

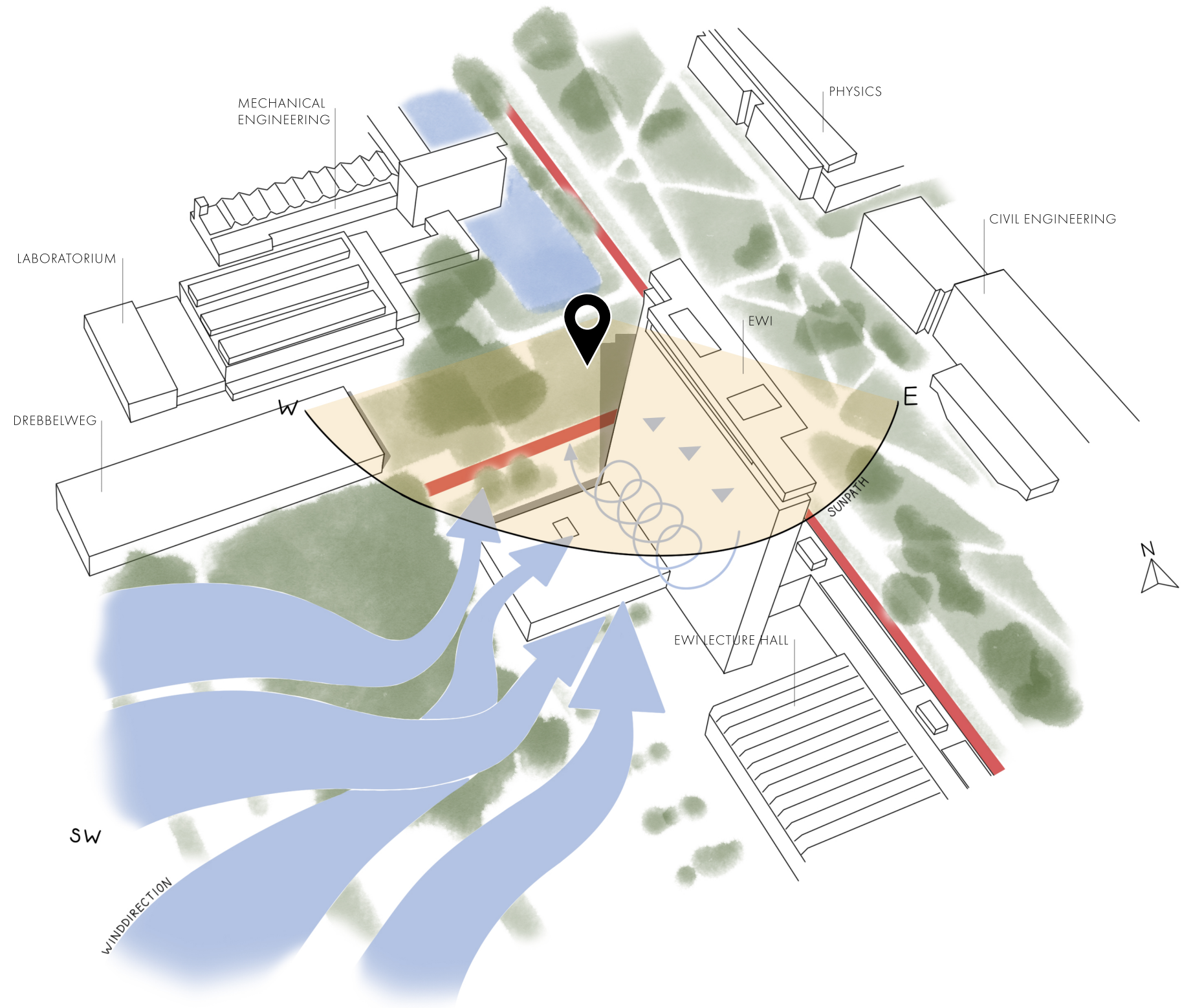


FLUX pavilion

AR0169 Materialisation: The Future Envelope

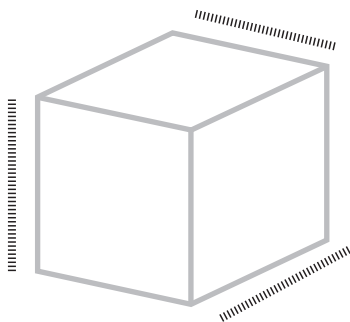
Mats Monden	6161634
Laura Jansen	5310792
Sven Schuit	5568218

ARCHITECTURE

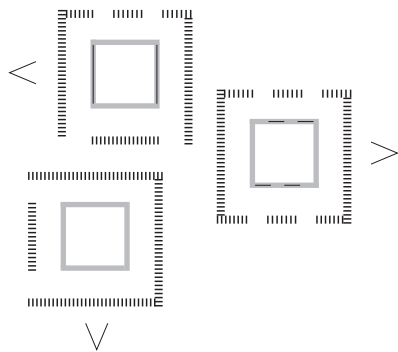




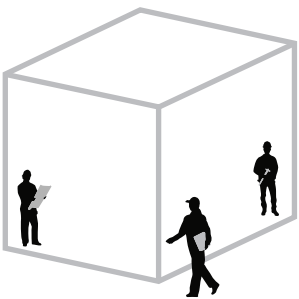
DESIGN PRINCIPLES



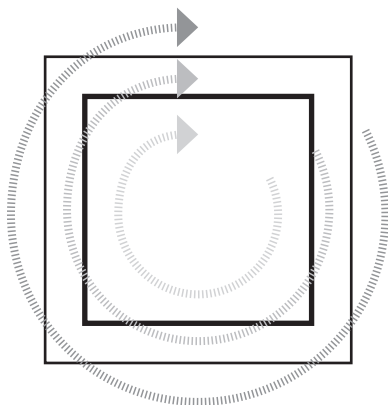
FLEXIBLE
REGULAR GRID



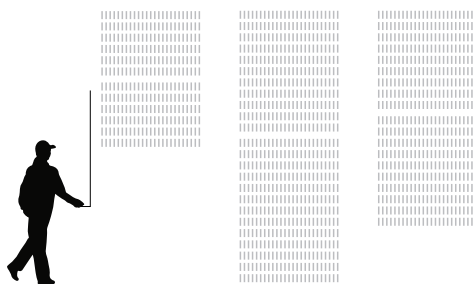
CLIMATE-ADAPTIVE
NON-SITE-SPECIFIC



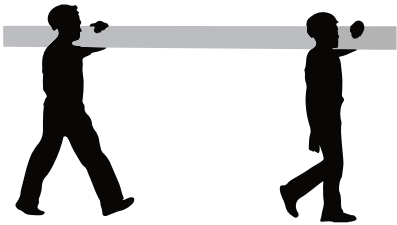
DISMOUNTABLE
'IKEA' CONSTRUCTION KIT



LAYERED CIRCULATIONS
1 BUILDING, 3 CIRCULATIONS

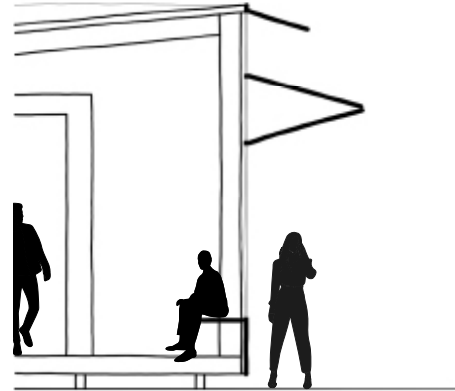


DYNAMIC FACADE
MANUALLY ADJUSTABLE



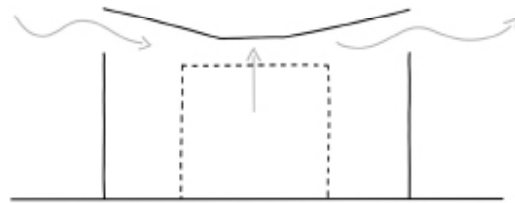
TRANSPORTABLE ELEMENTS
LIGHTWEIGHT MATERIALS

CONCEPTS



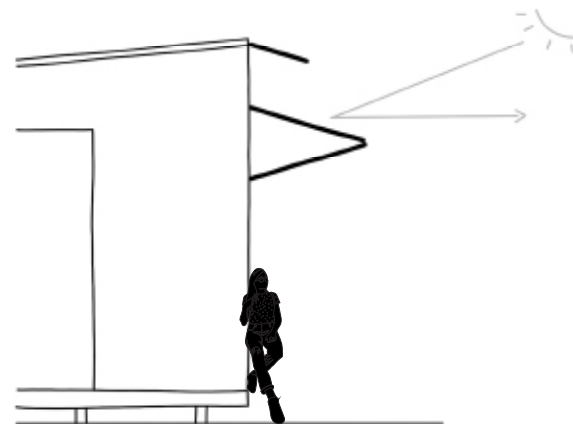
ACTIVE FACADE

Creating functional space and depth. Use of transitional zone as a buffer between public and private areas.



ROOF AS VENTILATION ELEMENT

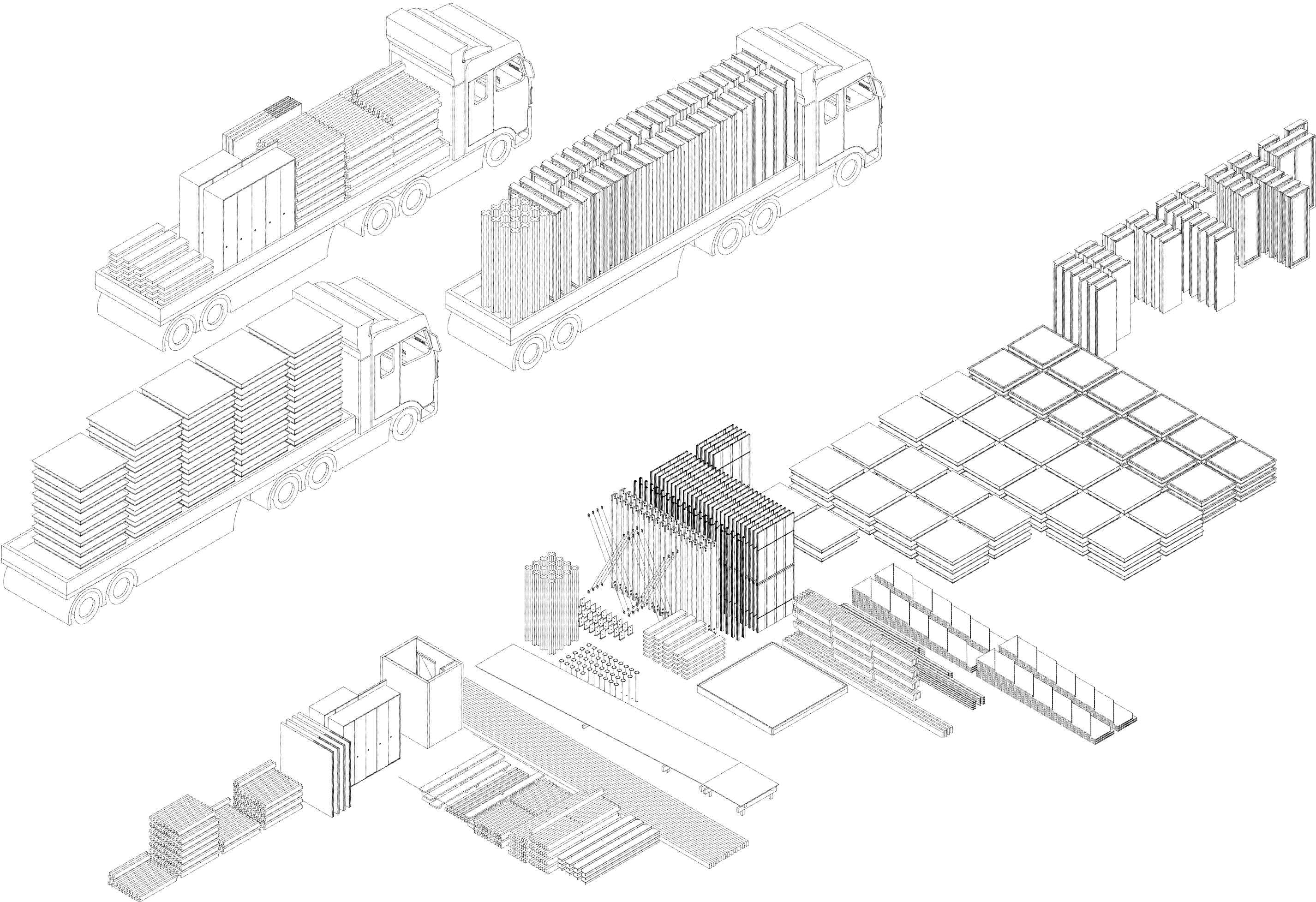
Roof enables natural ventilation of the interior space.

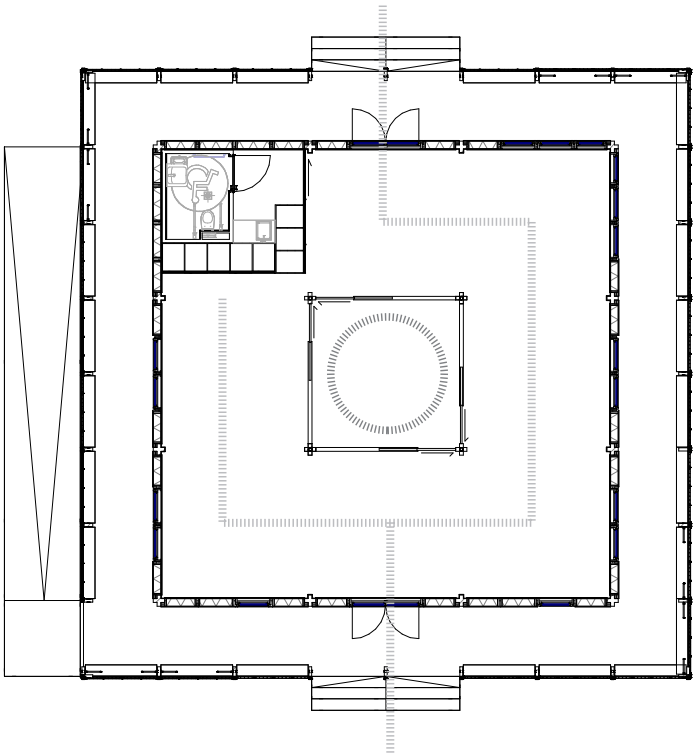


OPERABLE FACADE ELEMENTS

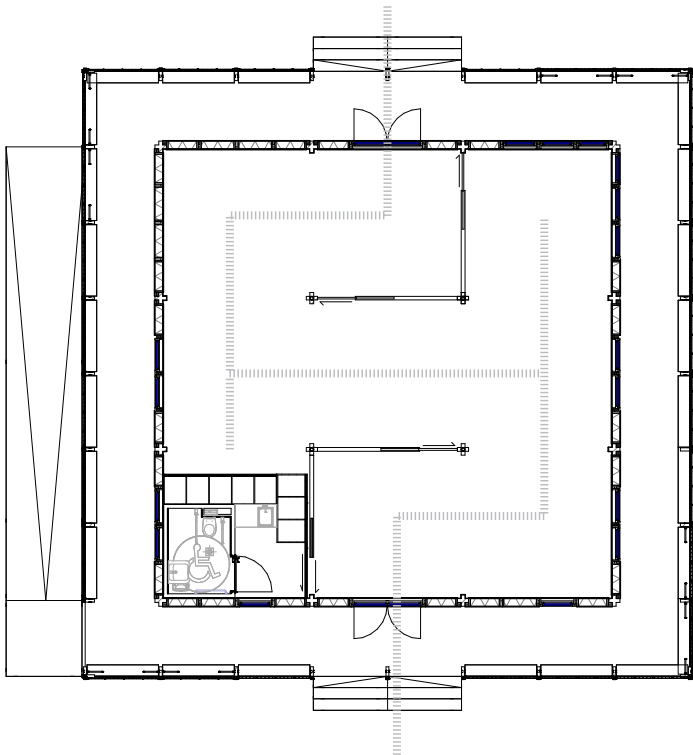
Decentralized operable elements can be used for shading, creating views, and providing natural heating during winter conditions.

LIGHTWEIGHT DESIGN
TRANSPORTABLE ELEMENTS

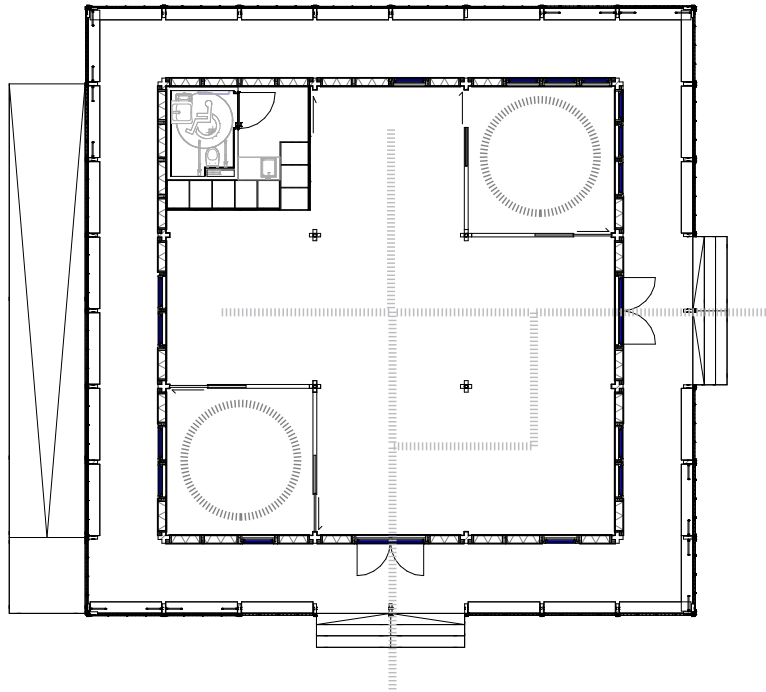




STUDY CORE



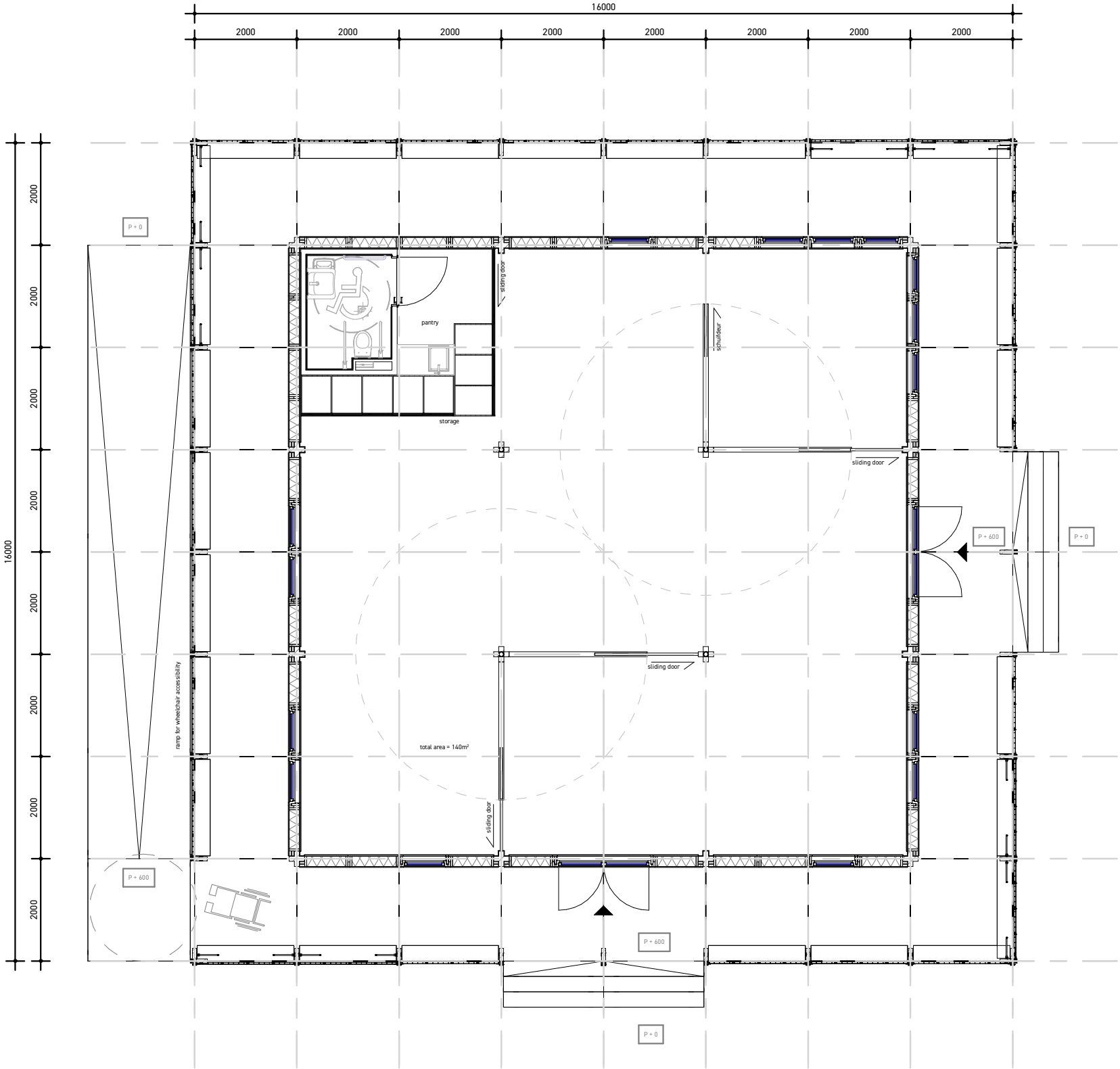
EXPOSITION



CLOSED SPACES

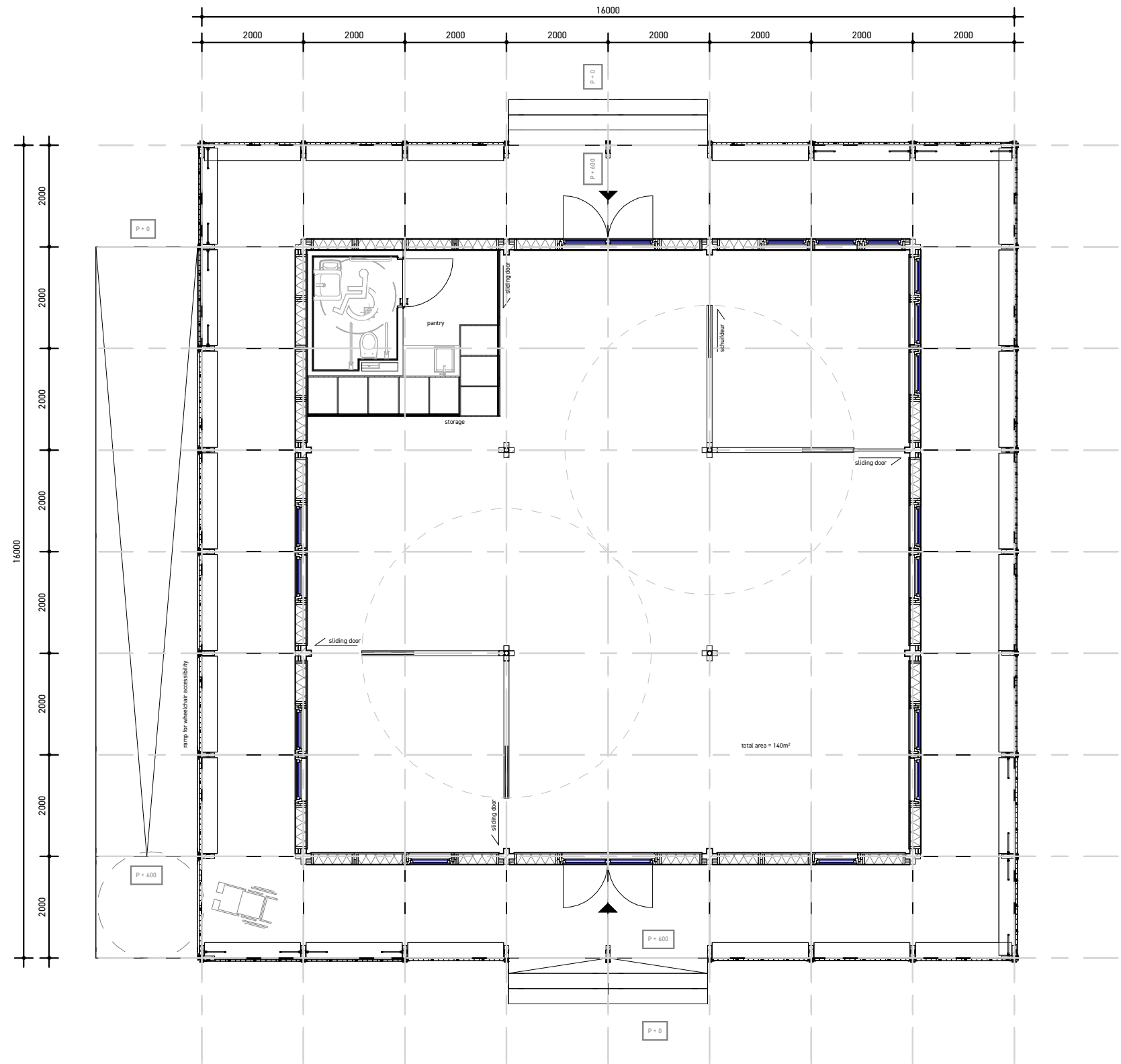
FLOORPLAN
LOCATION 7: DREBBELWEG

AR0169 Materialisation: The Future Envelope

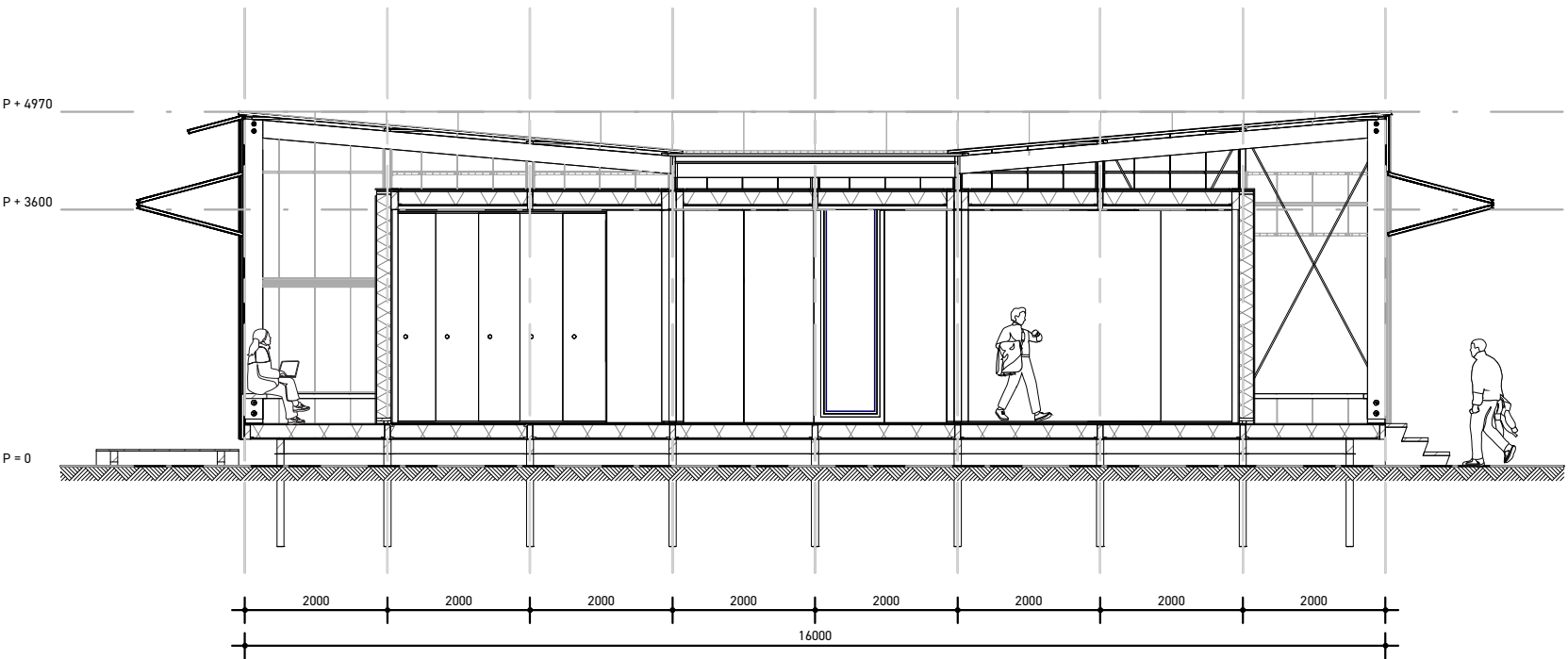
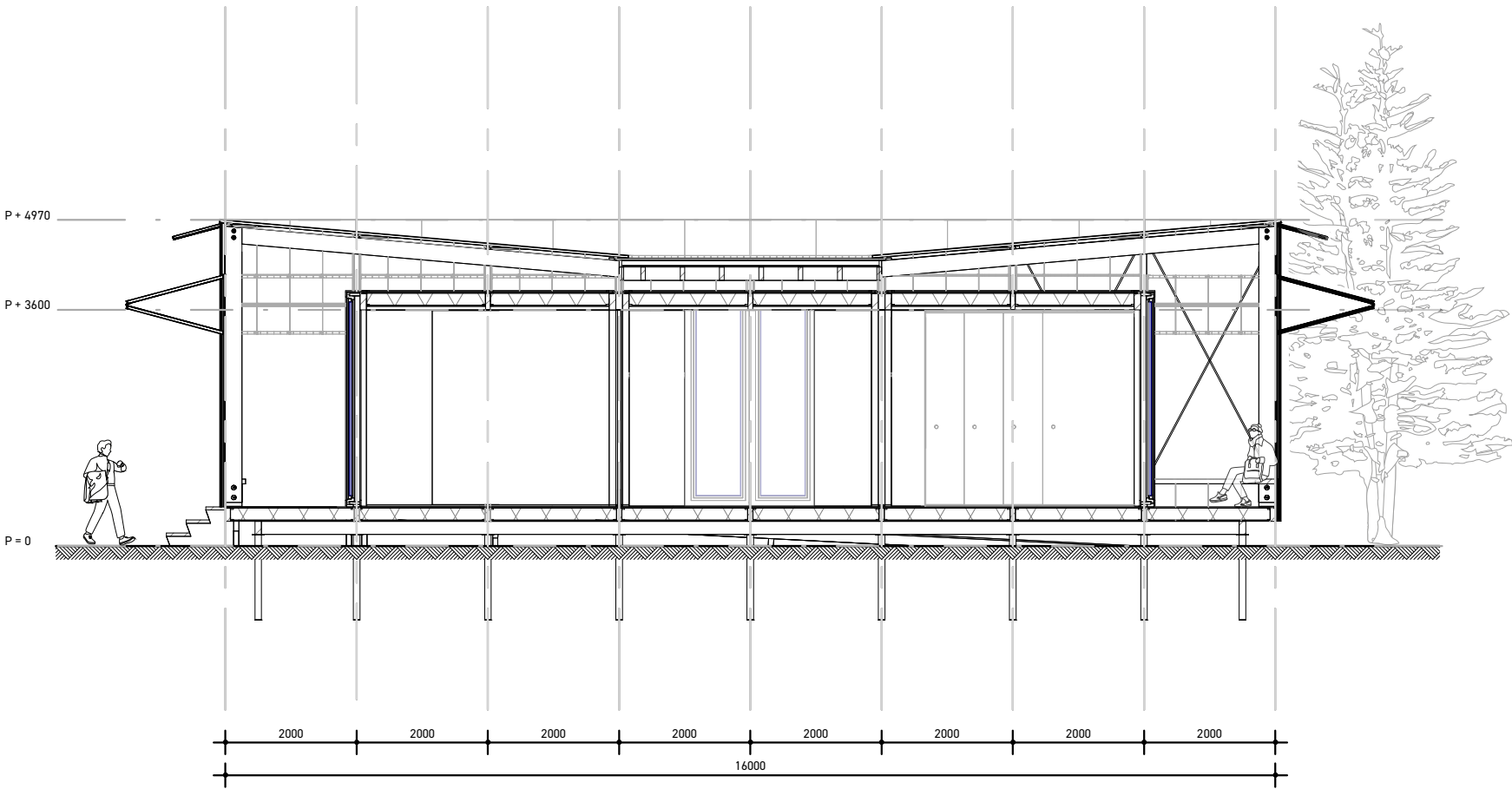


FLOORPLAN
LOCATION 9: ECHO

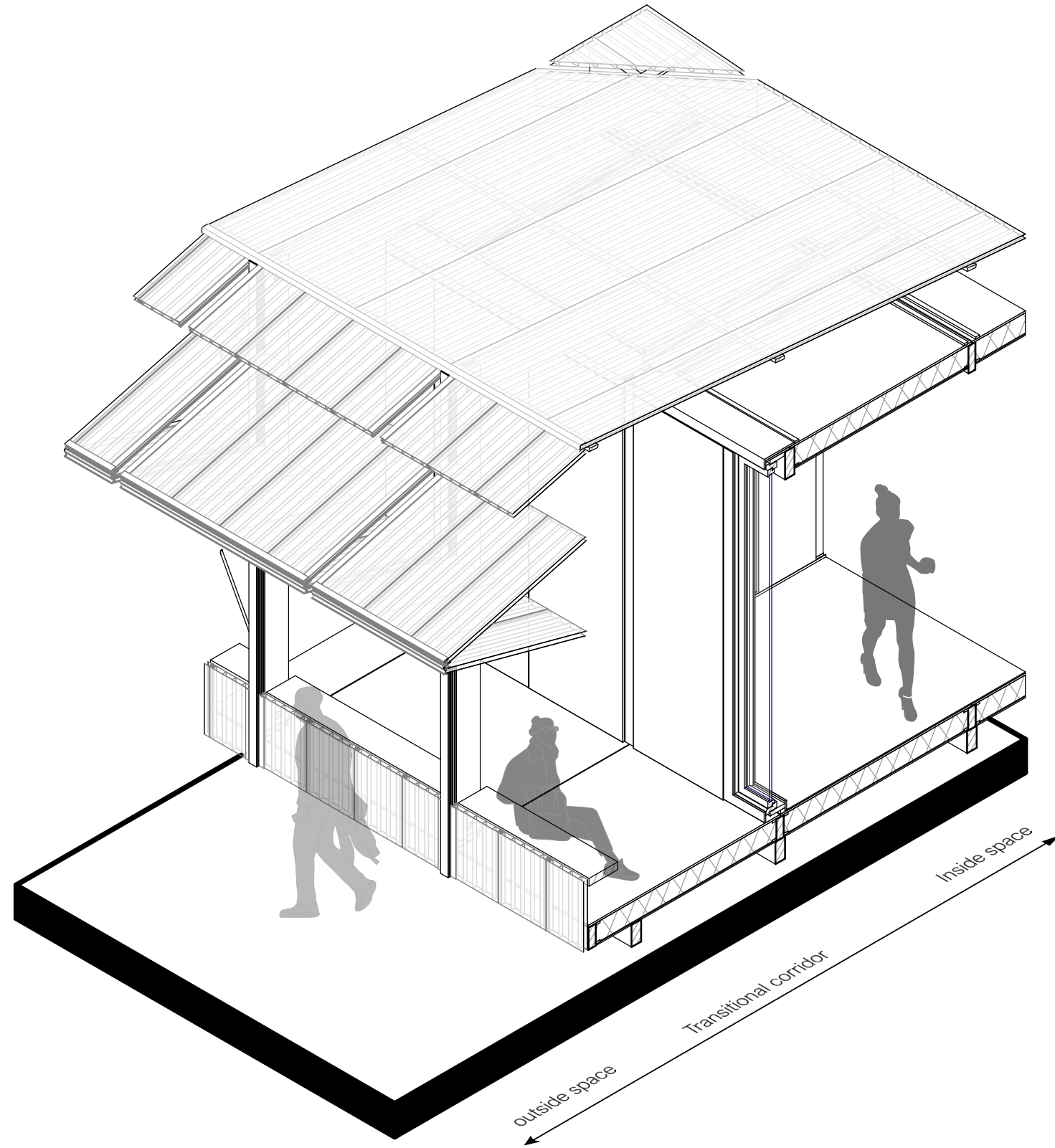
AR0169 Materialisation: The Future Envelope



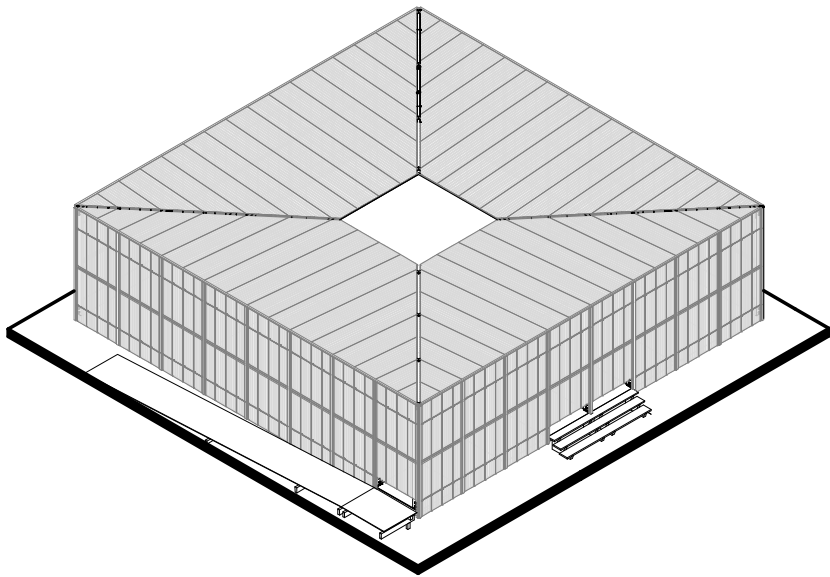
SECTION



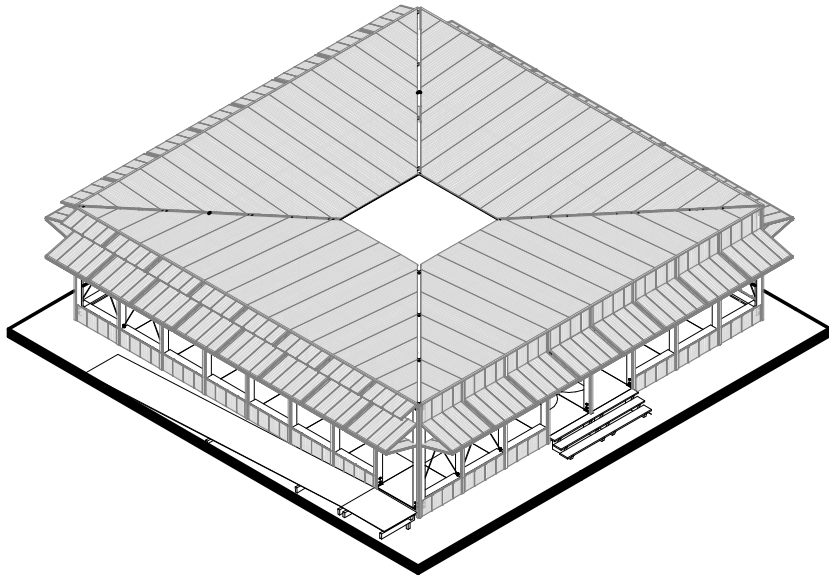
DYNAMIC FACADE
THREE DIFFERENT SPACES



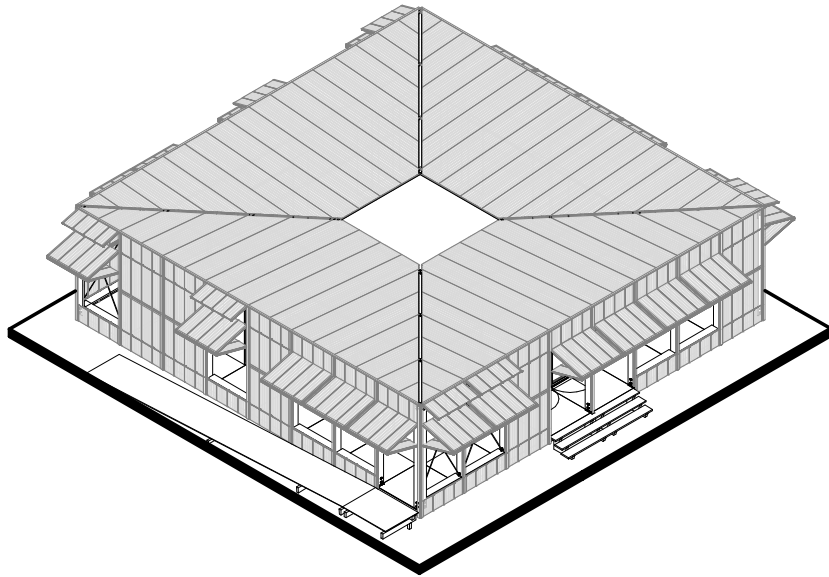
CONFIGURATIONS
DYNAMIC FACADE



CLOSED *FACADE*



OPEN *FACADE*



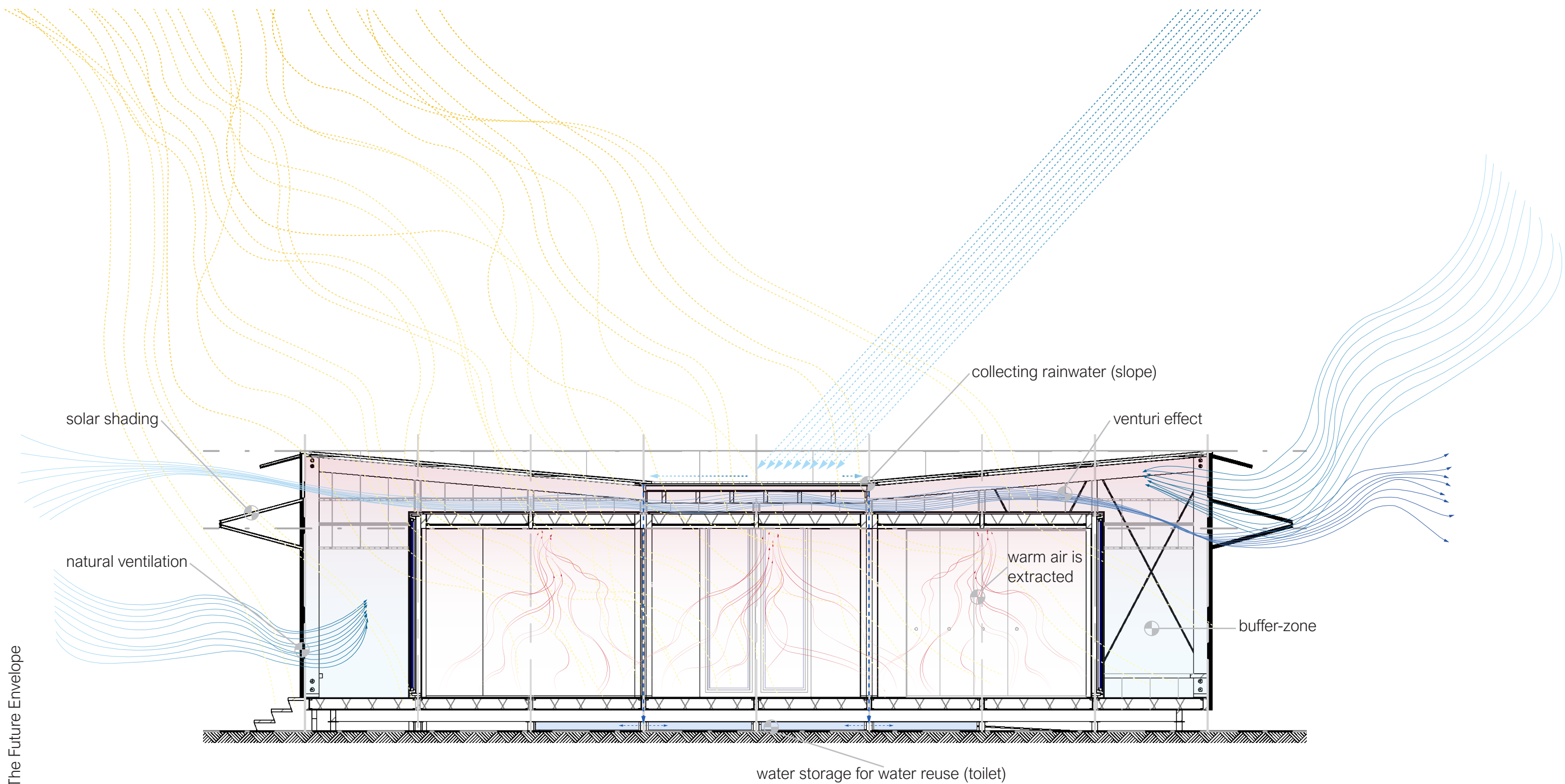
PERSONAL *PREFERENCE*

IMPRESSION
DYNAMIC FACADE



CLIMATE DESIGN

CLIMATE DESIGN
SECTION



ORIGIN OF MATERIALS
MATERIAL MAP

Straw insulation

Cork flooring

Woodteq curtain walls

Manufacturer wooden window frames

Manufacturer OSB boards

Steel assembly elements

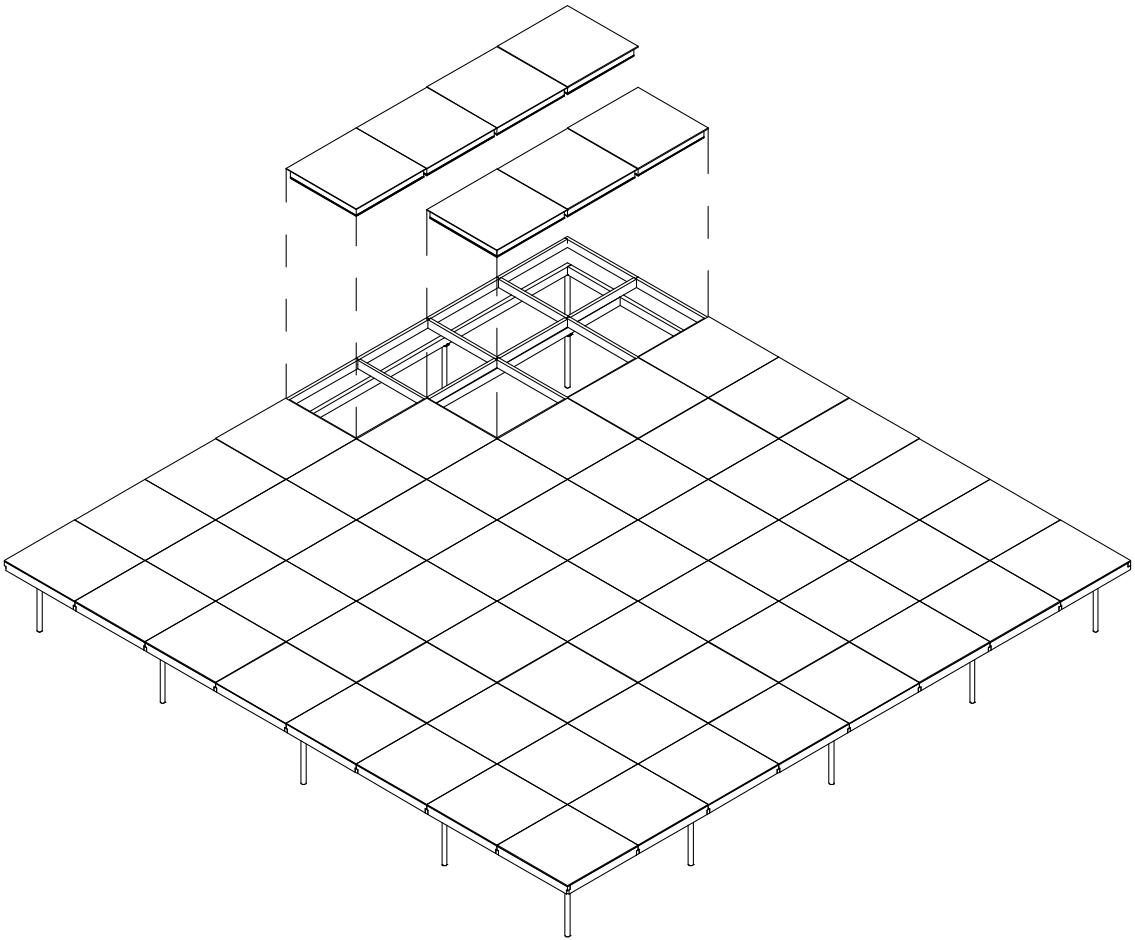
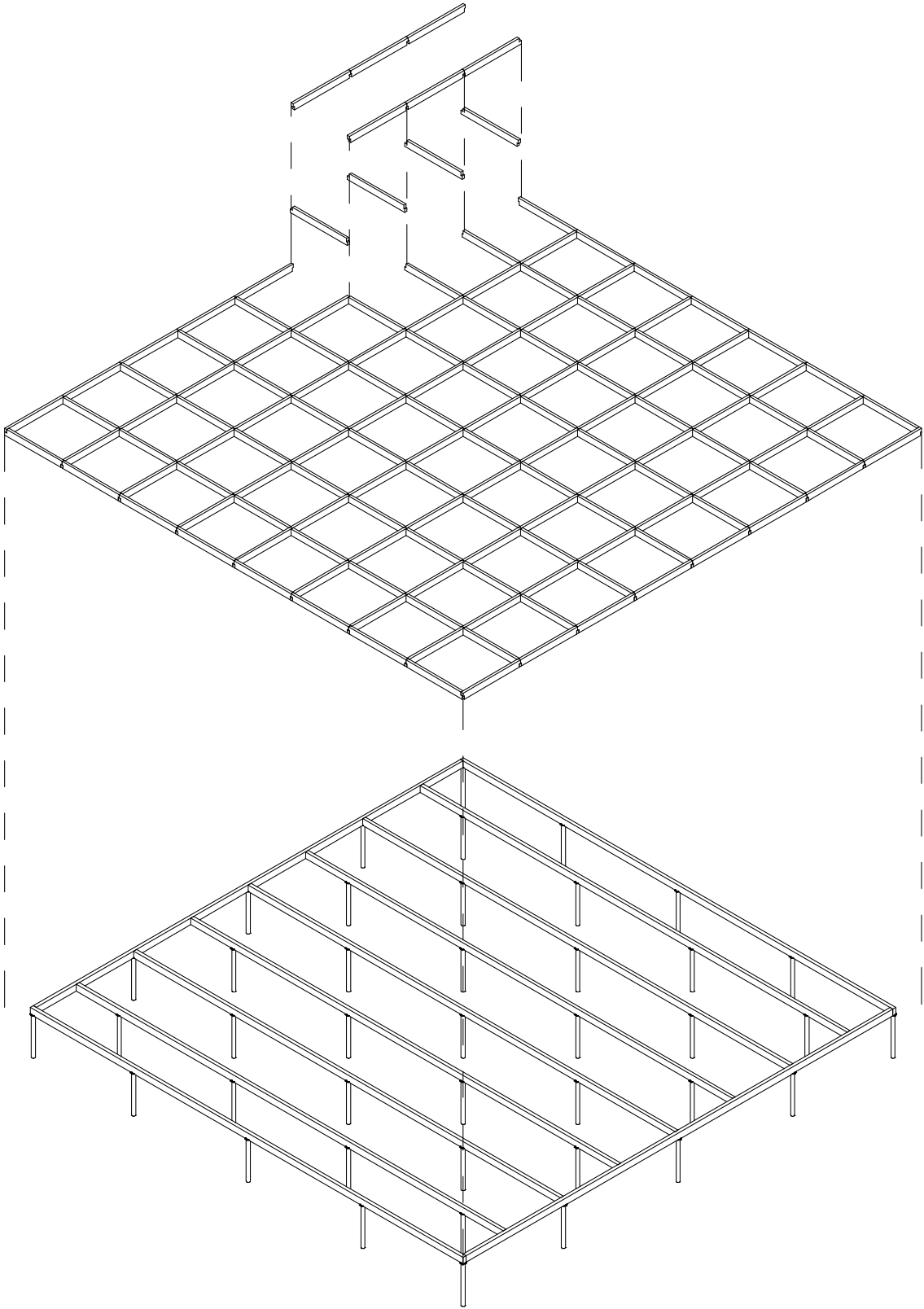
Polycarbonate production

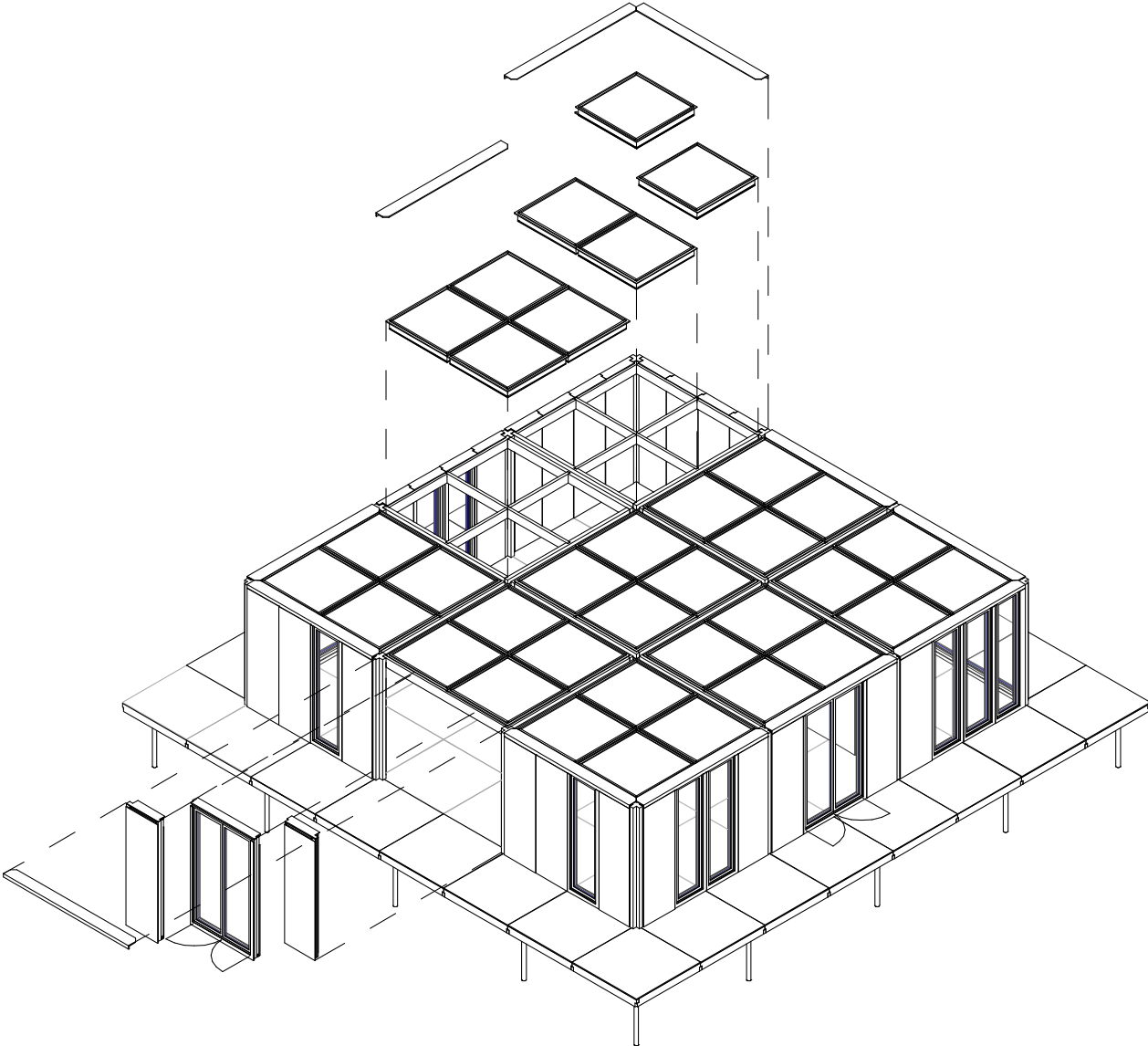
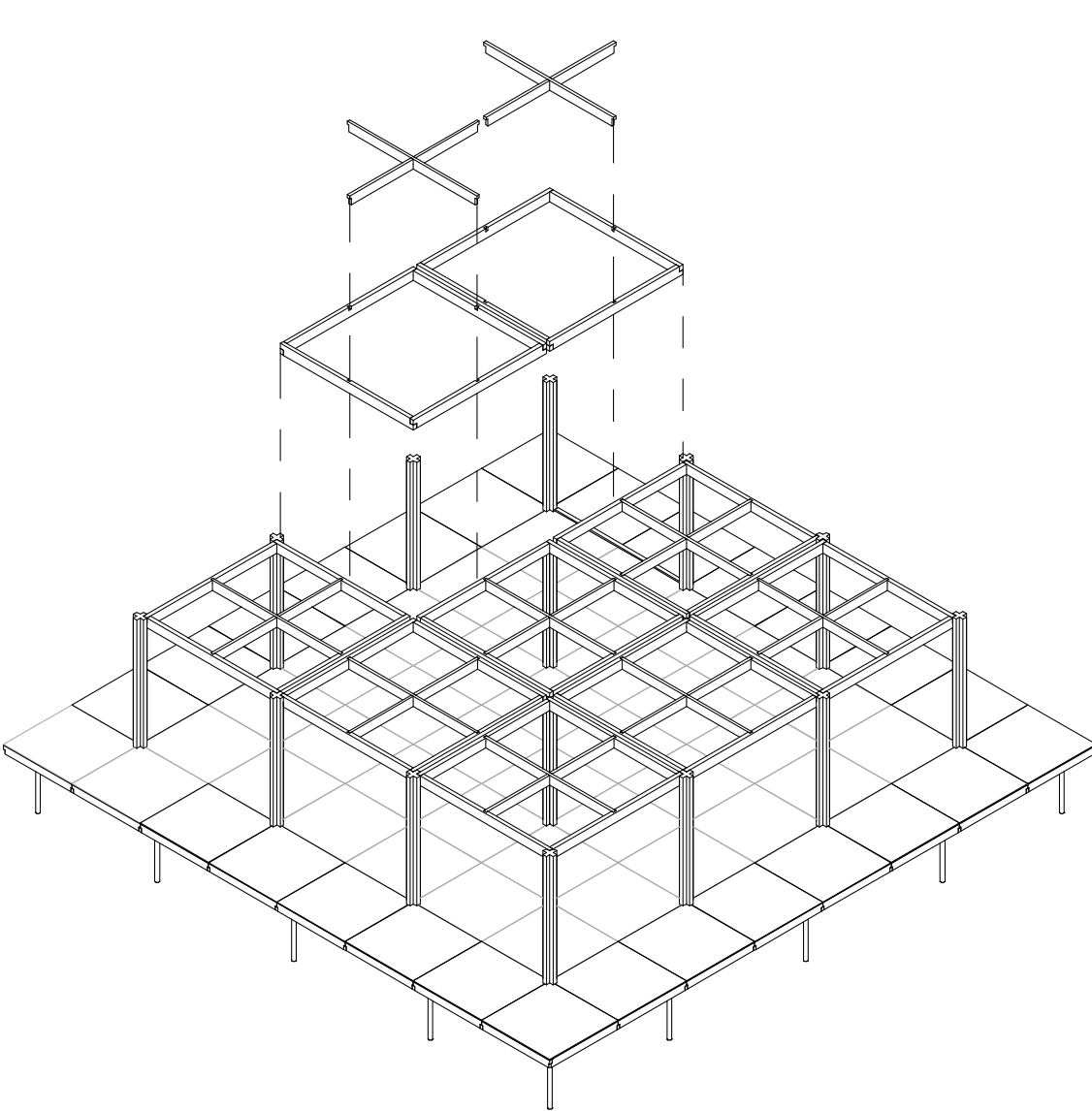
Spruce production forests



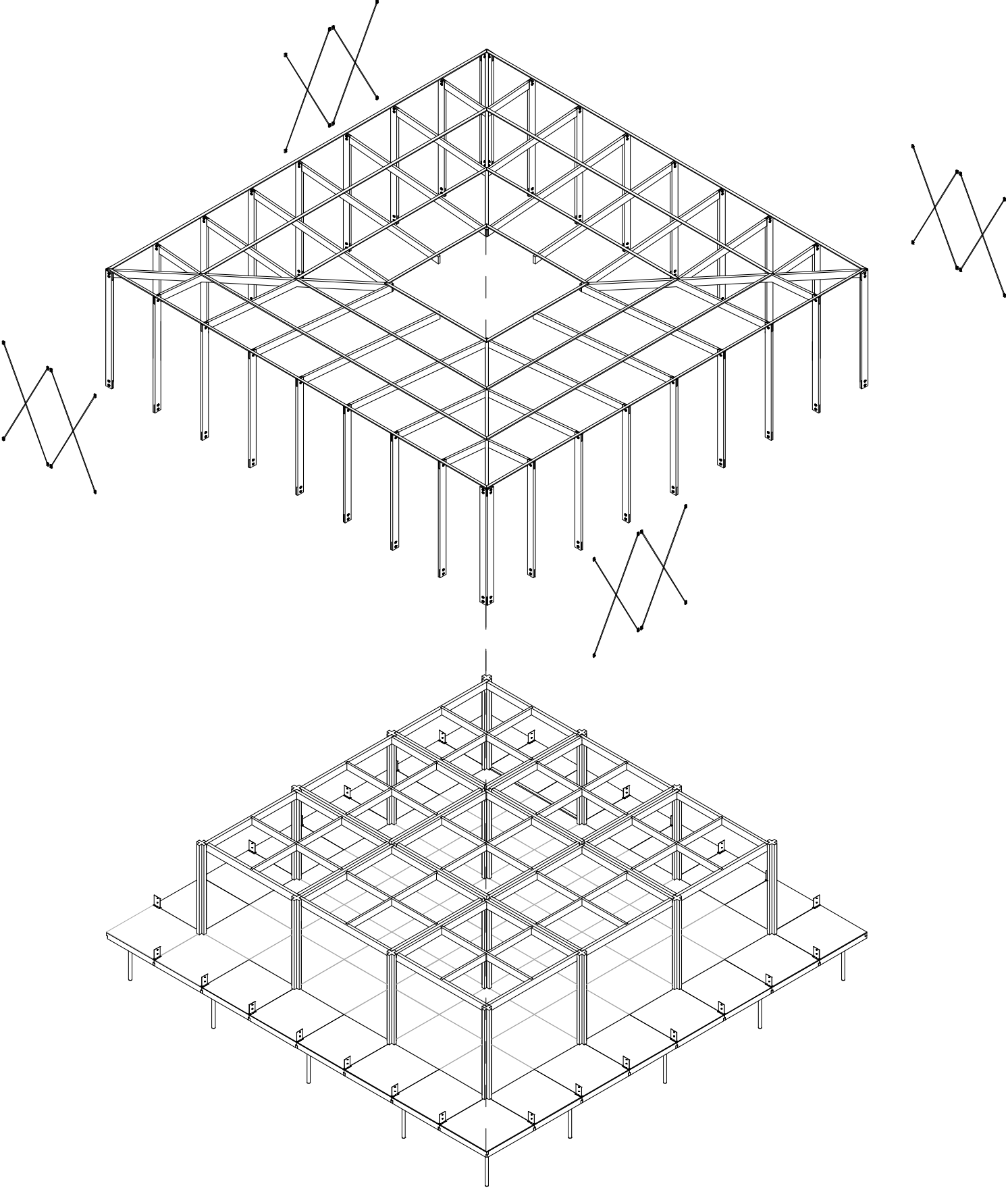
C O N S T R U C T I O N

STRUCTURAL SYSTEM

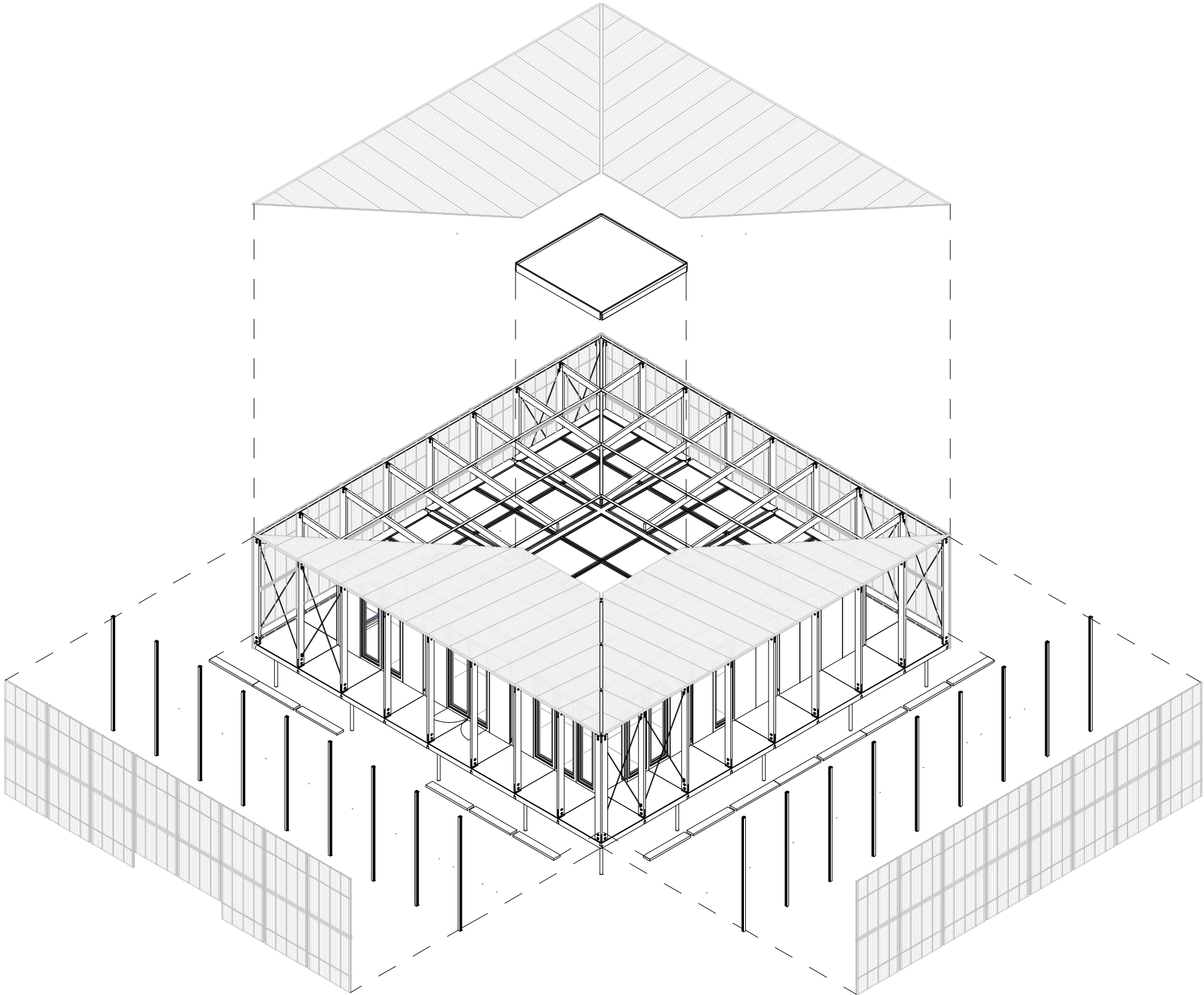


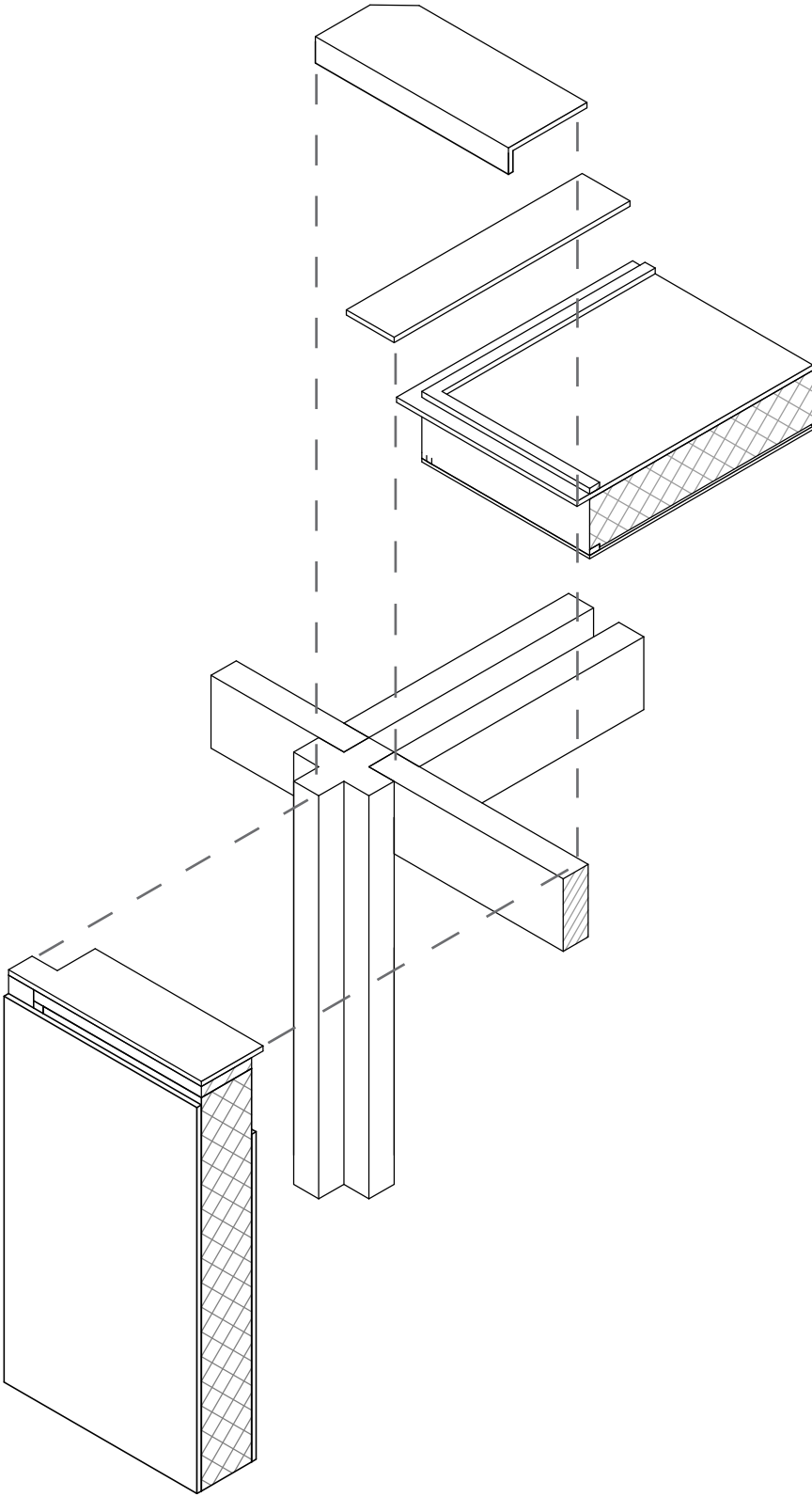


STRUCTURAL SYSTEM

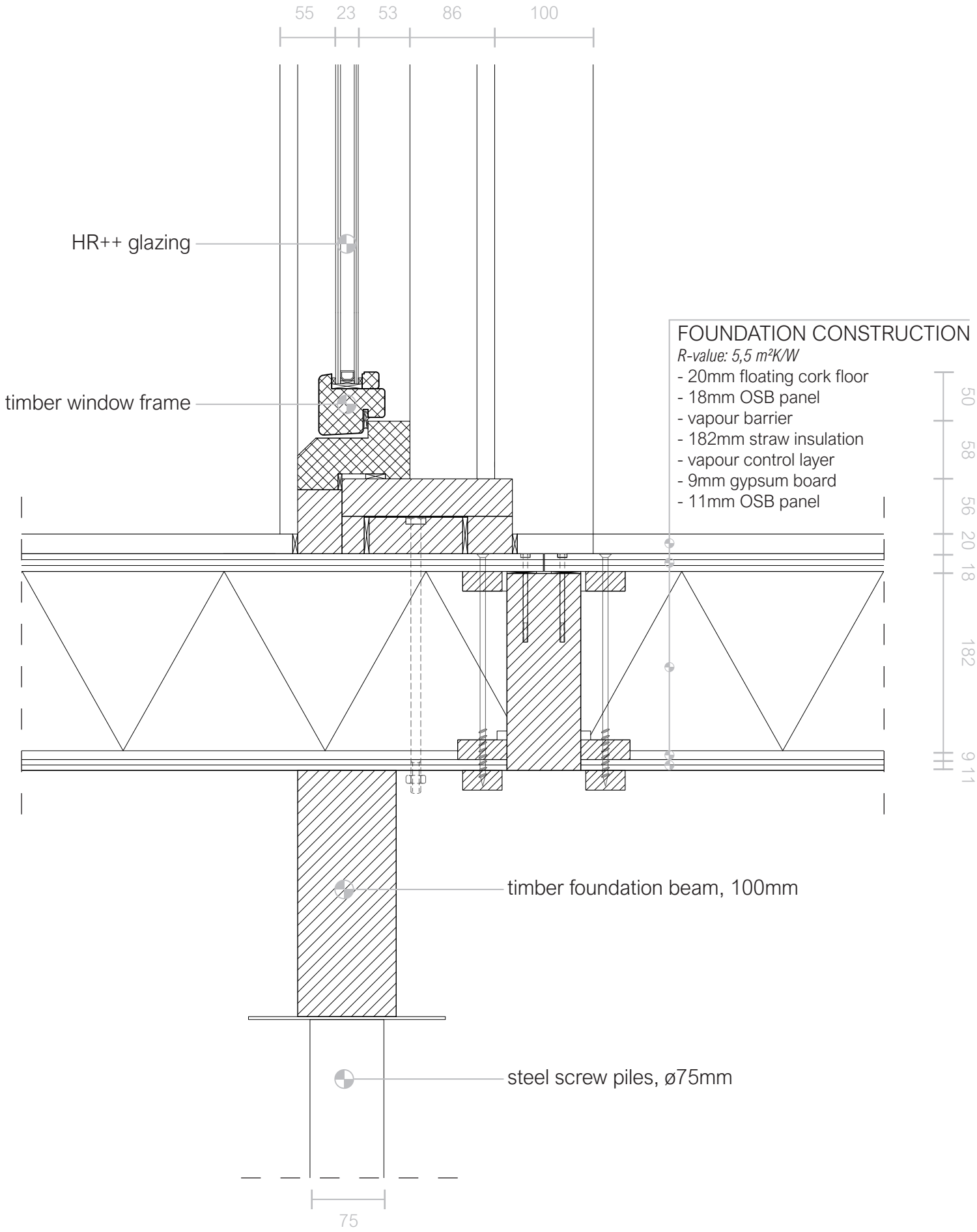


STRUCTURAL SYSTEM

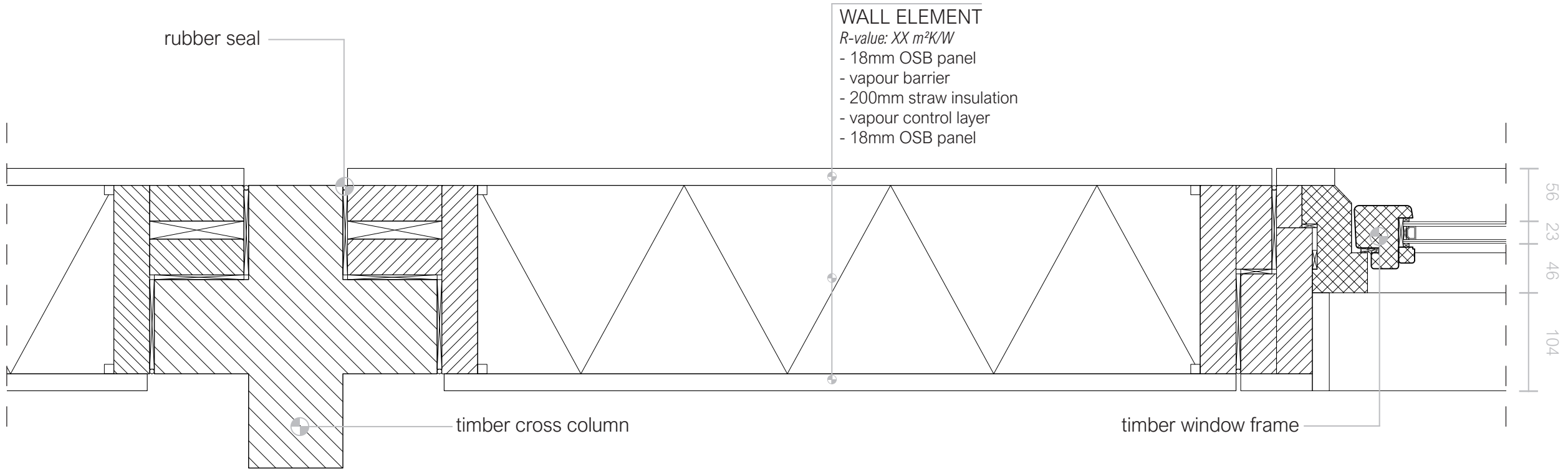




1:5 DETAILS
FOUNDATION (inner façade)

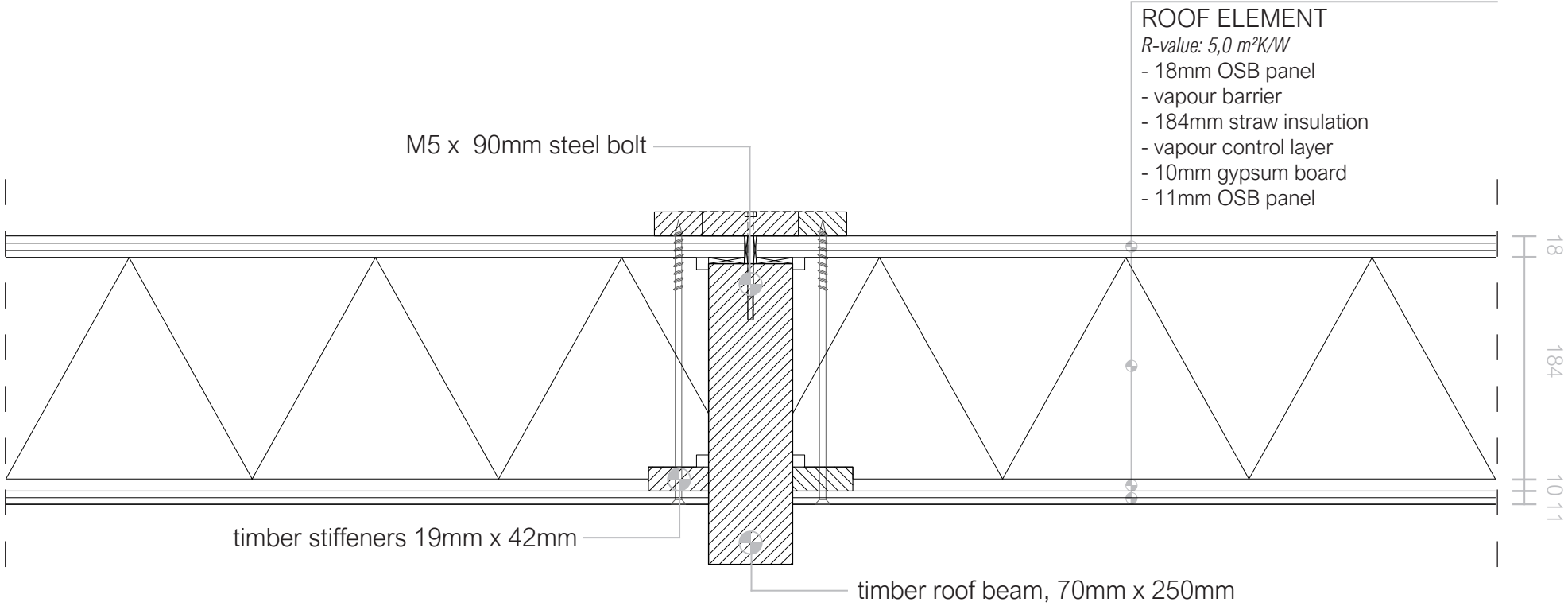


1:5 DETAILS
HORIZONTAL (inner façade)

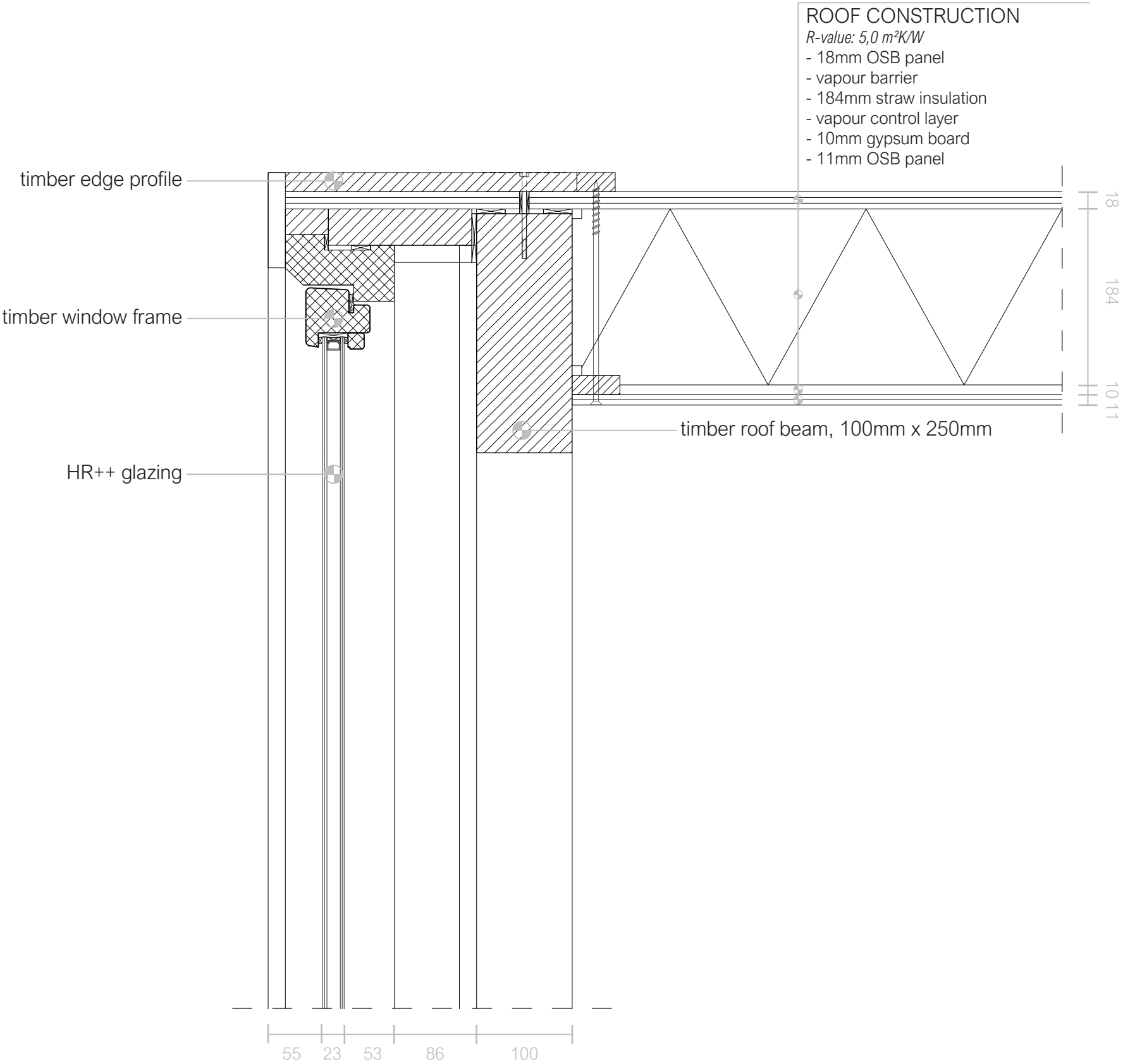


1:5 DETAILS

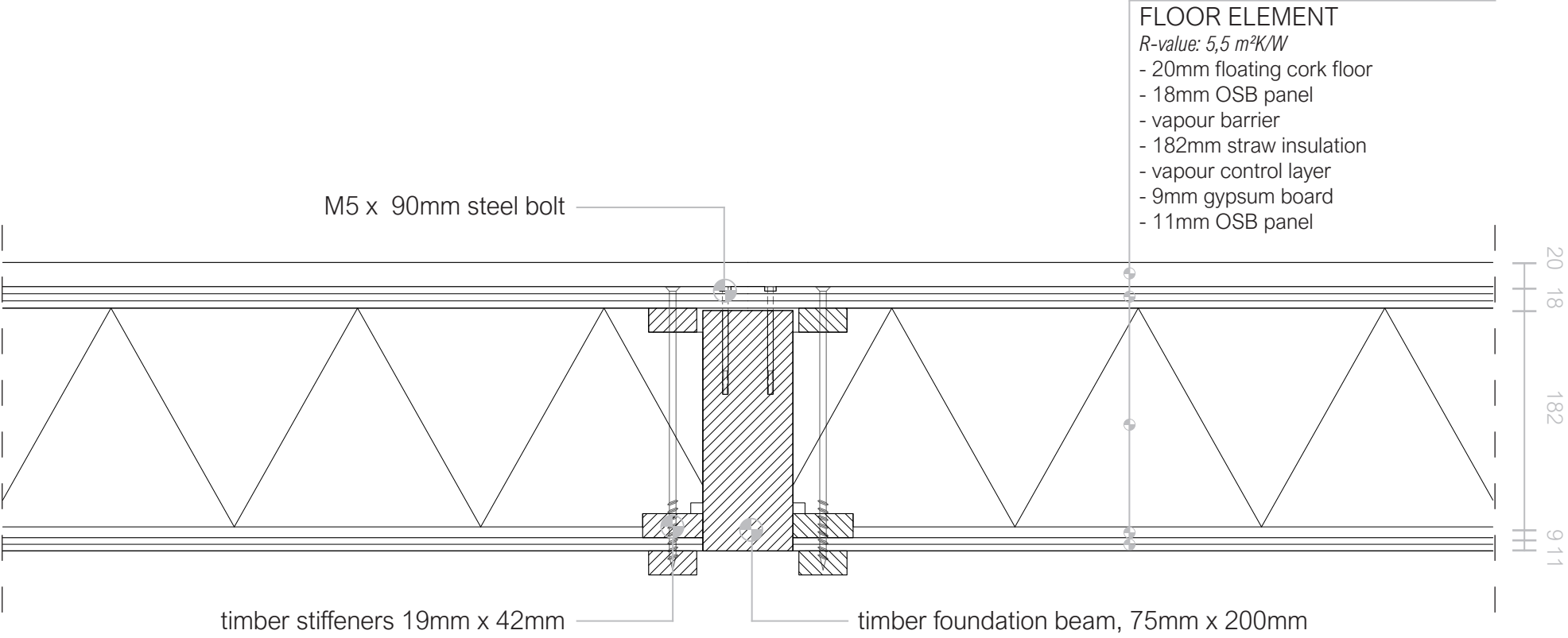
FLOOR ELEMENT (inner façade)



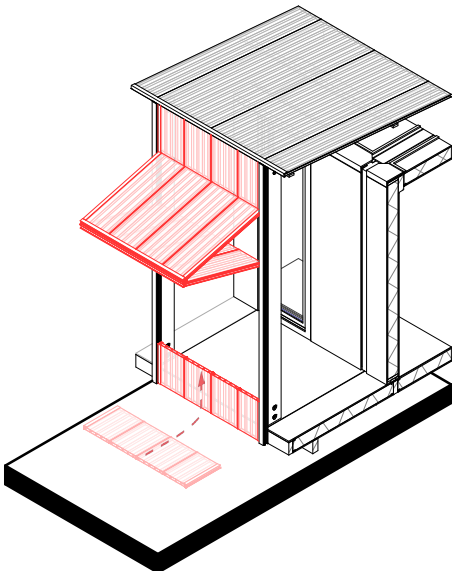
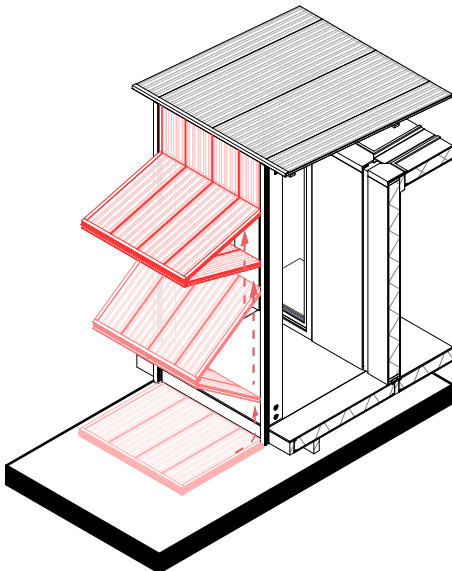
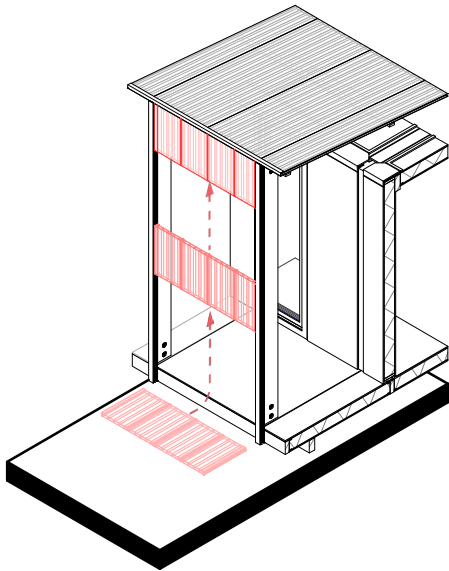
1:5 DETAILS
ROOF-EDGE (inner façade)



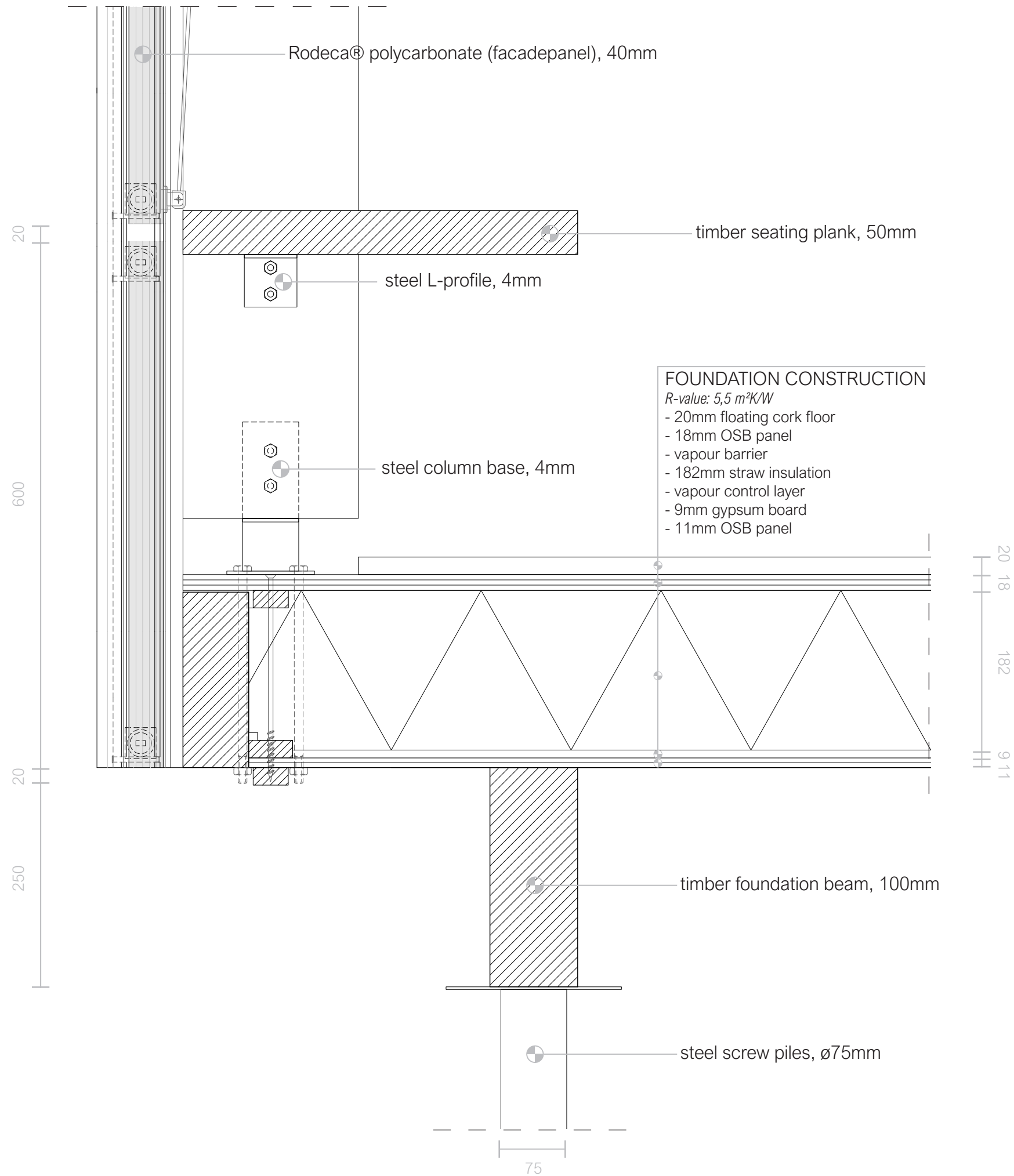
1:5 DETAILS
ROOF ELEMENT (inner façade)



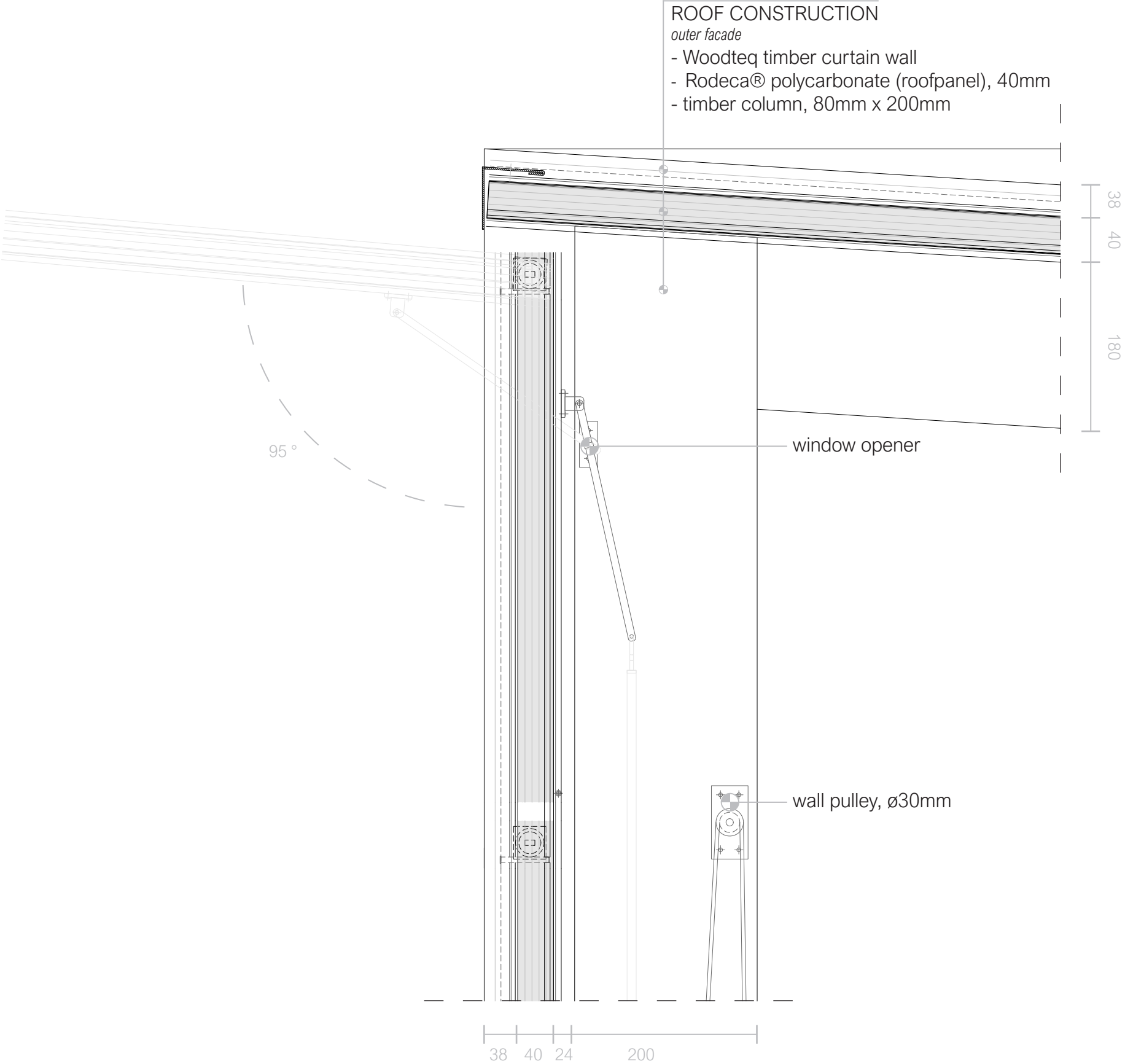
PLUG 'N PLAY
INSTALLATION POLYCARBONATE PANELS (outer façade)



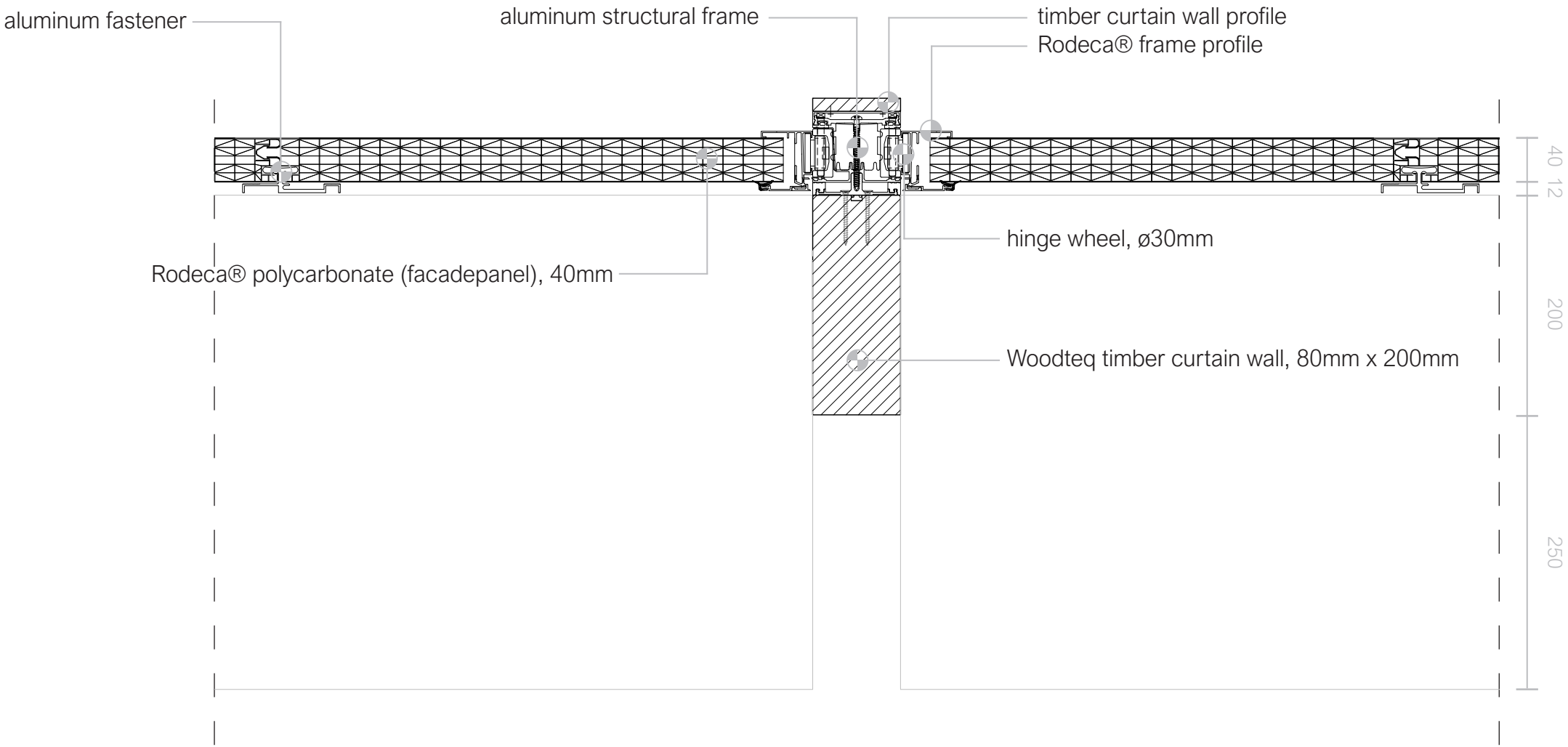
1:5 DETAILS
FOUNDATION (outer façade)



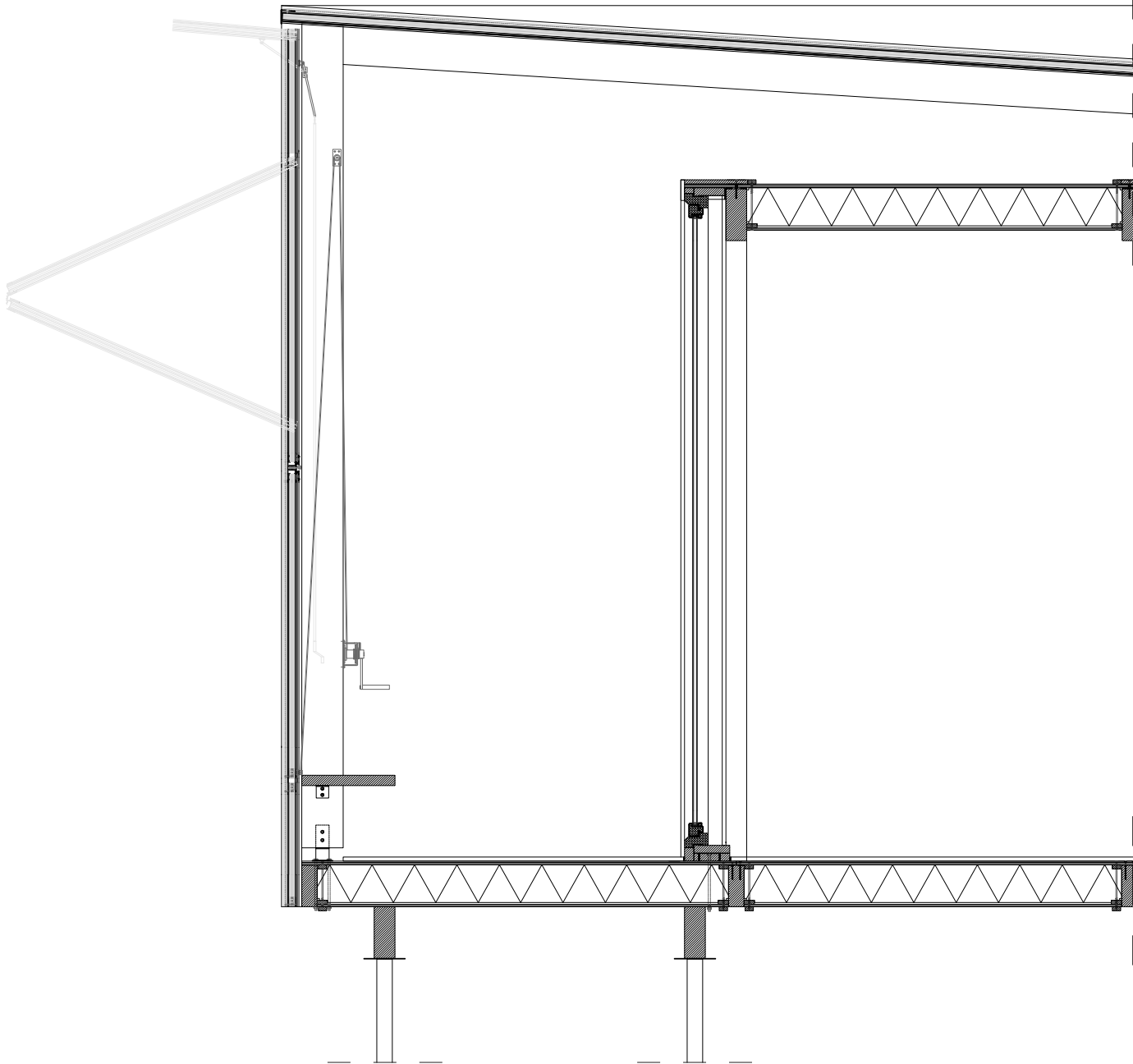
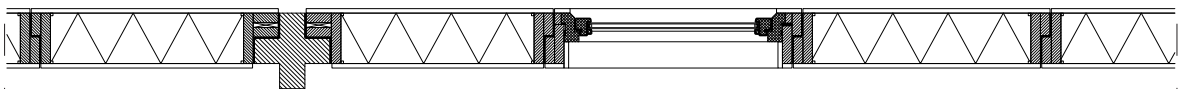
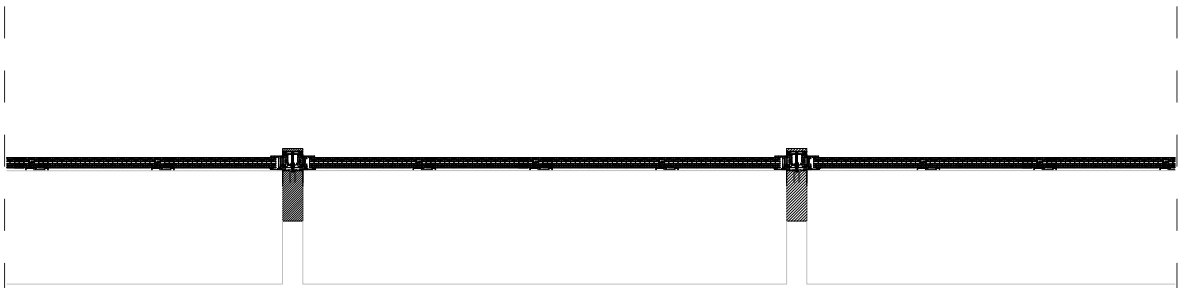
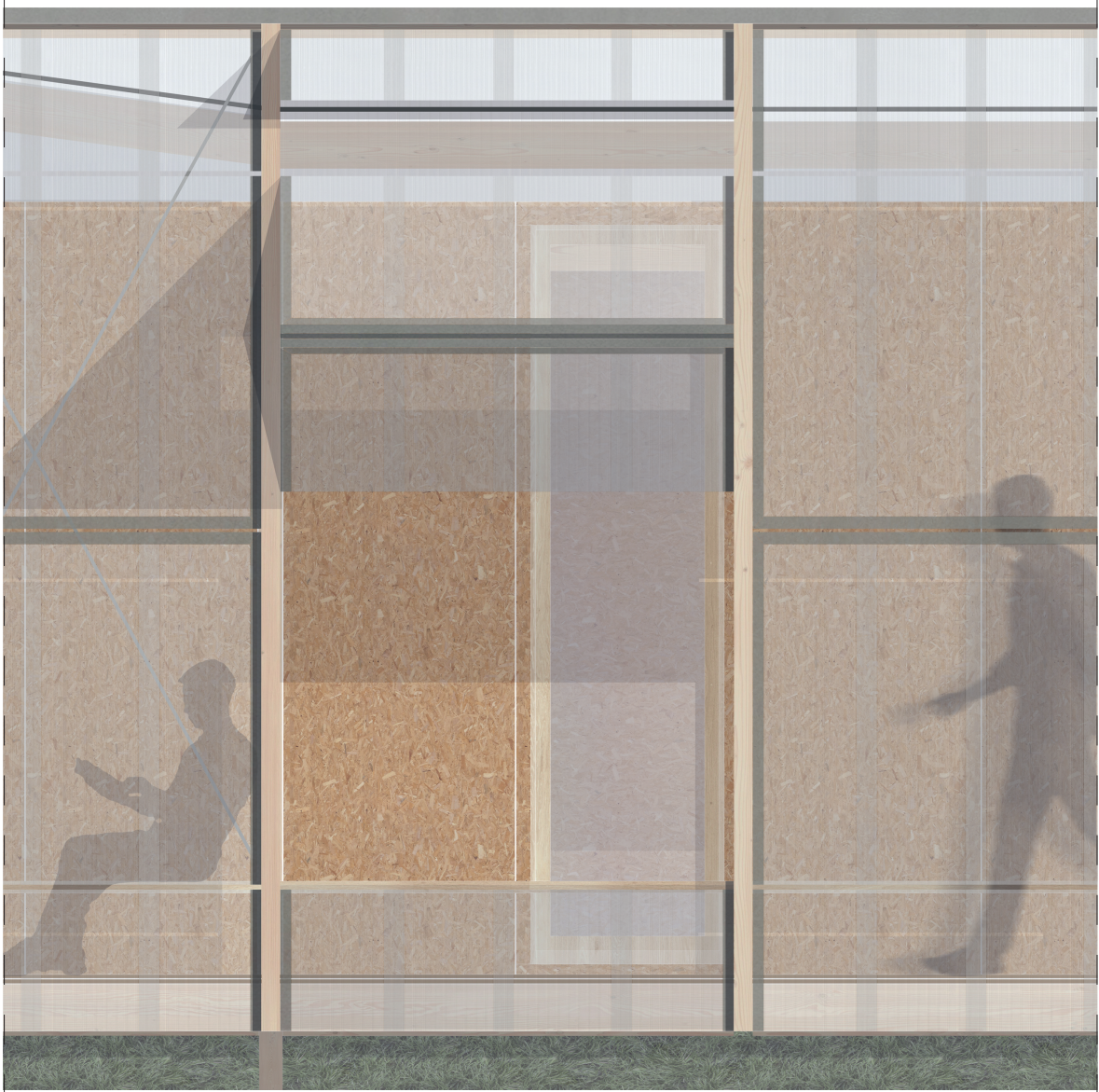
1:5 DETAILS
ROOF-EDGE (outer façade)



1:5 DETAILS
HORIZONTAL (outer façade)



1:20 FACADE FRAGMENT
FLUXPAVILION (SCALED)



IMPRESSION
BUFFER-ZONE





FLUX pavilion