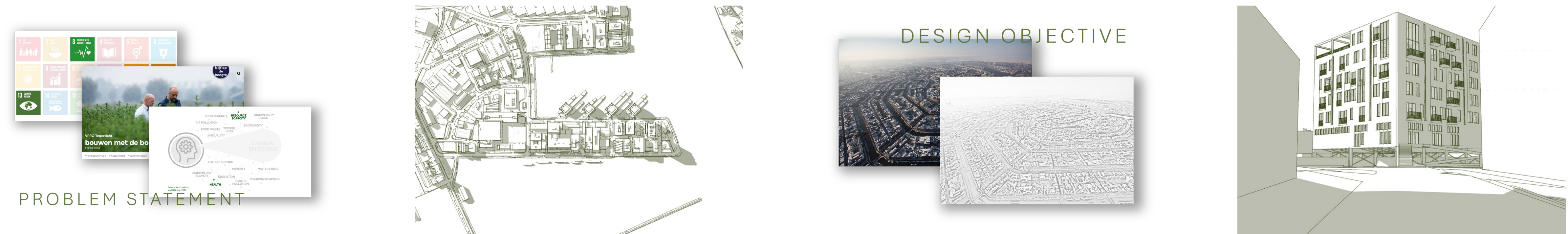
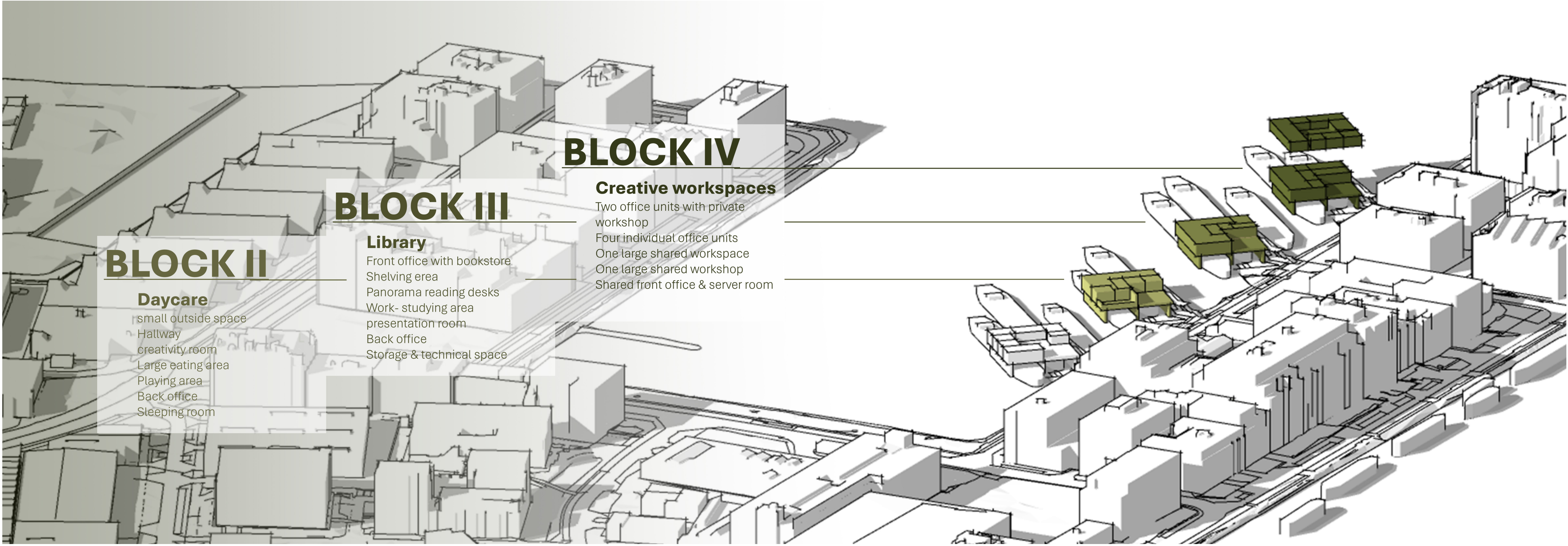
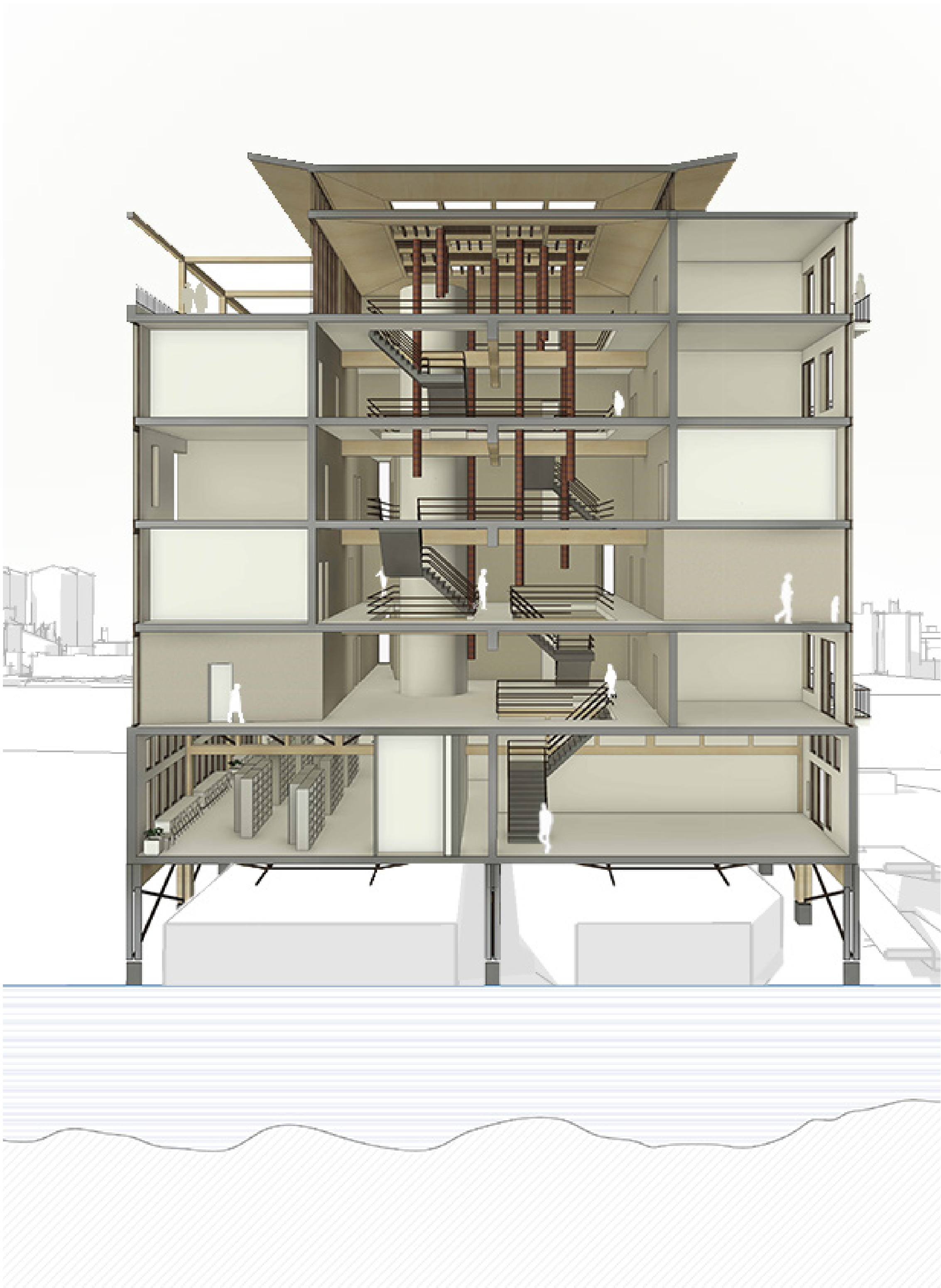


# “THE HYBRID”

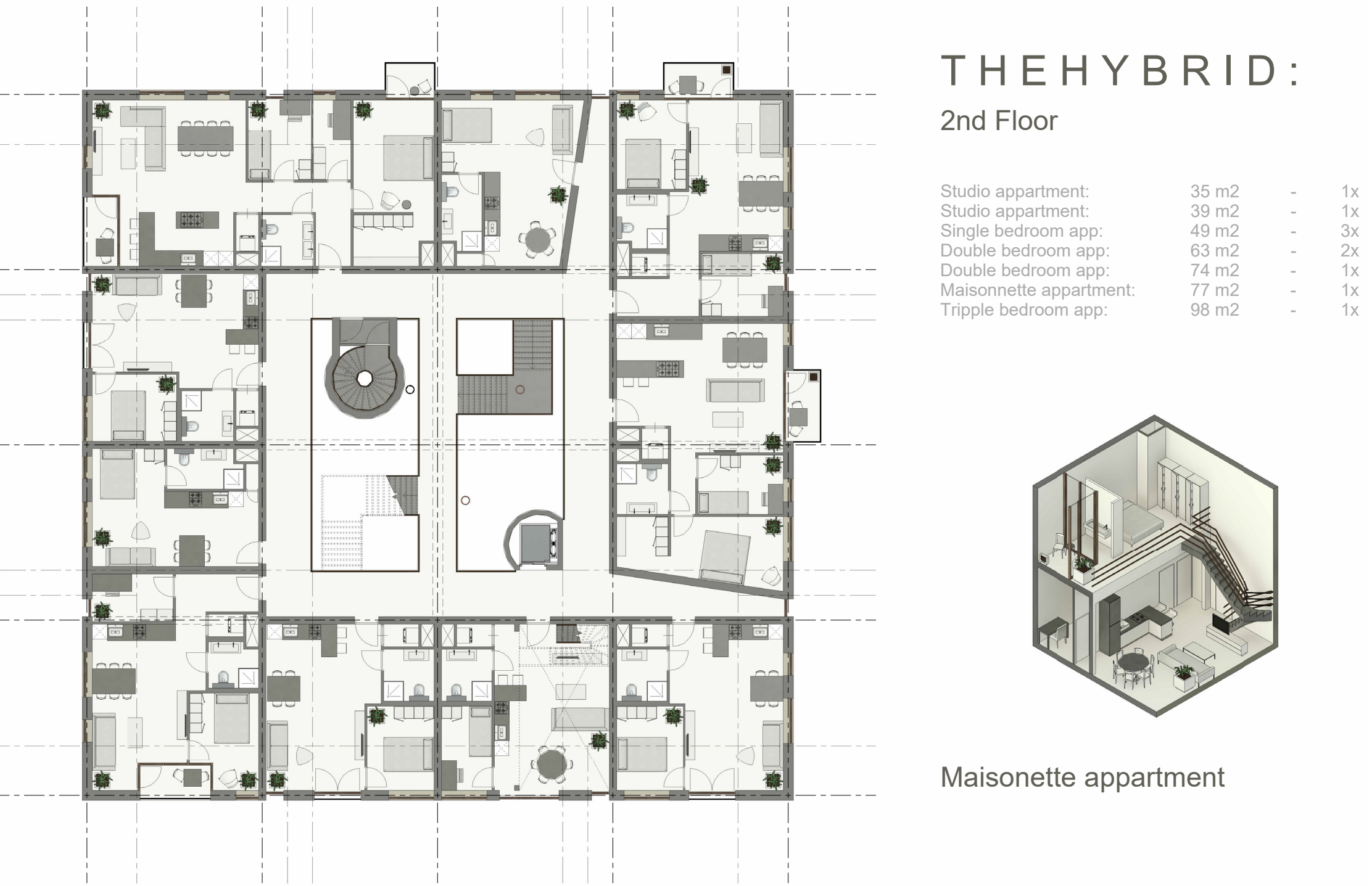
A PROPOSAL TOWARDS BIOBASED AND BREATHABLE  
DESIGN FOR HEALTHIER RESIDENTIAL ARCHITECTURE



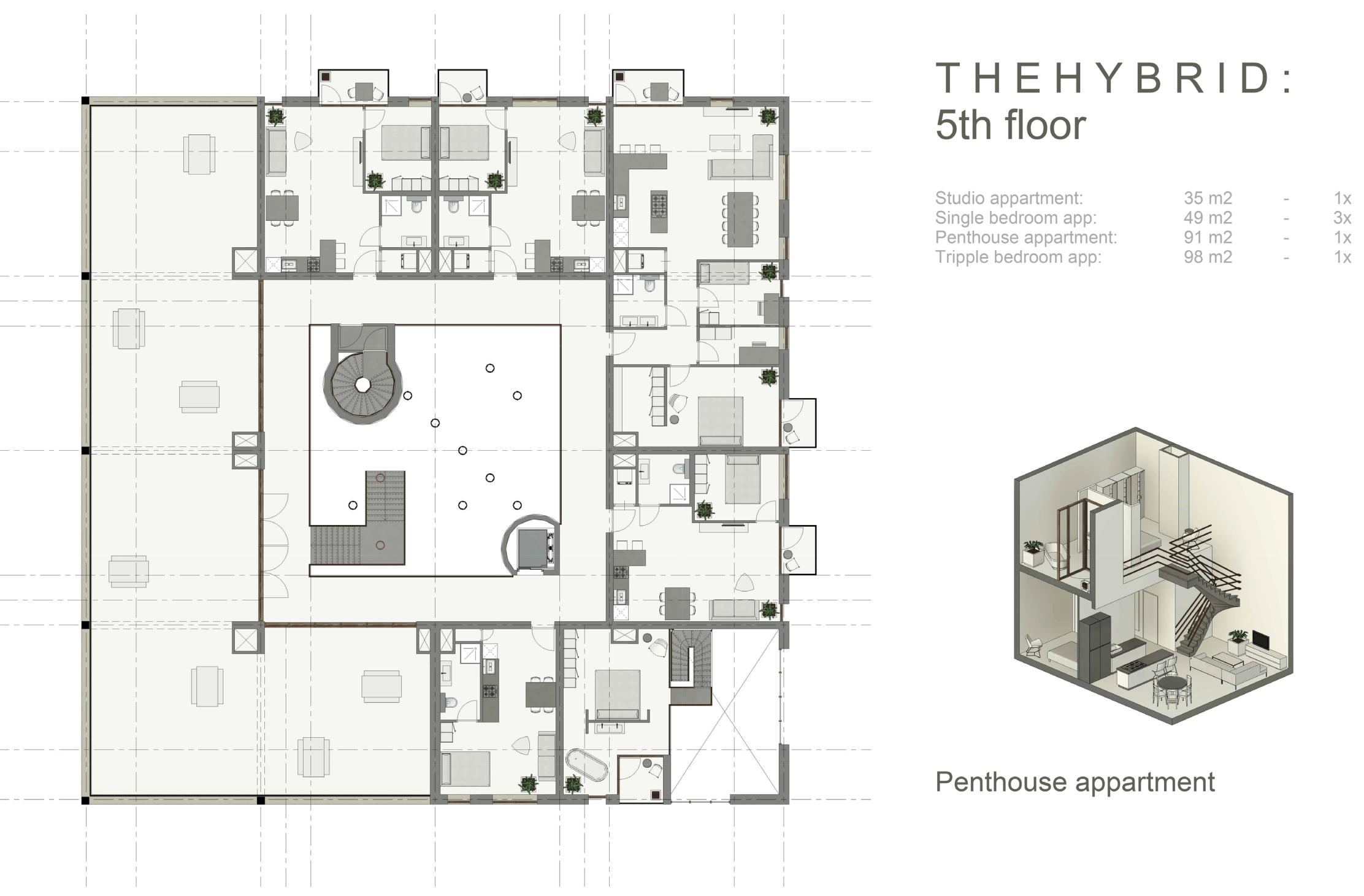
SECTION - 1:100 (true to scale)



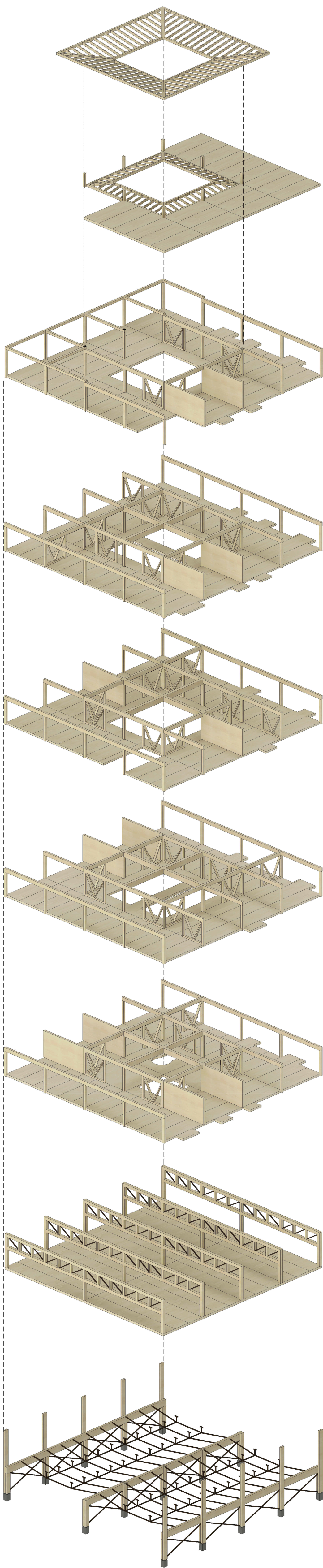
PLAN - 1:100 (scaled to fit)



PLAN - 1:100 (scaled to fit)







(Ventec) Roof

5th Floor

6 residences

4th Floor

10 residences

3rd Floor

11 residences

2nd Floor

10 residences

1st Floor

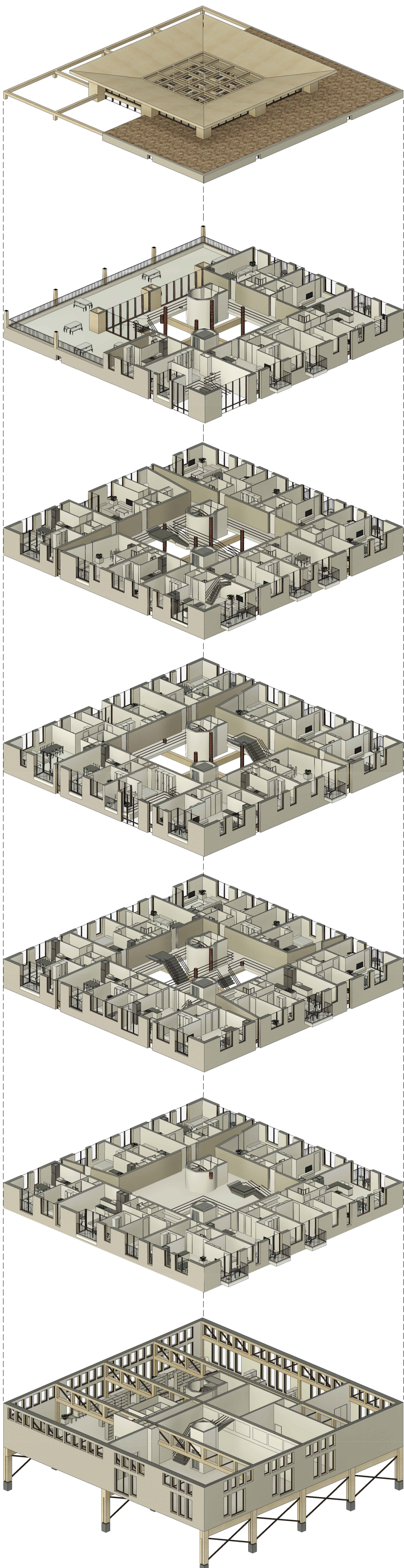
10 residences

New ground floor

Library

The IJ

Two barges



CARLOS DAMBERG

“FEELING GOOD IN ONE’S OWN SKIN”

ARCHITECTURAL WOOD GRADUATION STUDIO  
TIMBER FOR URBAN DENSITY





FRAGMENT

-

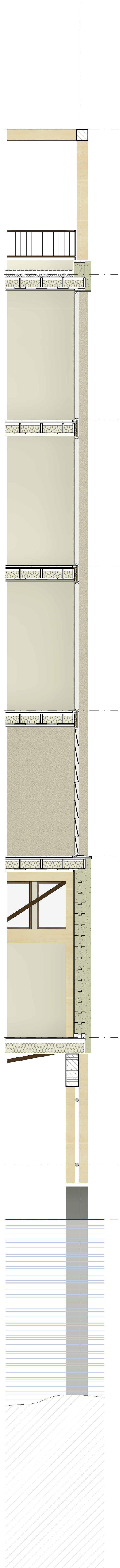
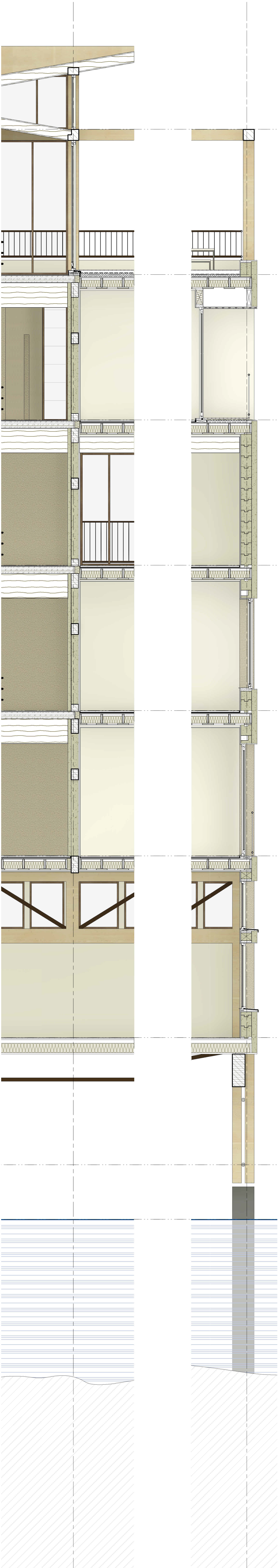
SECTION

FRAGMENT

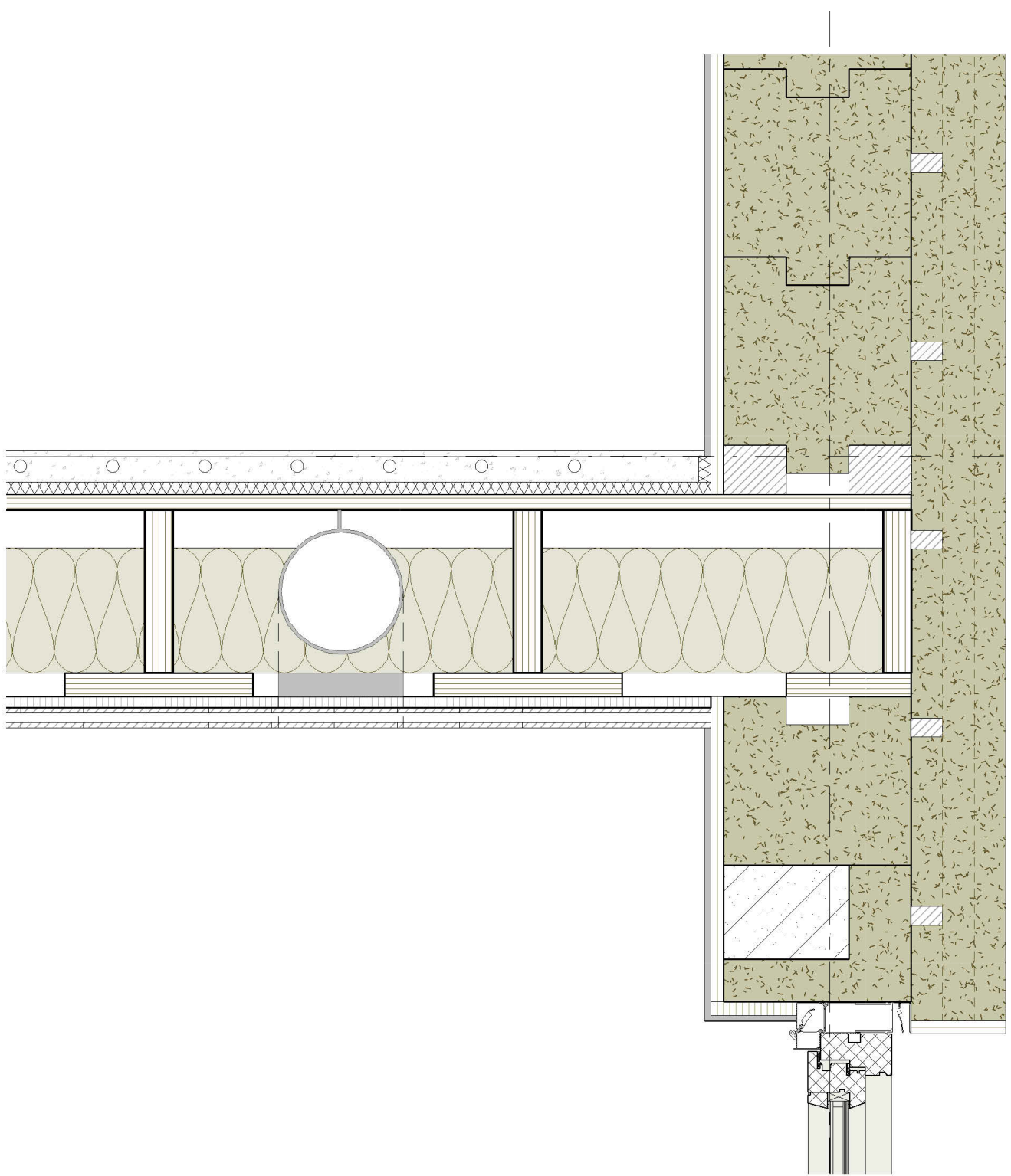
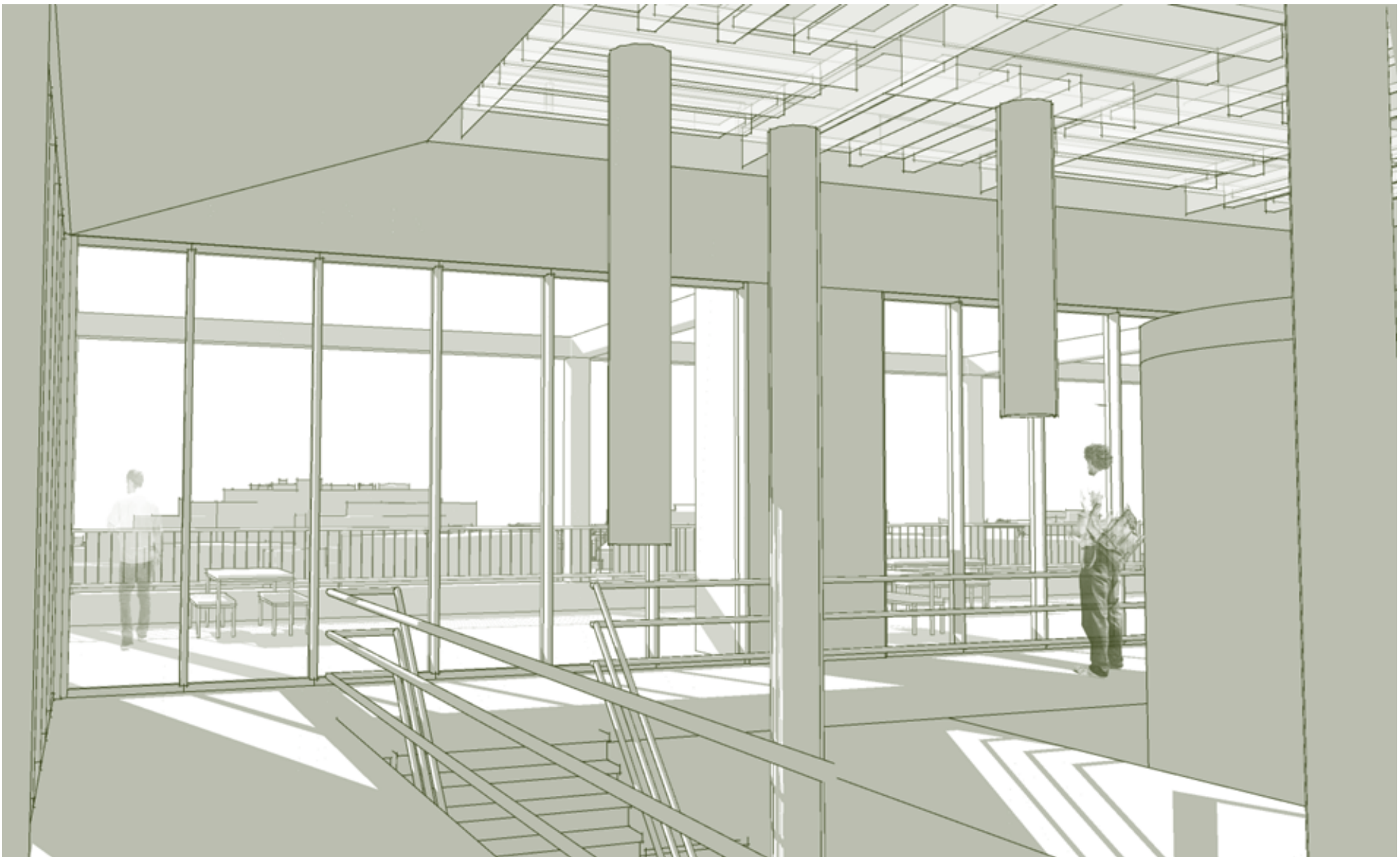
-

ELEVATION

SCALE - 1:50







### EXTERNAL FACADE

Vapour open  
Exceptional thermal resistance of 5.9 m<sup>2</sup>K/W  
Excellent sound absorption  
Decent thermal mass

1. CLAYTEC clay plaster
2. HEMPLITH universal LDF hemp fibre board, 15 mm
3. HEMPLITH prosystem U-shell prefab hempcrete block, 300 mm
4. Hempcrete 'in situ', 150 mm against timber stud support framework
5. KEIM design laur transparent coating

### RESIDENTIAL FLOOR

Excellent sound absorption  
Decent thermal mass

1. RENNER Claycsein 'adobe' floor coating
2. RENNER rammed earth top screed including floor heating, 40 mm
3. HEMPLITH Therm impact soundproofing, 30 mm
4. METSA Kerlo LVL open box floorslab, 45x260 mm LVL S-beam, C-C 600 mm
5. HEMPLITH Flex sound absorbing insulation, 200 mm
6. MAGOXX fire protective magnesium sulphate board, 18 mm
7. WOODTEC three ply ceiling panel, 32 mm

### FAÇADE OPENING

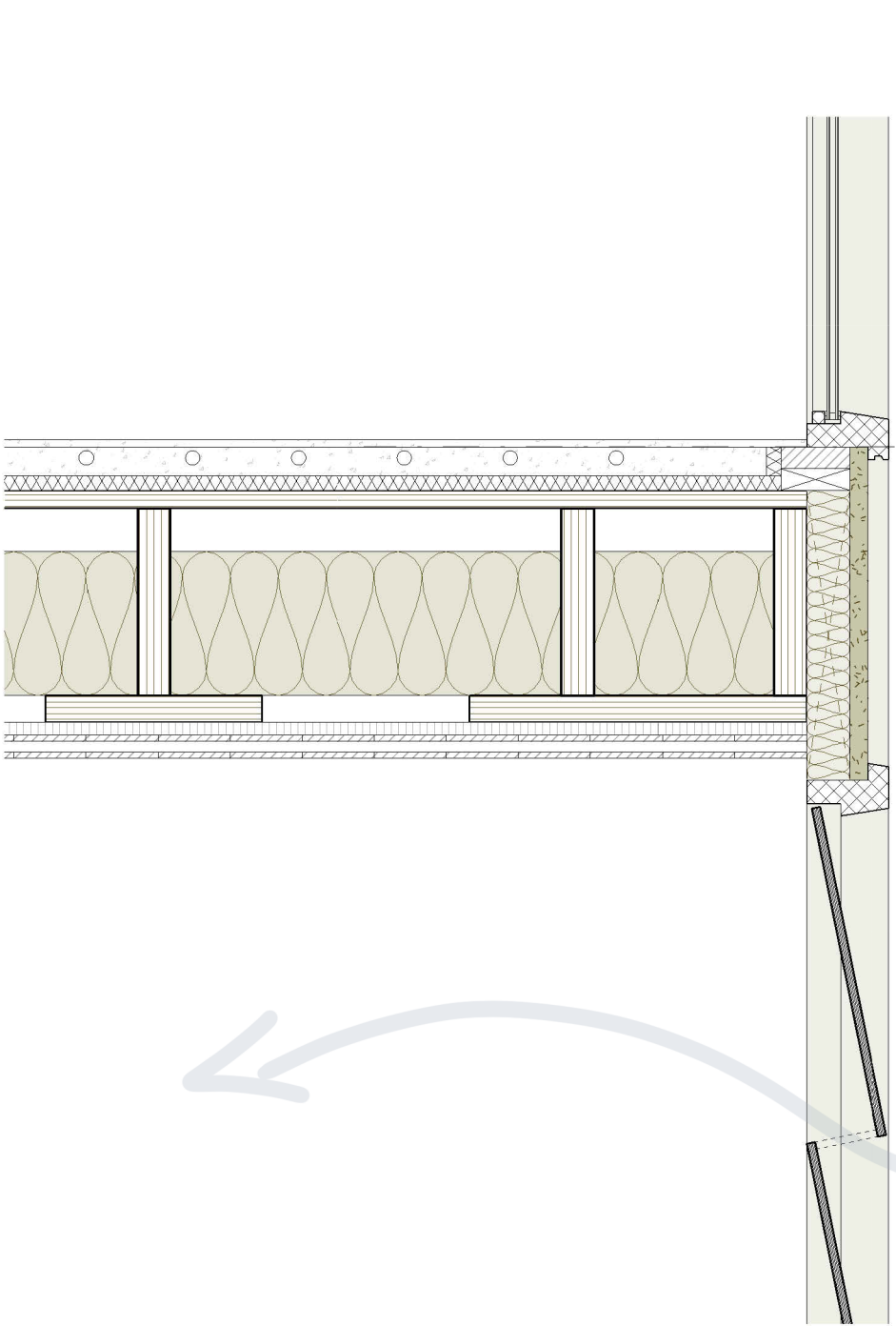
1. ISOHEMP Hemprefab lintel, 300 mm
2. Hardwood double glazed window including air ventilation profile

## BUILDING

## TECHNOLOGY

-

1:10



### RESIDENTIAL FLOOR

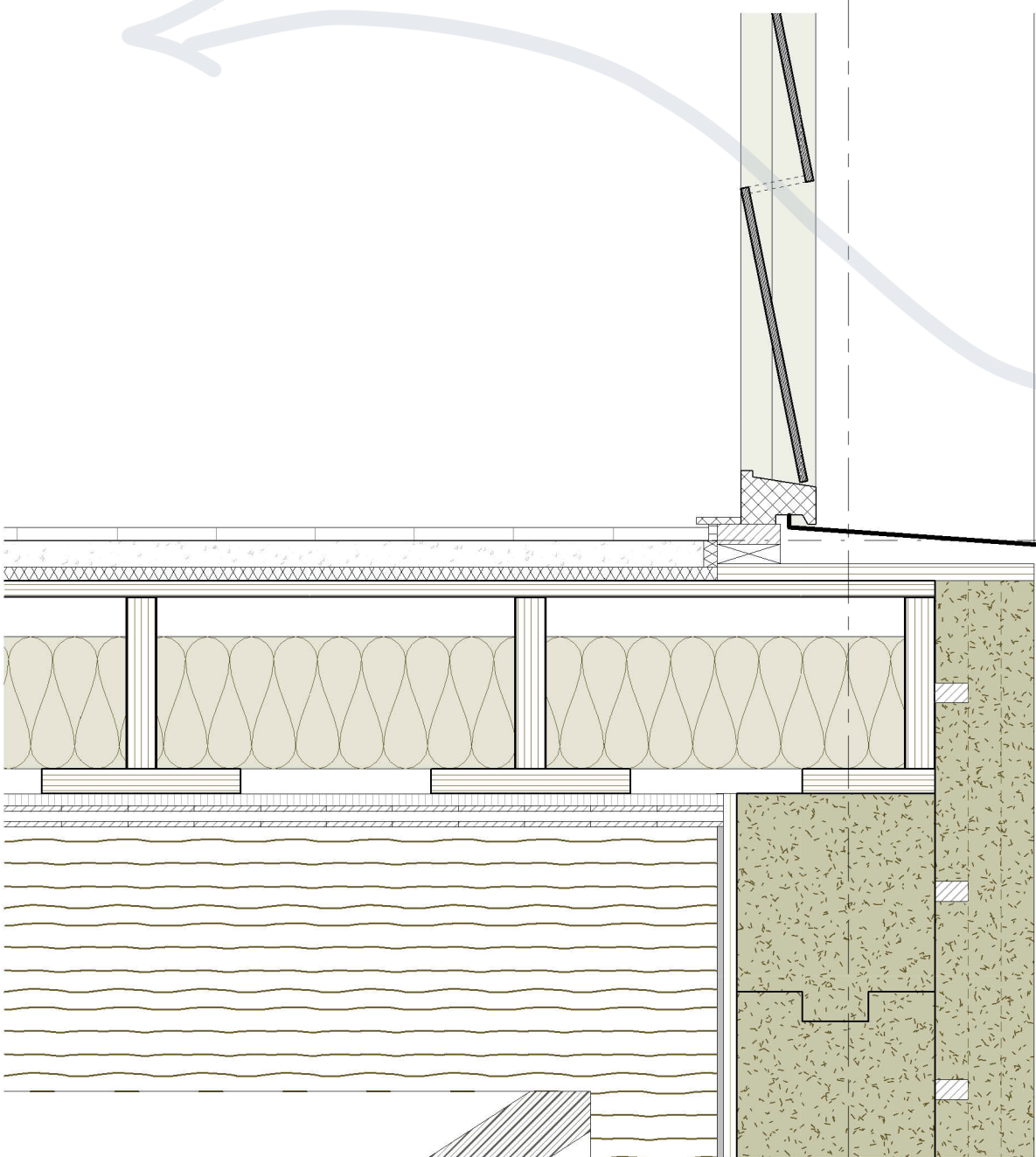
Excellent sound absorption  
Decent thermal mass

1. RENNER Claycsein 'adobe' floor coating
2. RENNER rammed earth top screed including floor heating, 40 mm
3. HEMPLITH Therm impact soundproofing, 30 mm
4. METSA Kerlo LVL open box floorslab, 45x260 mm LVL S-beam, C-C 600 mm
5. HEMPLITH Flex sound absorbing insulation, 200 mm
6. MAGOXX fire protective magnesium sulphate board, 18 mm
7. WOODTEC three ply ceiling panel, 32 mm

### 'POROUS' ELEMENT

Vapour open (obviously)  
Source of natural light  
Source of fresh air  
Part of airium updraught ventilation concept  
Part of compress and release concept

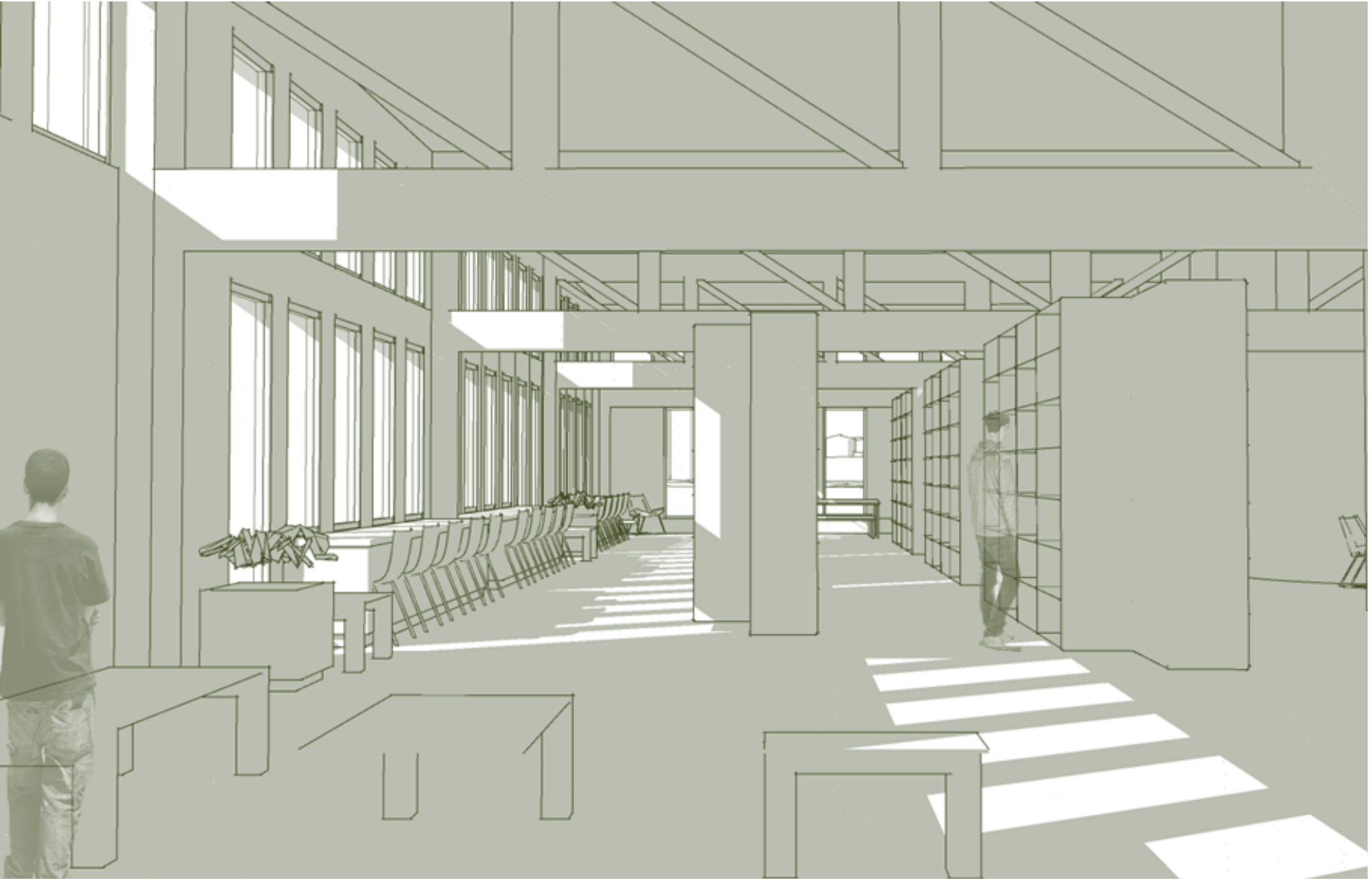
1. CLAYTEC clay plaster
2. HEMPLITH universal LDF hemp fibre board, 15 mm
3. HEMPLITH Flex thermal insulation
4. Hardwood curtain wall frame with custom angled and offset glass panels



### EXTERNAL FACADE

Vapour open  
Exceptional thermal resistance of 5.9 m<sup>2</sup>K/W  
Excellent sound absorption  
Decent thermal mass

1. CLAYTEC clay plaster
2. HEMPLITH universal LDF hemp fibre board, 15 mm
3. HEMPLITH prosystem U-shell prefab hempcrete block, 300 mm
4. Hempcrete 'in situ', 150 mm against timber stud support framework
5. KEIM design laur transparent coating



### ATRIUM FLOOR

1. MOSO bamboo elite flooring, 20 mm
2. Five ply CLT floor slab 200 mm

### RESIDENTIAL FLOOR

Excellent sound absorption  
Decent thermal mass

1. RENNER Claycsein 'adobe' floor coating
2. RENNER rammed earth top screed including floor heating, 40 mm
3. HEMPLITH Therm impact soundproofing, 30 mm
4. METSA Kerlo LVL open box system, 45x260 mm LVL S-beam
5. HEMPLITH Flex sound absorbing insulation, 200 mm
6. MAGOXX fire protective magnesium sulphate board, 18 mm
7. WOODTEC three ply ceiling panel, 32 mm

### INTERNAL FACADE

Vapour open  
Exceptional thermal resistance of 5.3 m<sup>2</sup>K/W  
Excellent sound absorption  
Decent thermal mass

1. KEIM design laur transparent coating
2. Hempcrete 'in situ', 100 mm against timber stud support
3. Prefabricated structural GLT frame pre-filled with hempcrete, 200 mm
4. HEMPLITH universal LDF hemp fibre board, 15 mm
5. CLAYTEC clay plaster

