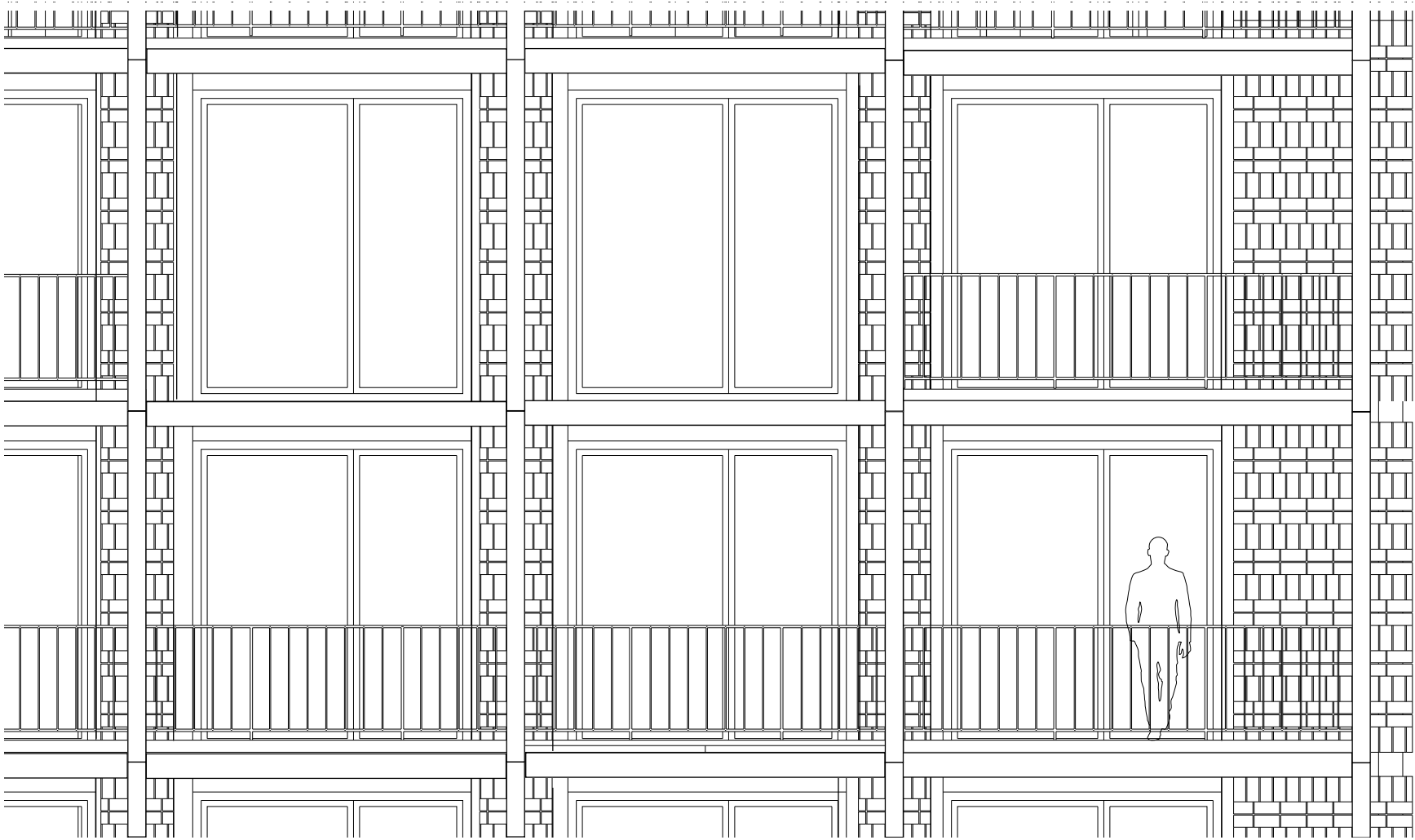
Fragment Section 1:50



Fragment Plan 1:50



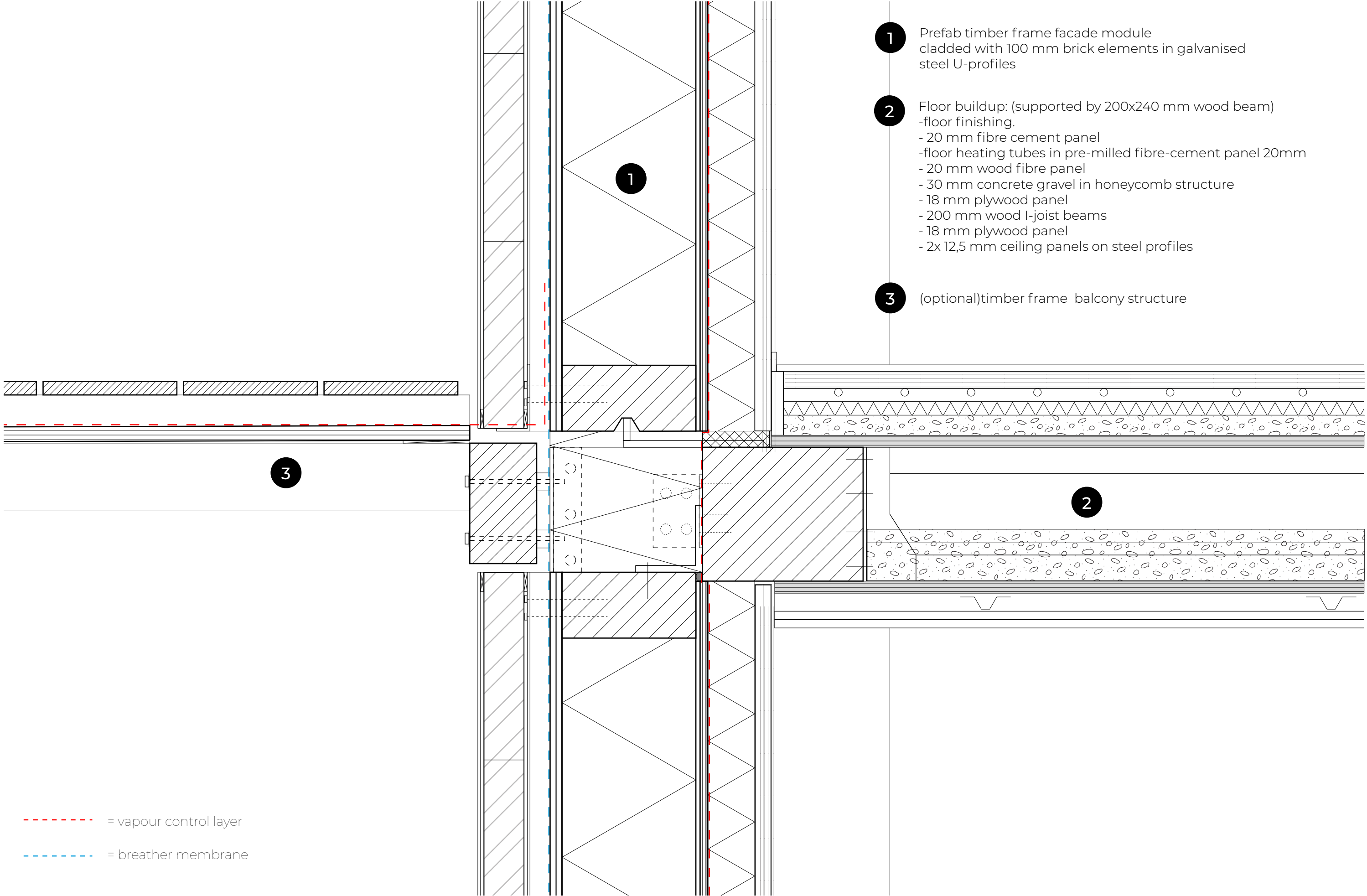
Elevation west 1:50



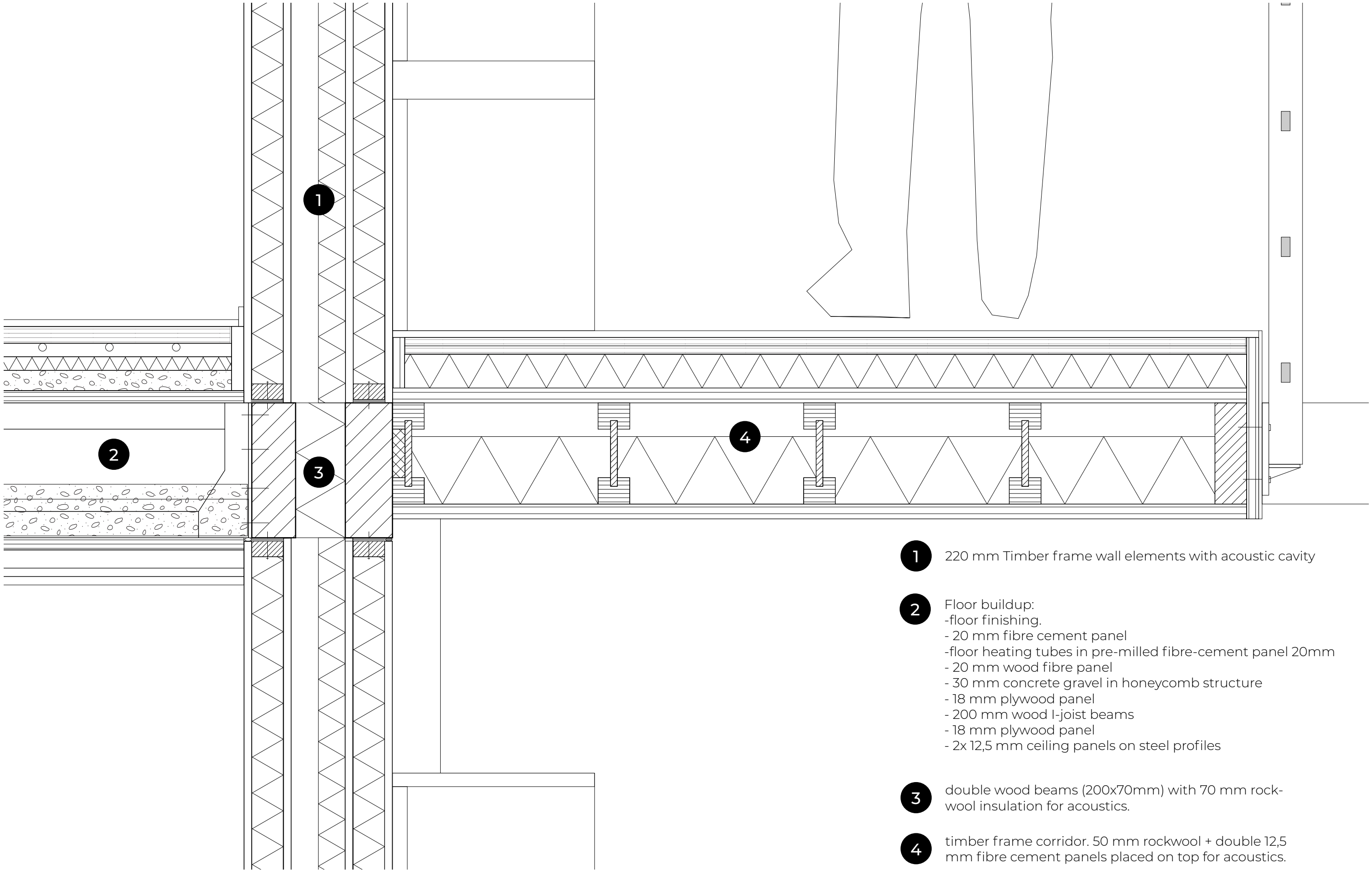
Elevation east 1:50



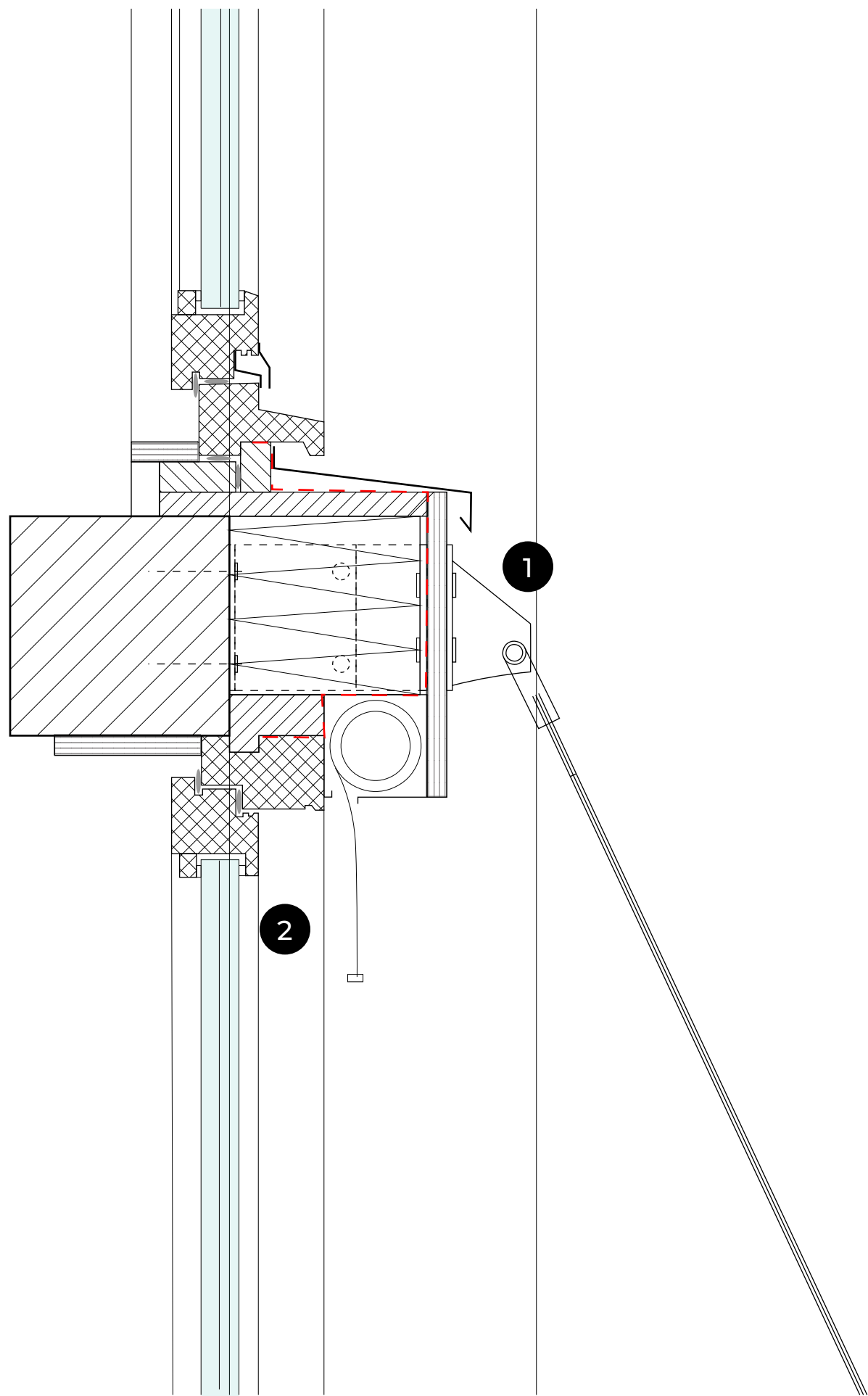
Detail A - vertical



Detail B - vertical (1:5)



Detail C - vertical (1:5)

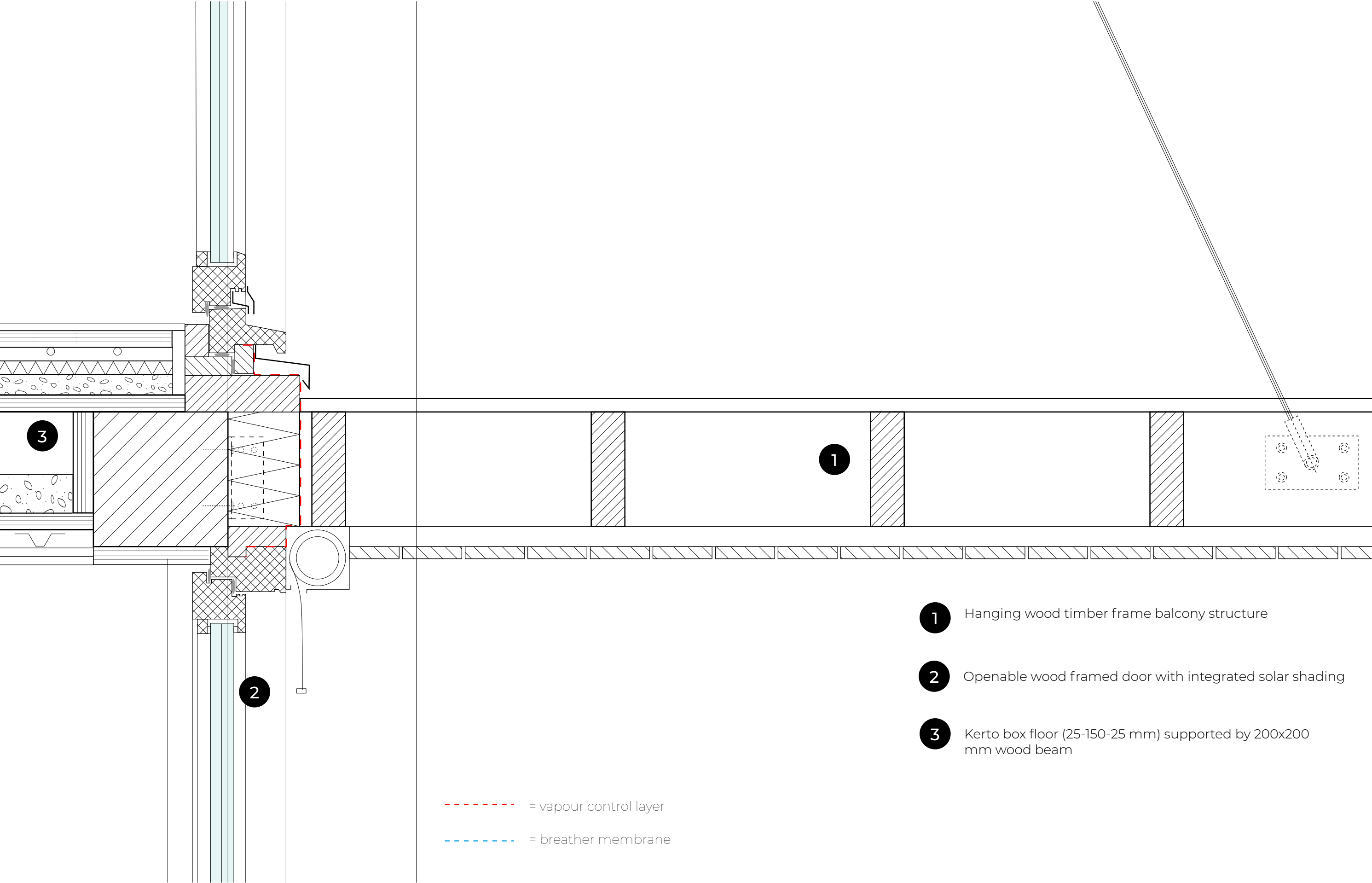


- 1 Willemsanker, supporting hanging balcony
- 2 Openable wood framed door with integrated solar shading

- - - - - = vapour control layer

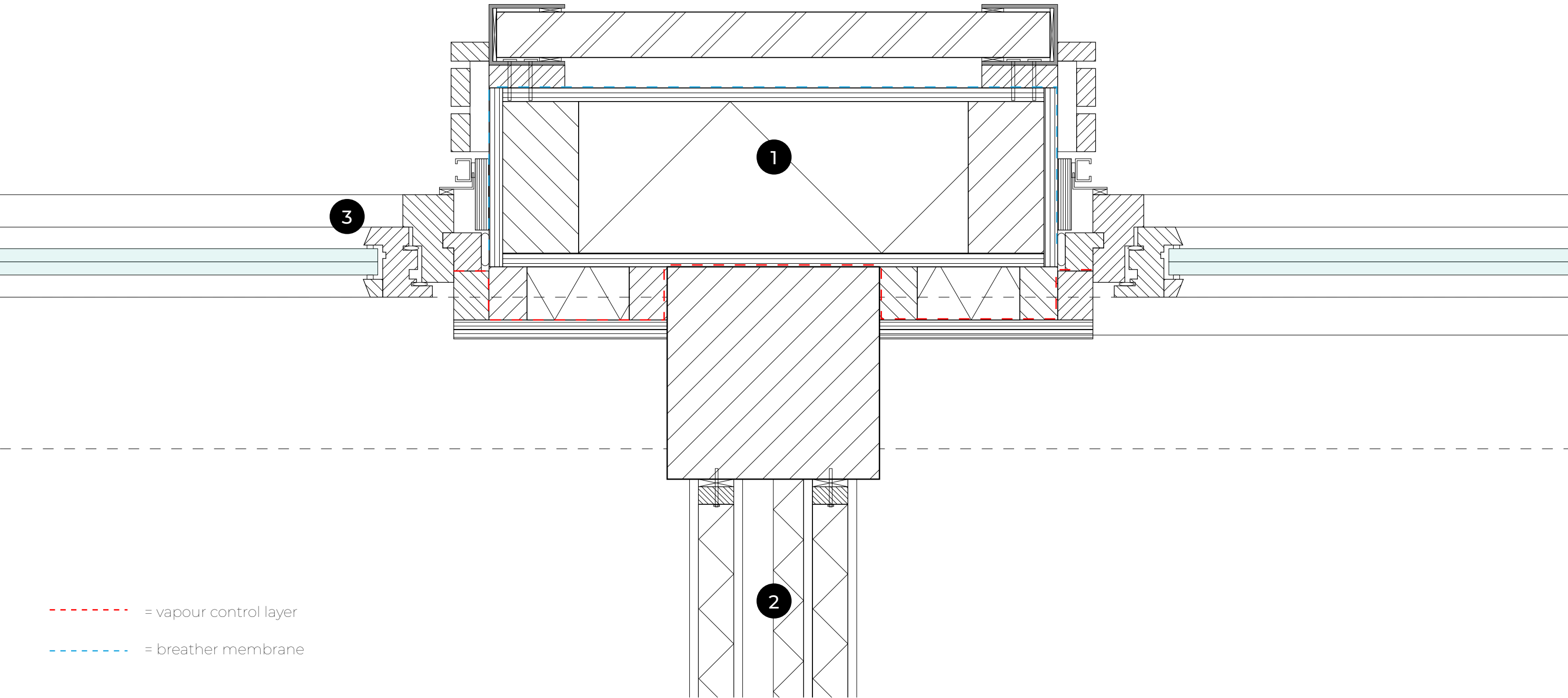
- - - - - = breather membrane

Detail D - vertical (1:5)

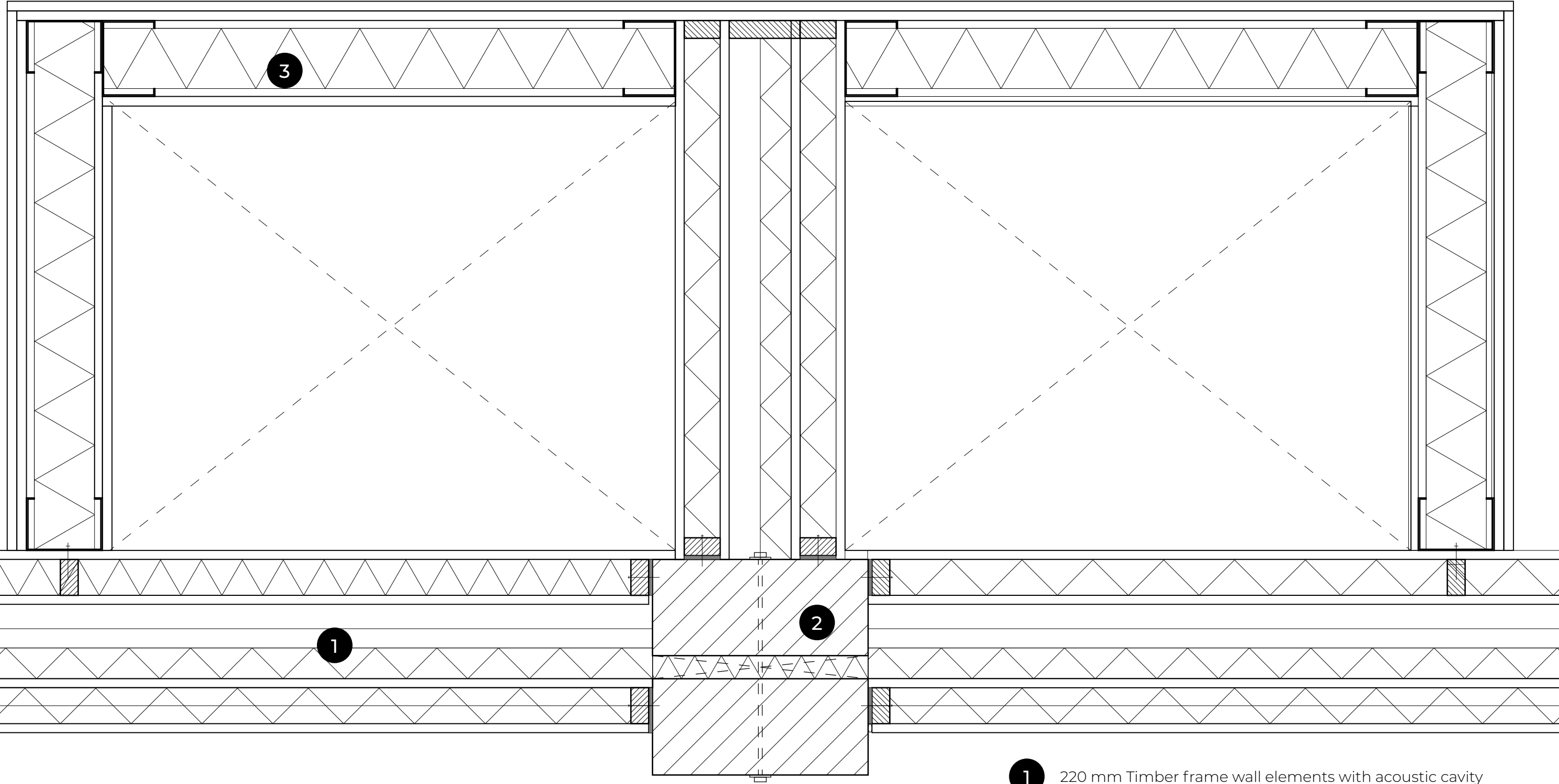


Detail E - horizontal (1:5)

- 1 Prefab timber frame facade module cladded with 100 mm brick elements in galvanised steel U-profiles
- 2 220 mm Timber frame wall elements with acoustic cavity
- 3 Openable wood framed door with intergrated solar shading

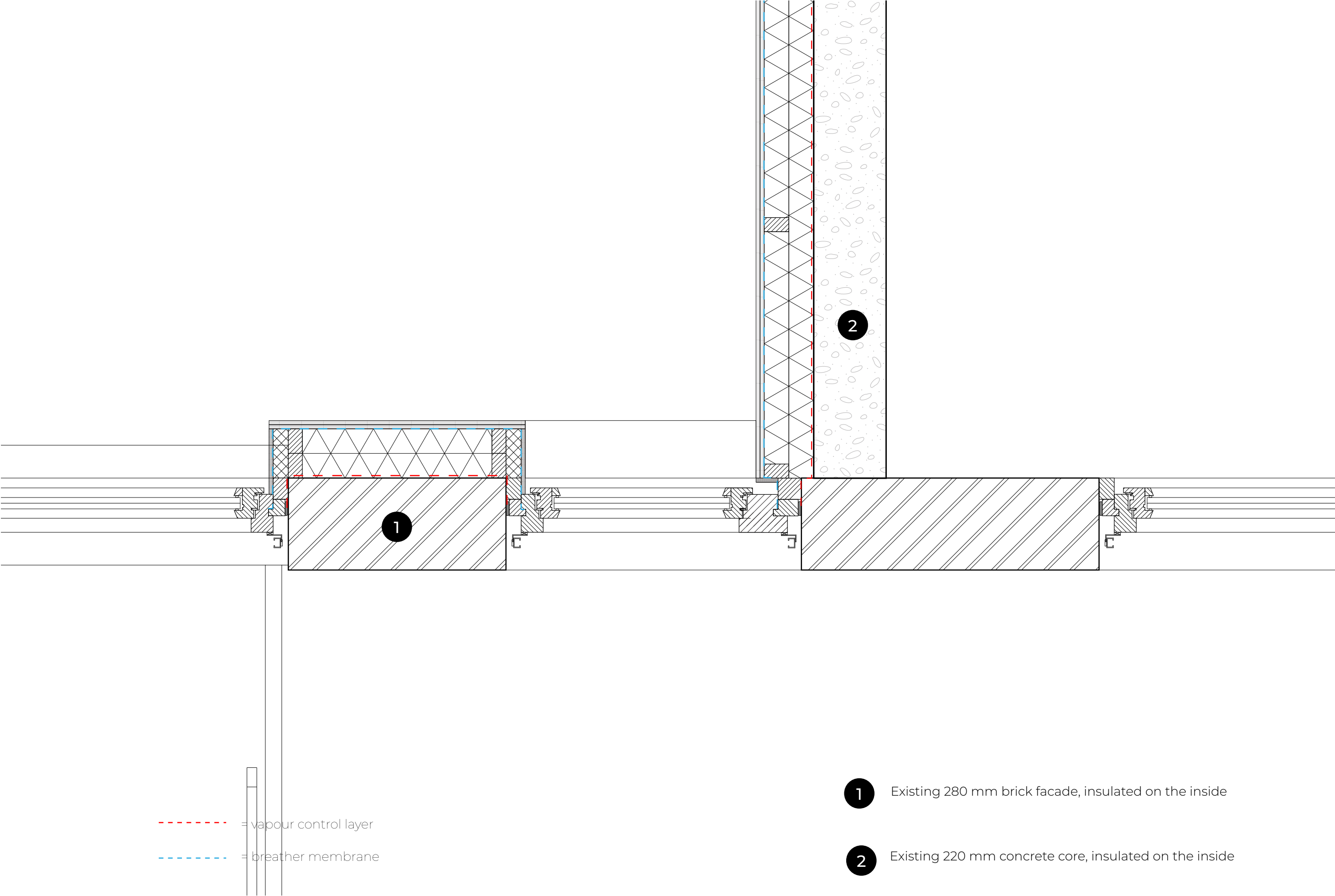


Detail F - horizontal (1:5)



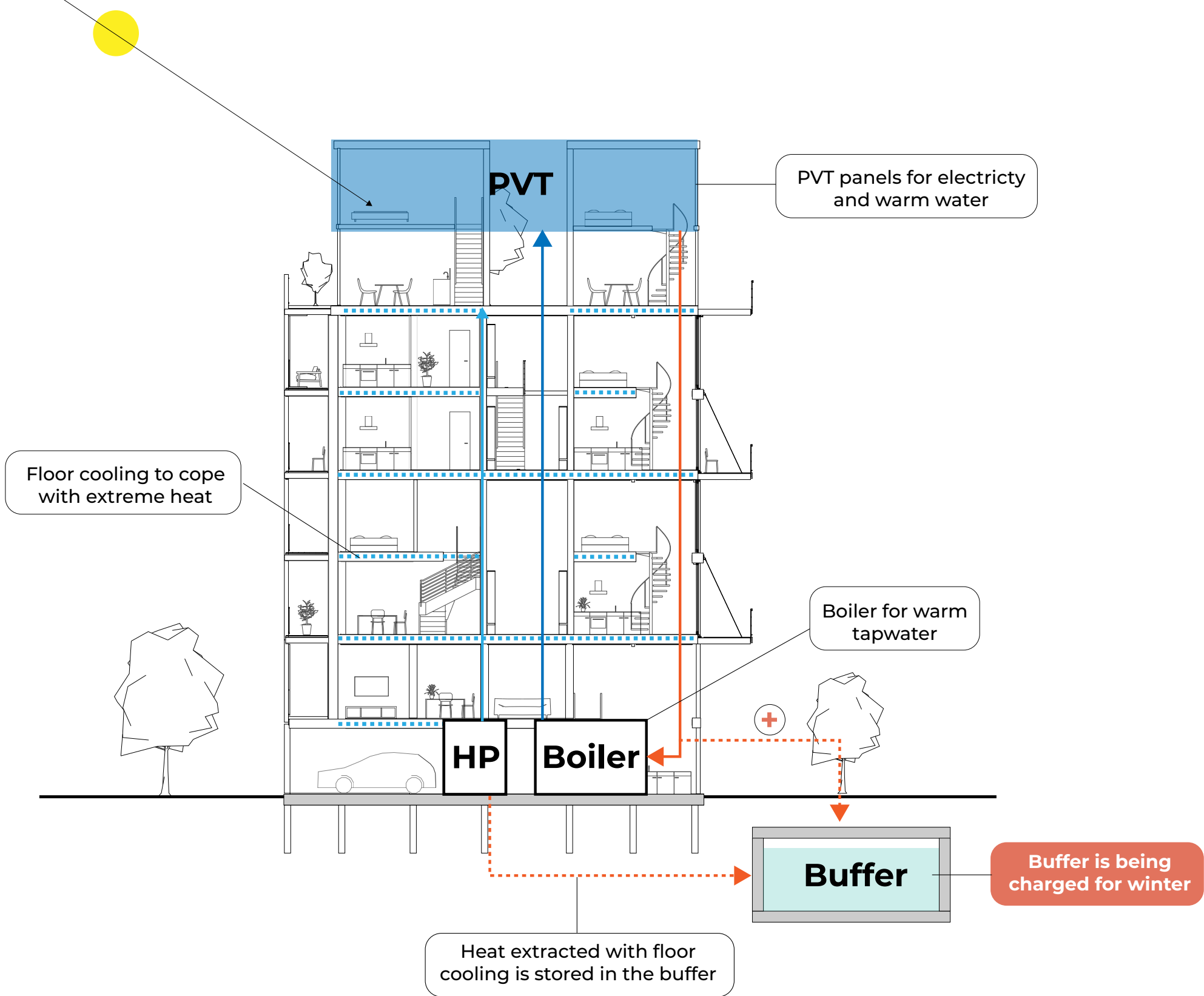
- 1 220 mm Timber frame wall elements with acoustic cavity
- 2 wood column 280x280 mm, acoustically disconnected with 30 mm rockwool insulation
- 3 130 mm metalstud walls around installation shaft.

Detail G - horizontal (1:10)



Climate design

Summer



Climate design

Winter

