Undividing Lahore
The Temple of Dialogue

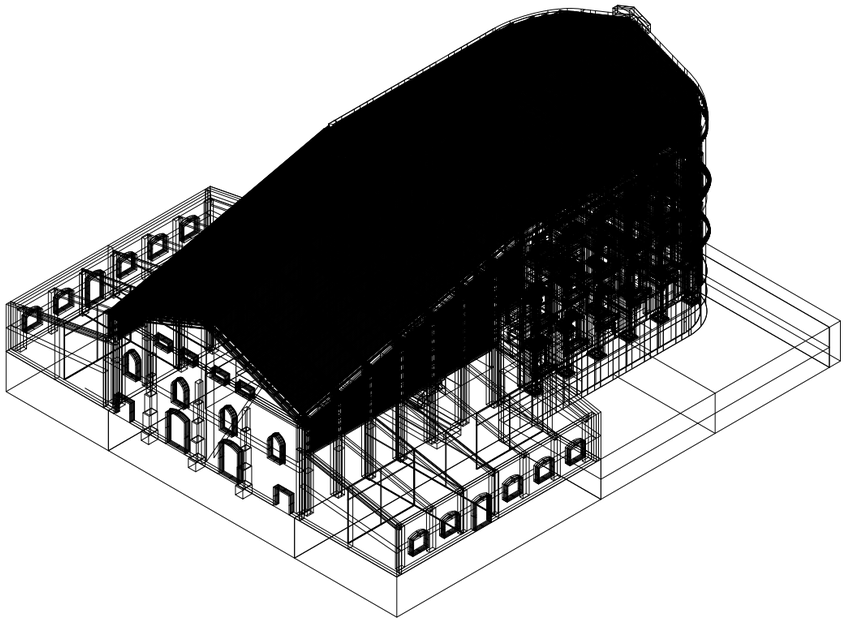
Building technology

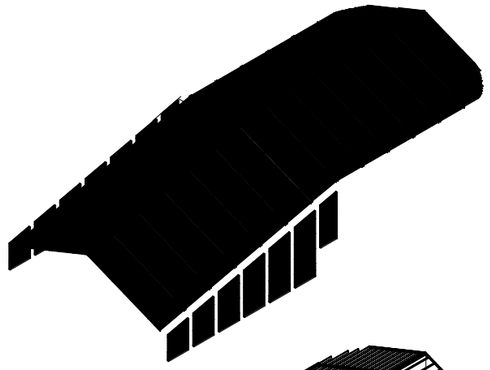
M.B. Haq
student number: 4369629

Explore Lab Graduation Studio 2020-2021 Faculty of Architecture and the Built Environment Delft, University of Technology

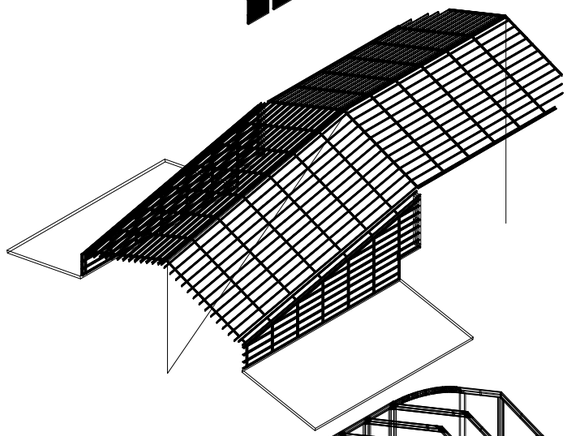
Design Mentor: Harald Mooij
Building Technology Mentor: Freek Speksnijder
Research Mentor: Roberto Rocco

Entity

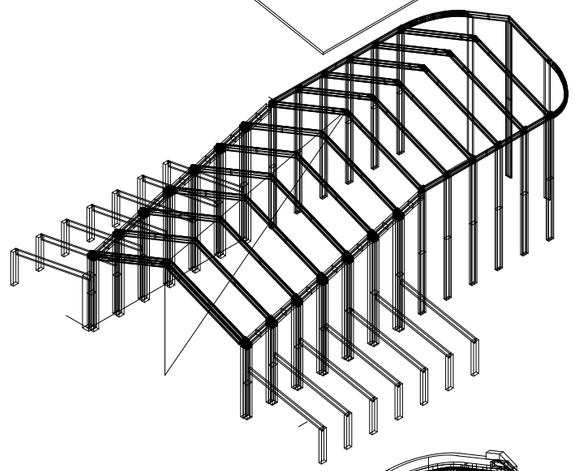




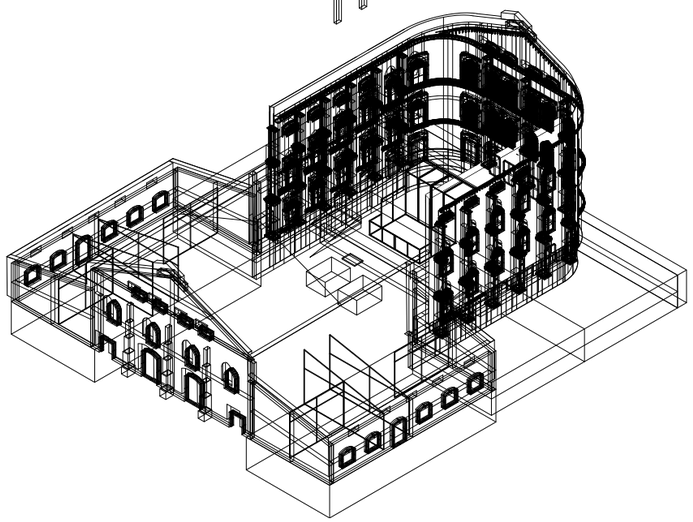
Skin
Onyx panels



Gills
Wooden Lamella

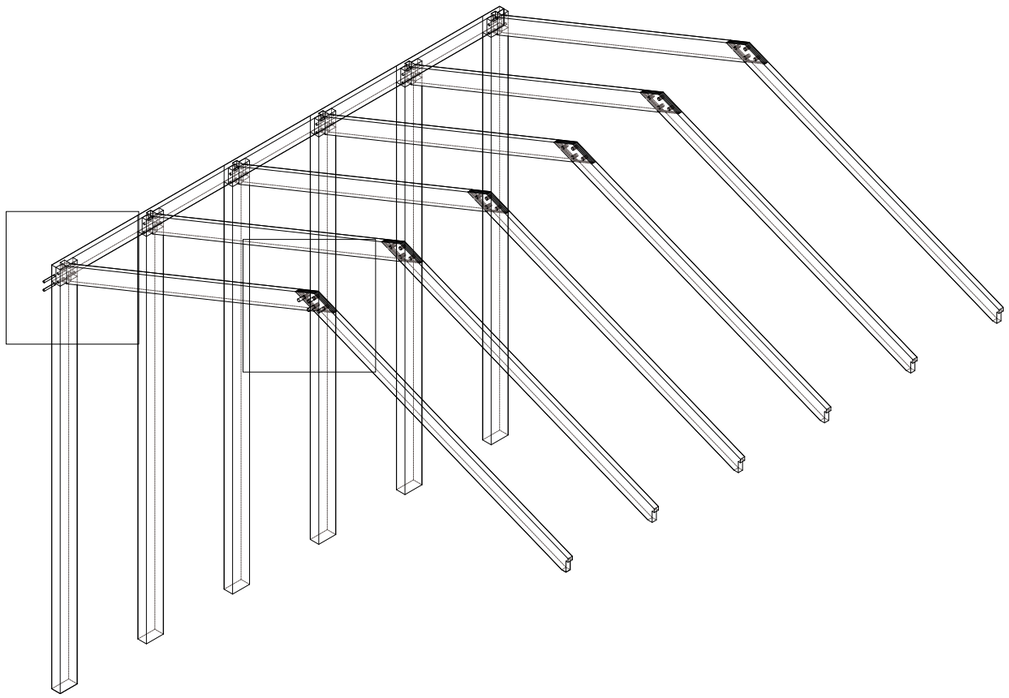


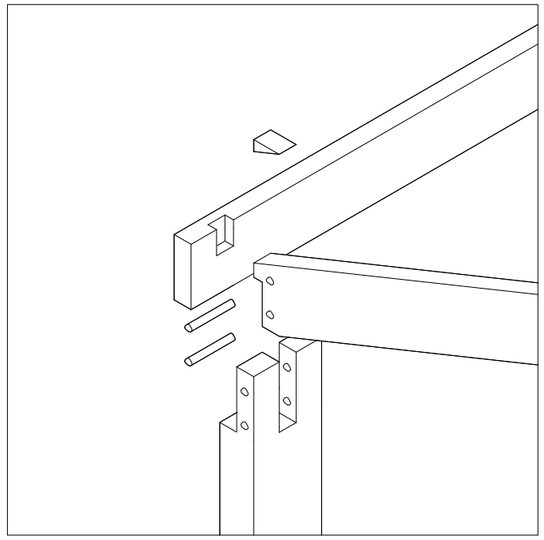
Skeleton
Deodar wood

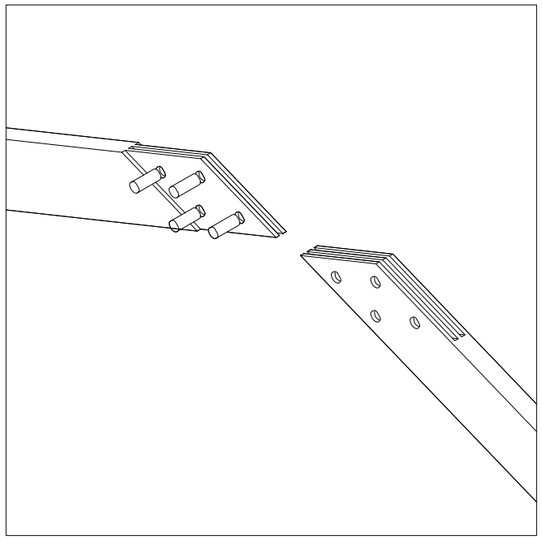


Mass
Bricks

Skeleton - joints

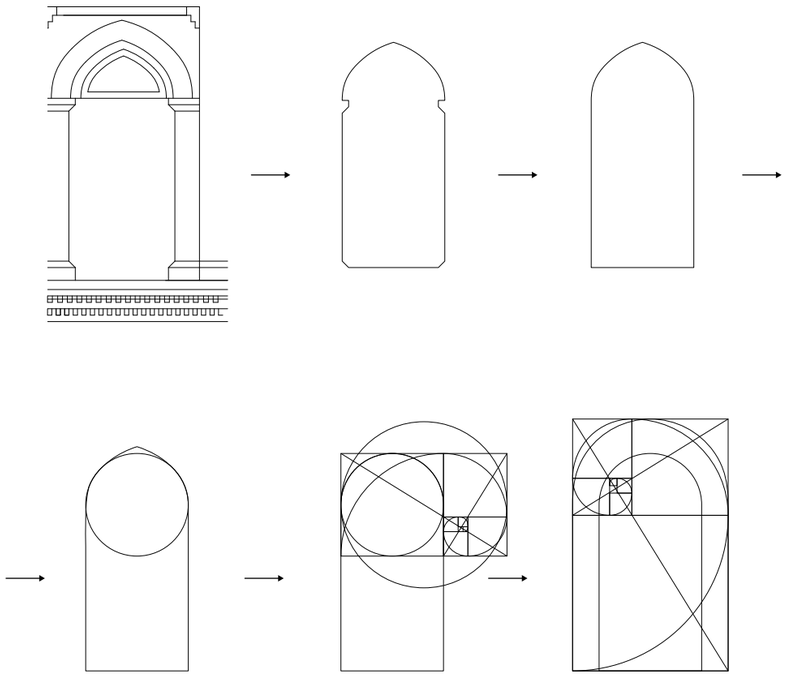


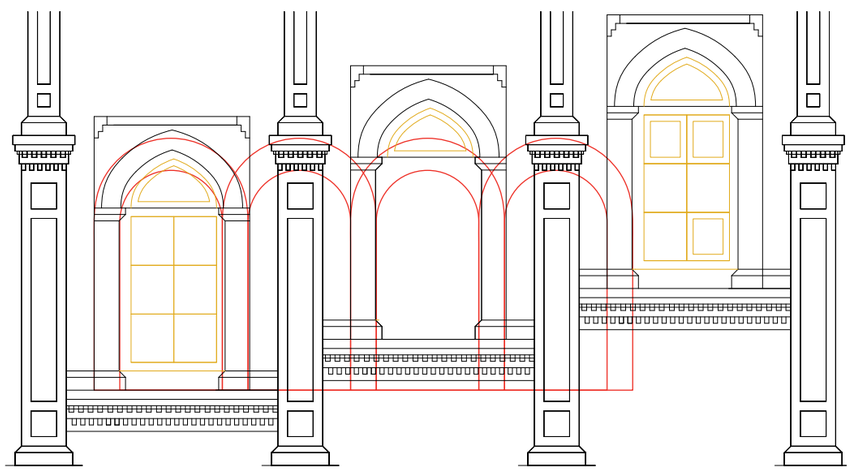


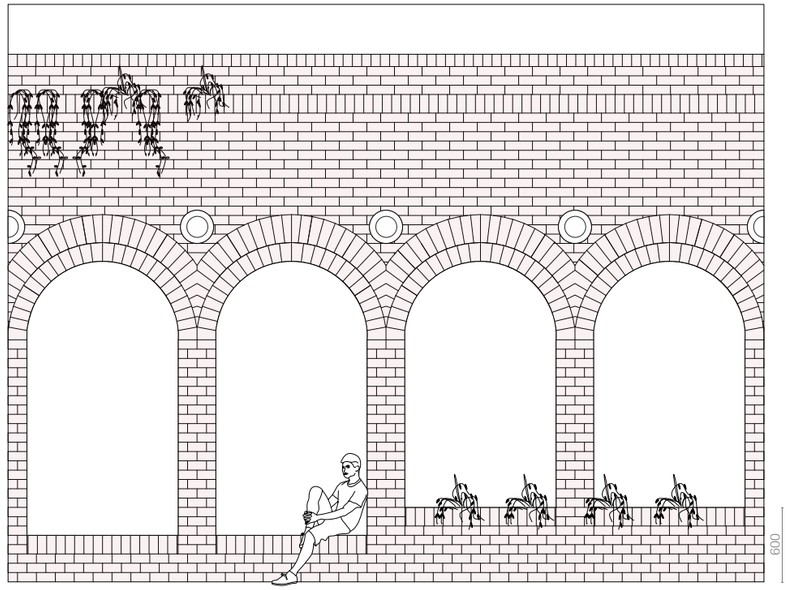


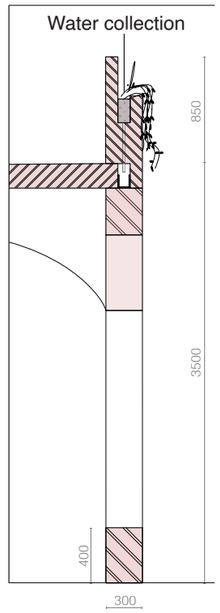
Arcade

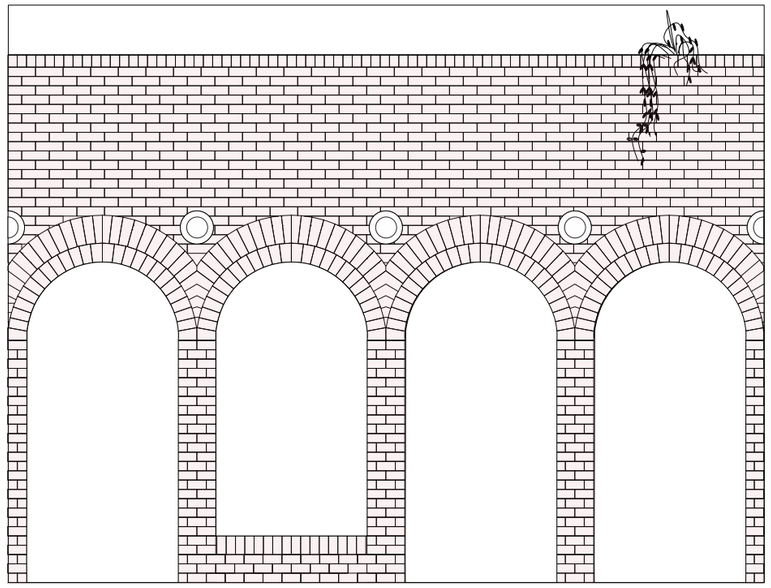
Evolution and adaptation

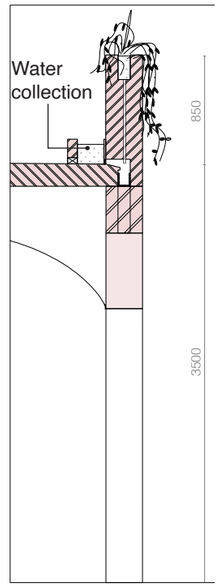


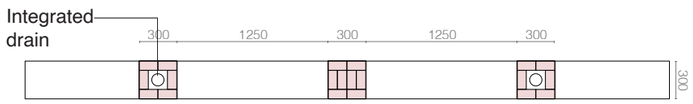




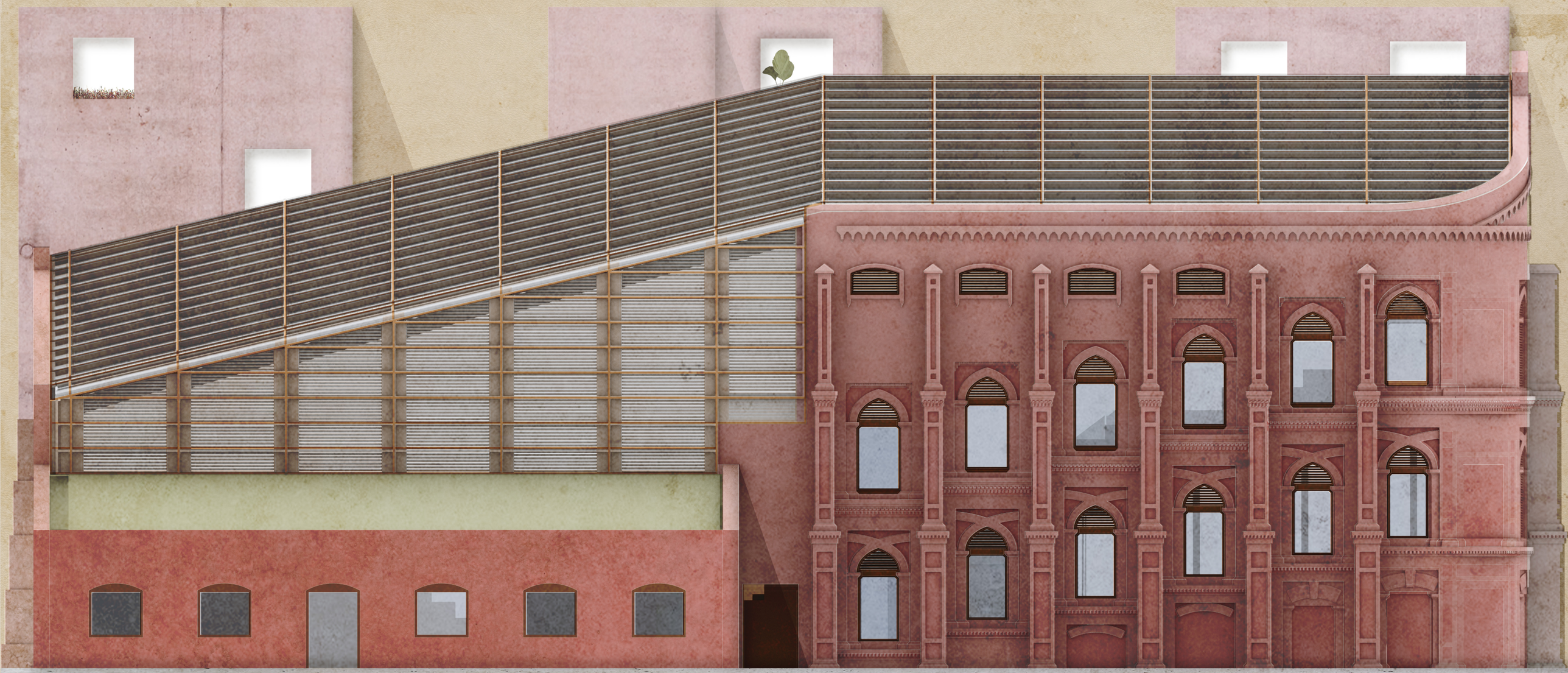




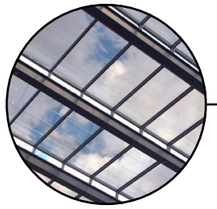




Side view 1:100



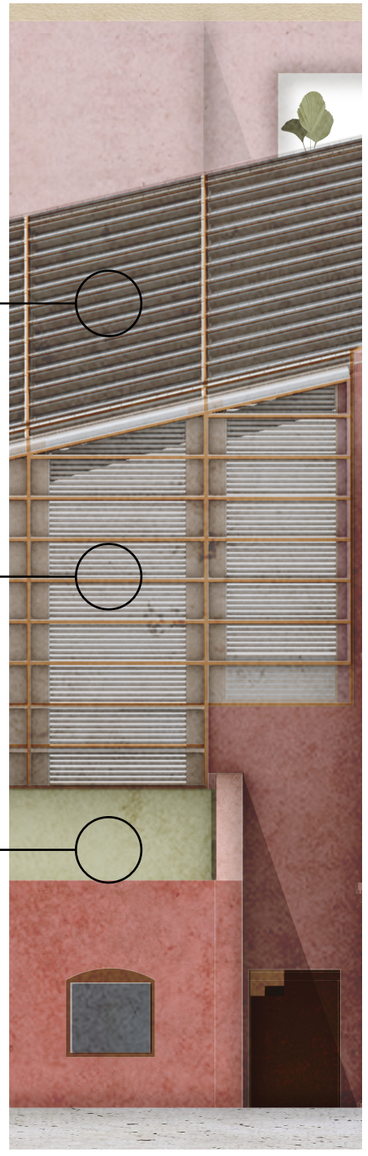
Materialisation

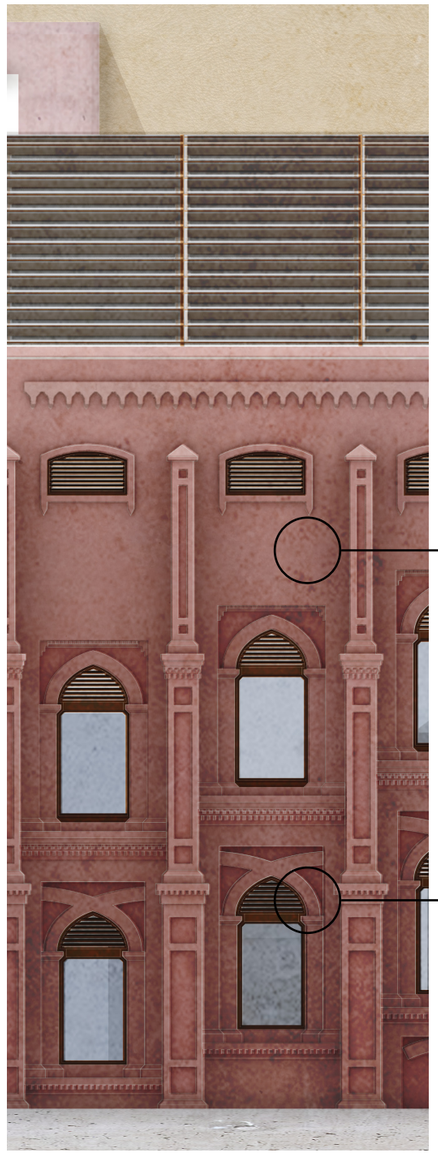


Cover
Transparant
Onyx Solar panels

Construction new
Deodar wood

Cover roof
greenery



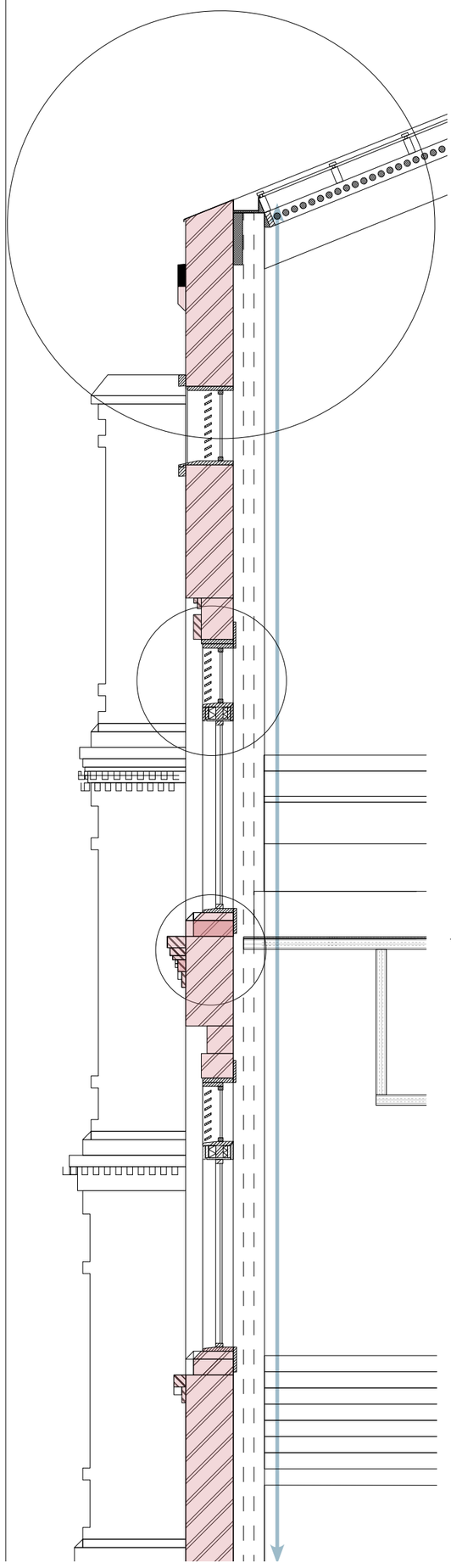


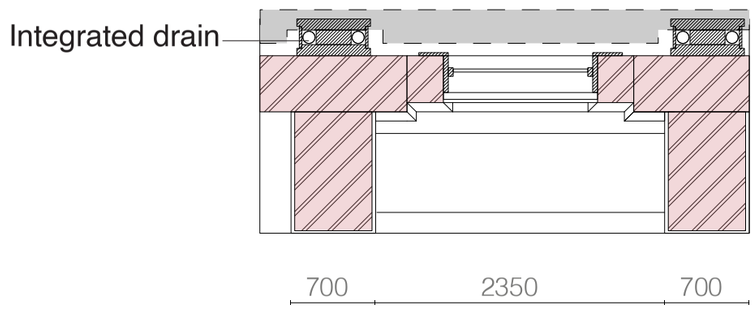
Facade
Red bricks

Window frames
Walnut tree wood

Facade 1:50

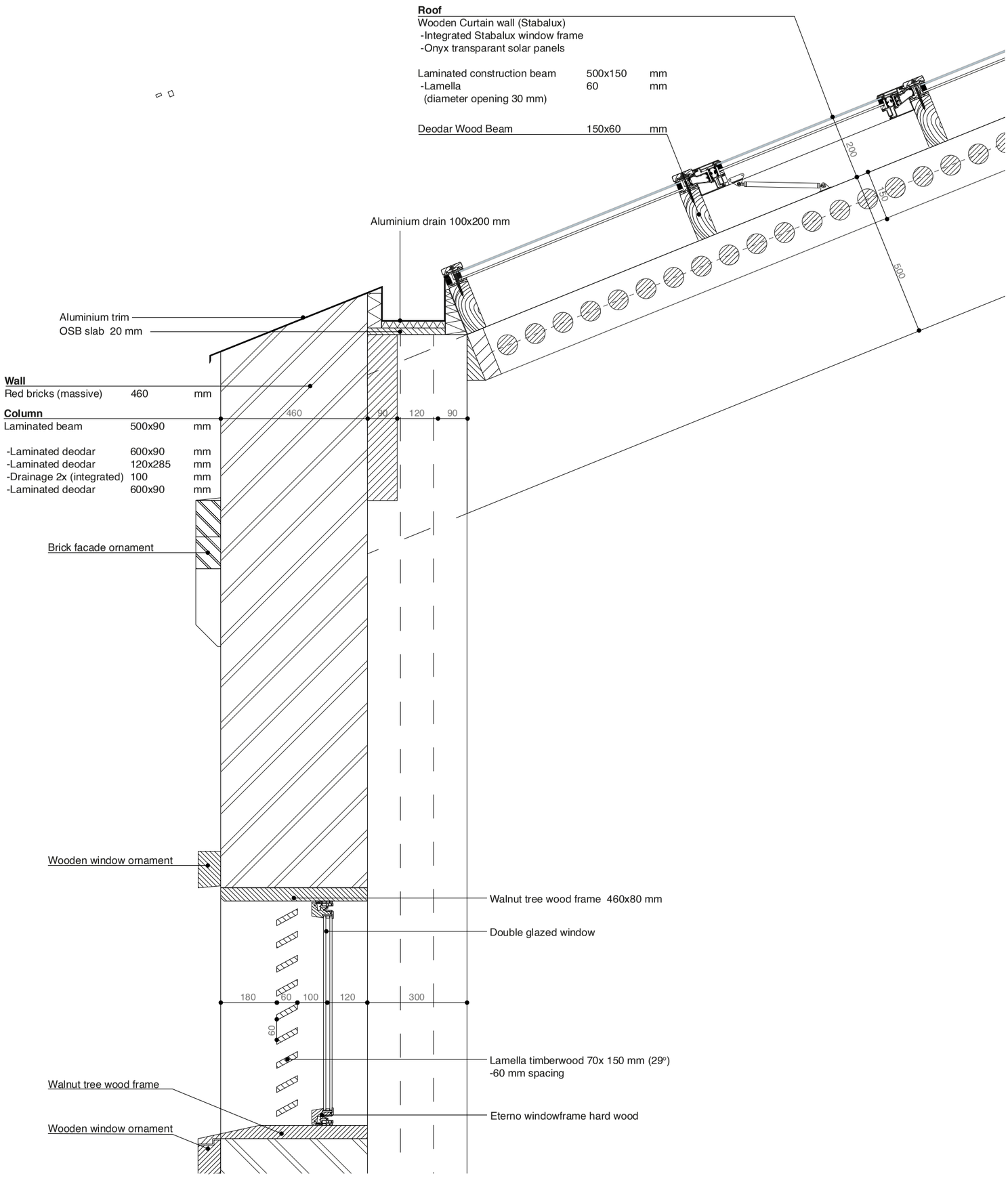
Brick wall



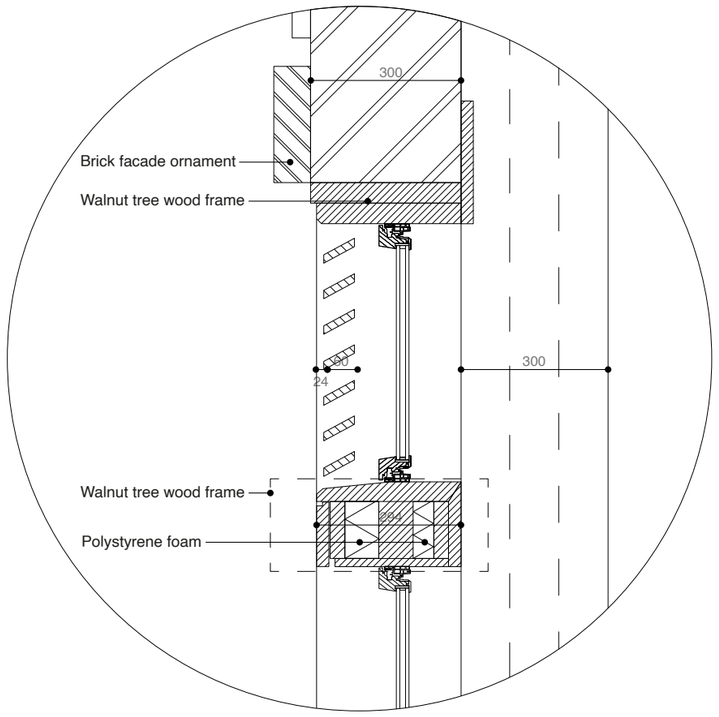


Detail 1:10

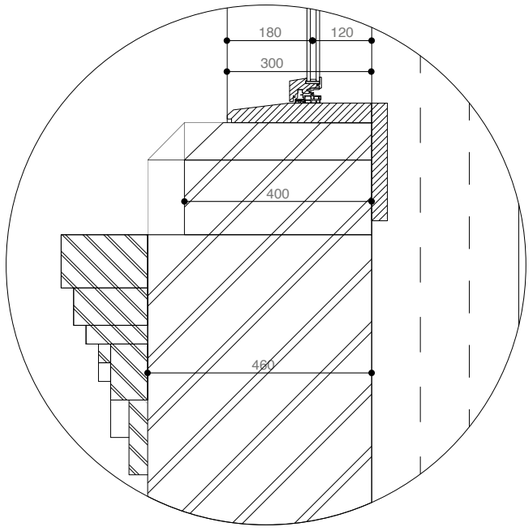
Roof



Detail 1:10
window frame

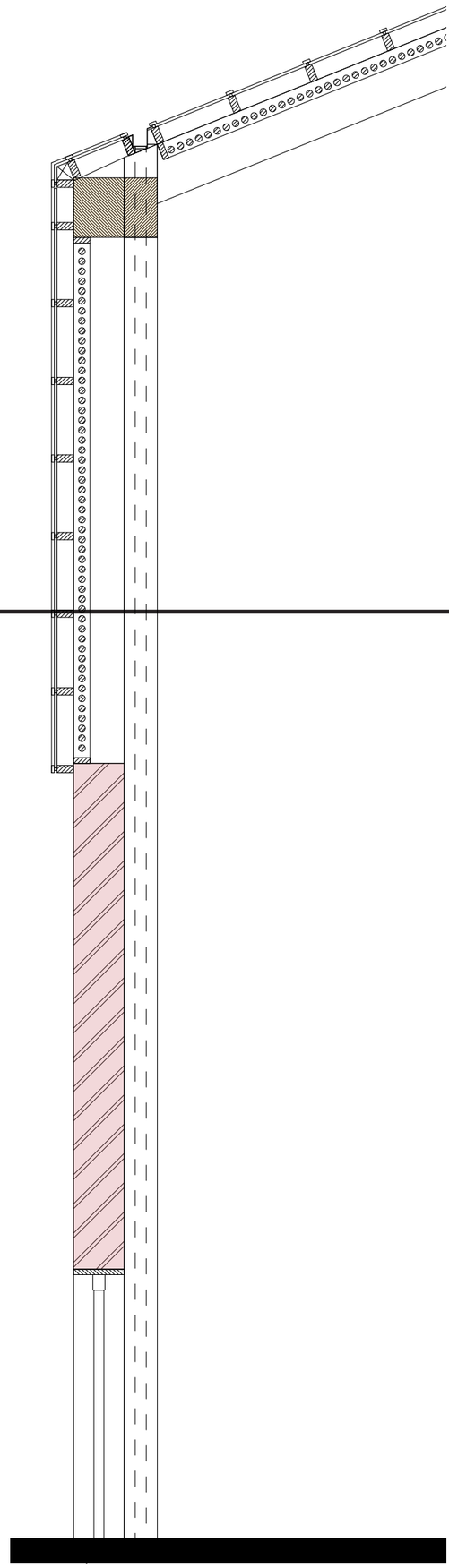


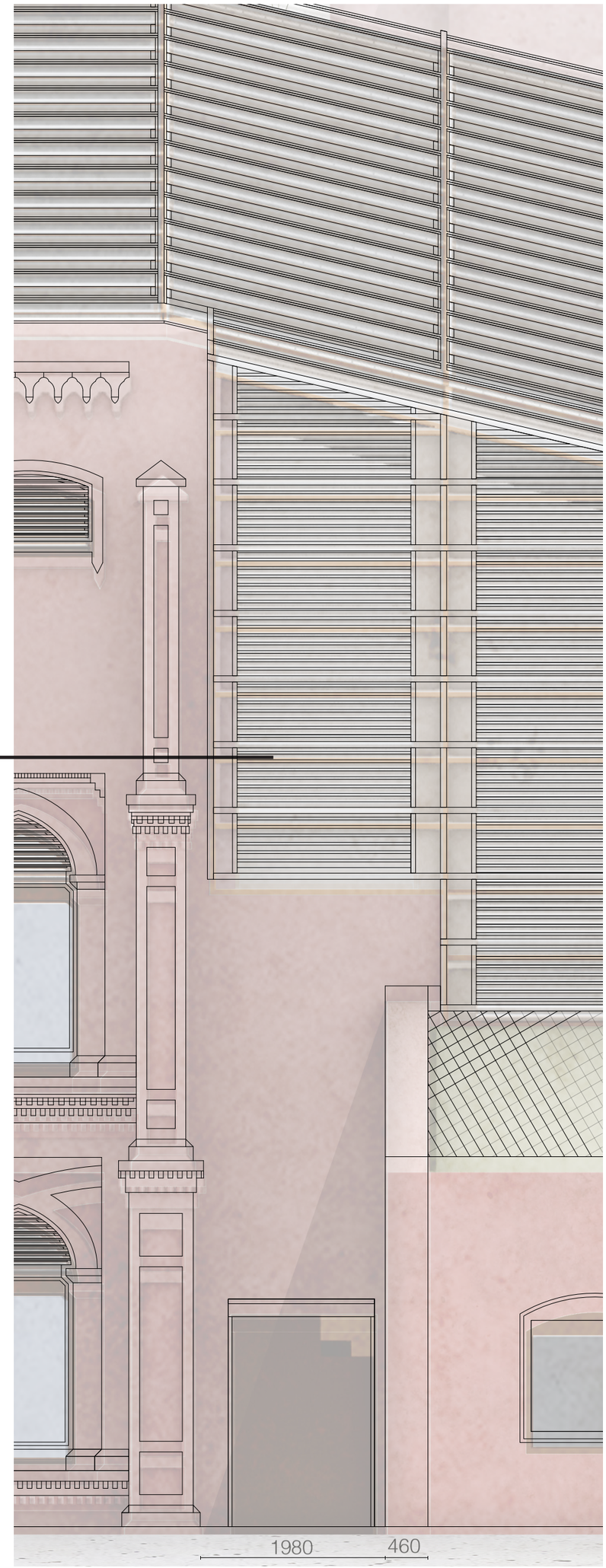
Detail 1:10
window base

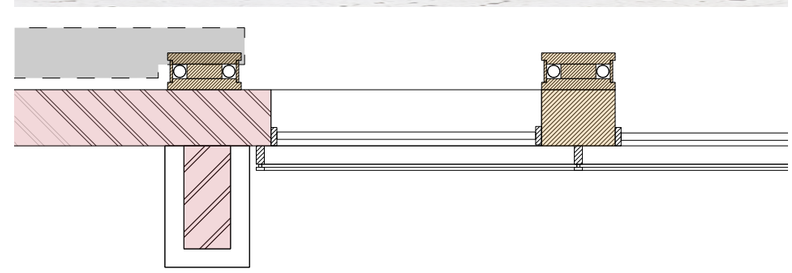


Facade 1:50

Edge

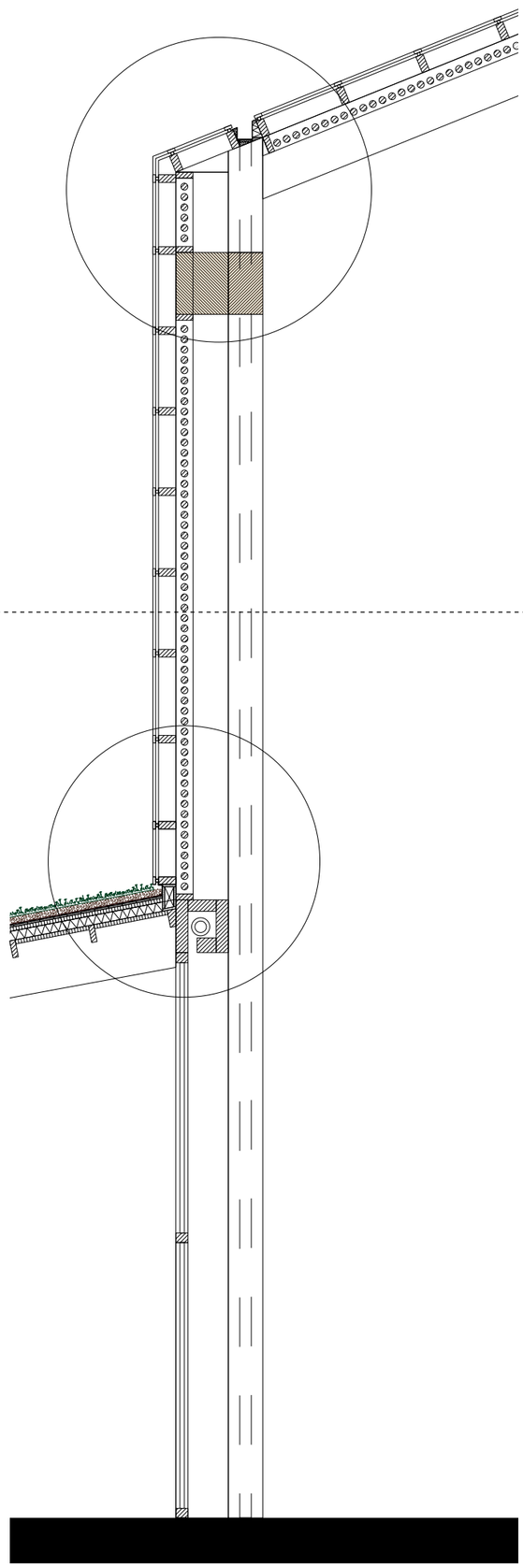


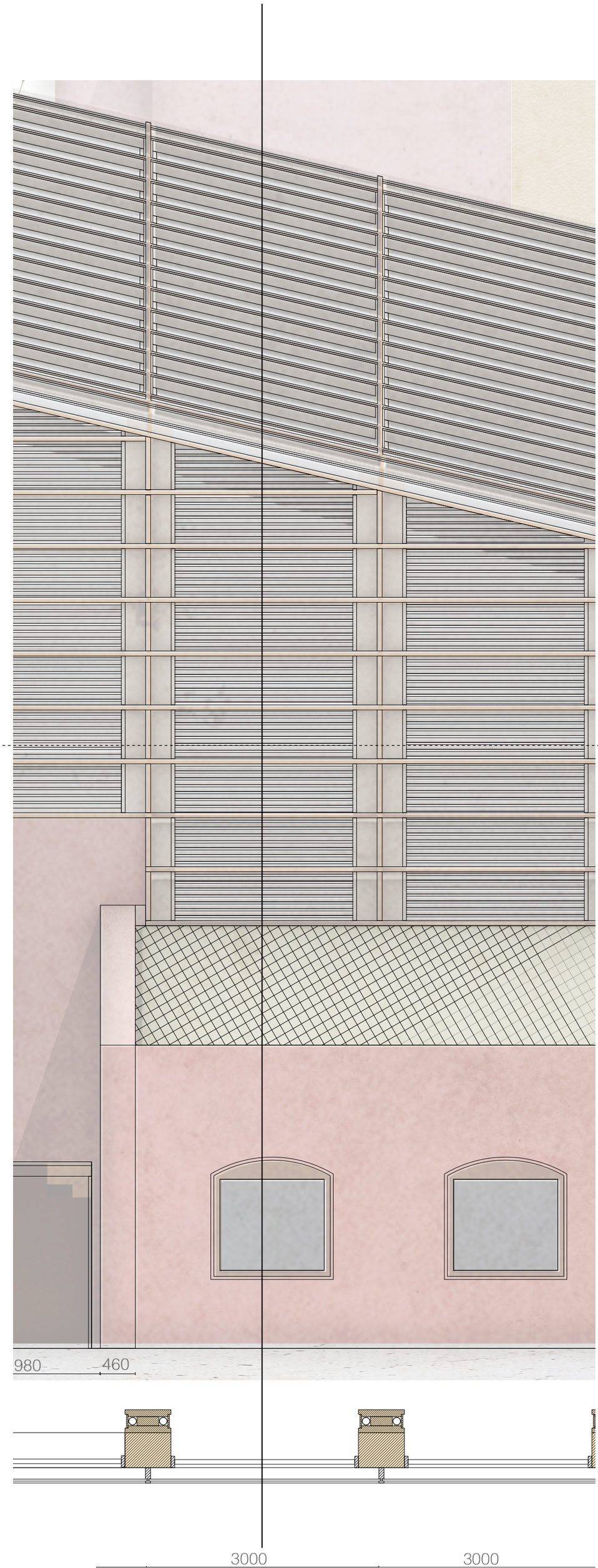




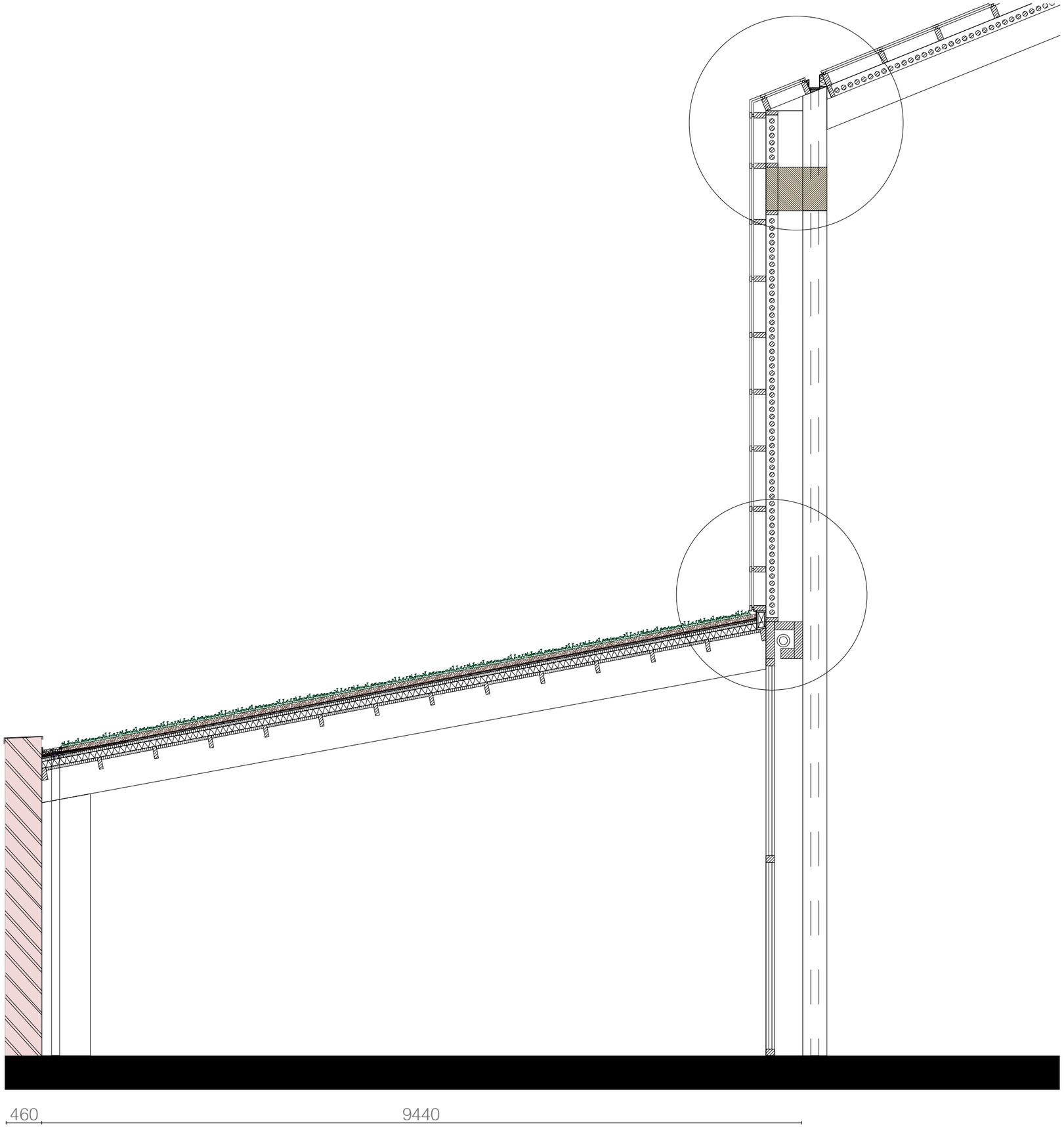
Facade 1:50

Skeleton

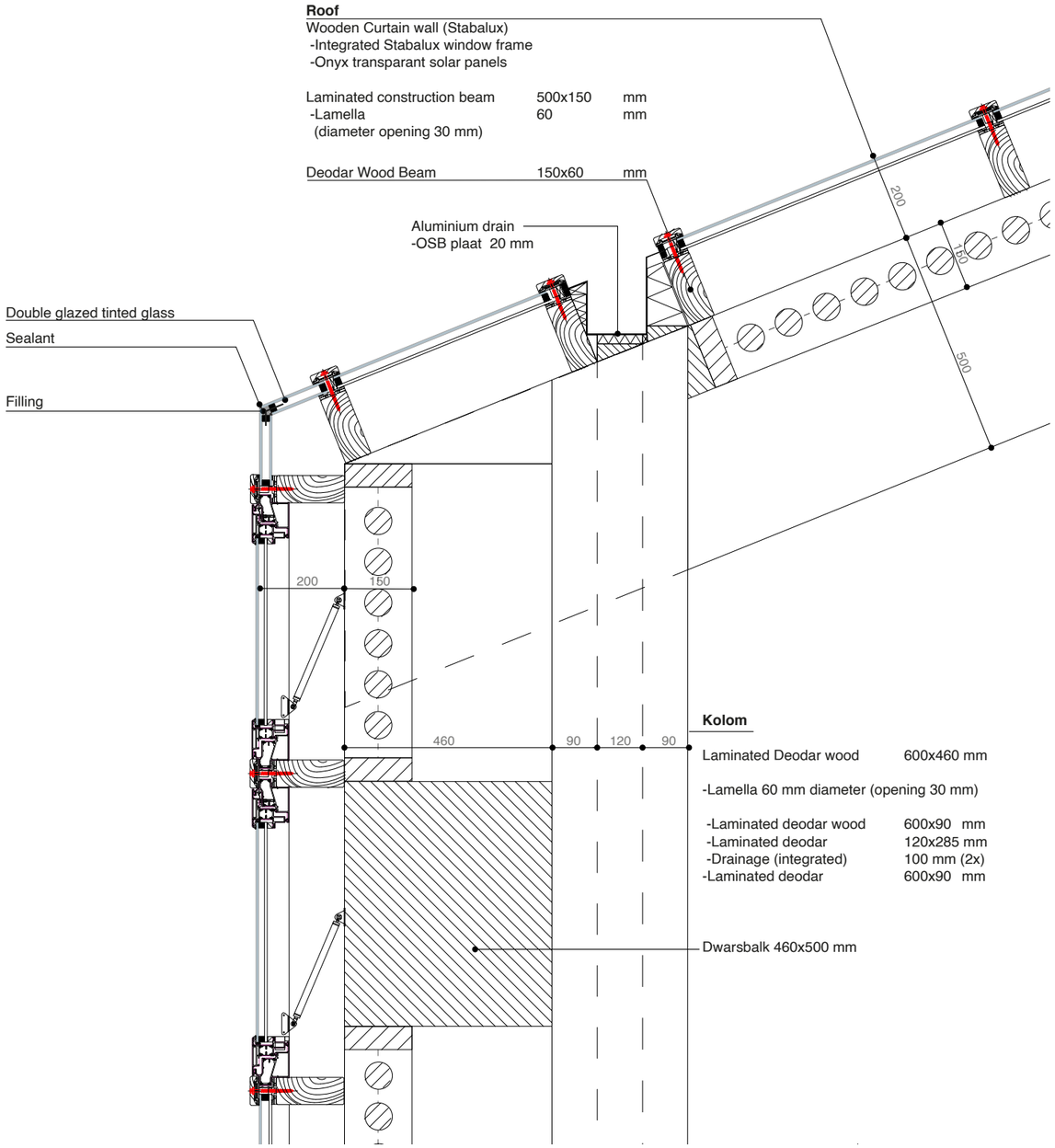




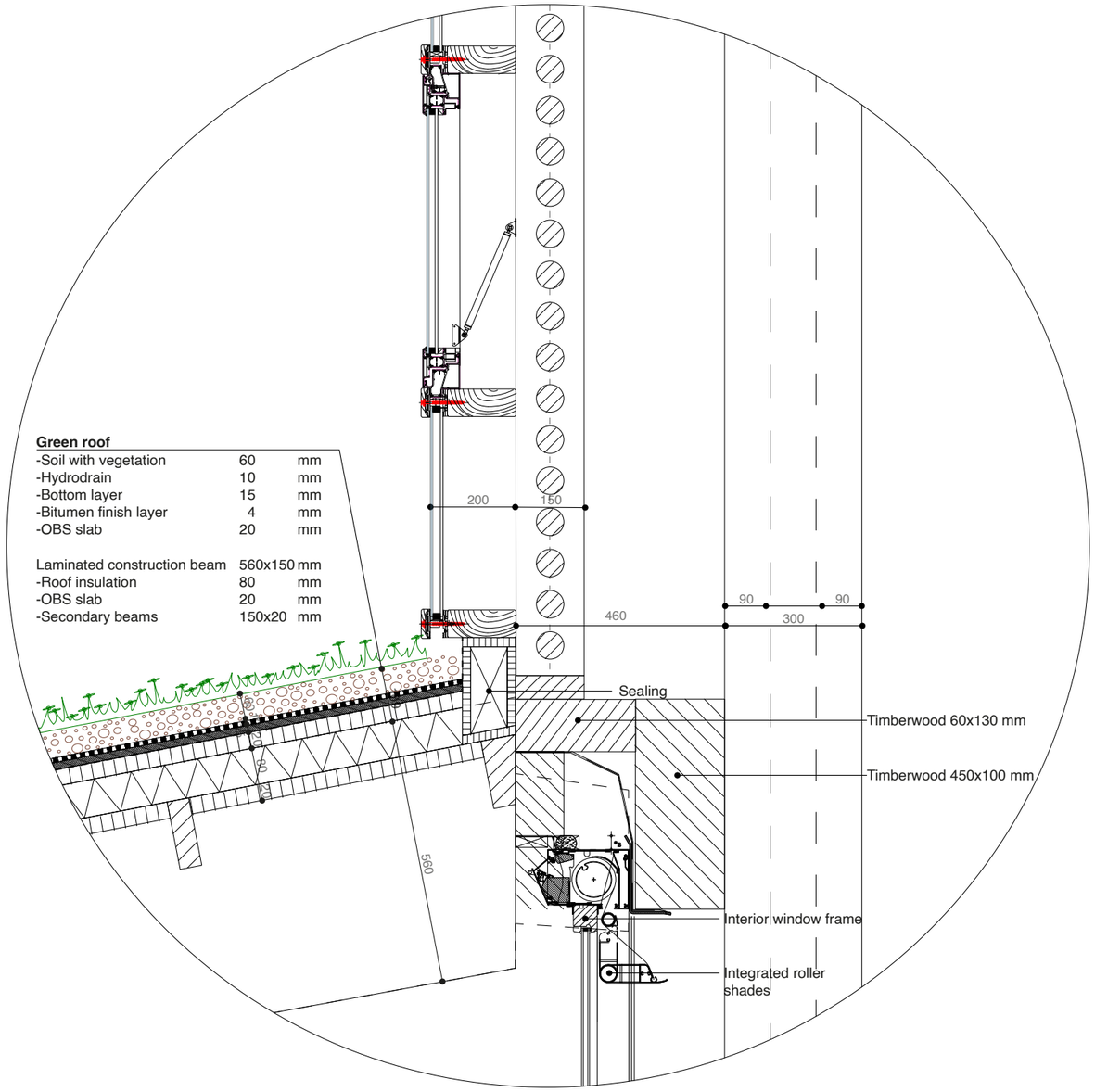
Facade section 1:50



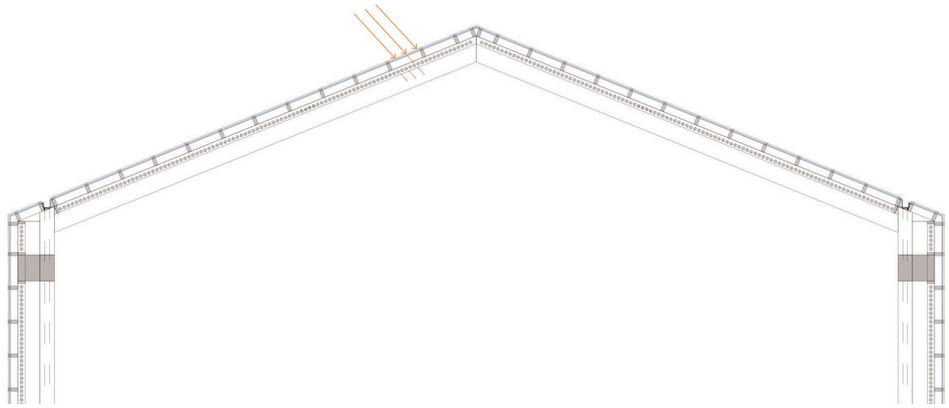
Detail 1:10
Skeleton roof edge



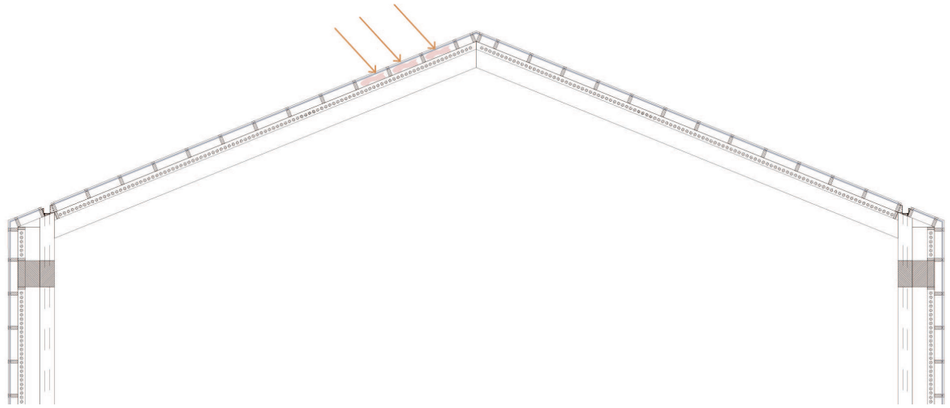
Detail 1:10
Lower skeleton roof edge



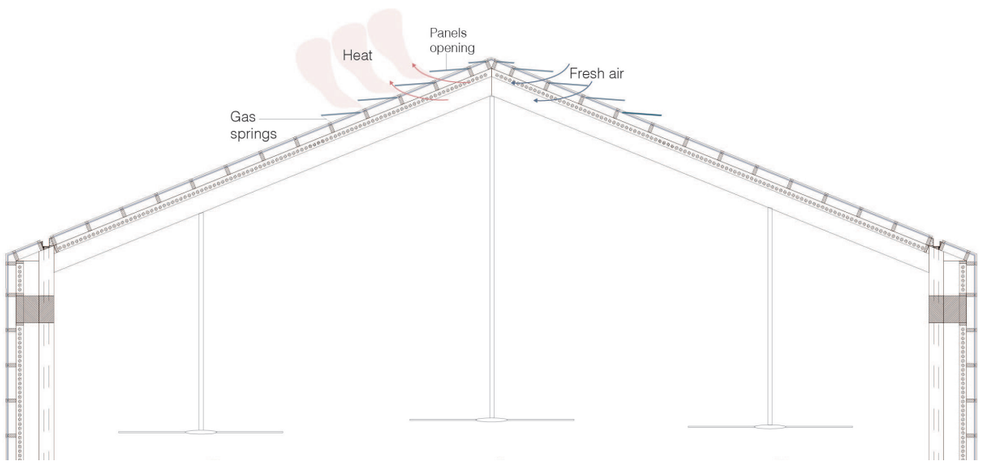
Climatisation
Passive ventilation



Generation electricity and filtering

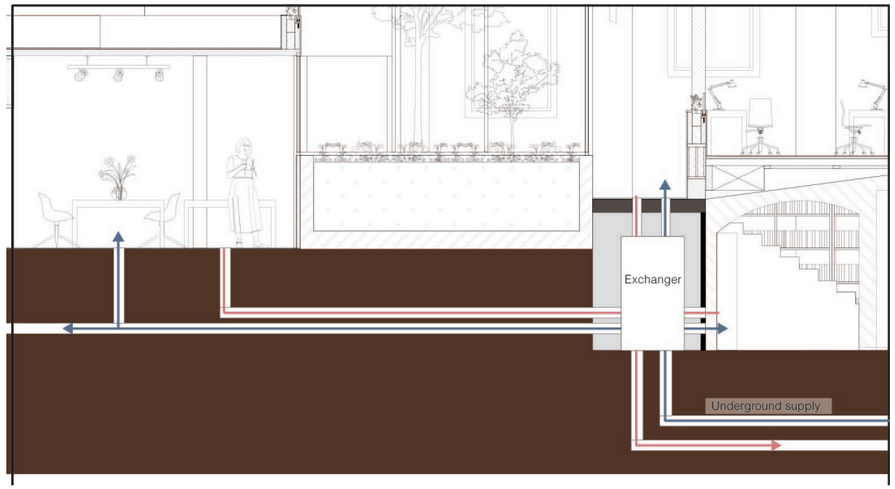


Heat buffering

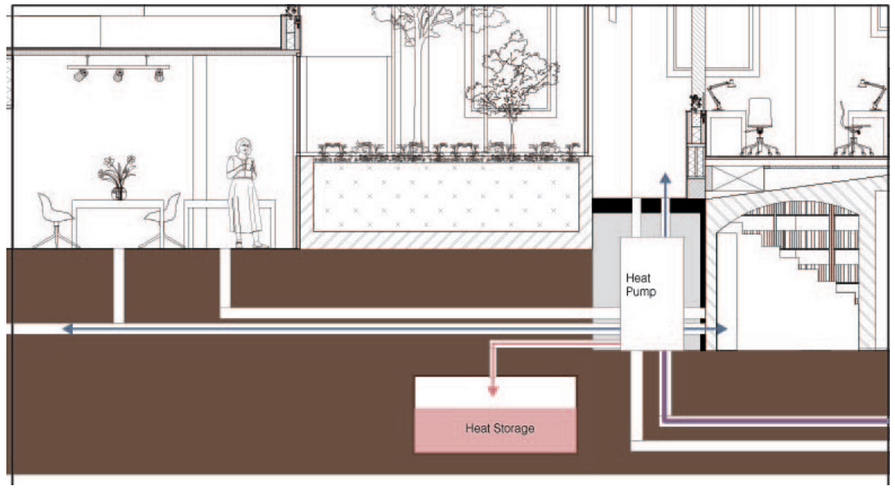


Passive cooling

Climatisation
Active ventilation and heat collection

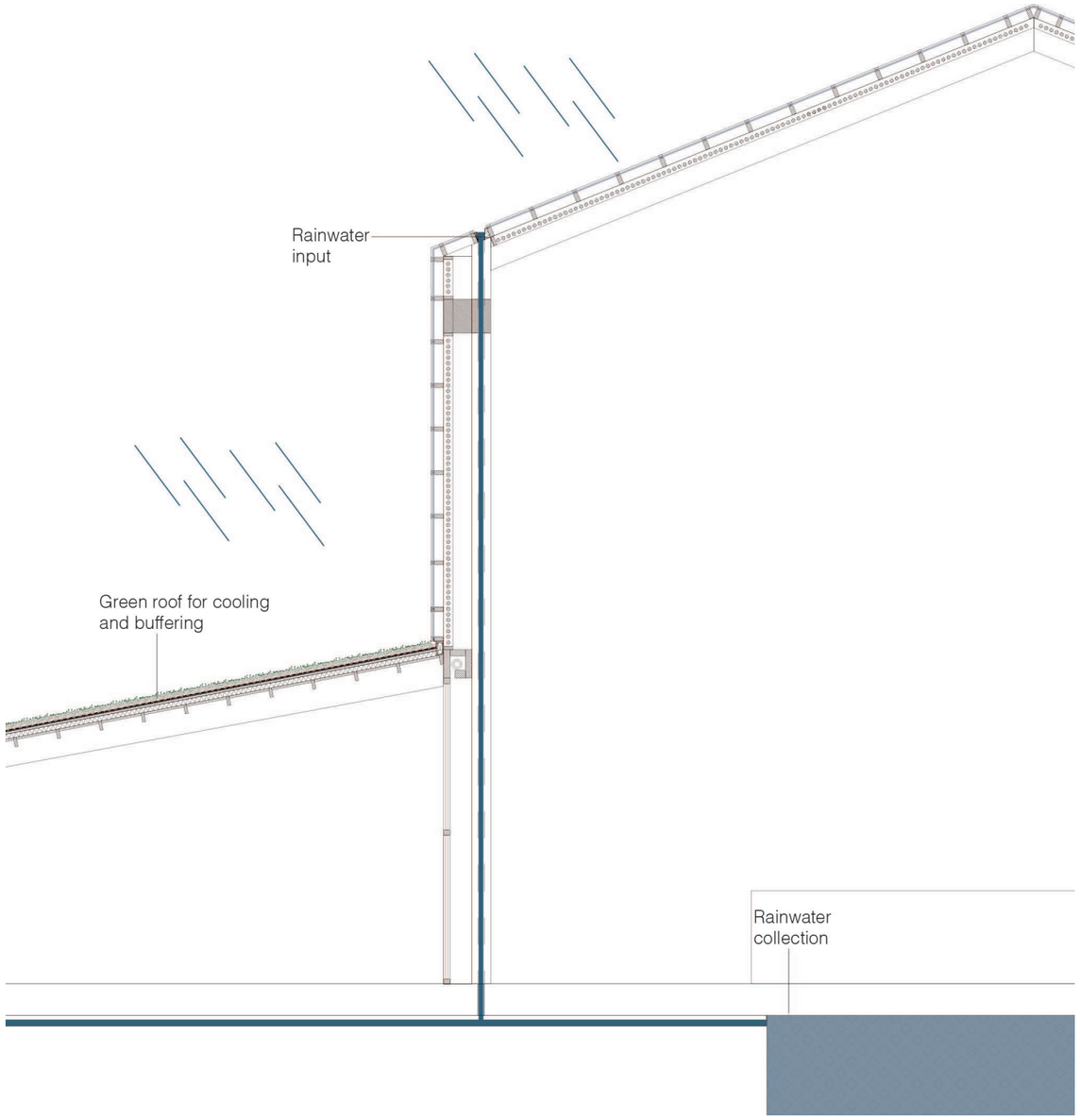


Supply fresh air

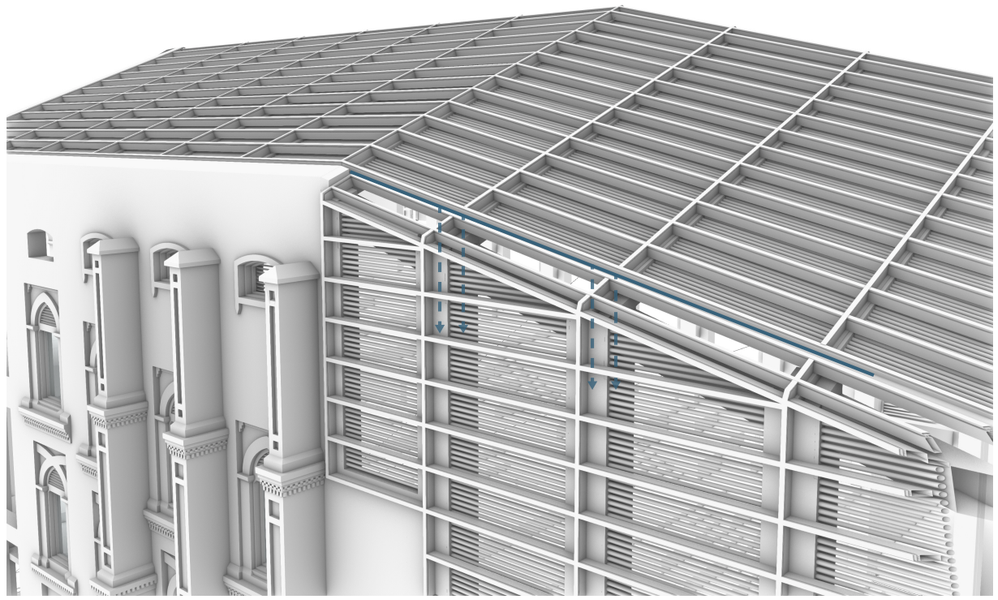


Heat exchange and storage

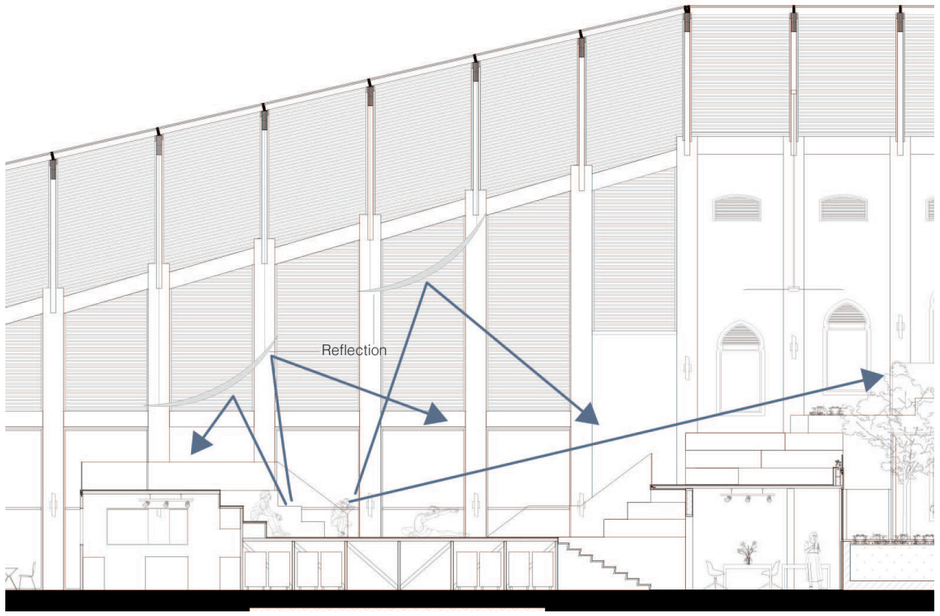
Climatisation
Rainwater harvesting



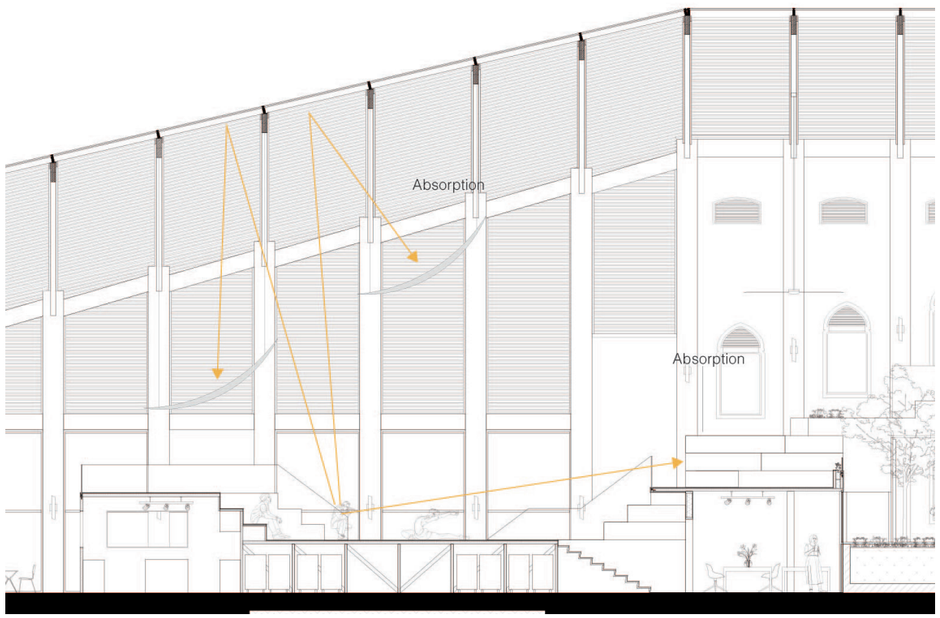
Climatisation & aesthetics
Integrated rainwater collection



Comfort
Acoustics



Reflection



Absorption