

# IKEBANA GALLERY SCHOOL



Urban Architecture  
// craft in the city

Britt Derckx // 4281411 // 16 april 2021











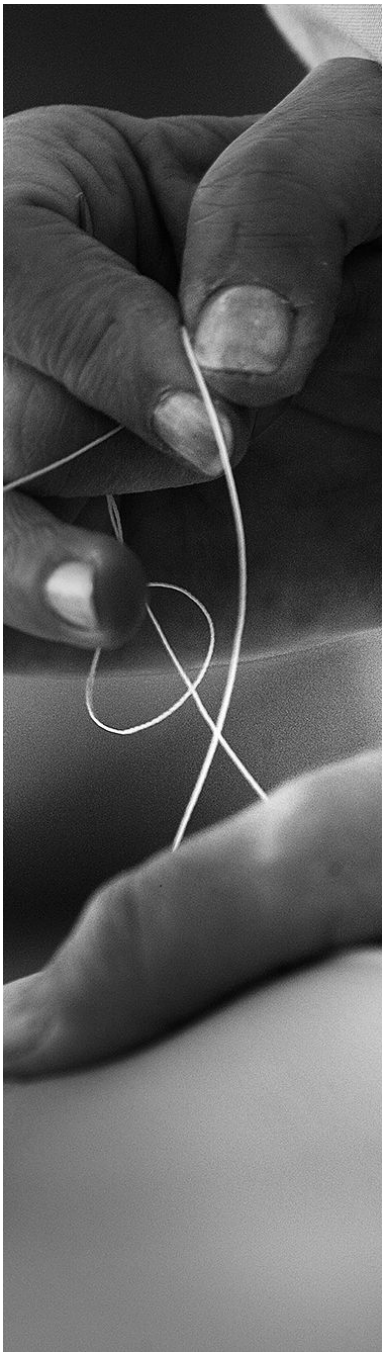
- 1 Craft and craftsmanship
- 2 Portrait of the location
- 3 Ikebana Gallery School
- 4 Structural concept
- 5 Environmental position



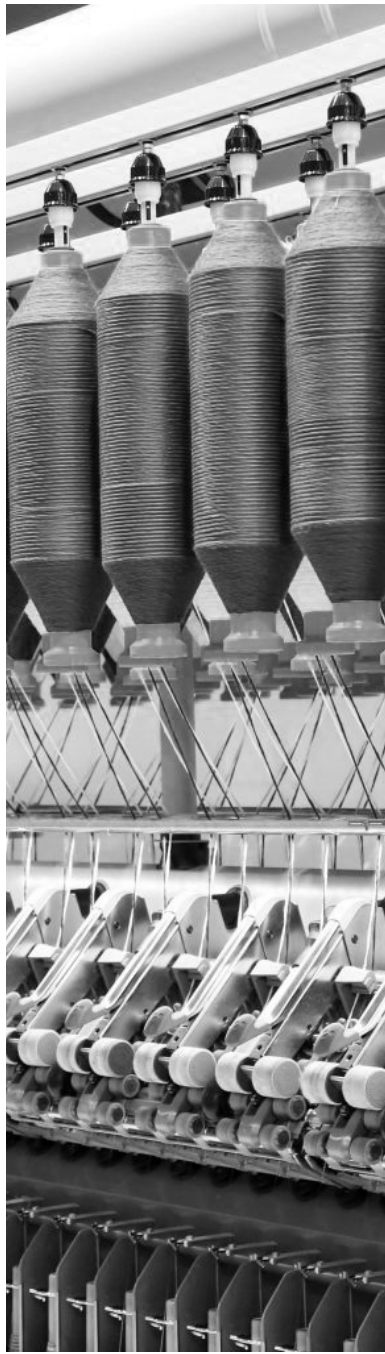
# 1



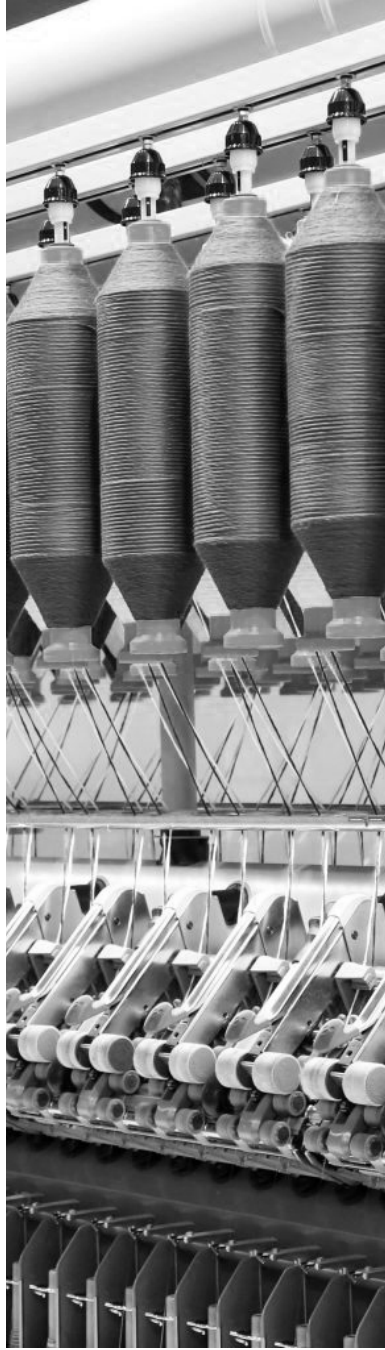
## Craft and craftsmanship design ambition and approach



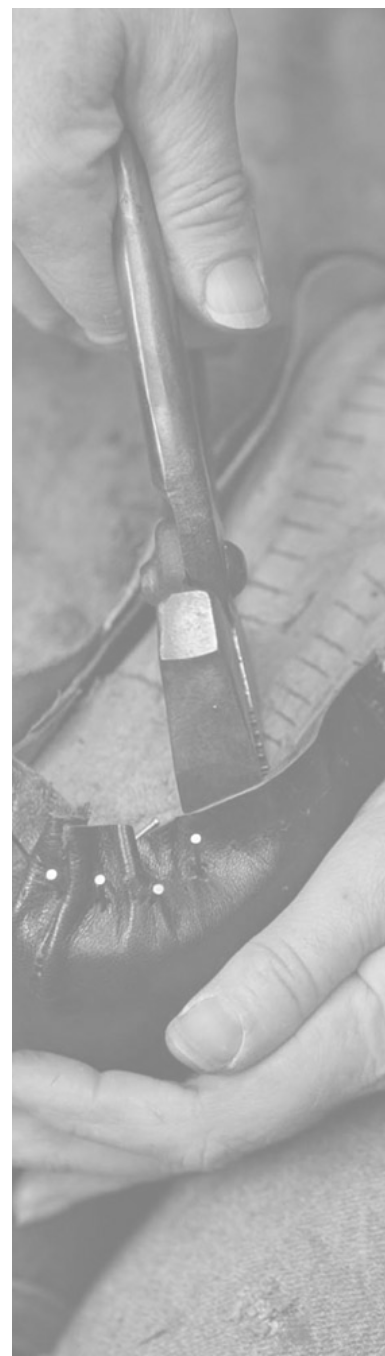
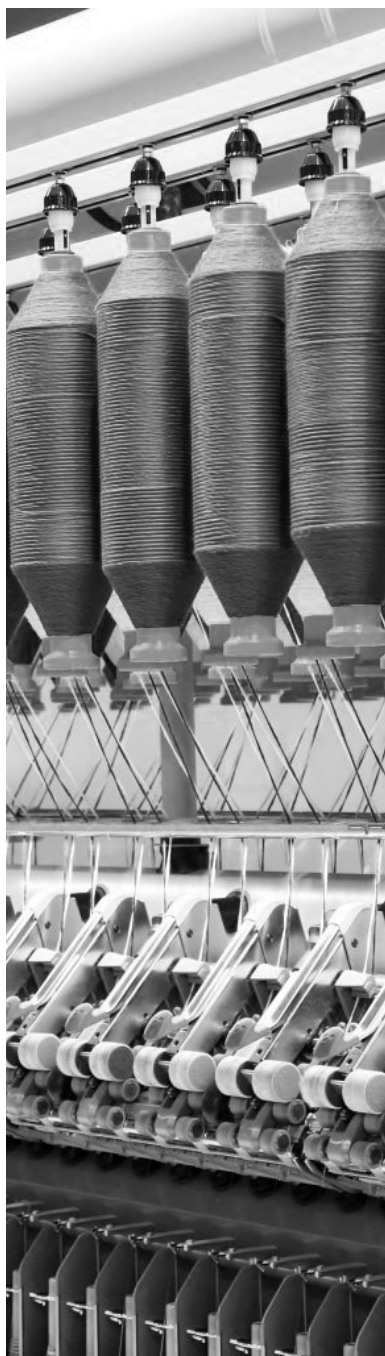


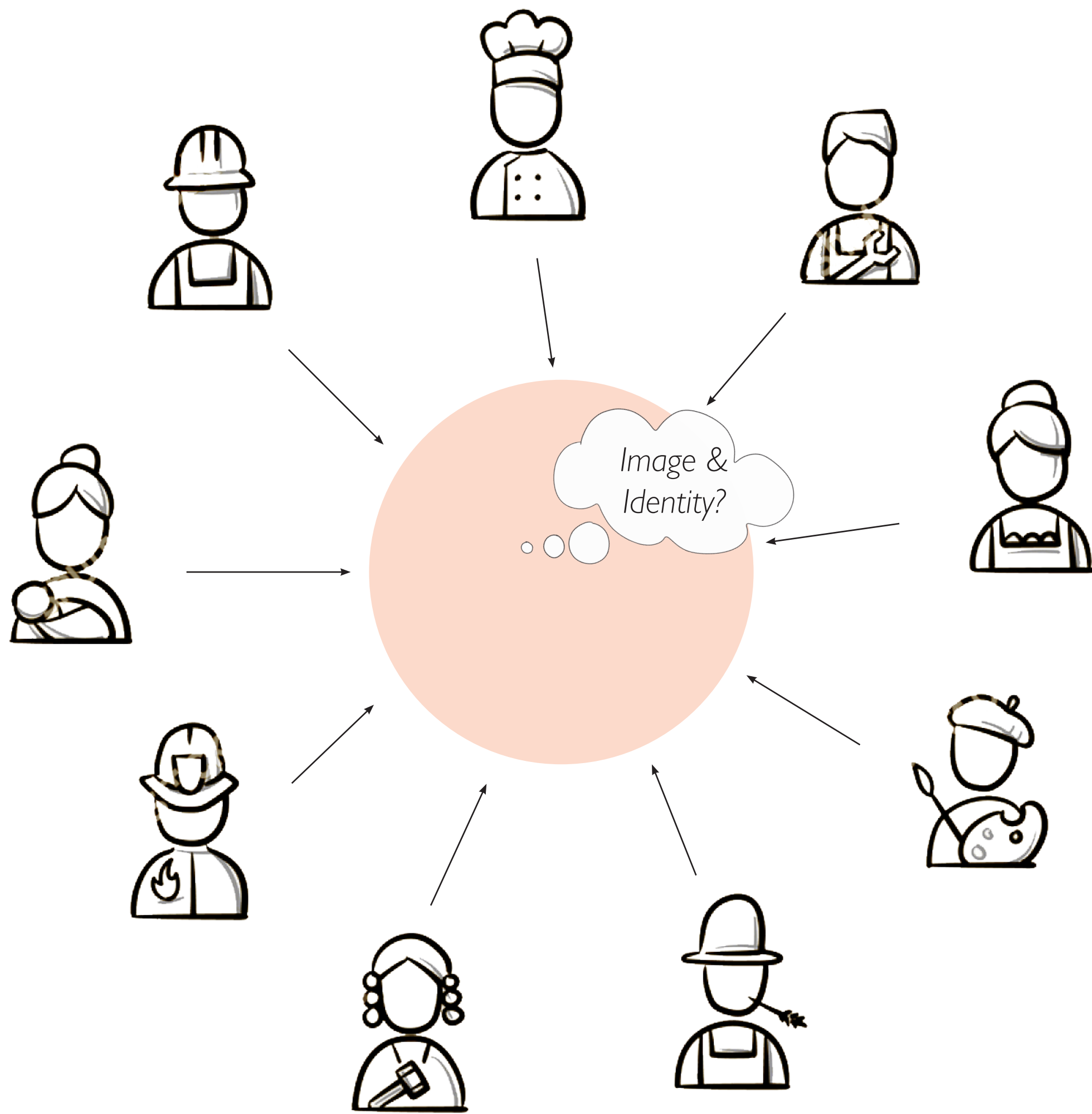




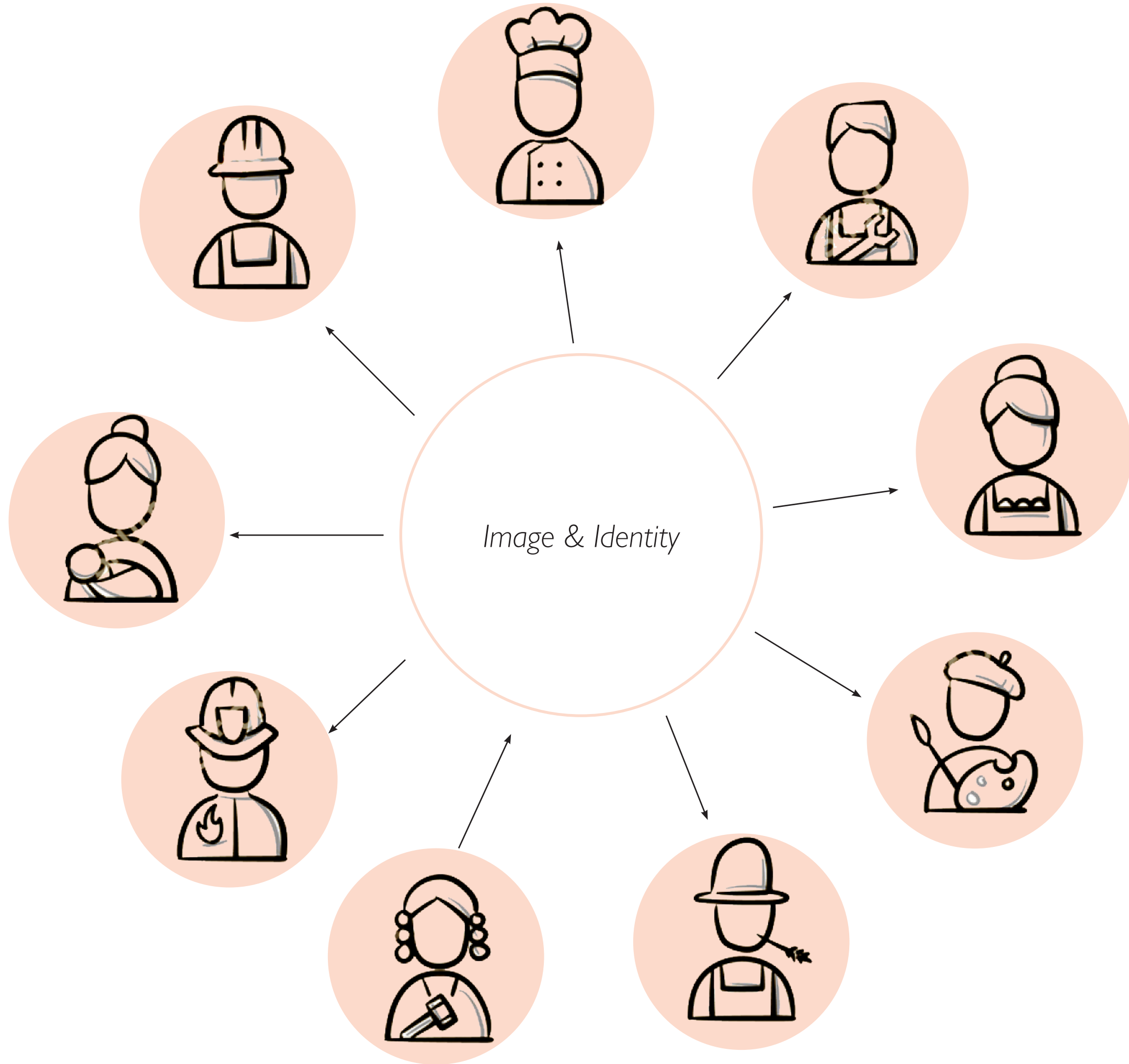








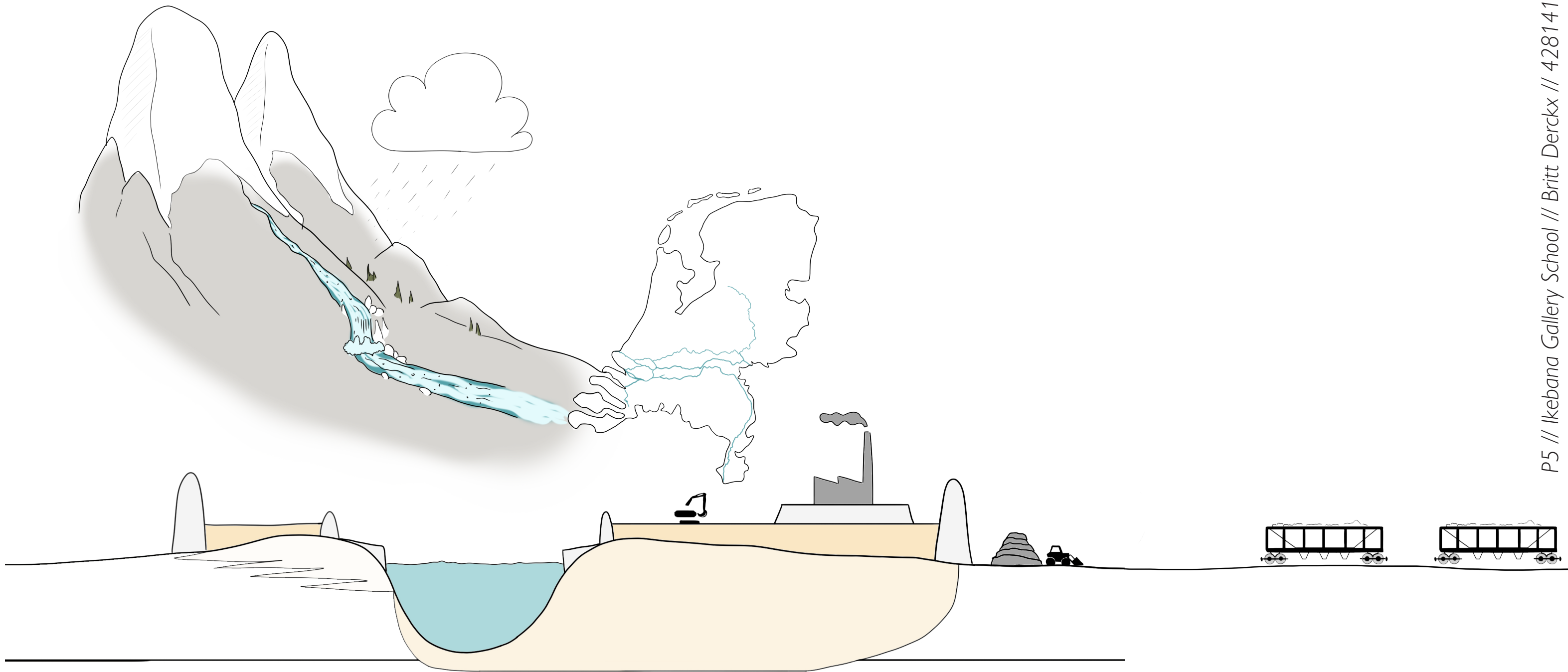








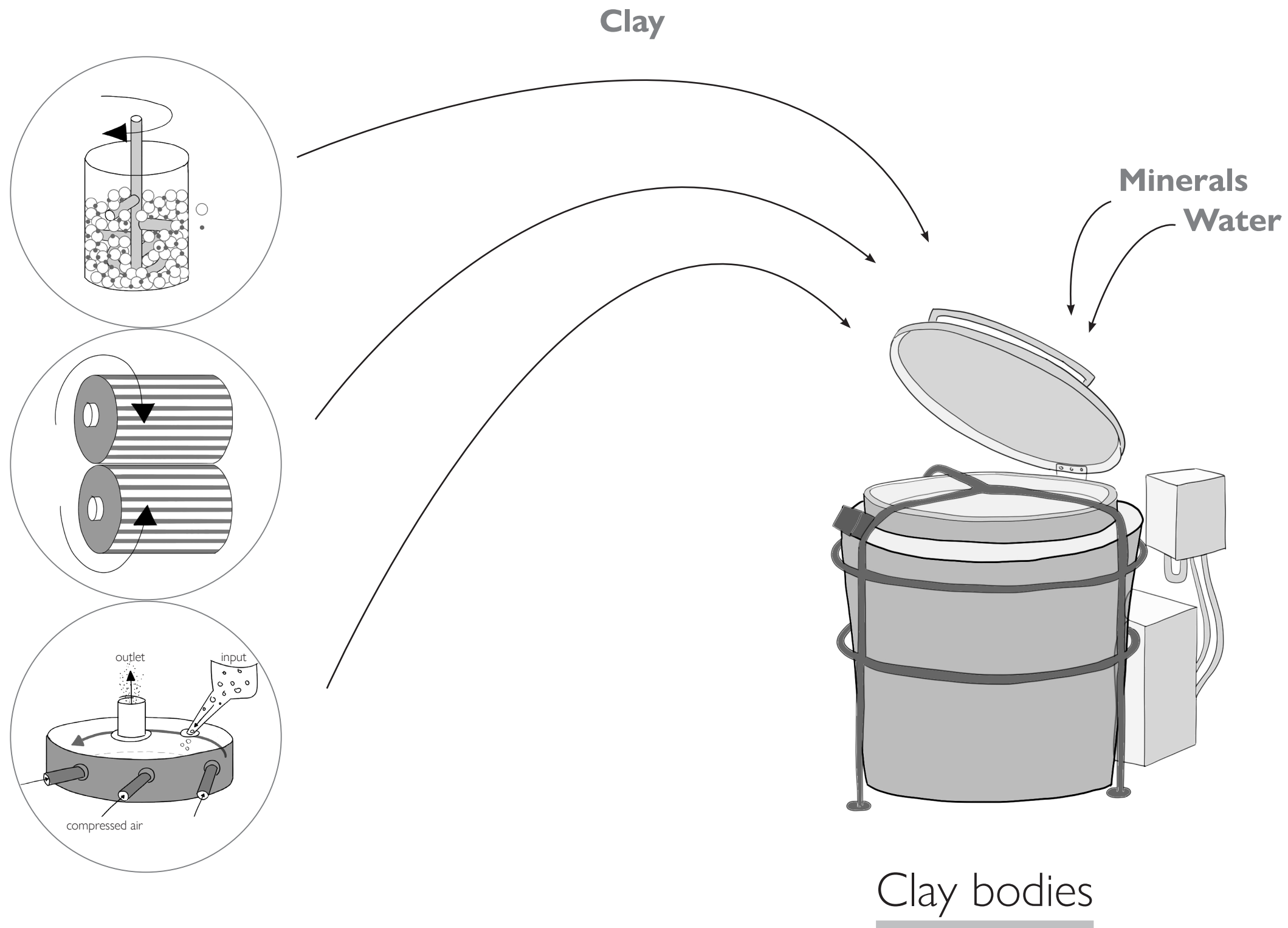








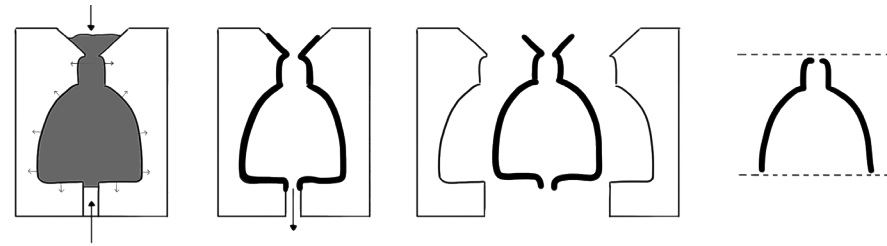
## Milling technique



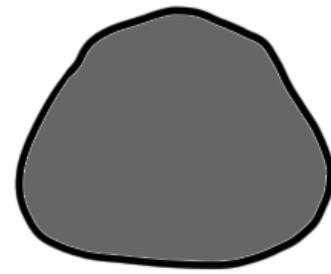
Porcelain

Earthenware

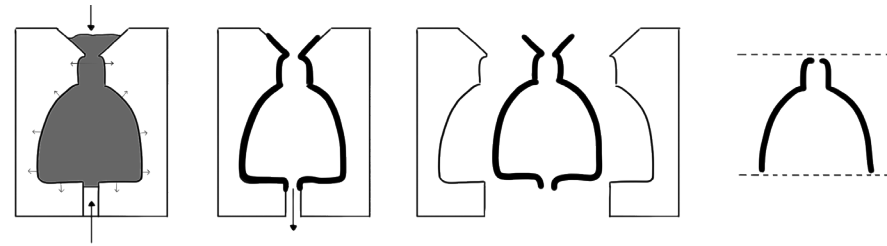
Stoneware



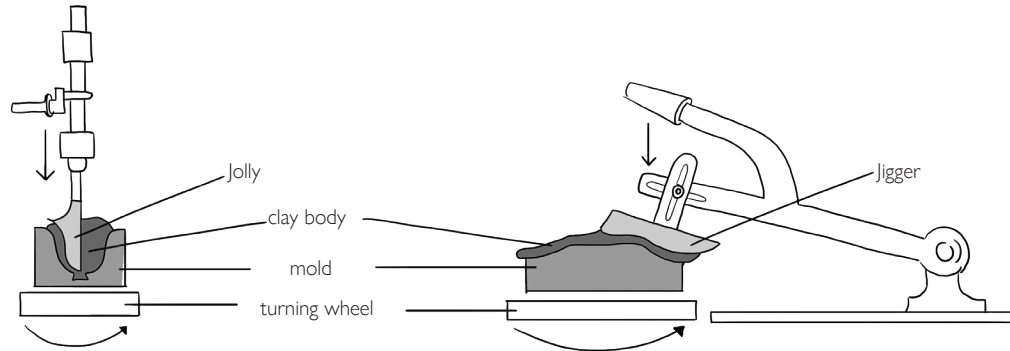
## Slip casting



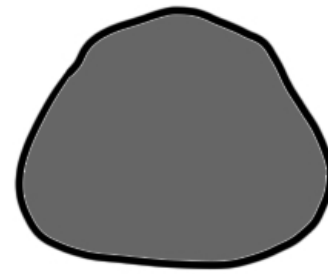


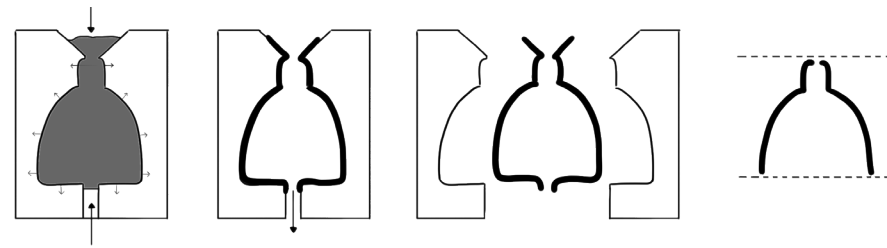


## Slip casting

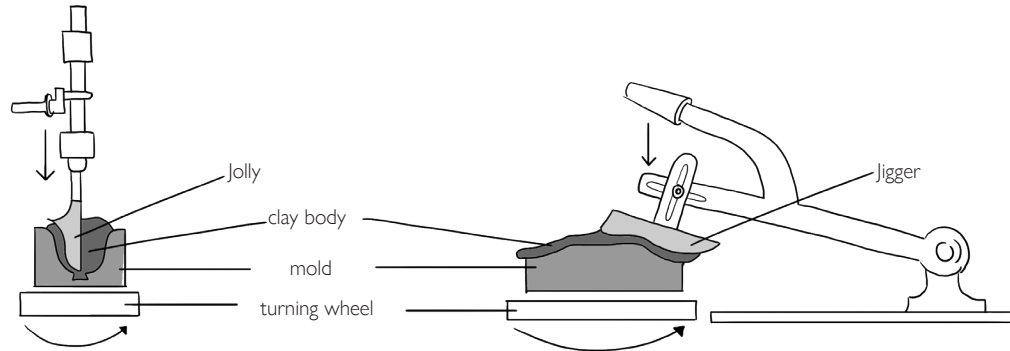


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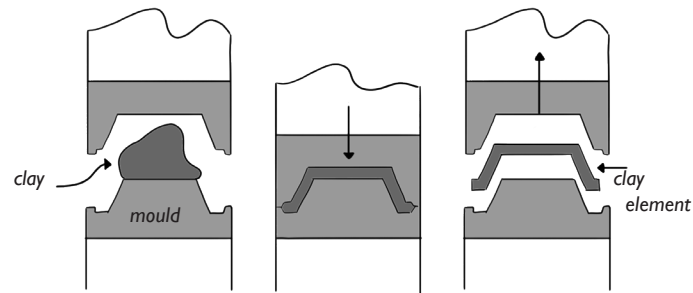




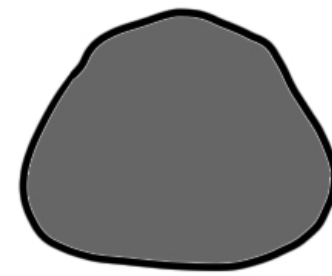
**Slip casting**



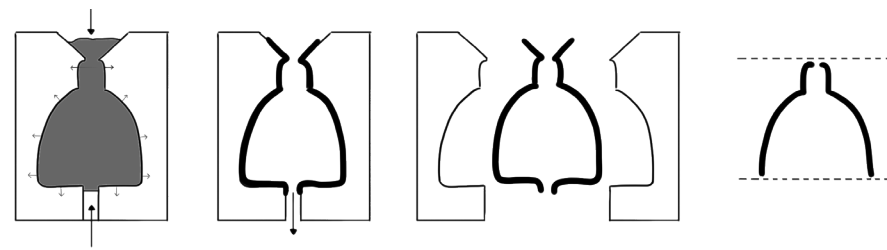
**Jiggering**



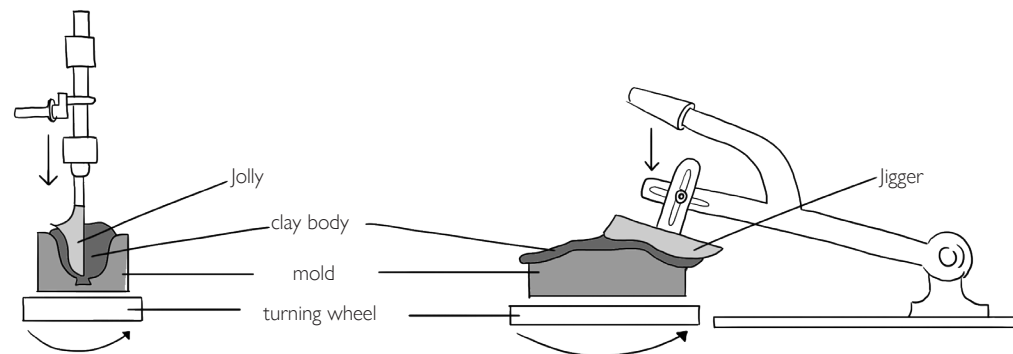
**Plastic pressing**



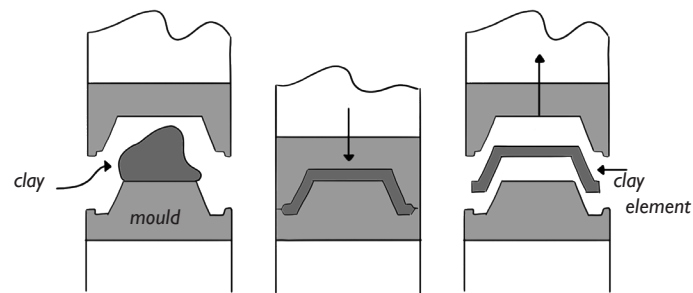




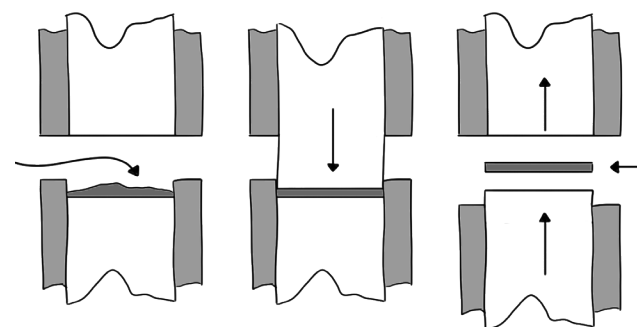
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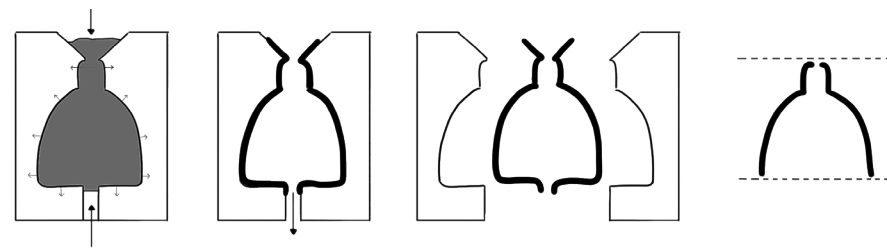
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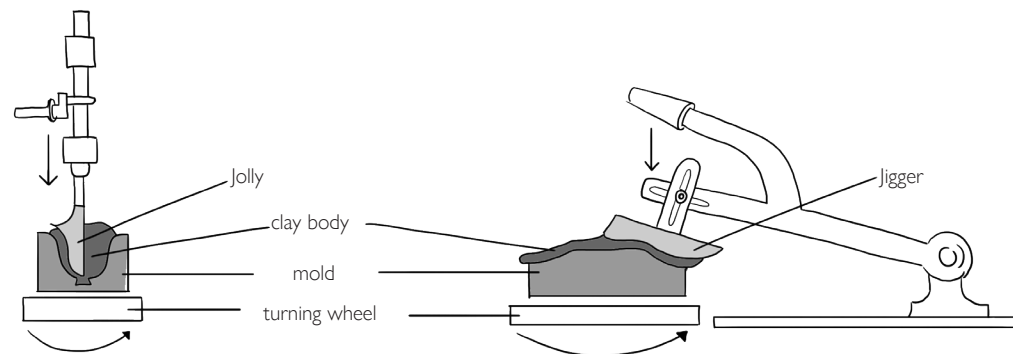
**Plastic pressing**



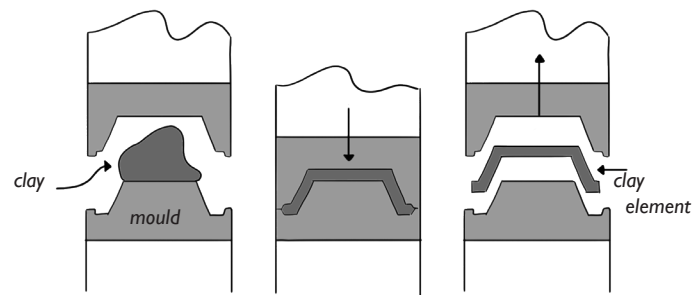
**Single-dry pressing**



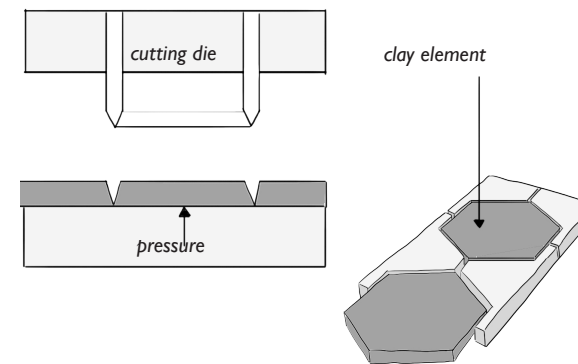
**Slip casting**



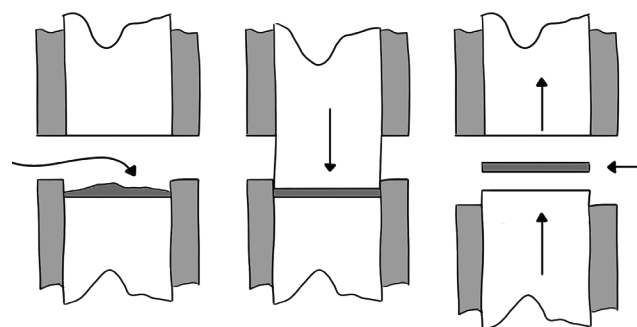
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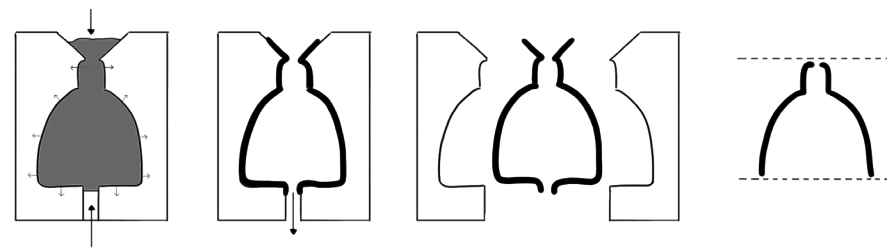
**Plastic pressing**



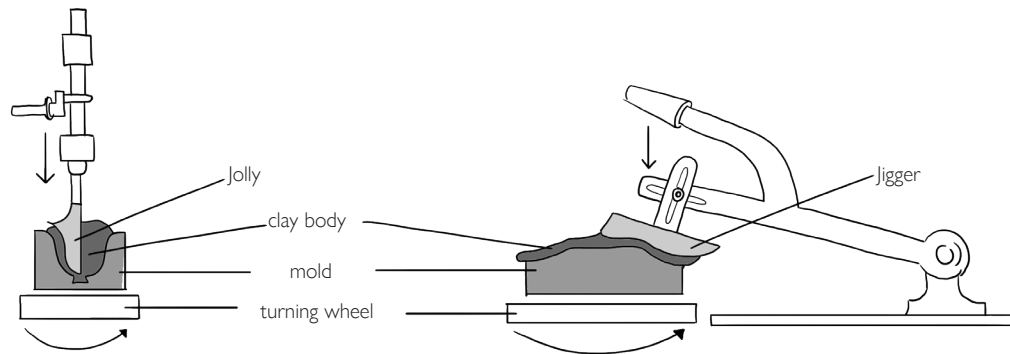
**Die-cutting**



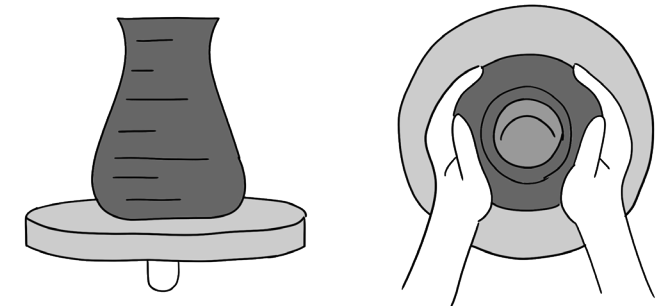
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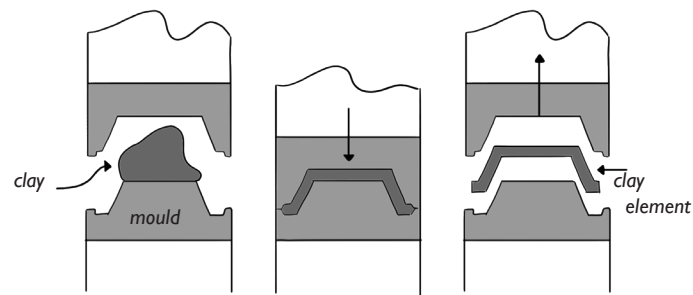
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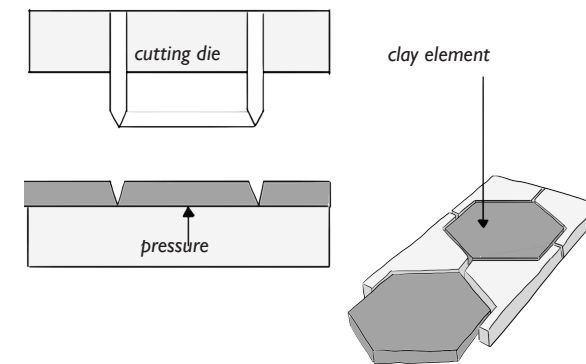
**Jiggering**



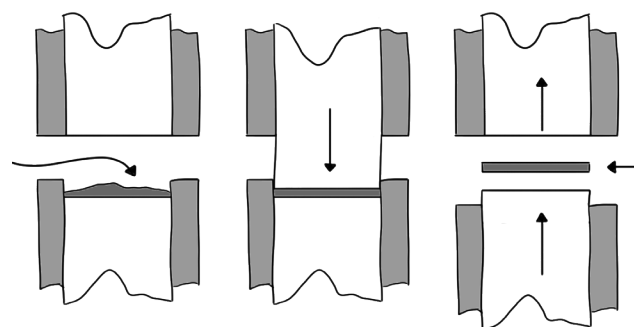
**Wheel throwing**



**Plastic pressing**



**Die-cutting**

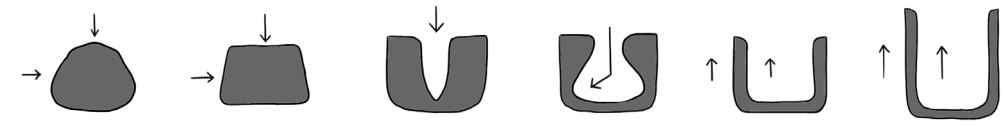


**Single-dry pressing**



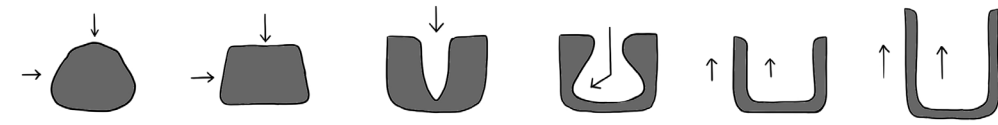
# 1. Slip

wet, freely shapable



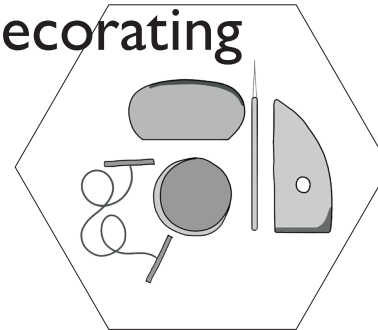
# 1. Slip

wet, freely shapable



# 2. Plastic

holds shape,  
trimming and decorating



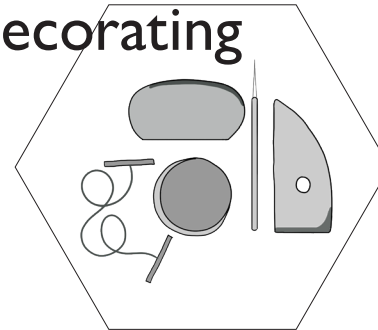
# 1. Slip

wet, freely shapable



# 2. Plastic

holds shape,  
trimming and decorating



# 3. Leather hard

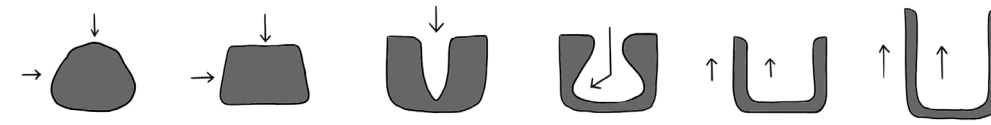
Dry with some flexibility,  
carving and engraving





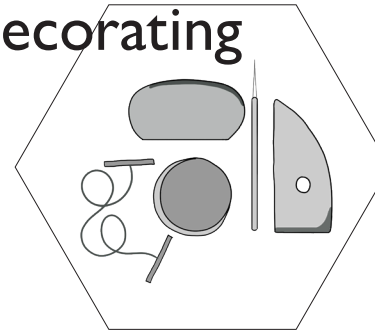
# 1. Slip

wet, freely shapable



# 2. Plastic

holds shape,  
trimming and decorating



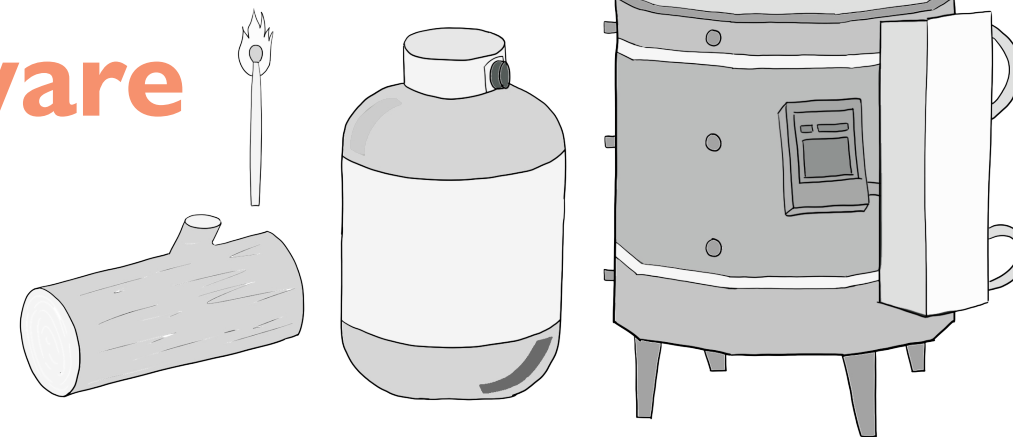
# 3. Leather hard

Dry with some flexibility,  
carving and engraving



# 4. Bone dry/greenware

Completely dry,  
ready to fire



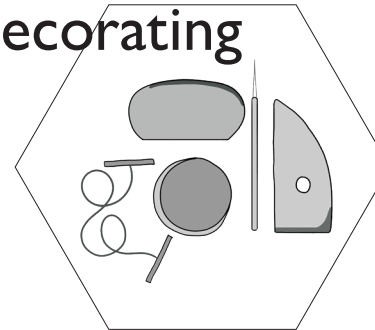
# 1. Slip

wet, freely shapable



# 2. Plastic

holds shape,  
trimming and decorating



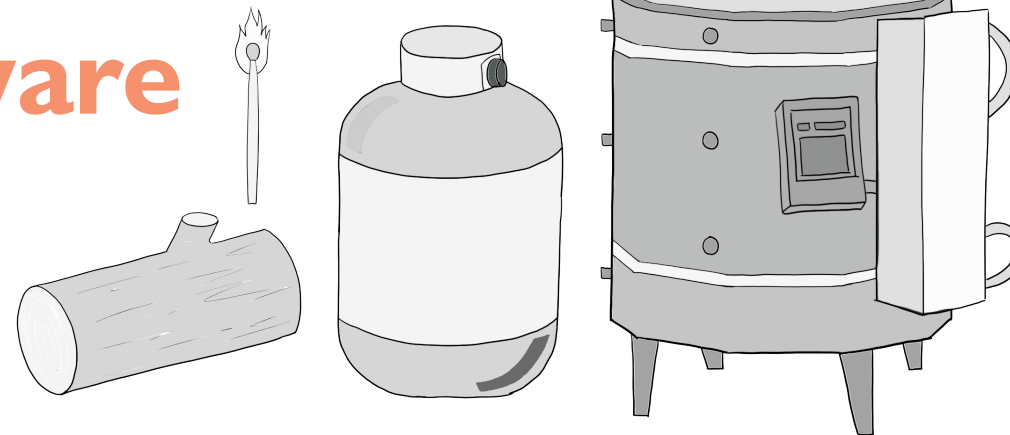
# 3. Leather hard

Dry with some flexibility,  
carving and engraving



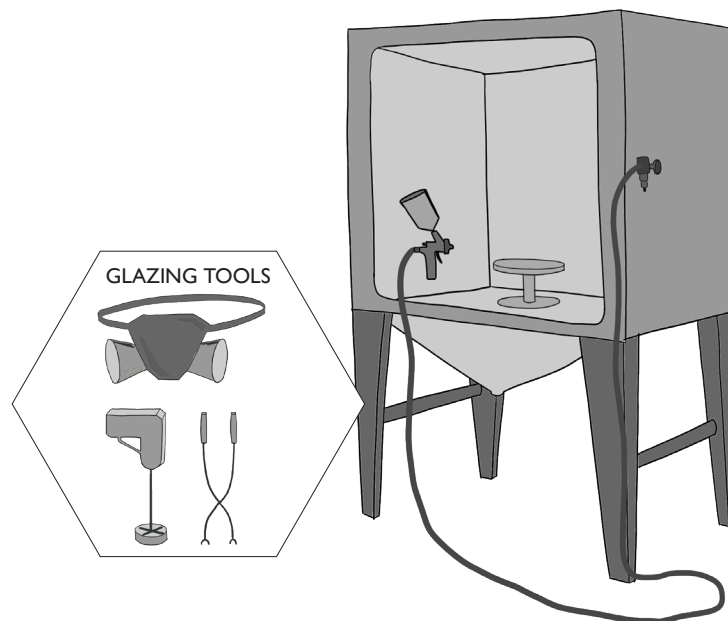
# 4. Bone dry/greenware

Completely dry,  
ready to fire



# 5. Bisqueware

Rock-hard ceramics, not yet waterproof  
painting, decorating, glazing



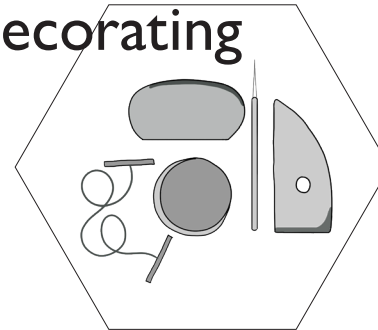
# 1. Slip

wet, freely shapable



# 2. Plastic

holds shape,  
trimming and decorating



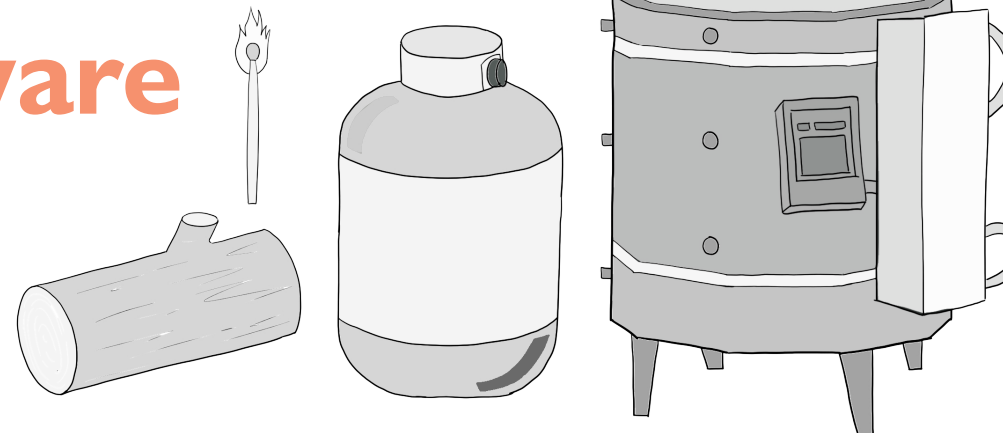
# 3. Leather hard

Dry with some flexibility,  
carving and engraving



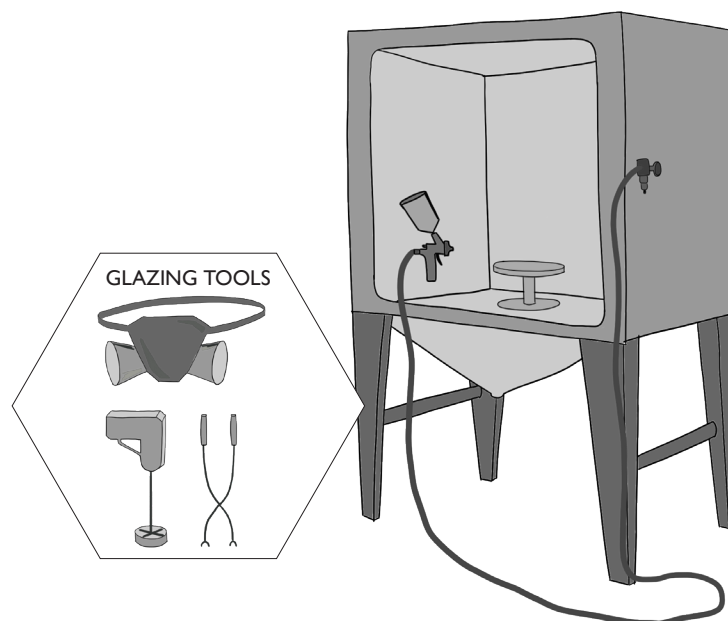
# 4. Bone dry/greenware

Completely dry,  
ready to fire



# 5. Bisqueware

Rock-hard ceramics, not yet waterproof  
painting, decorating, glazing



# 6. Glaze ware

Fired second time  
ready to use



# Preparation

Chemistry classroom  
Theory classroom  
Computer/3D printing classroom

# Preparation

Chemistry classroom  
Theory classroom  
Computer/3D printing classroom

# Making

Drawing atelier  
Moulding atelier  
Pouring room  
Wheel throwing atelier

## Preparation

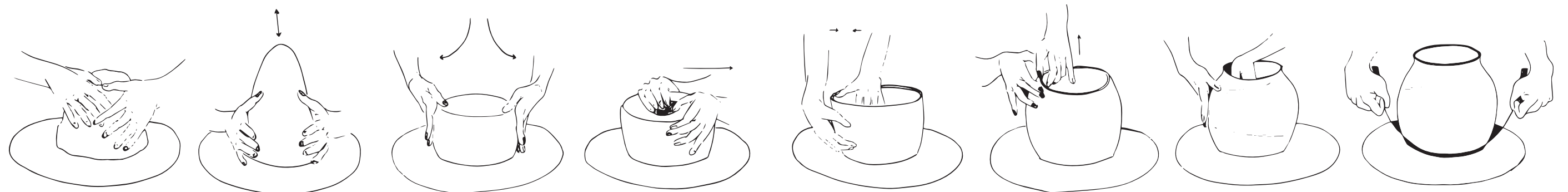
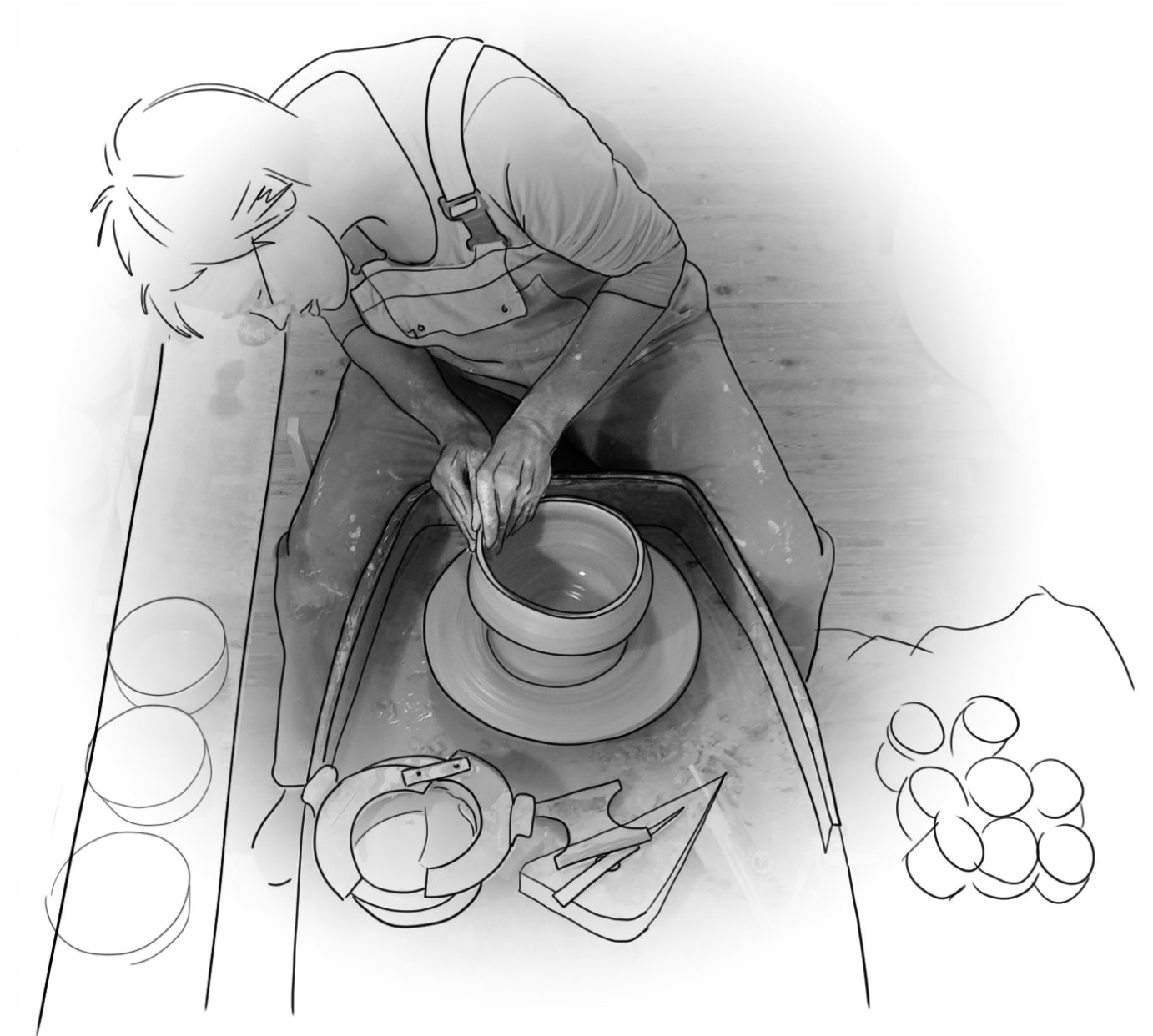
Chemistry classroom  
Theory classroom  
Computer/3D printing classroom

## Making

Drawing atelier  
Moulding atelier  
Pouring room  
Wheel throwing atelier

## Finalizing

Painting room  
Glazing booth  
Workshop studio  
Kilns

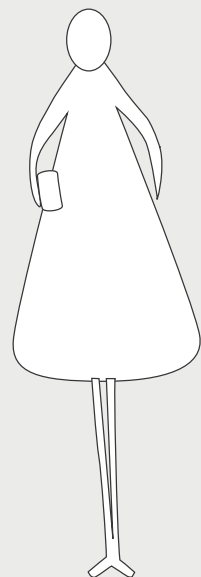




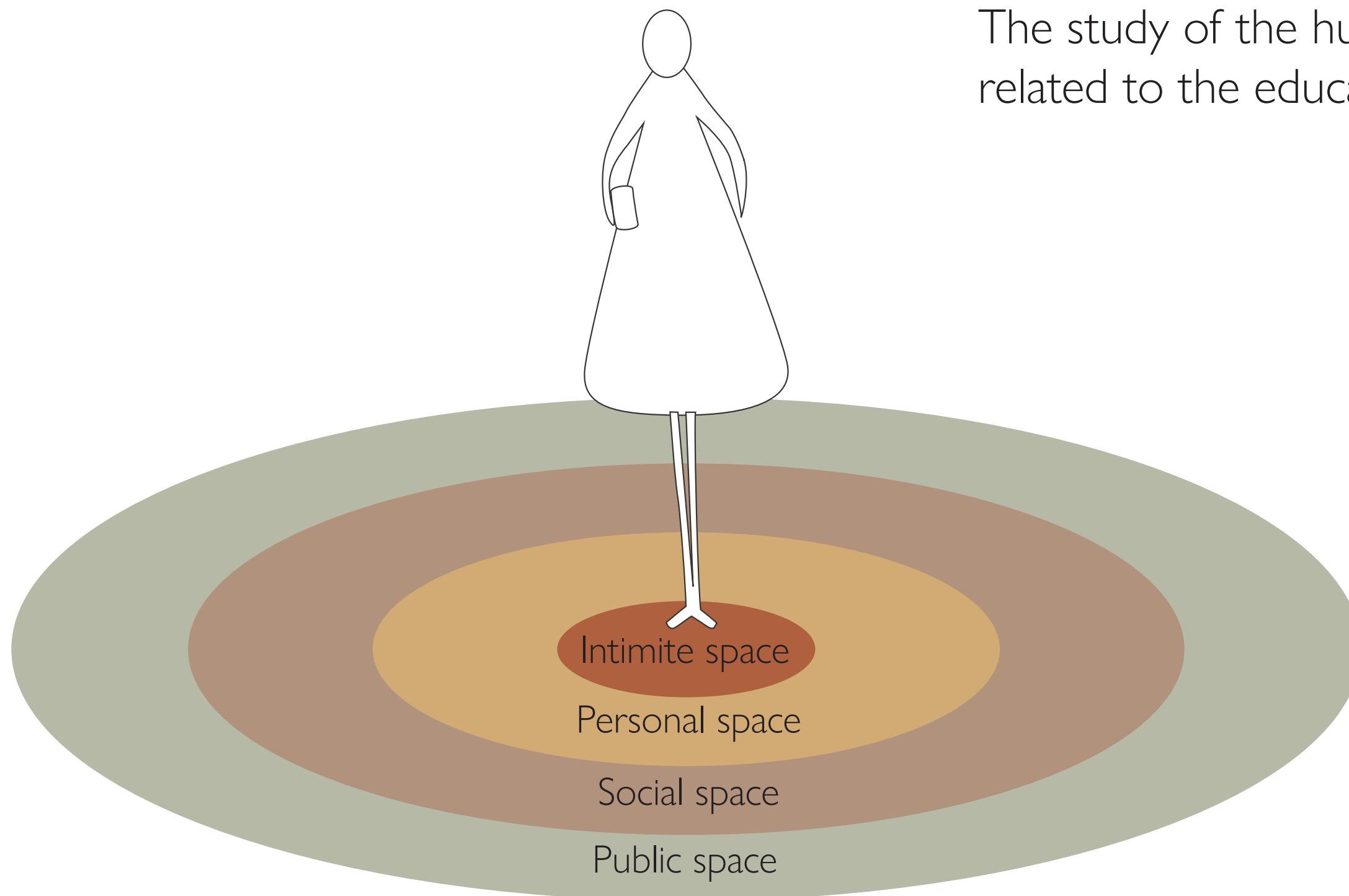


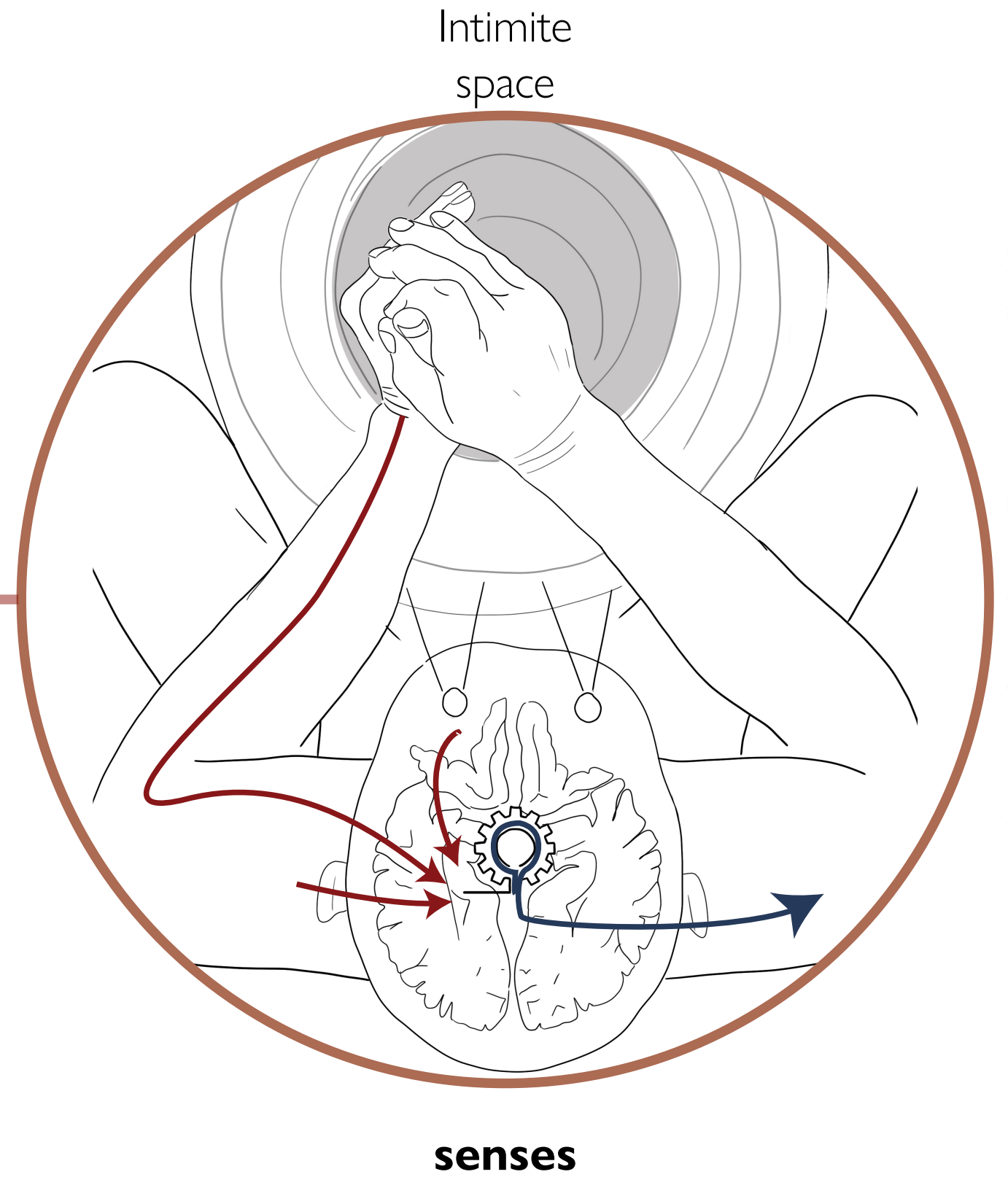
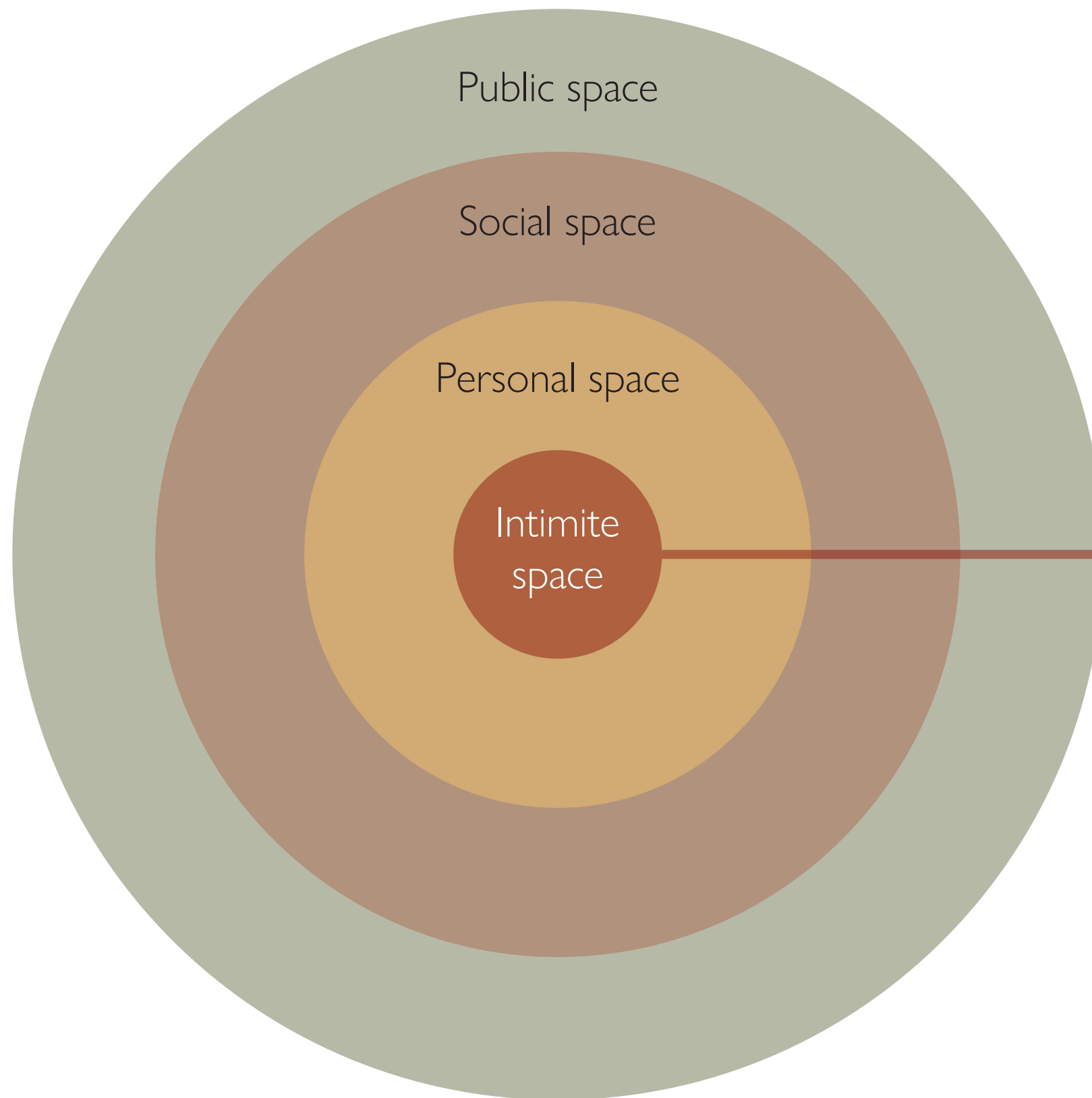
How can a building create, promote and communicate the **cultures of crafts** and specific networks of people, places and knowledge?

What is its **public role** and how can it become **didactic architecture**?

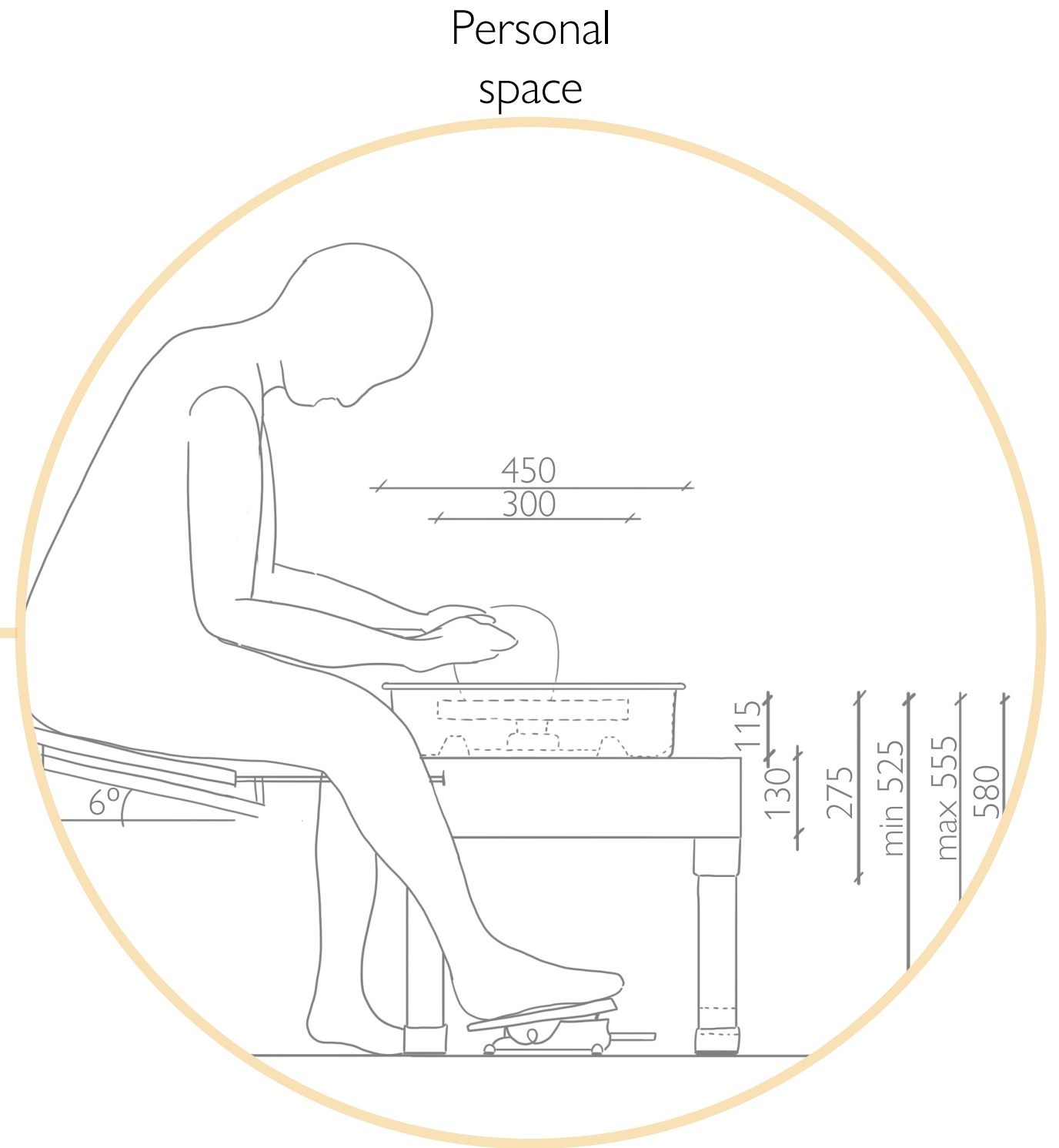
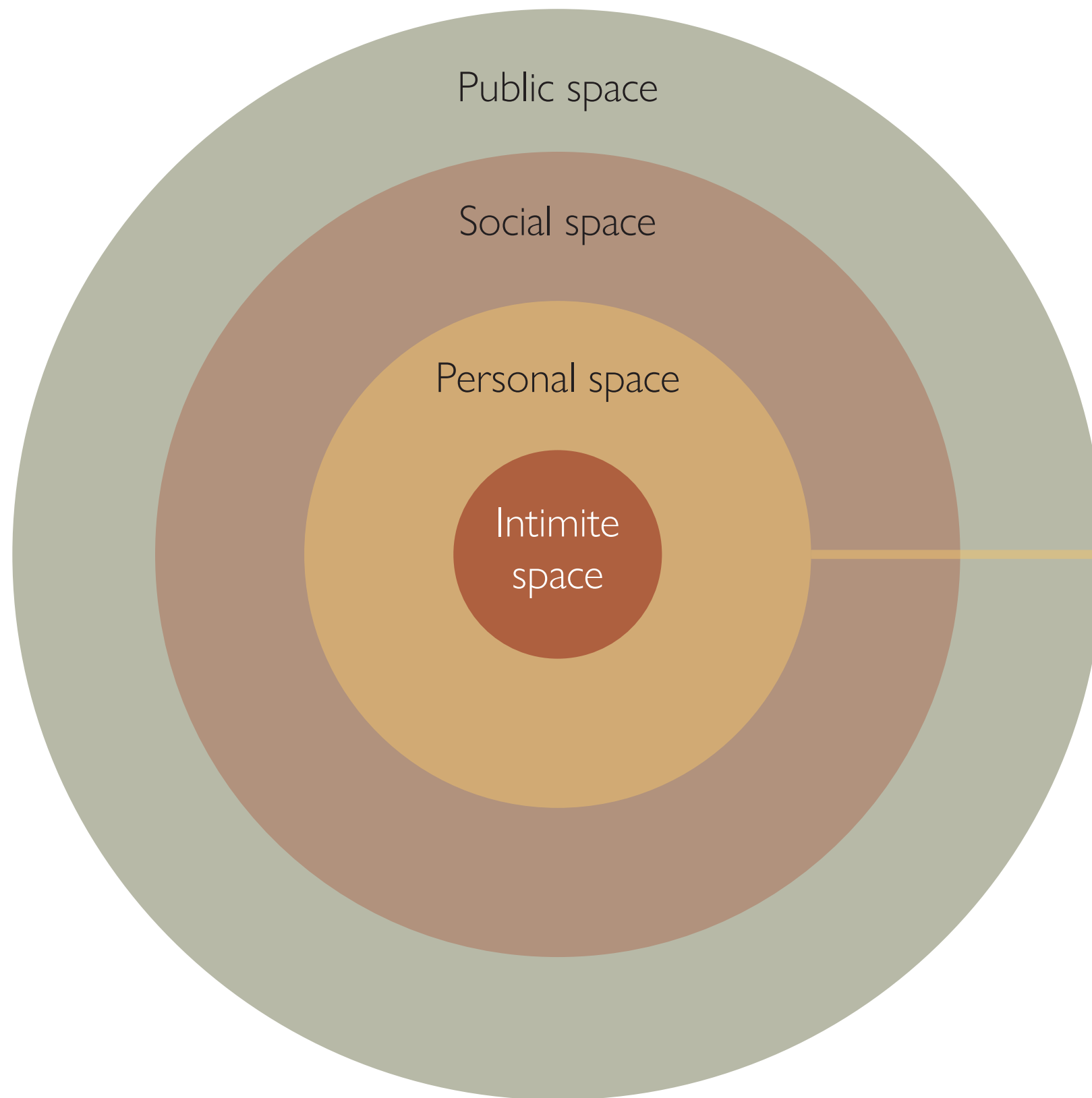


The study of the human use of space,  
related to the education environment

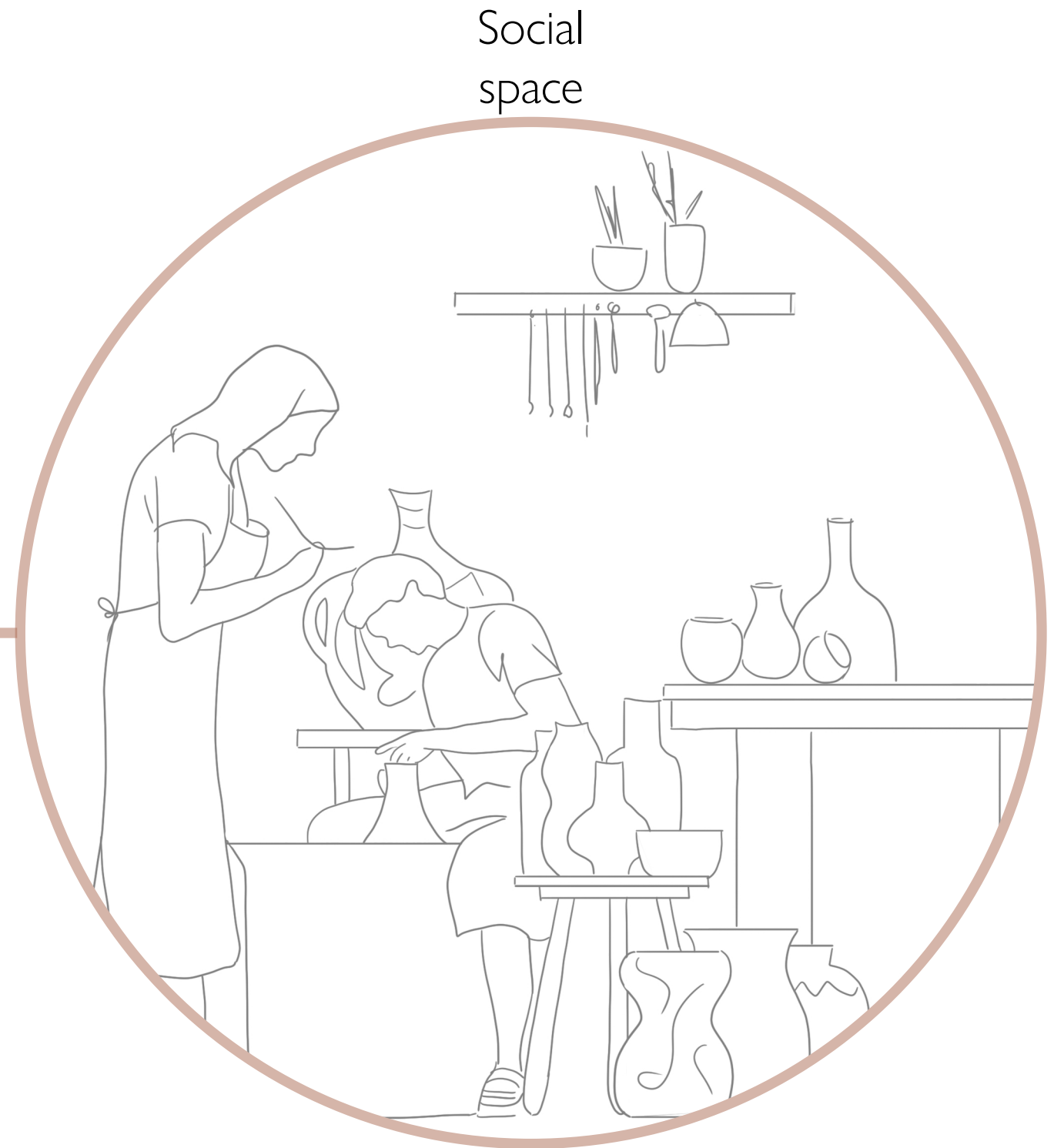
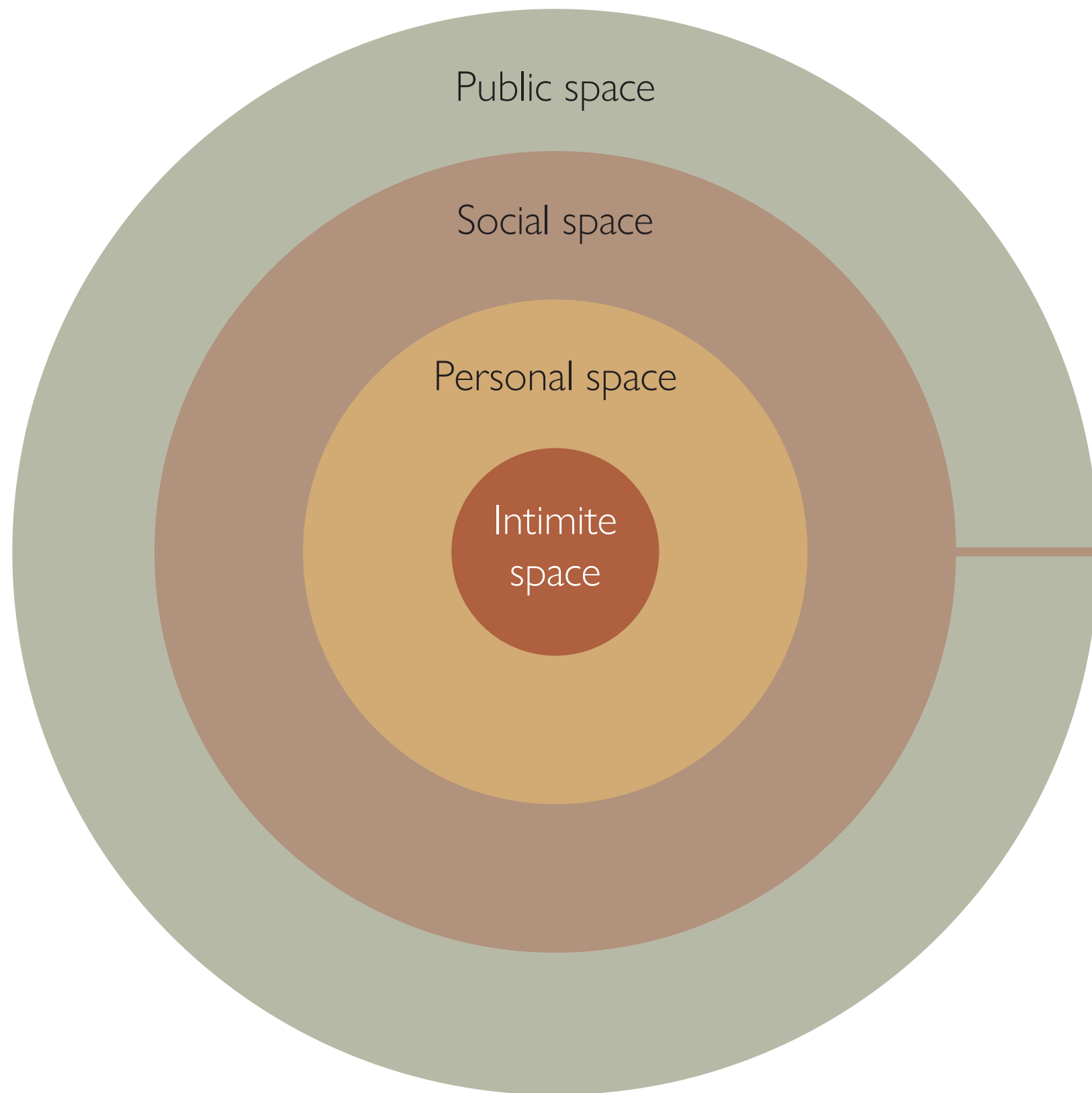




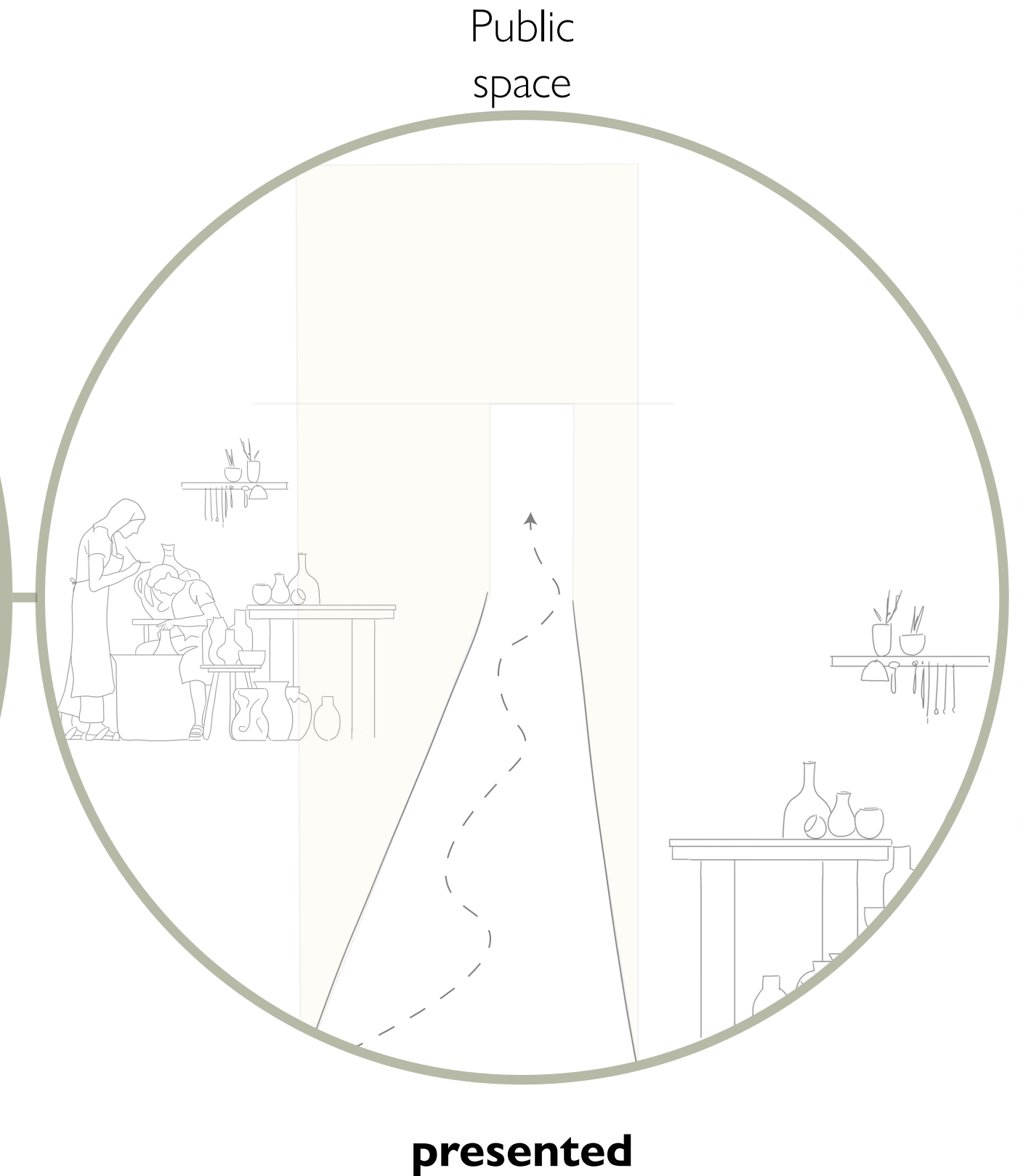
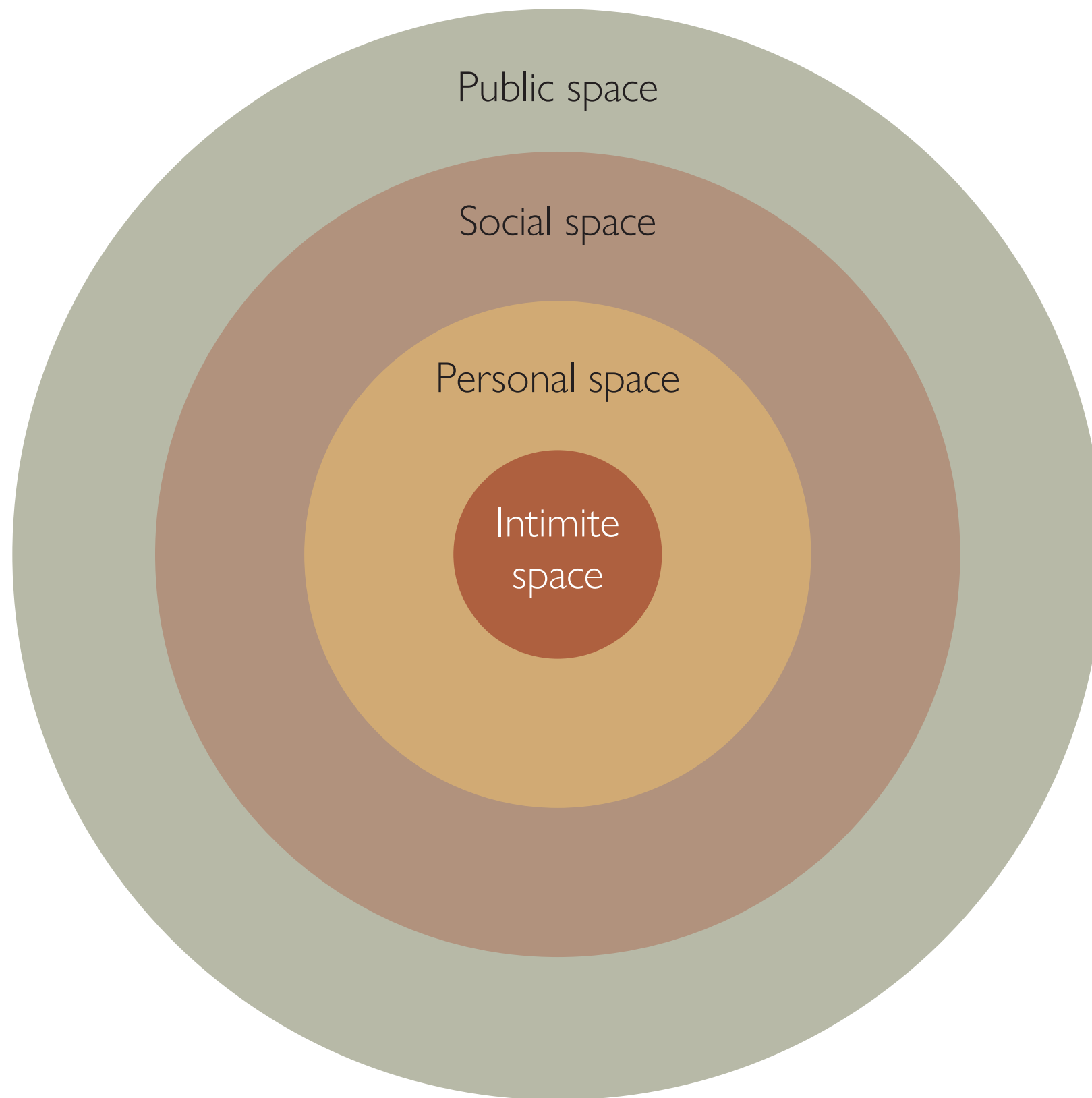




**act and movement**

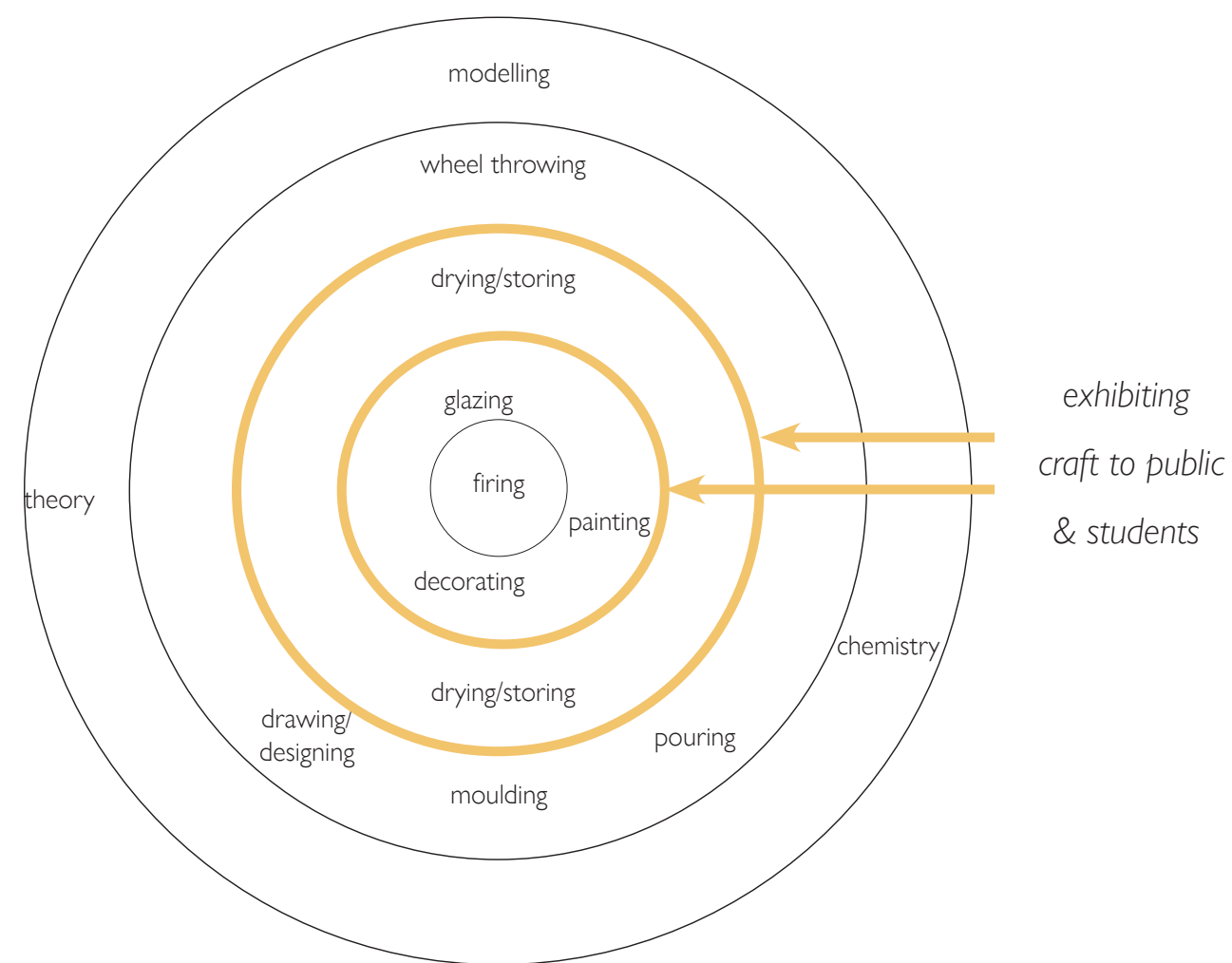
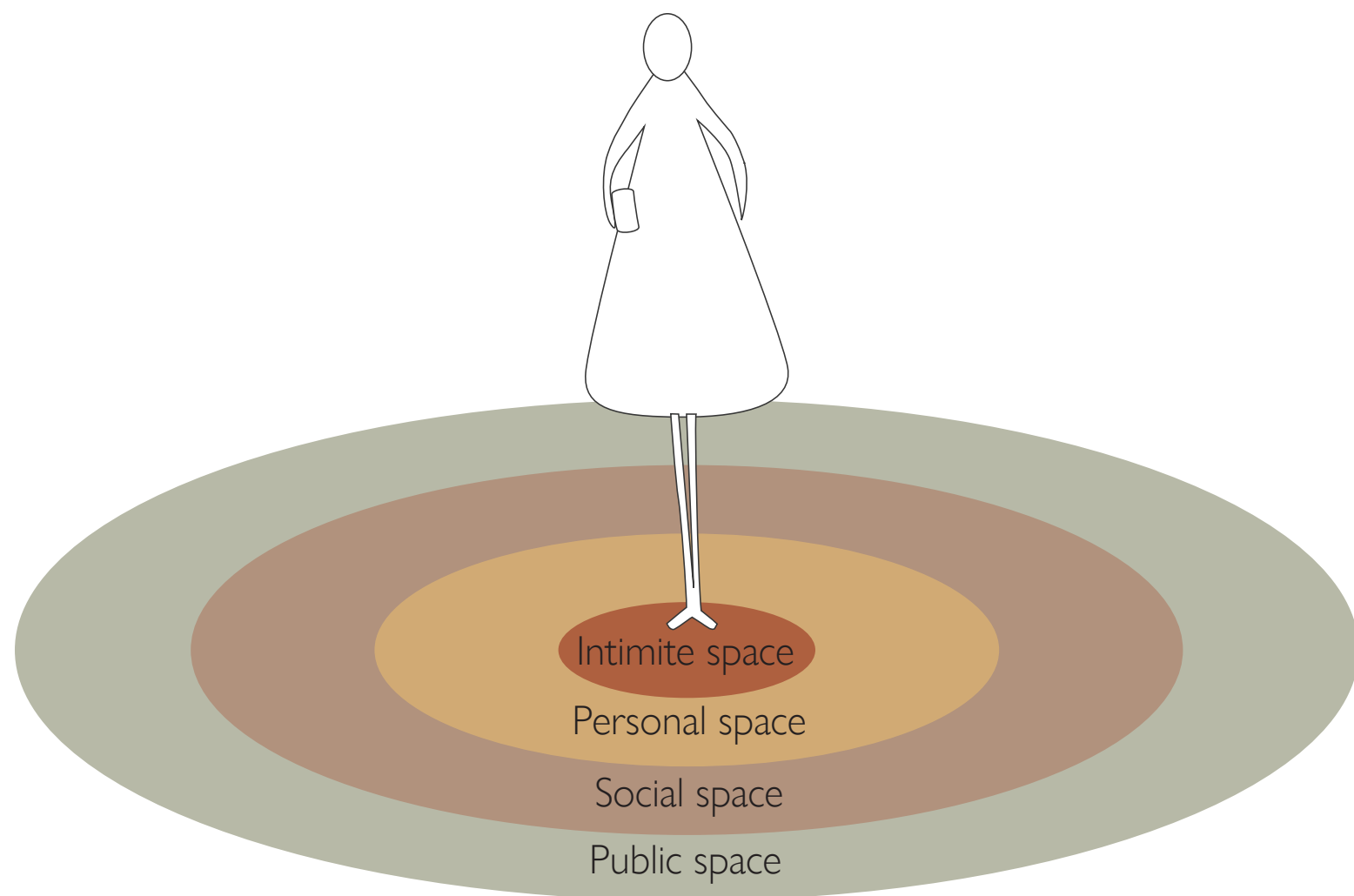


**experience**

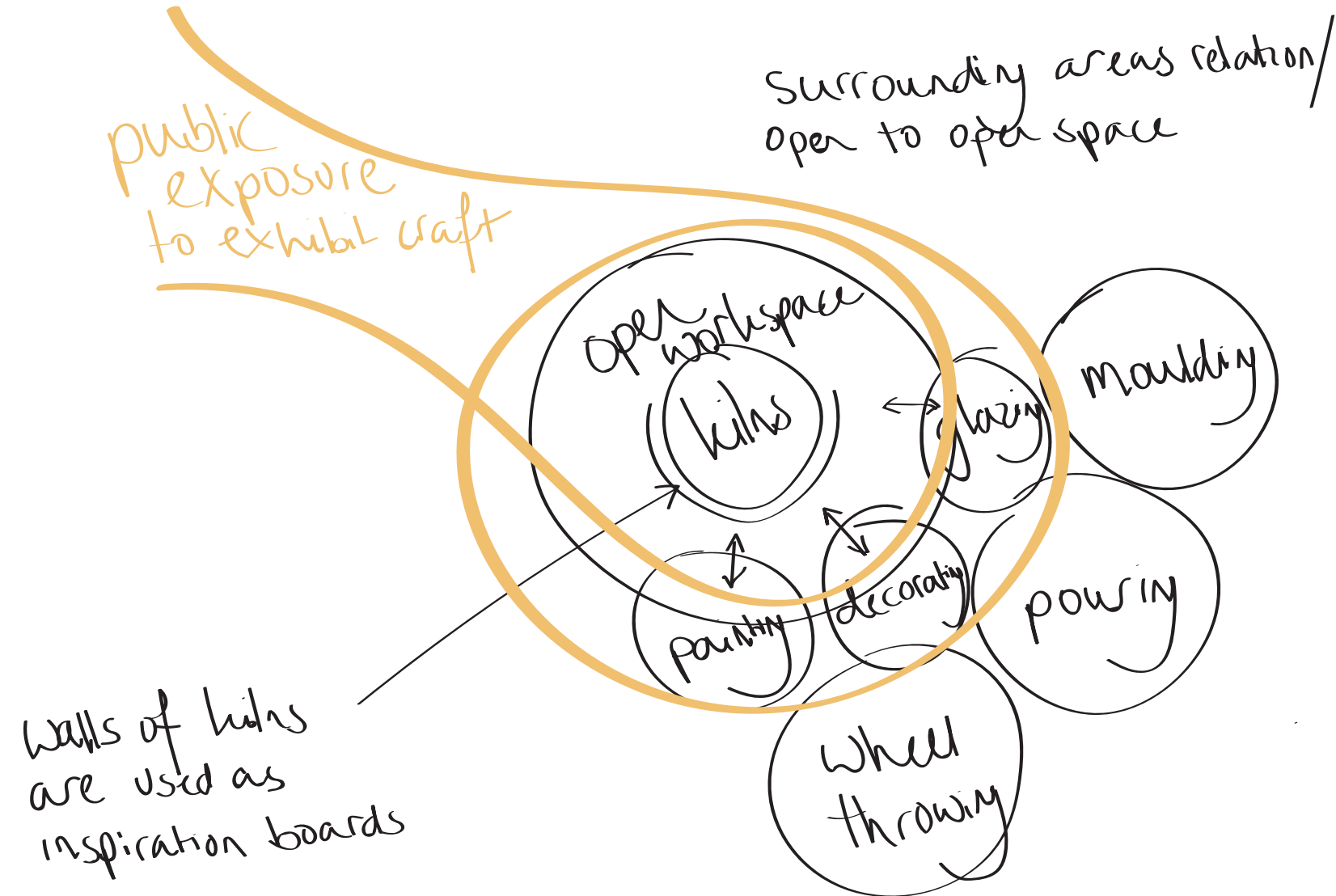








*exhibiting  
craft to public  
& students*



First sketch sequences and dialogues

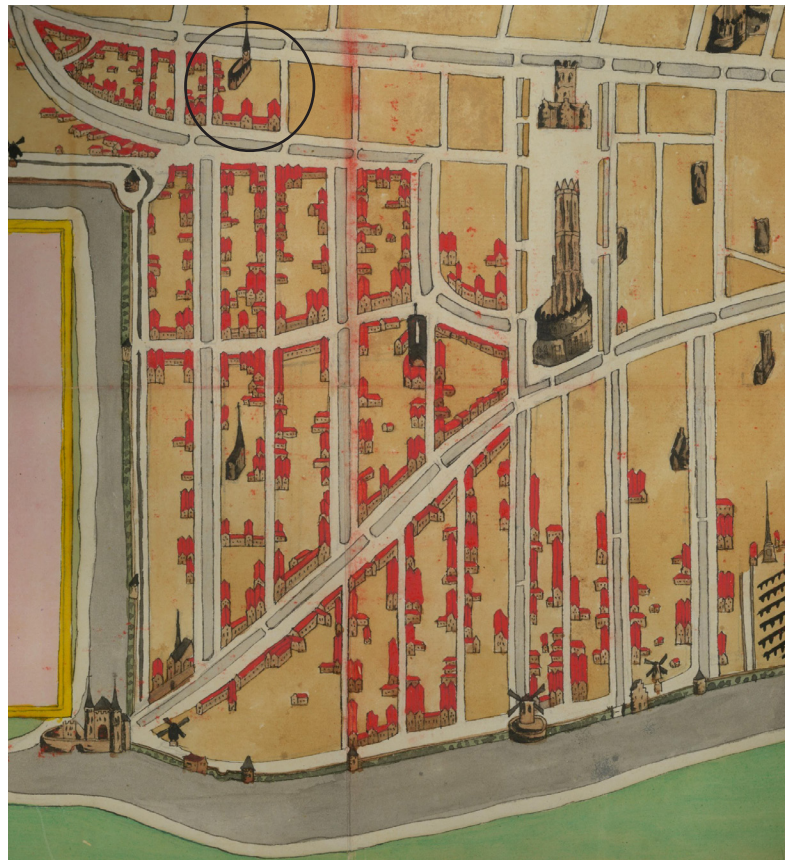
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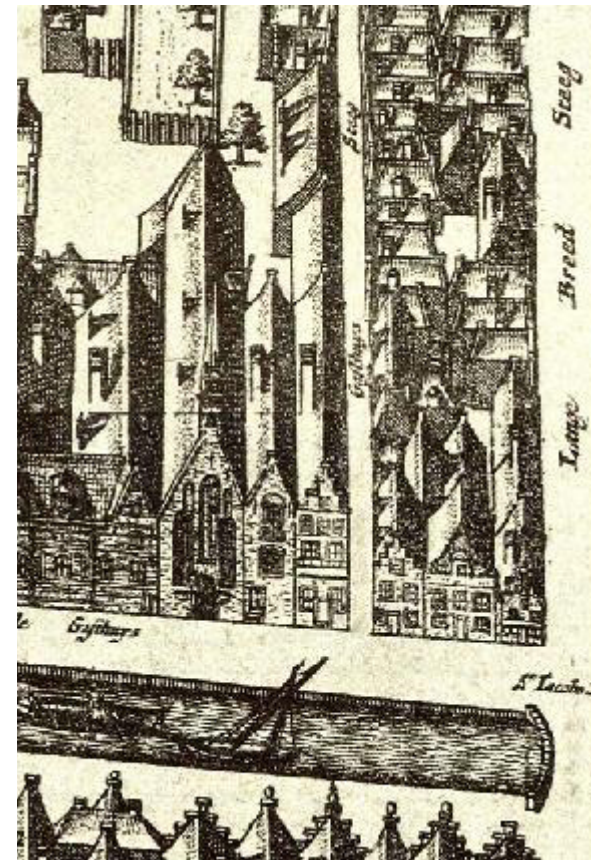
## Gasthuisplaats project site



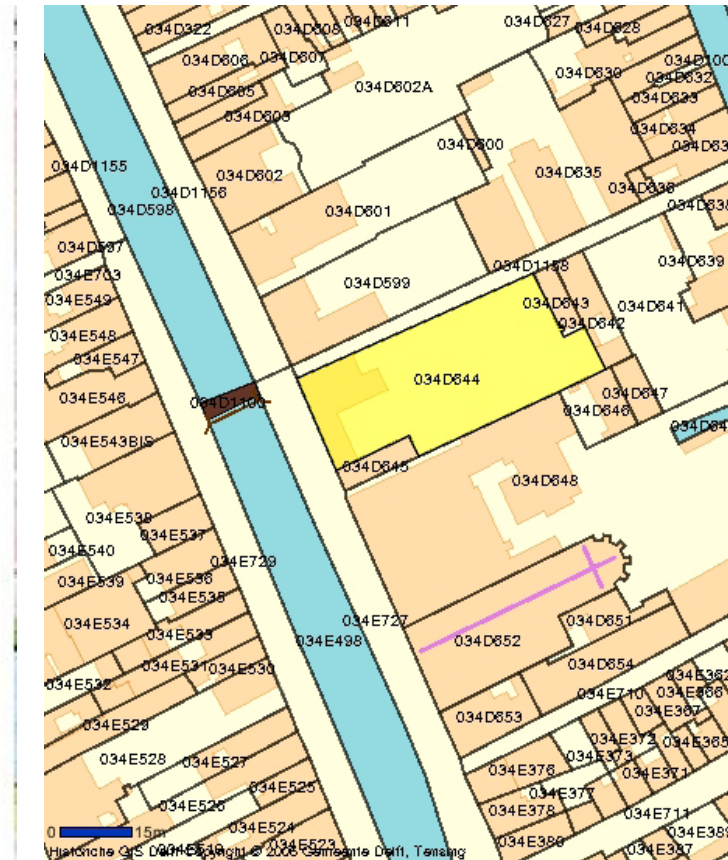




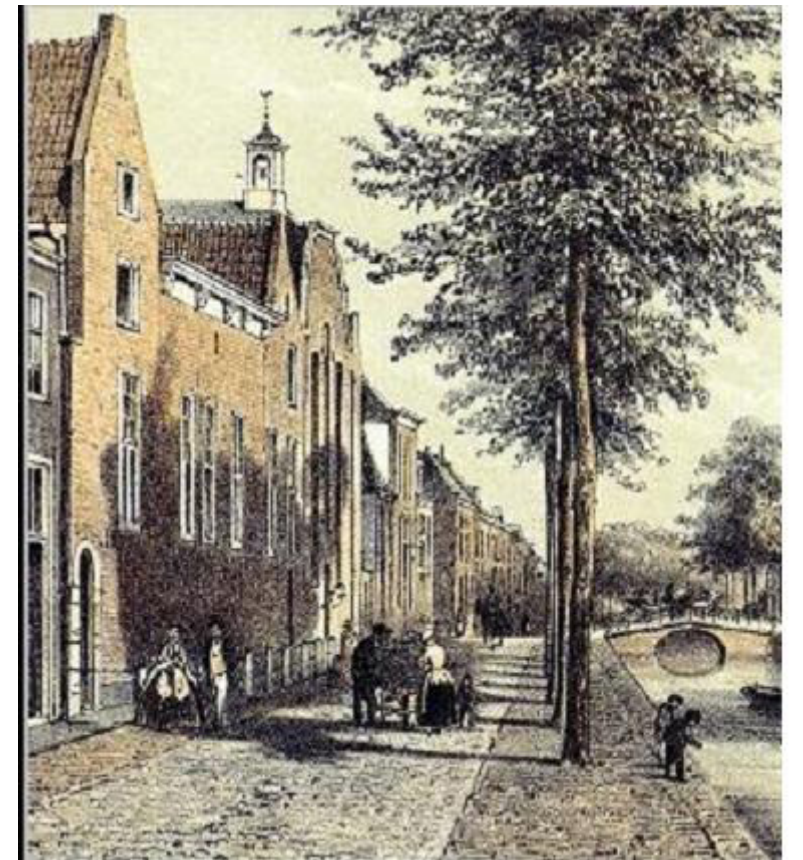
1263



1675



1832



around 1840





1840



2021





DELFT  
Gem. Ziekenhuis

6 MEI 1902

Dr. Trenkler Co., Leipzig. 18787

*Jean Elfferich Mem.  
Delft (Holland)*

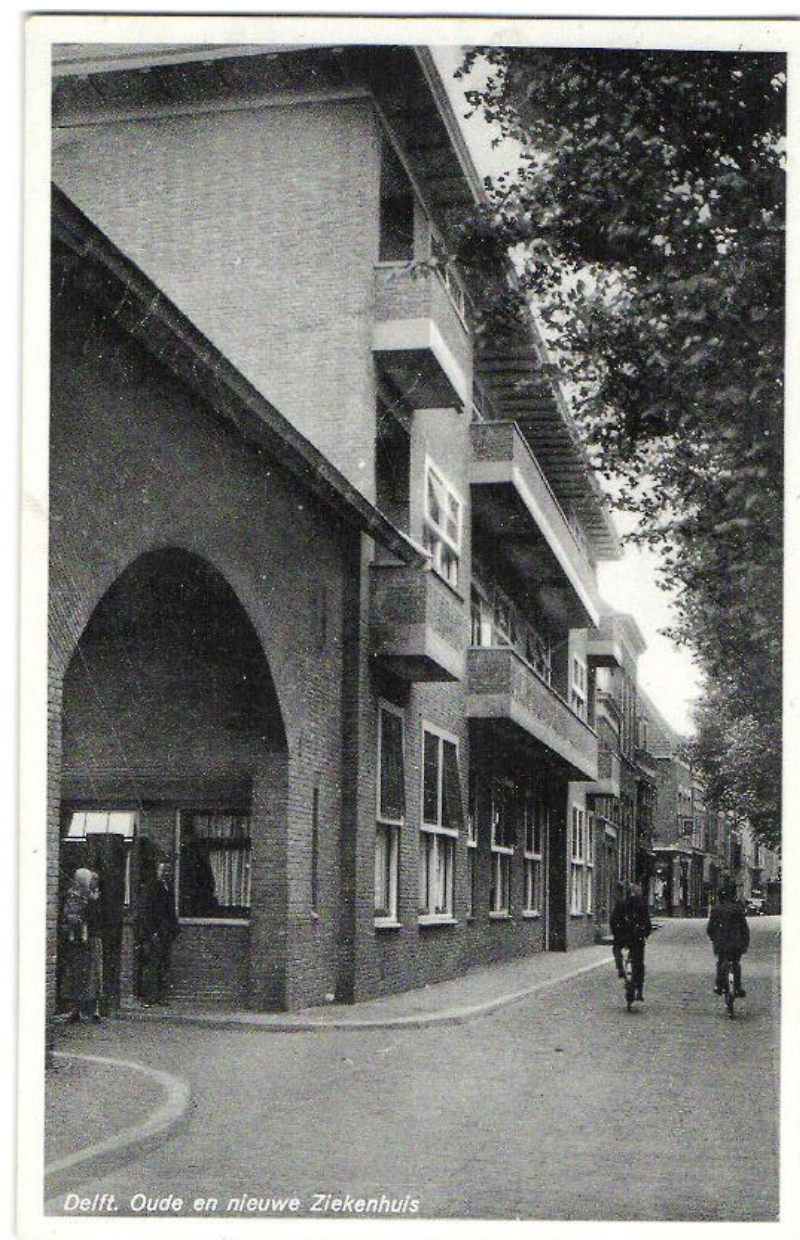
Gasthuisplaats 1902





Gasthuisplaats 1961  
 'Zusterhuis' with gate towards 'Het oude en nieuwe Gasthuis'





Gasthuisplaats 1964





Gasthuisplaats 2021





‘Portrait of current location’



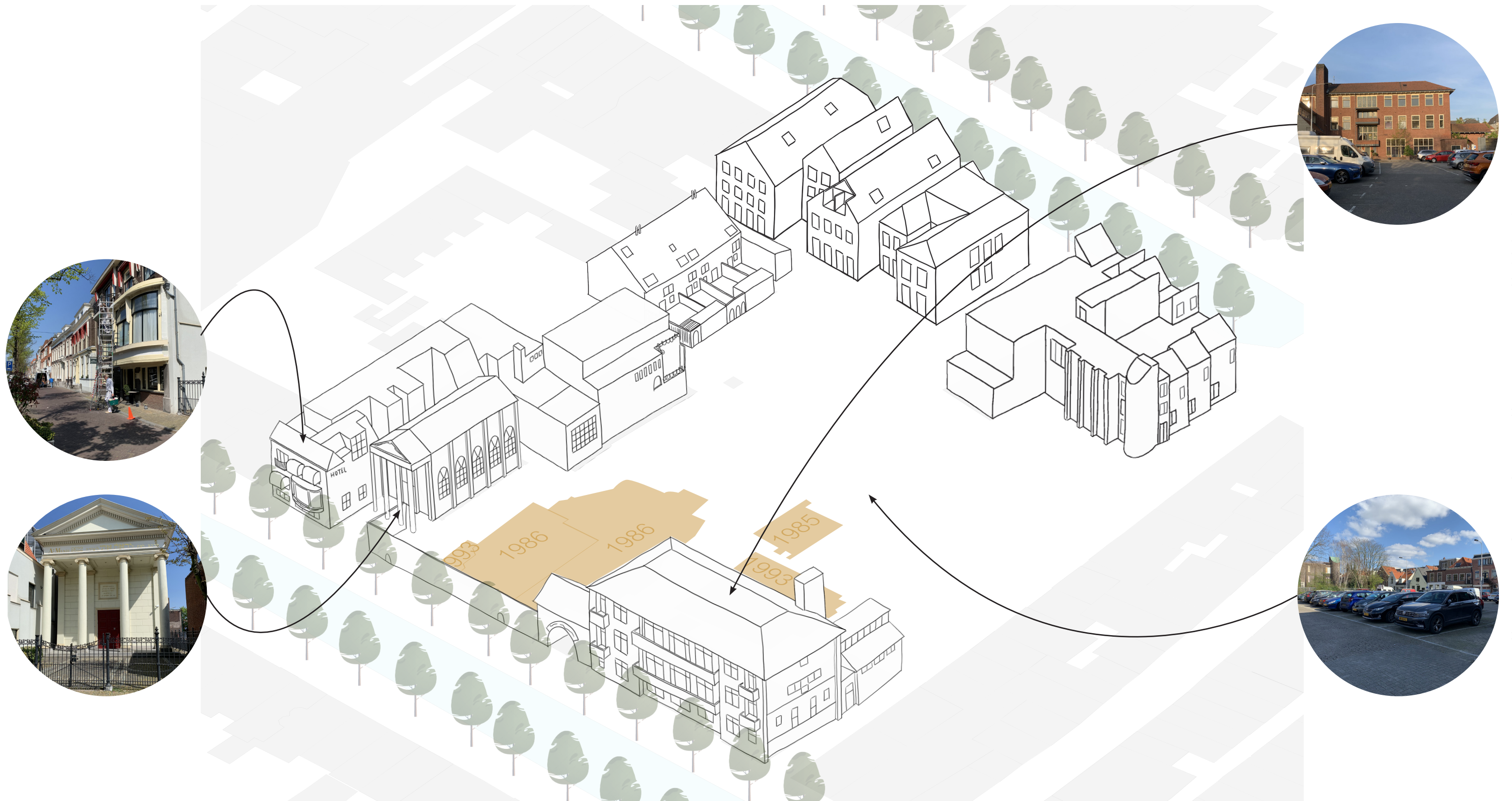


‘Portrait of current location’



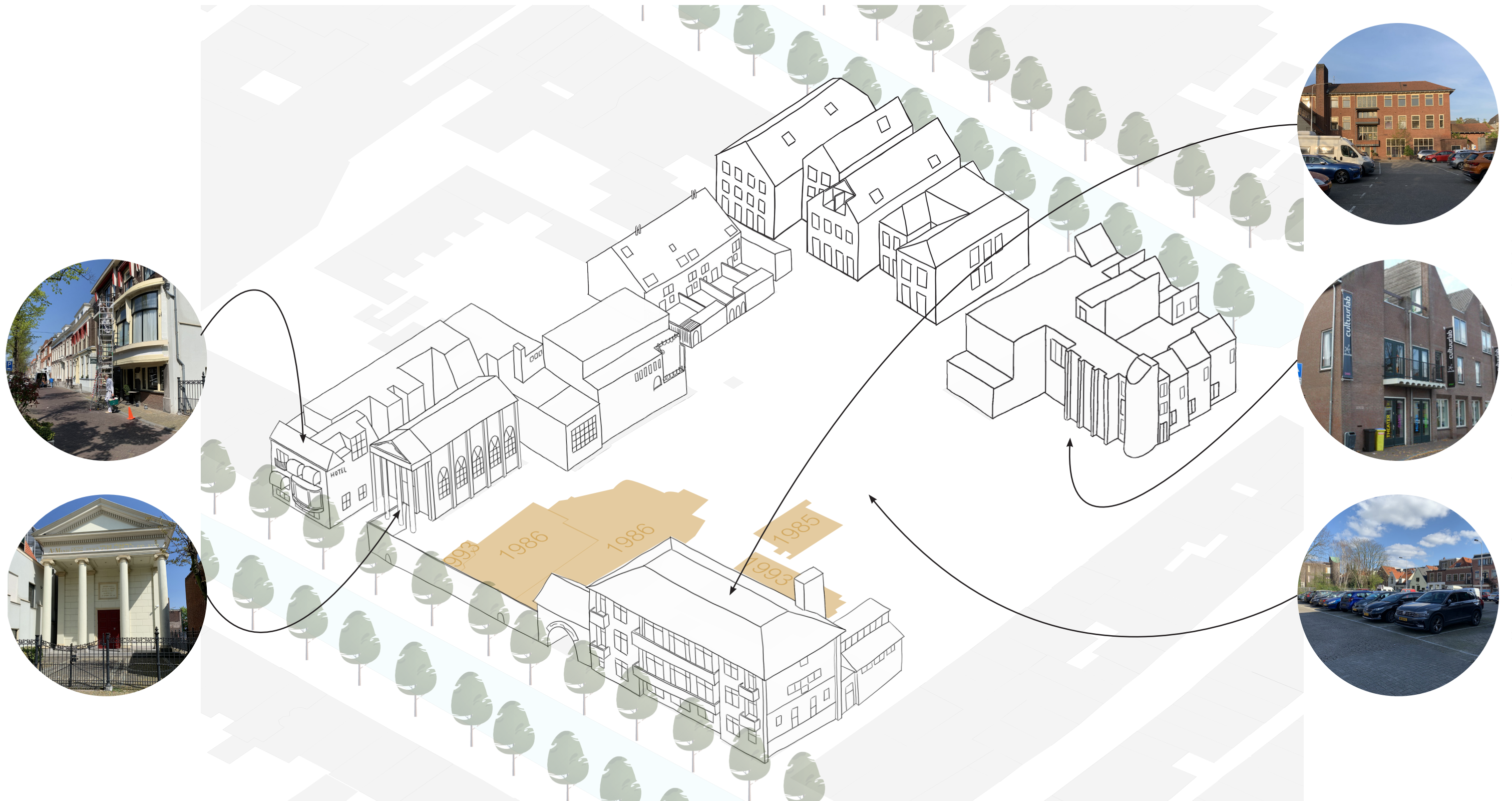
‘Portrait of current location’





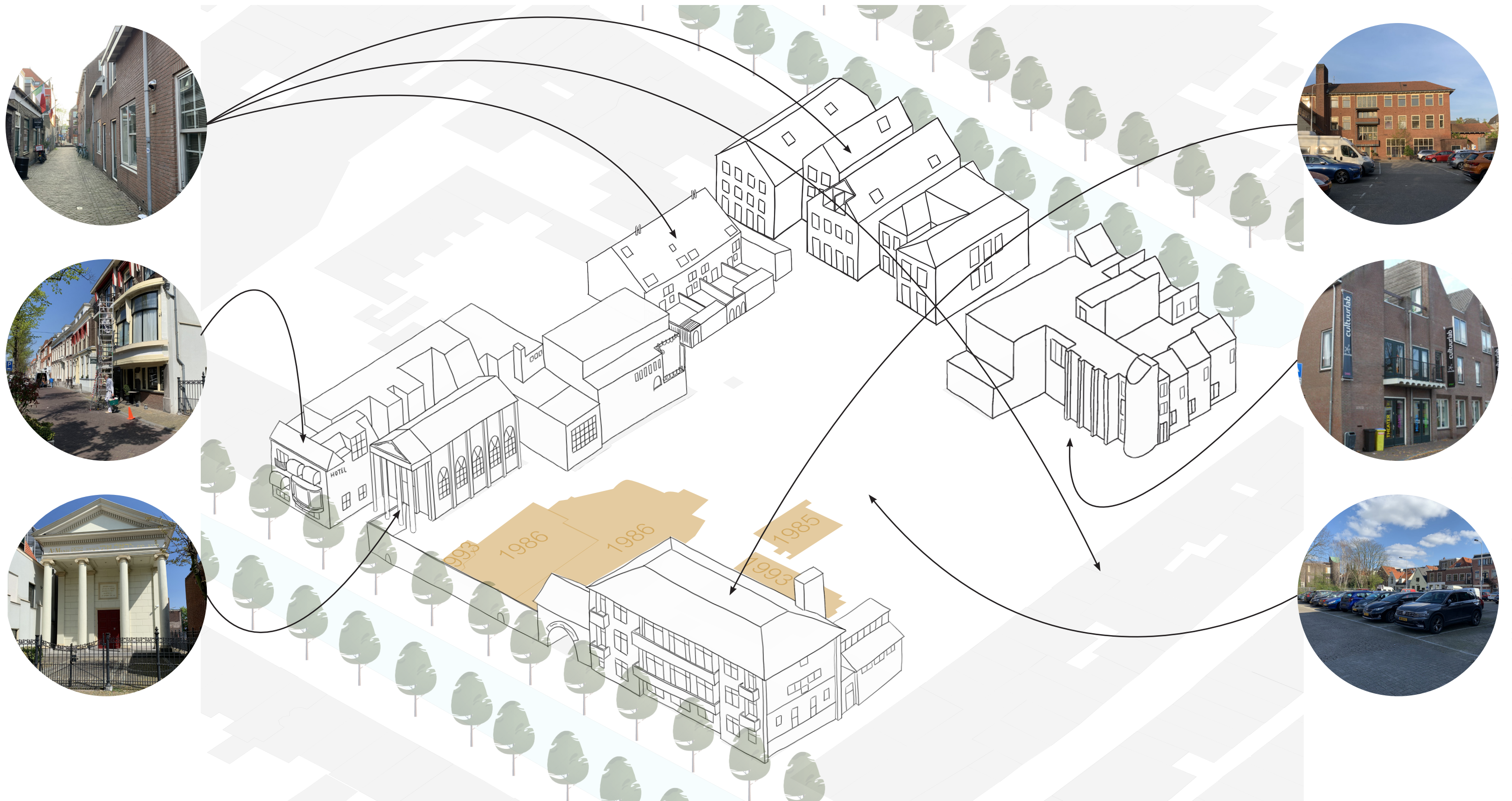
‘Portrait of current location’





‘Portrait of current location’





‘Portrait of current location’





Entrance gate Gasthuisplaats

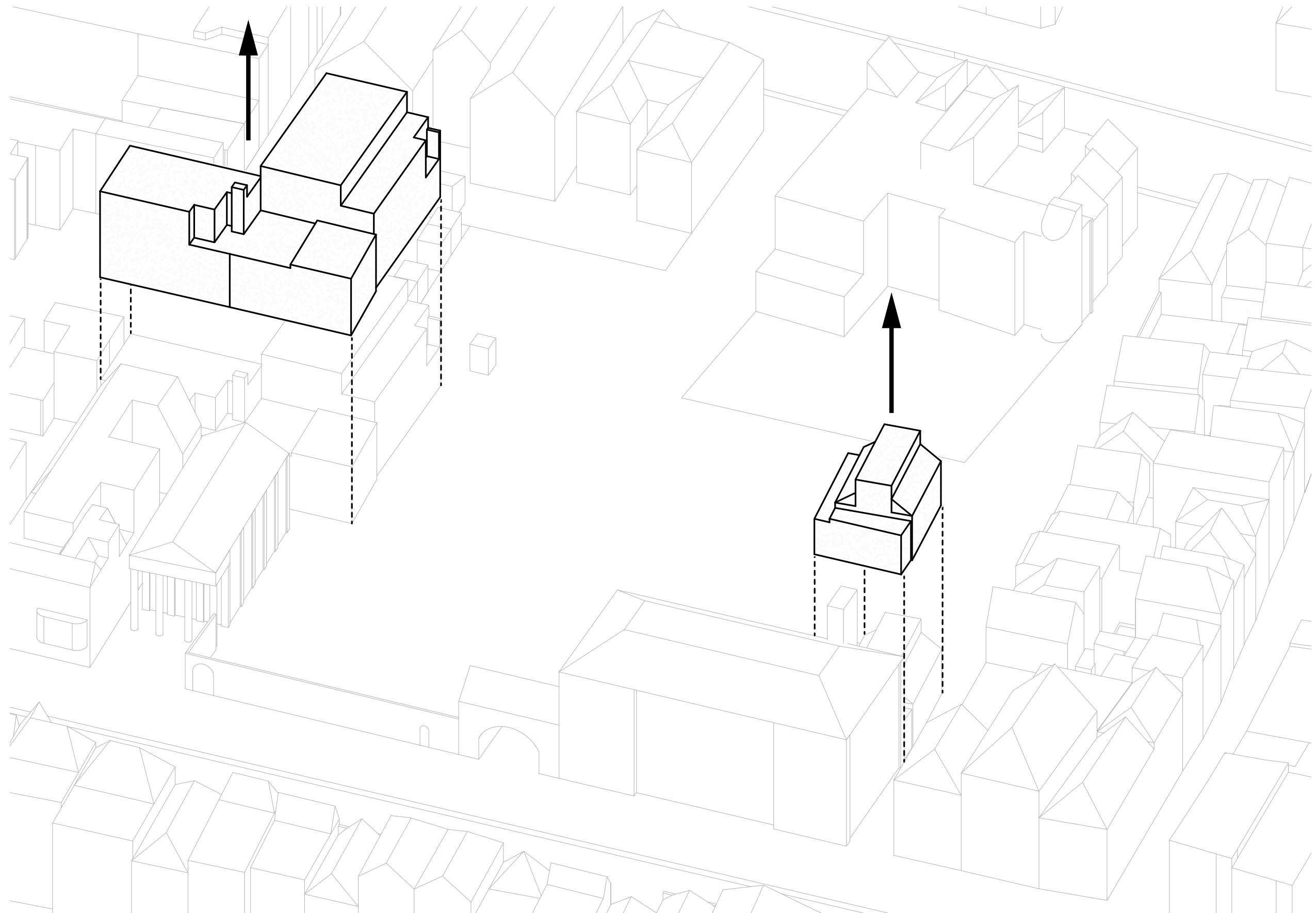




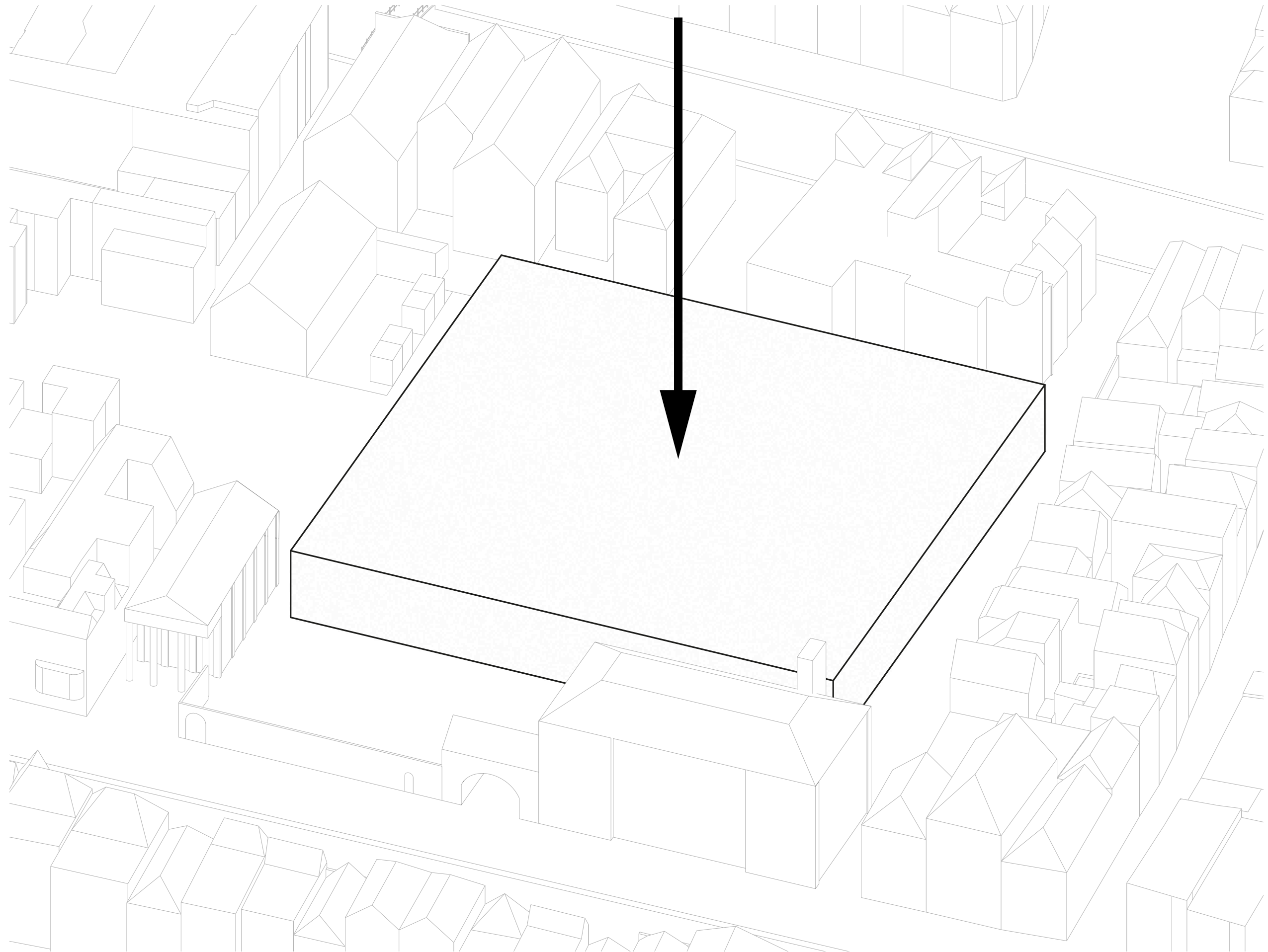
P5 // Ikebana Gallery School // Britt Derckx // 4281411

Current state Gasthuisplaats



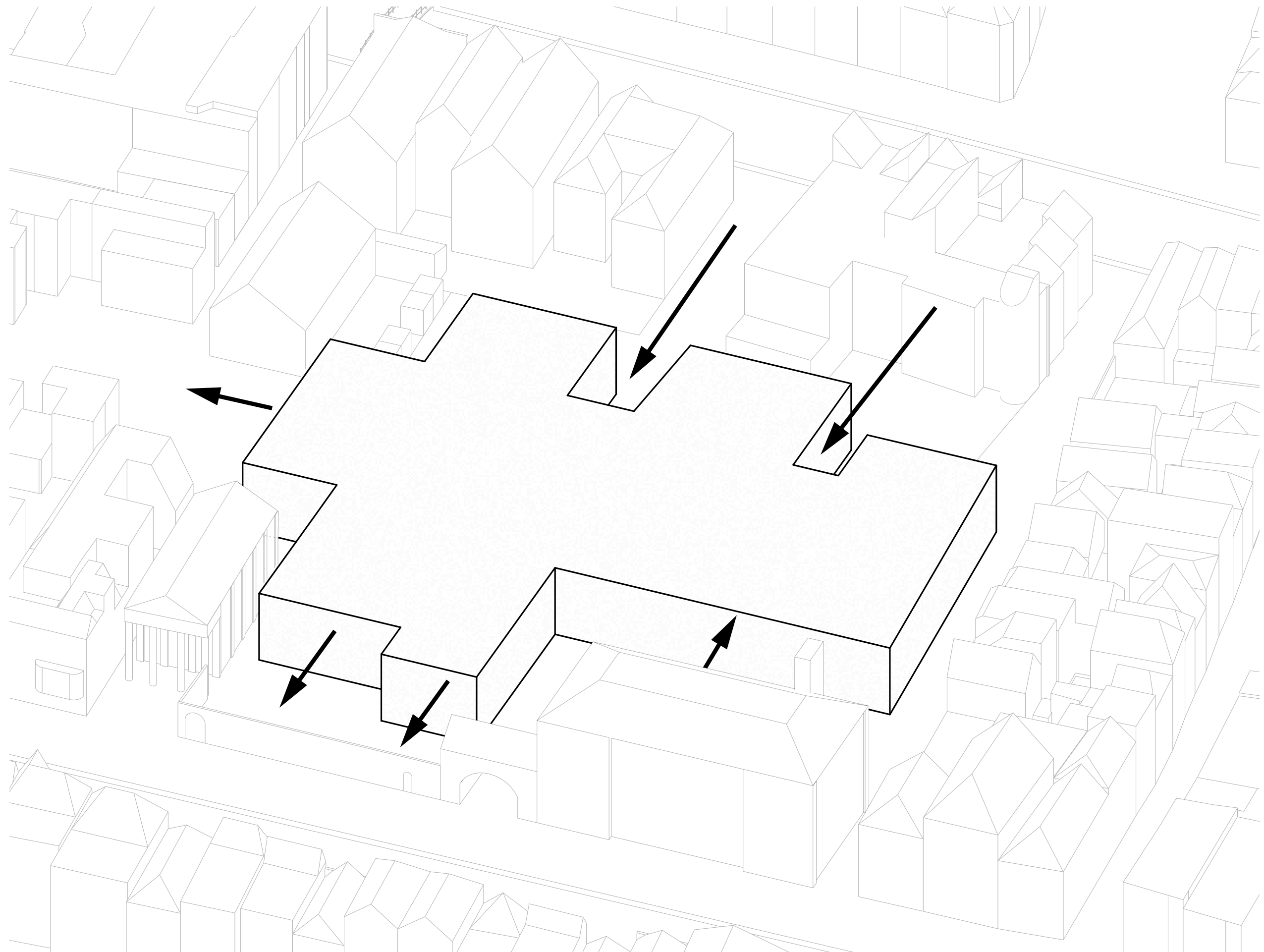


remove buildings from building site

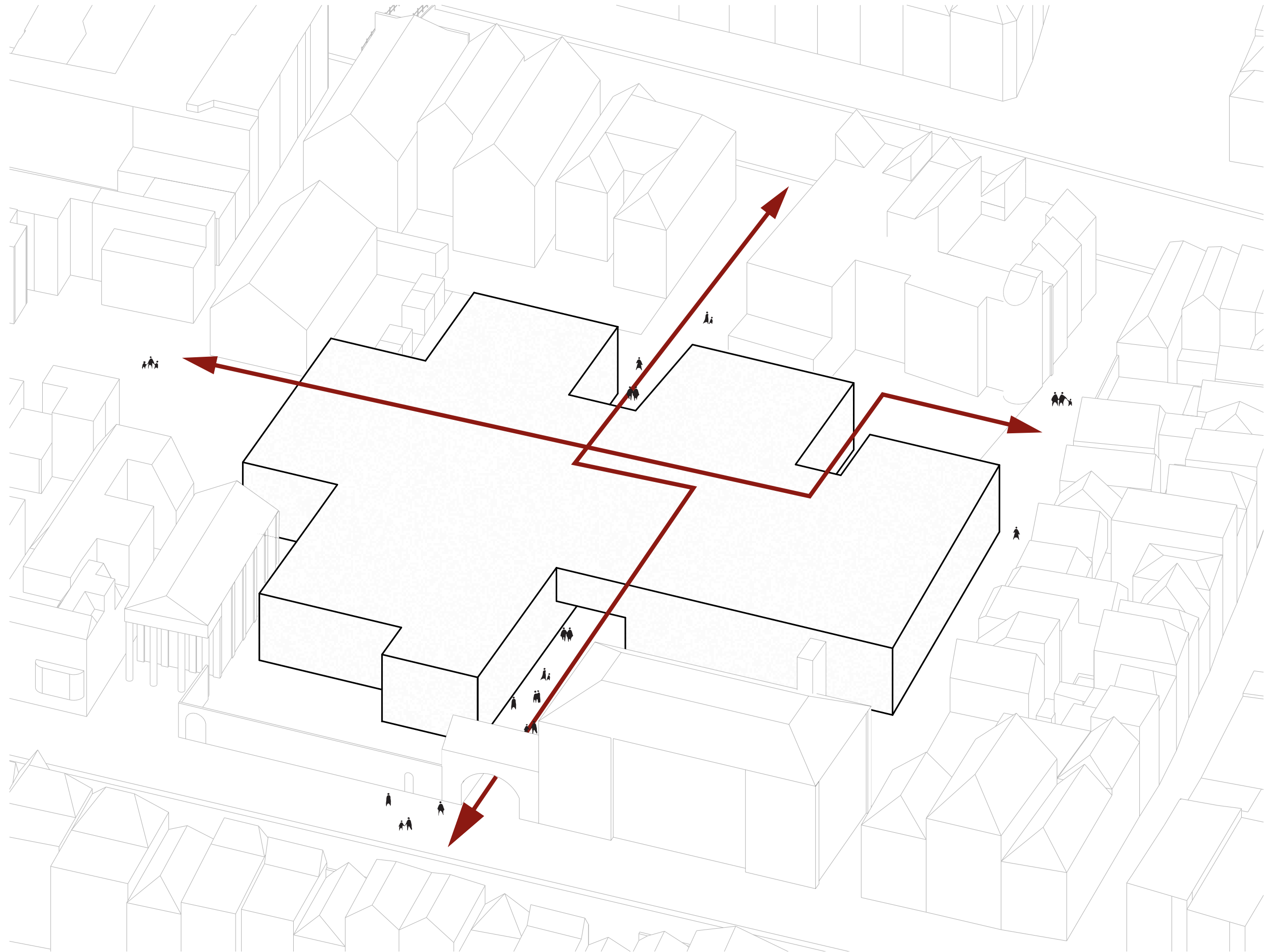


Place programme volume (2 layers of 4m)

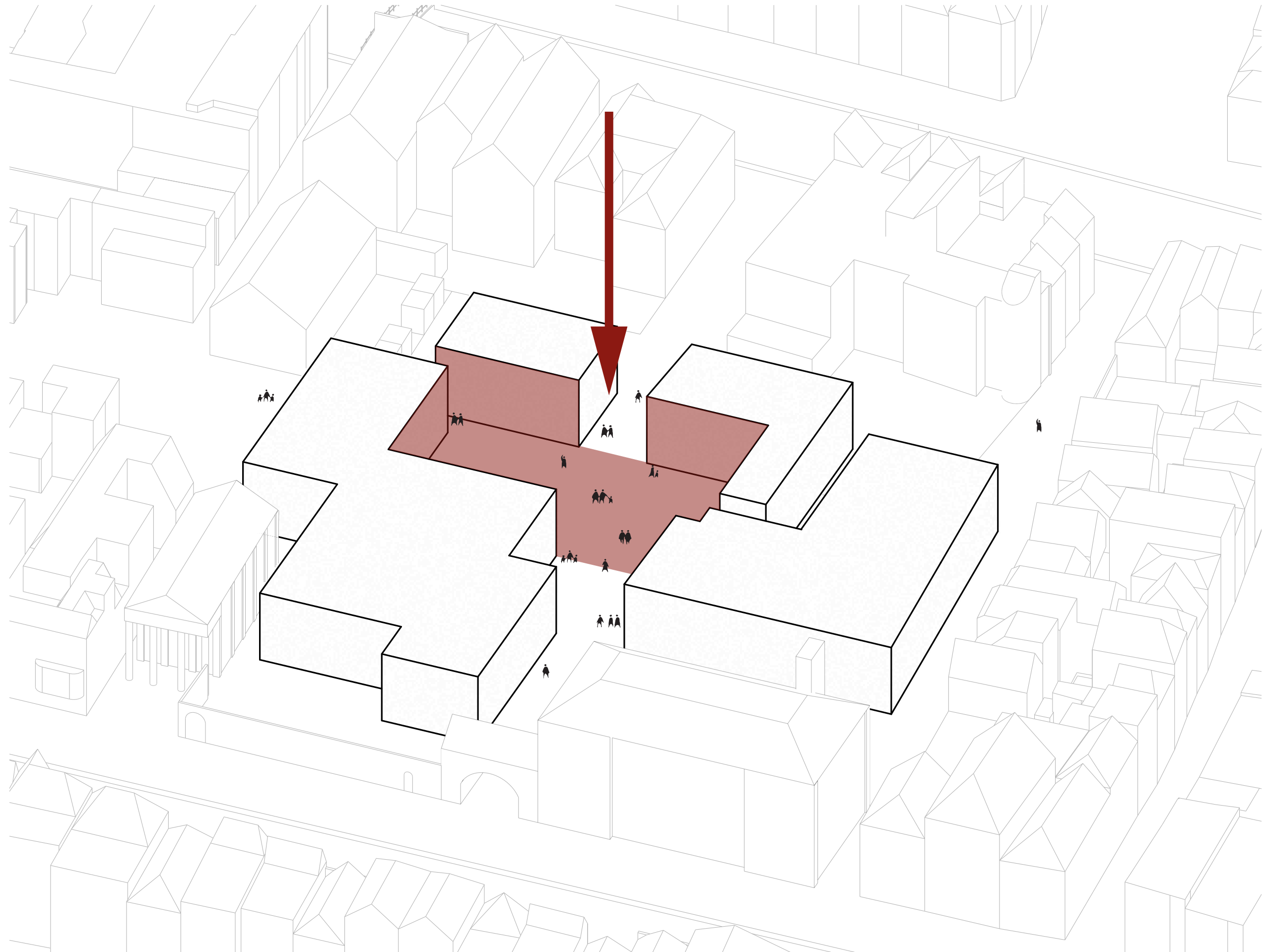




Building follows building lines and opens up towards spaces that provide entrances and greenery

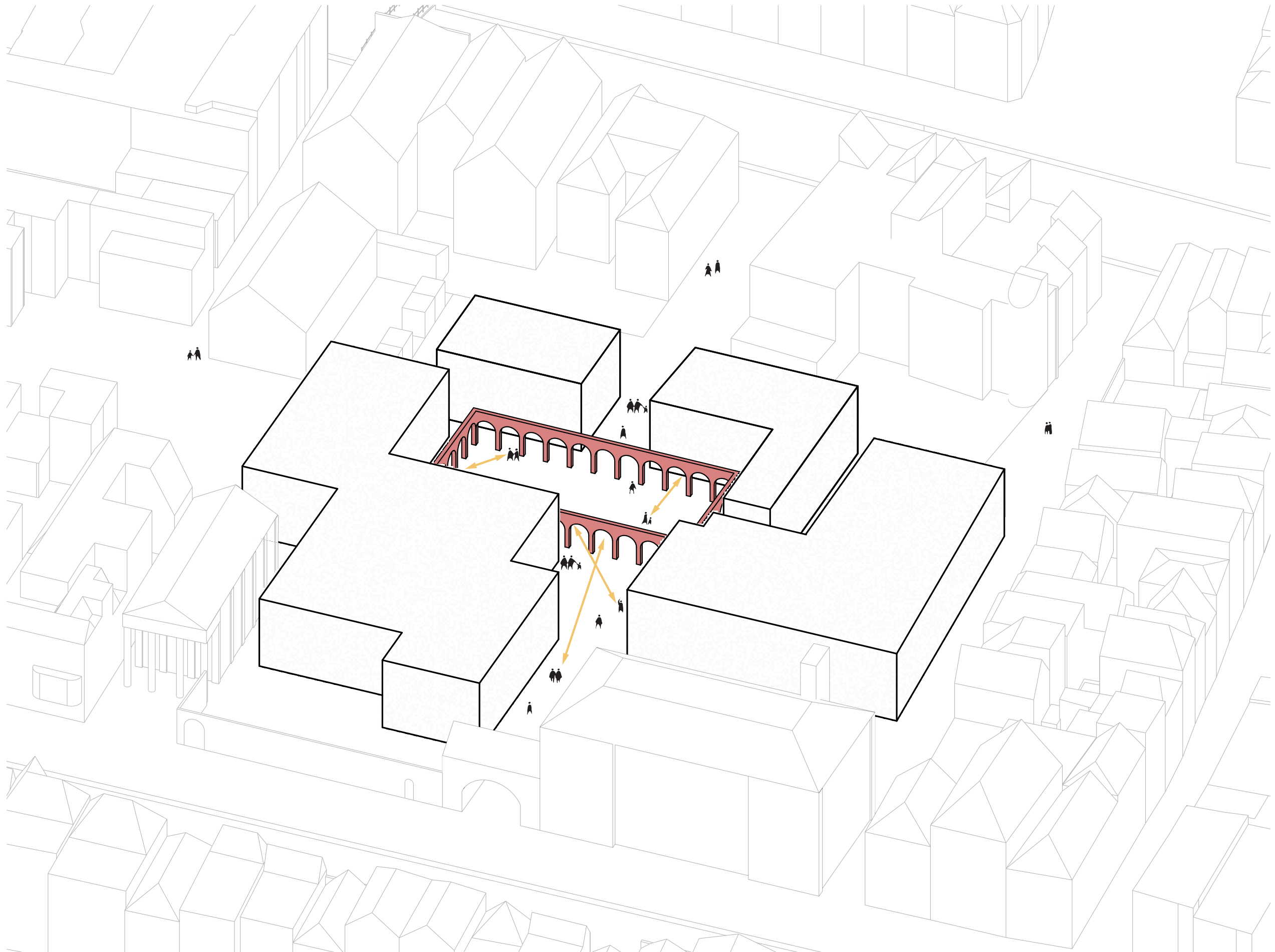


Introduce two public passages, opening up the volume on street level

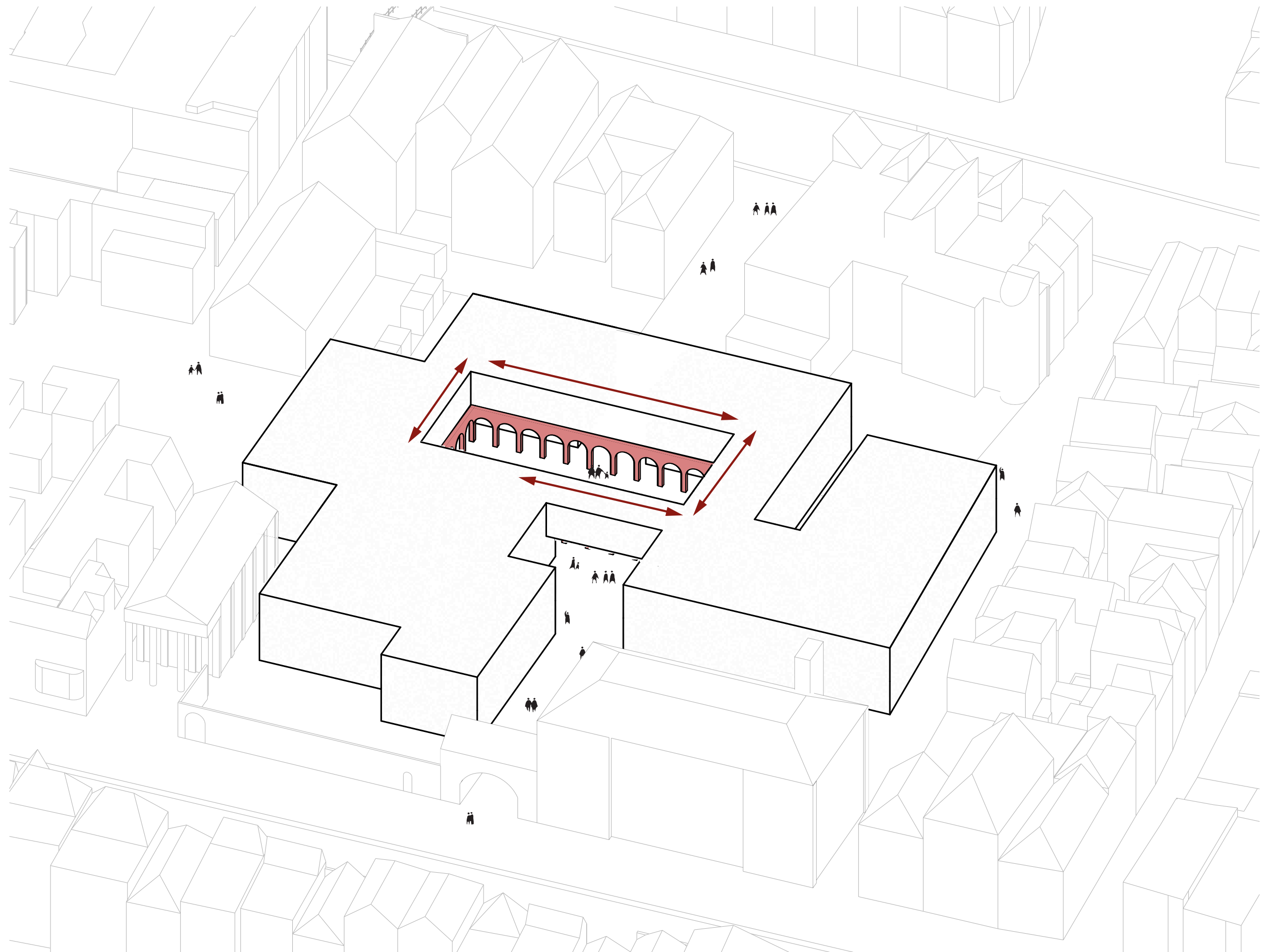


Create inner courtyard at the centre where passages meet

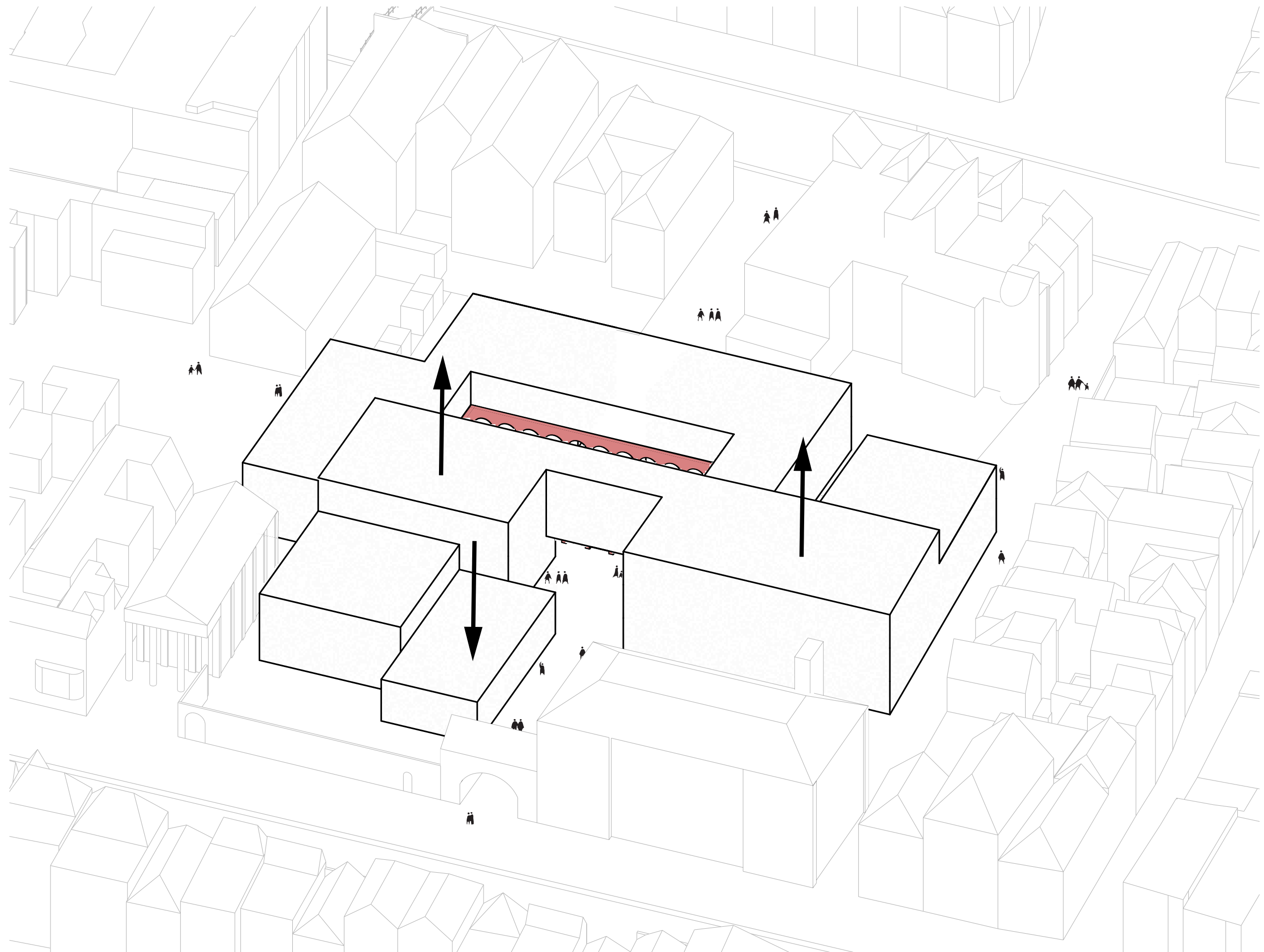




Ground floor opens up, functions as public face on street level, that shows and performs craft



Connect volumes on the first floor



Shaping volume according to functions, dialogues and surroundings





Delft Nolli 



Delft Nolli 

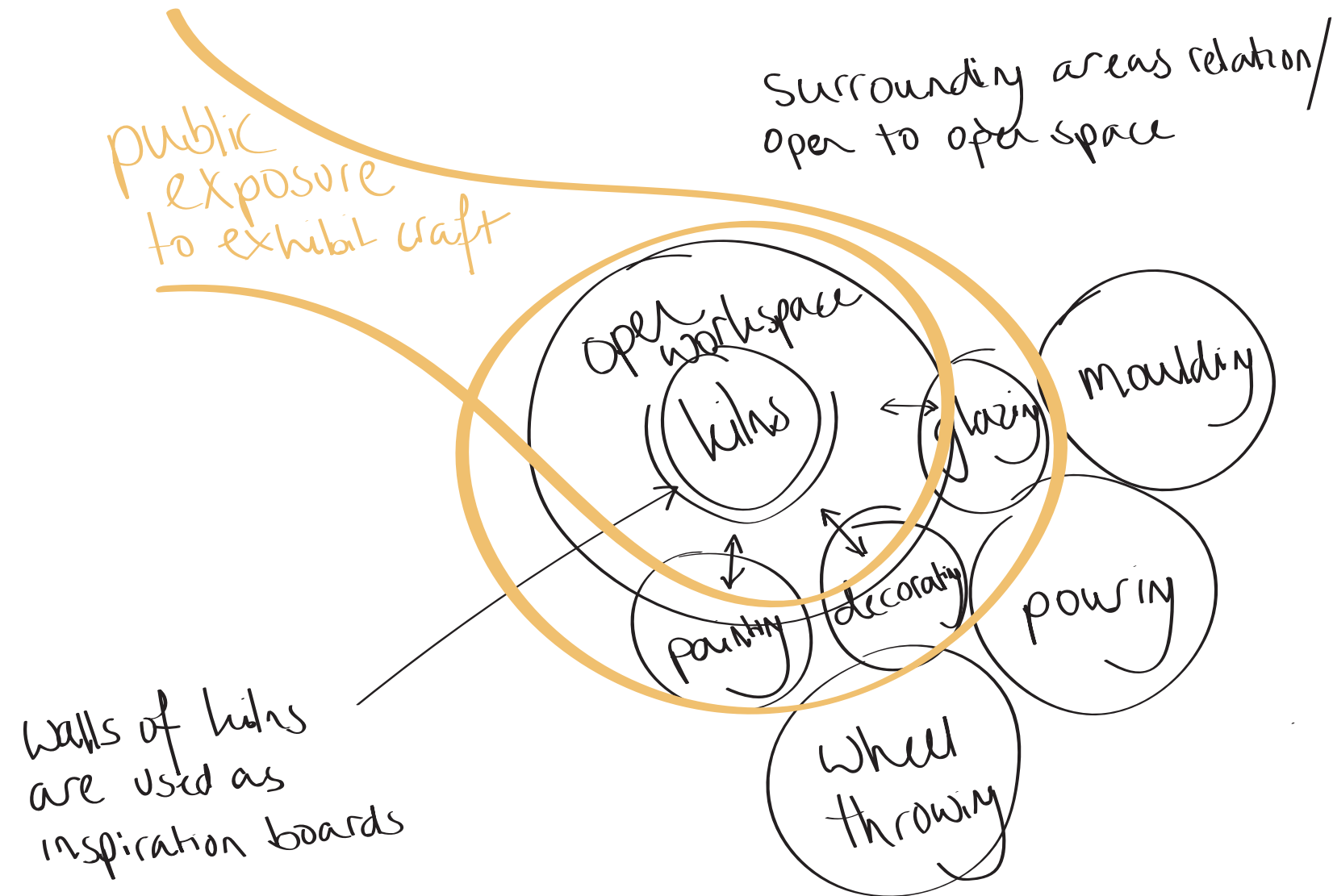
3



# Ikebana Gallery School

*design*





First sketch sequences and dialogues



Entrance gate Gasthuisplaats





- ① Drawing ateliers  
2 x 100m<sup>2</sup>
- ② Moulding rooms  
2 x 100m<sup>2</sup>
- ③ Wheel throwing studios  
50m<sup>2</sup> | 60m<sup>2</sup> | 100m<sup>2</sup>





Wheel throwing studio





- ① Formal entrance  
70m<sup>2</sup>
- ② Craft shop  
50m<sup>2</sup>
- ③ Exposition space  
20m<sup>2</sup>
- ④ Café/Canteen  
165m<sup>2</sup>





Formal main entrance





- ① Informal entrance students  
220m<sup>2</sup>
- ② Artist's studios  
3 x 35m<sup>2</sup>
- ③ Student's work storage  
45m<sup>2</sup>





**1** Kilns  
 130m<sup>2</sup>

**2** Material storage  
 and preparation  
 140m<sup>2</sup>





Courtyard









**1** Informal study space  
 285m<sup>2</sup>





Informal study & meeting space





**1** Pouring room  
 2 x 50m<sup>2</sup>





Pouring mezzanine along hallway





- ① Chemistry classroom  
90m<sup>2</sup>
- ② Dean and teachers  
45m<sup>2</sup>
- ③ Teacher's informal  
meeting room  
45m<sup>2</sup>
- ④ Theory classroom  
45m<sup>2</sup>
- ⑤ Computer/3D classroom  
65m<sup>2</sup>
- ⑥ Meeting room  
20m<sup>2</sup>
- ⑦ Tools, equipment, materials  
40m<sup>2</sup>





Handbuilding and sculpture studio

① Big tables, open workshop  
180m<sup>2</sup>

② Small tables  
150m<sup>2</sup>





Handbuilding and sculpture studio





- ① Glazing booth  
45m<sup>2</sup>
- ② Painting room  
100m<sup>2</sup>
- ③ Critique, presentation and  
exhibition space  
65m<sup>2</sup>

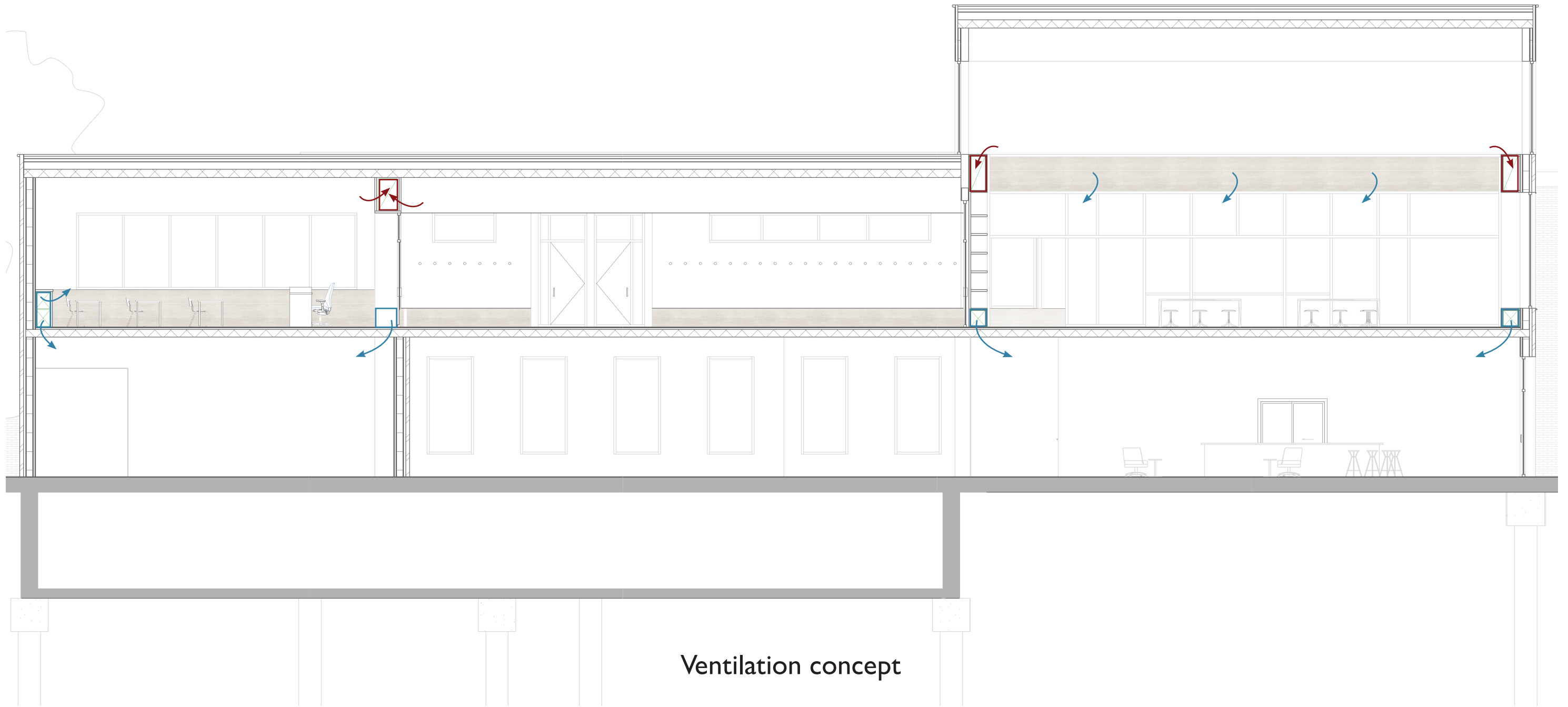




Hallway between handbuilding studio and informal space

1

2



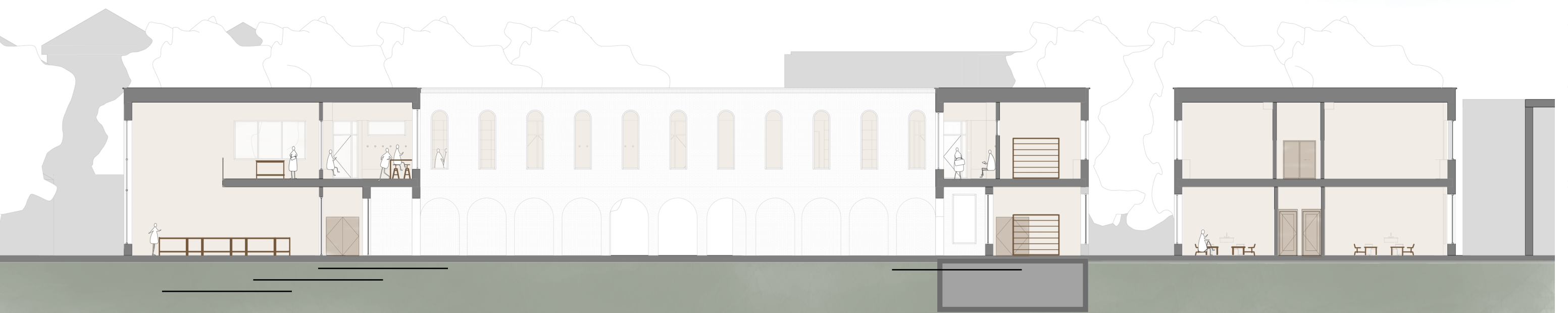
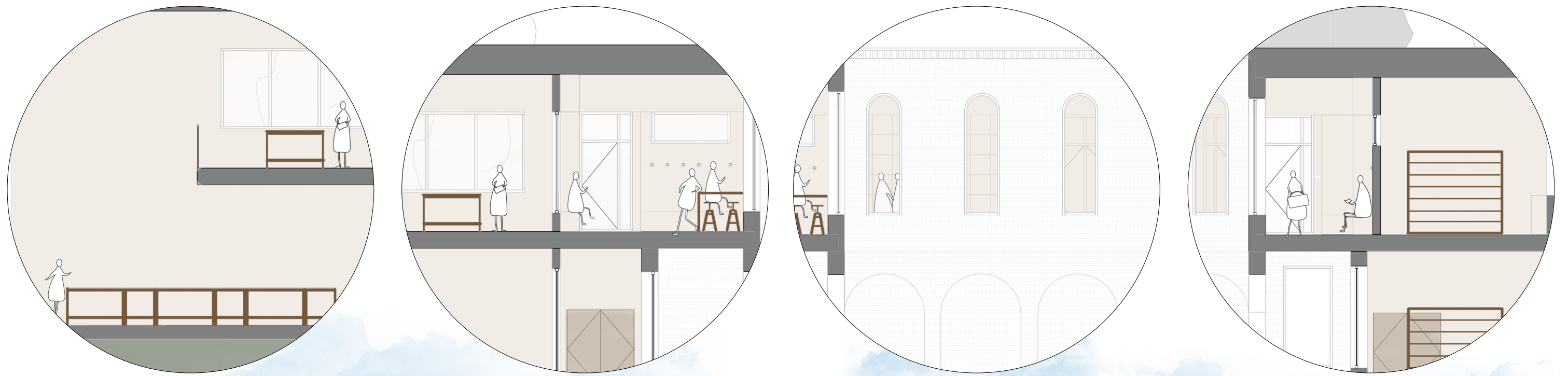
Ventilation concept





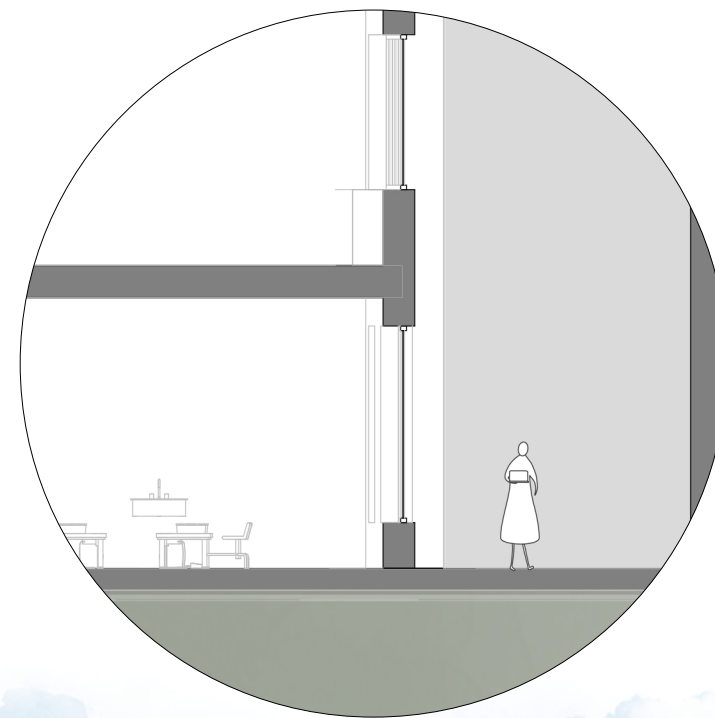
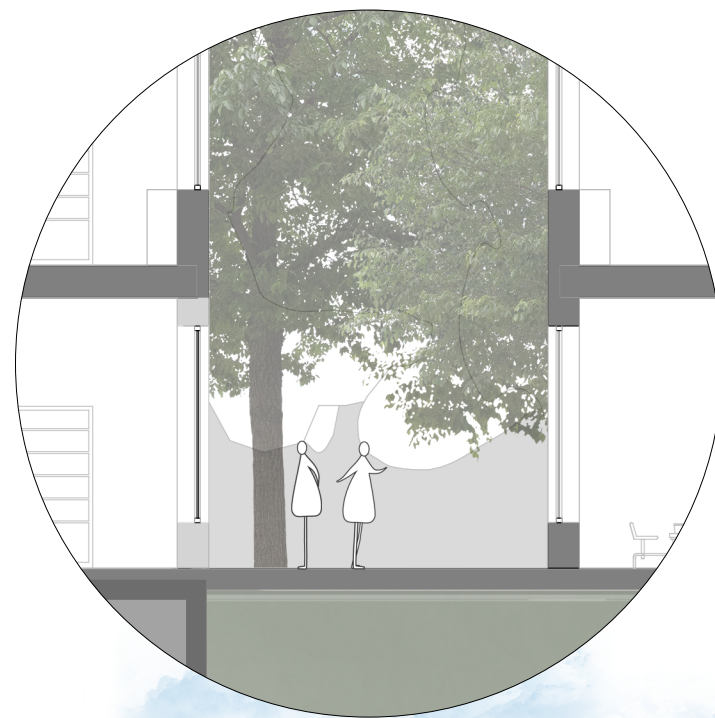
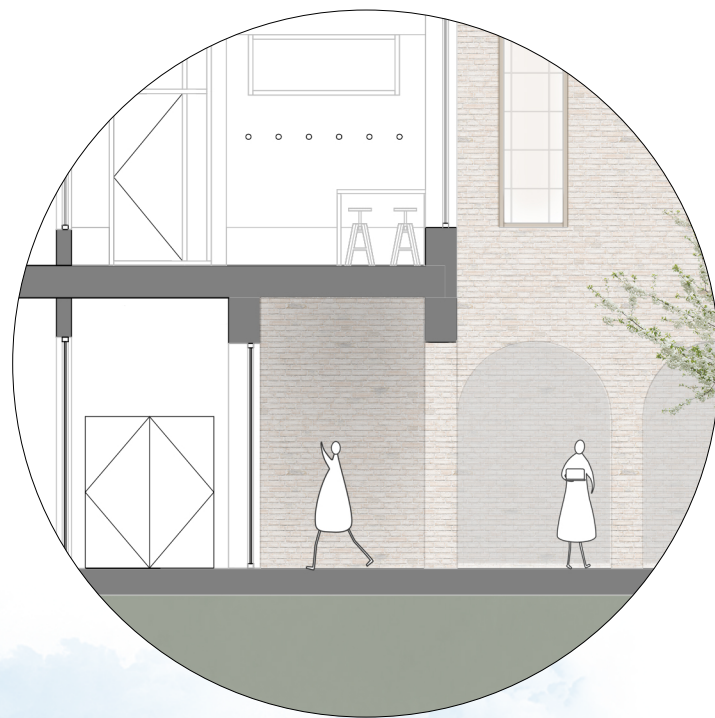
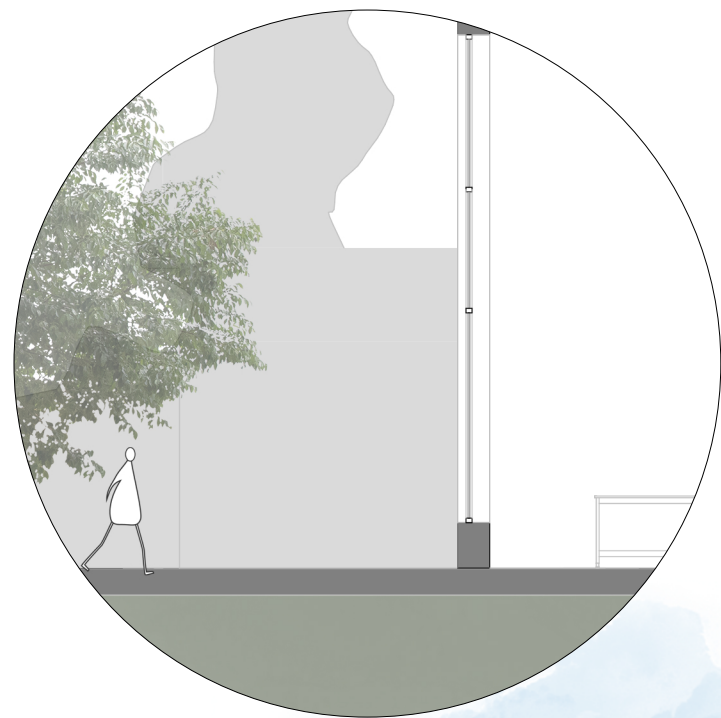
Meeting space along courtyard





Interior sequence and dialogues





Exterior sequence and dialogues

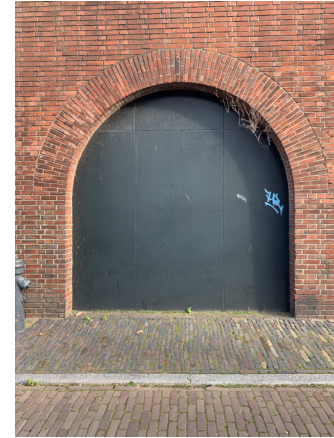


# 4



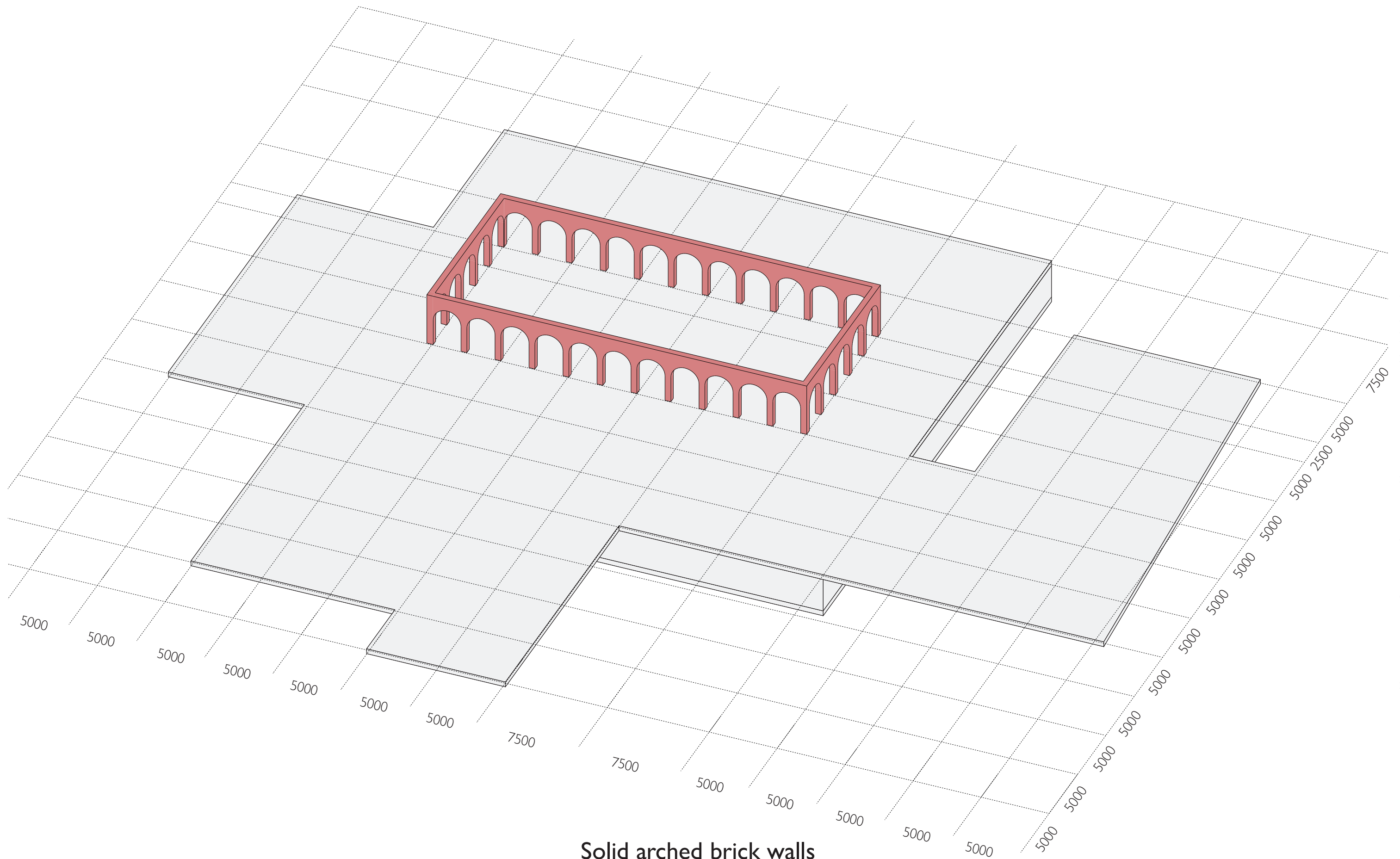
## Structural concept





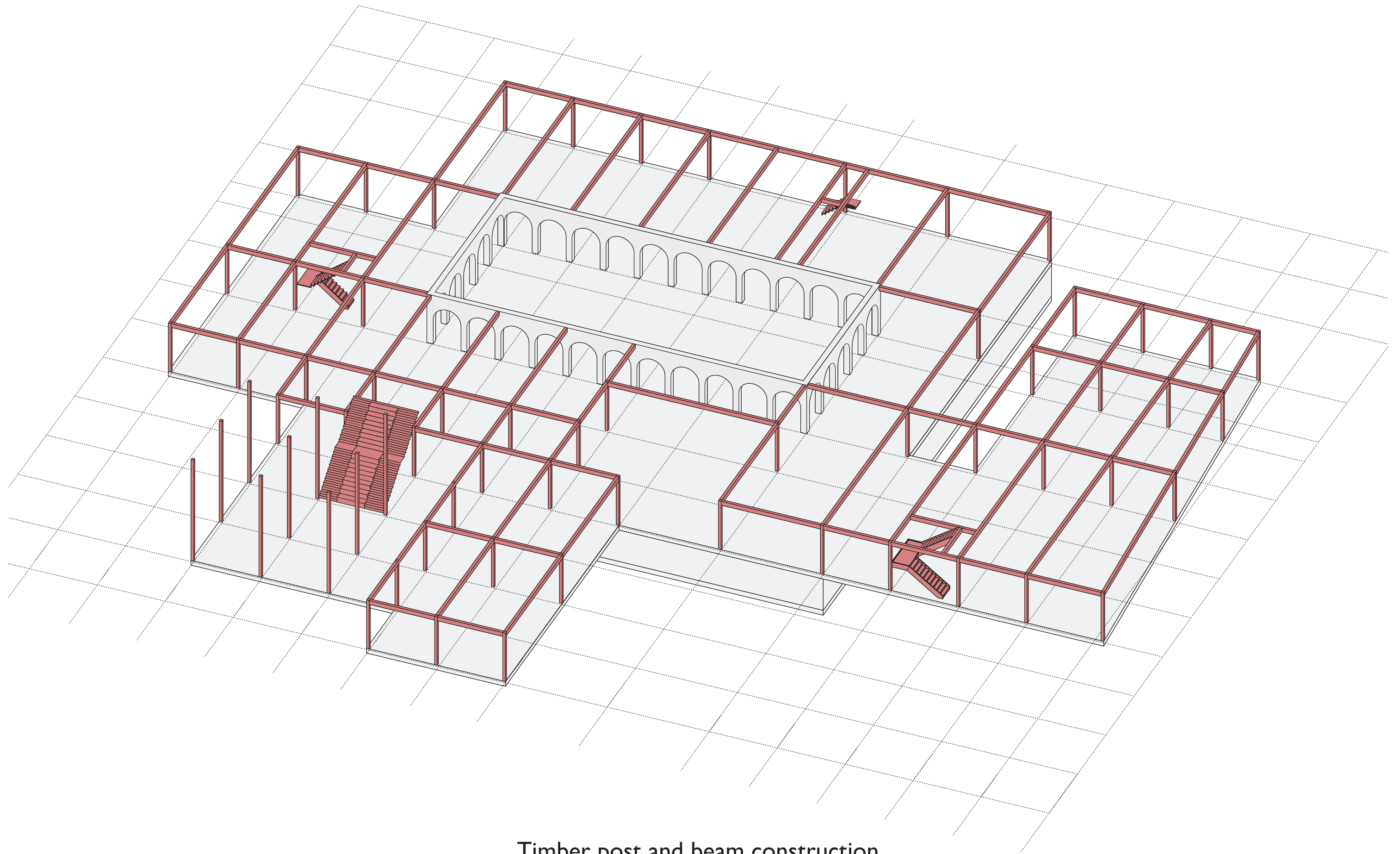
Genius Loci



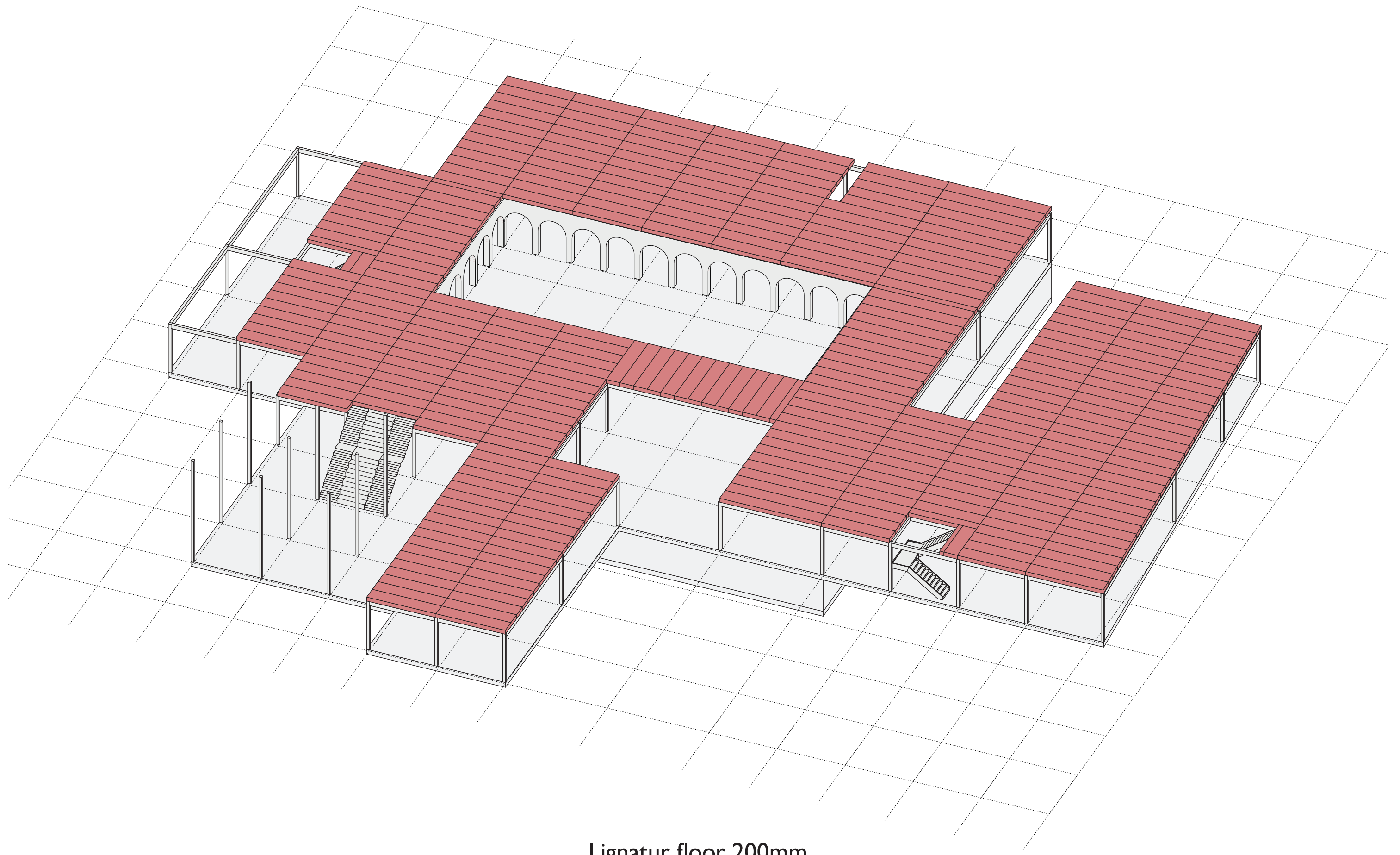


Solid arched brick walls  
on 200 mm concrete foundation and  
basement on concrete piles



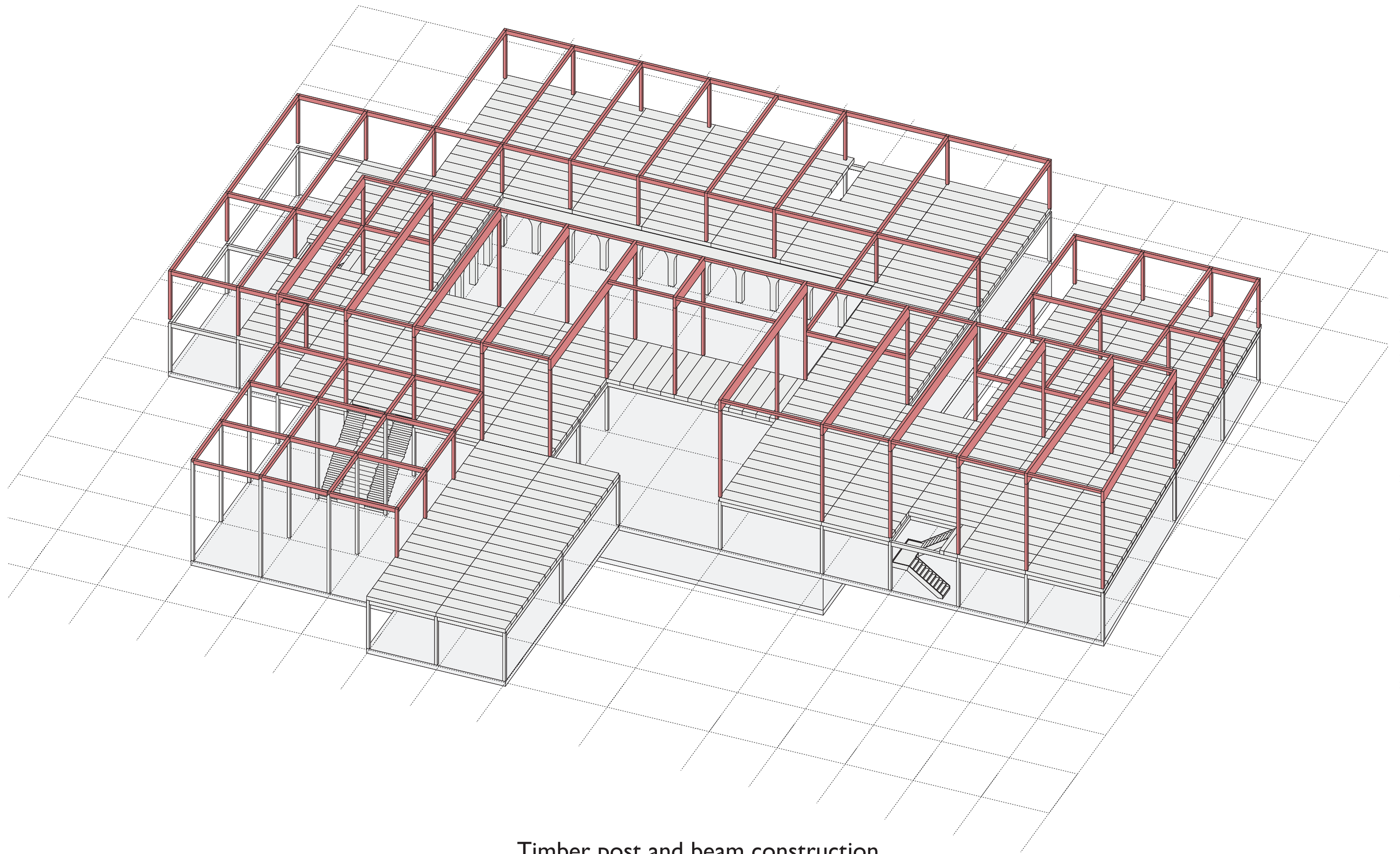


Timber post and beam construction  
200x200

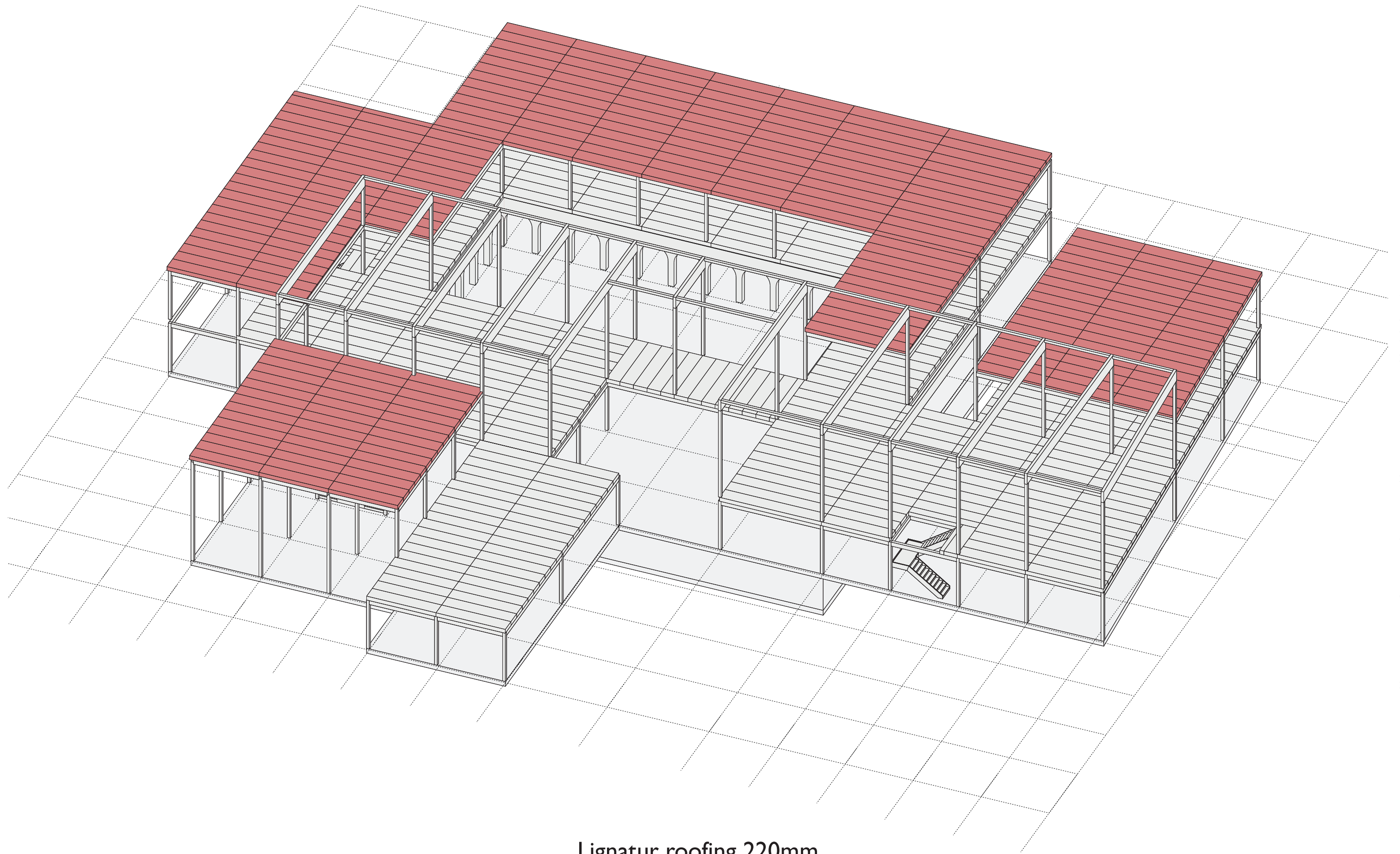


Lignatur floor 200mm  
first floor and partly roofing  
works as rigid element



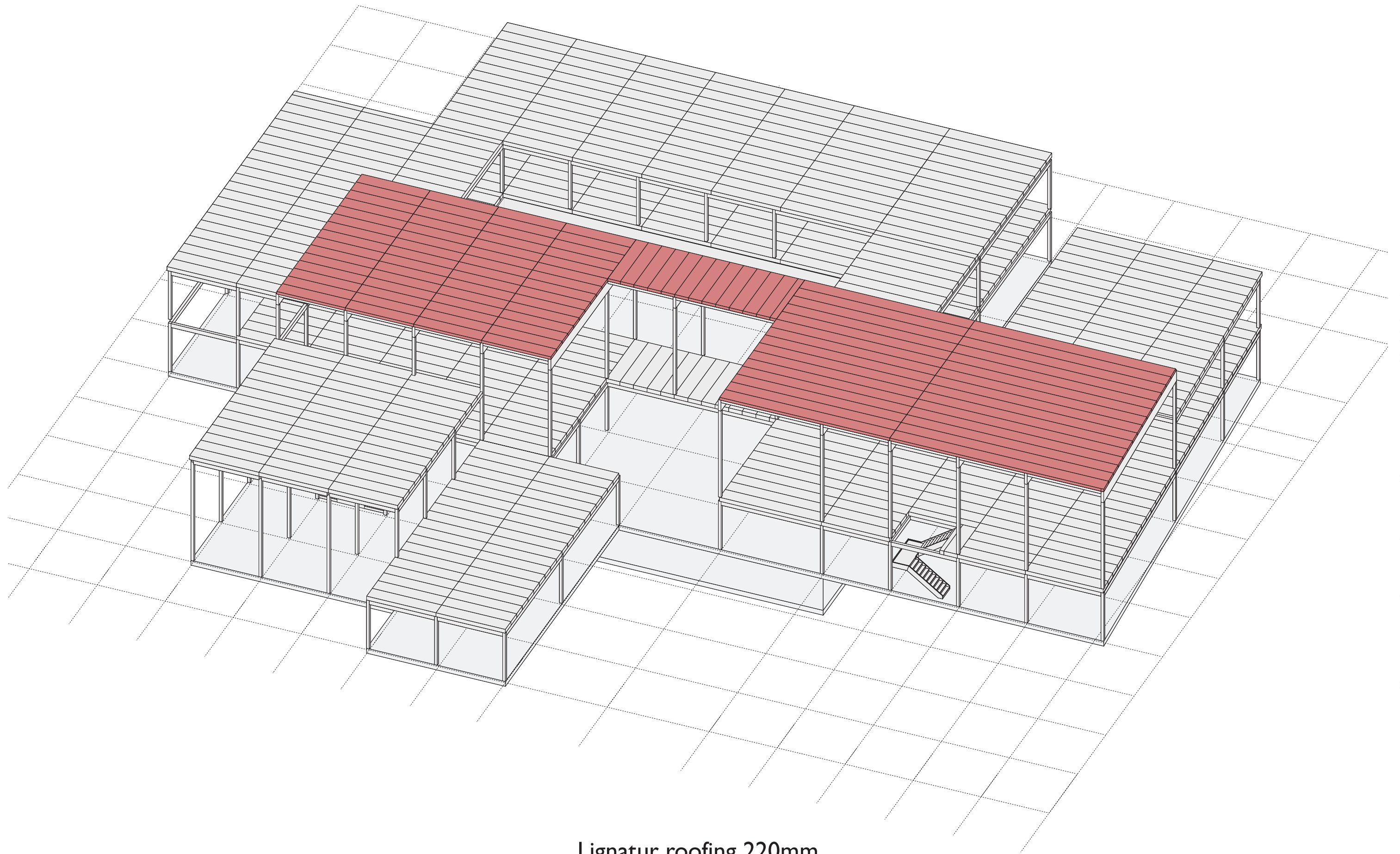


Timber post and beam construction  
200x200  
Baubauche hardwood portals 900x200, 200x200 mm

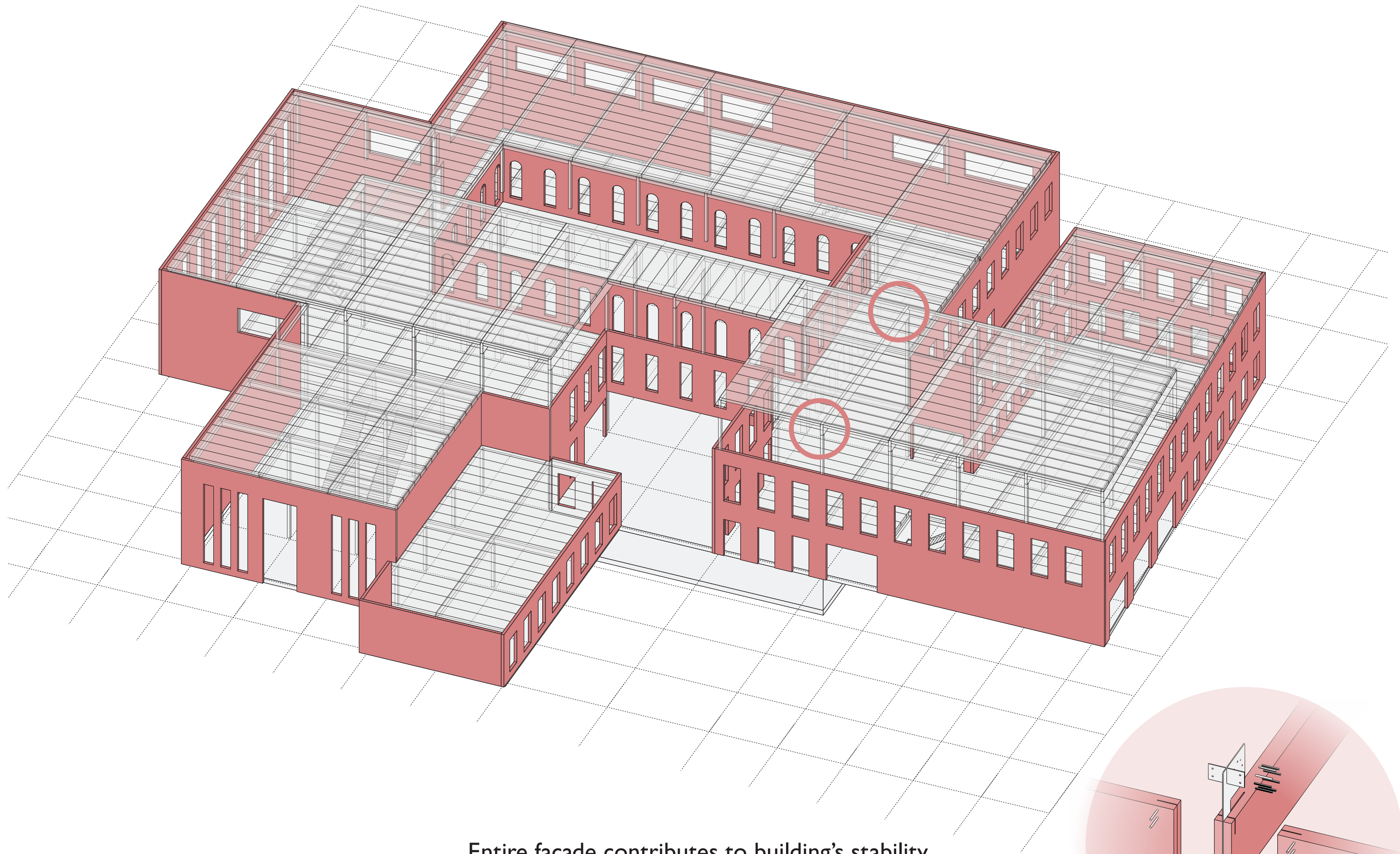


Lignatur roofing 220mm  
second floor  
works as rigid element

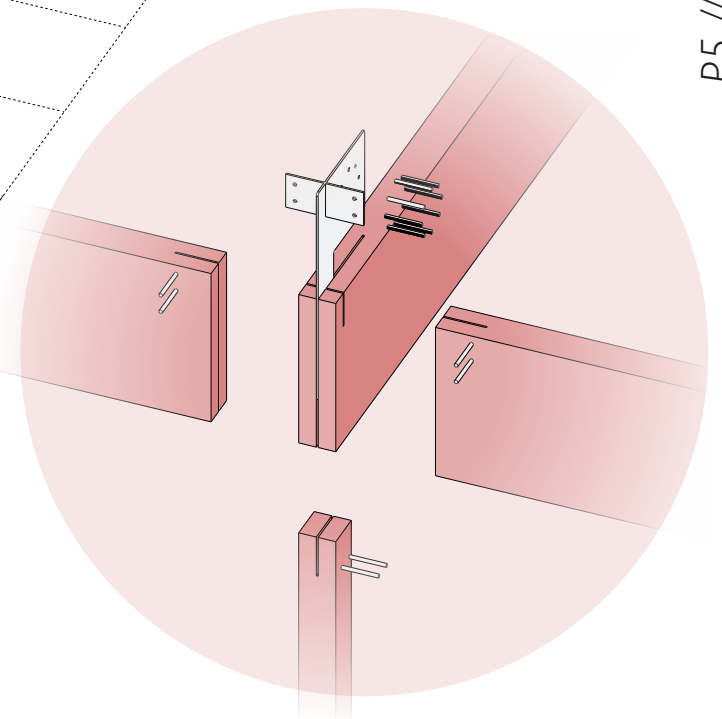




Lignatur roofing 220mm  
third floor  
works as rigid element



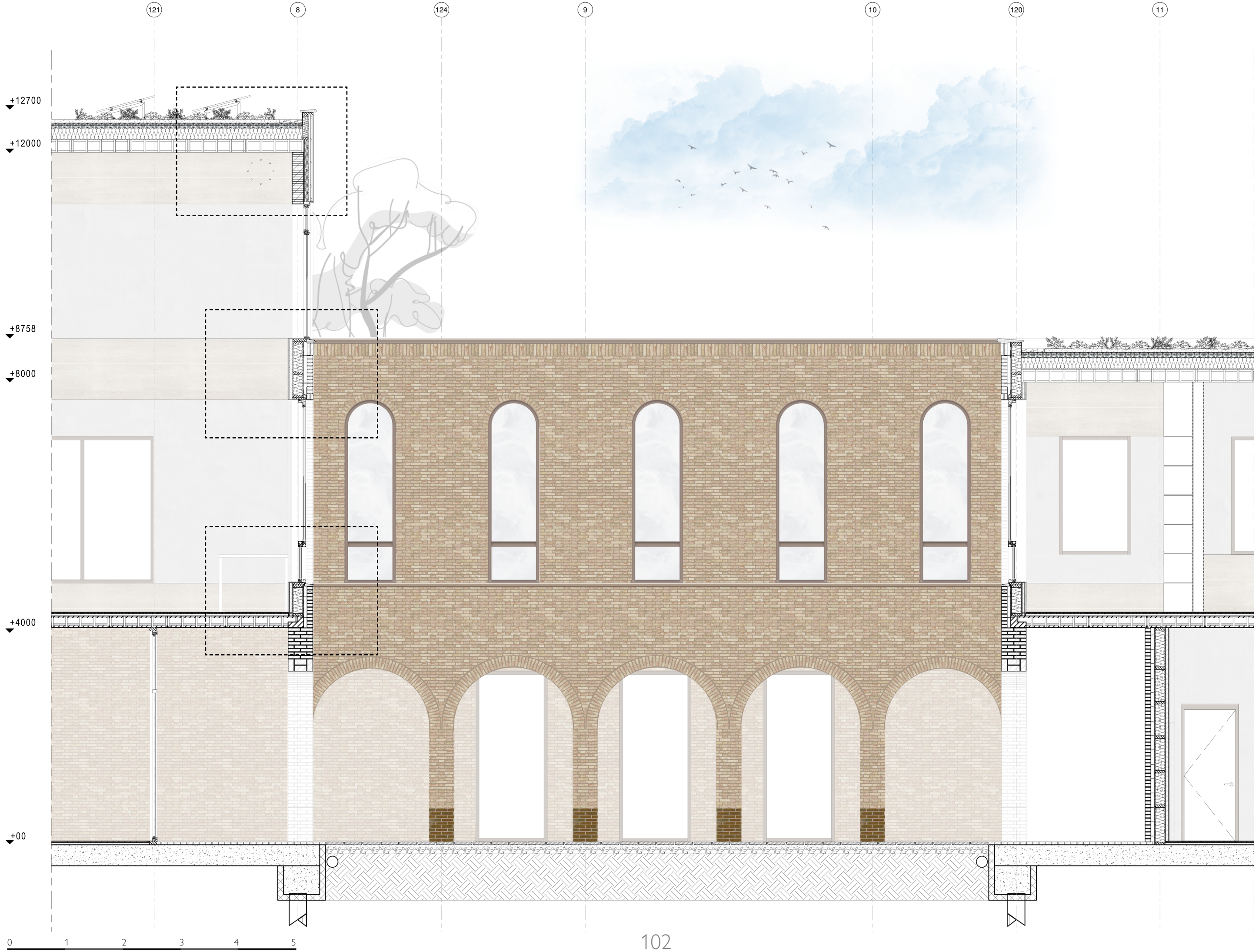
Entire façade contributes to building's stability  
through timber frame construction walls.  
Rigid, moment resisting timber connection  
with embedded rods



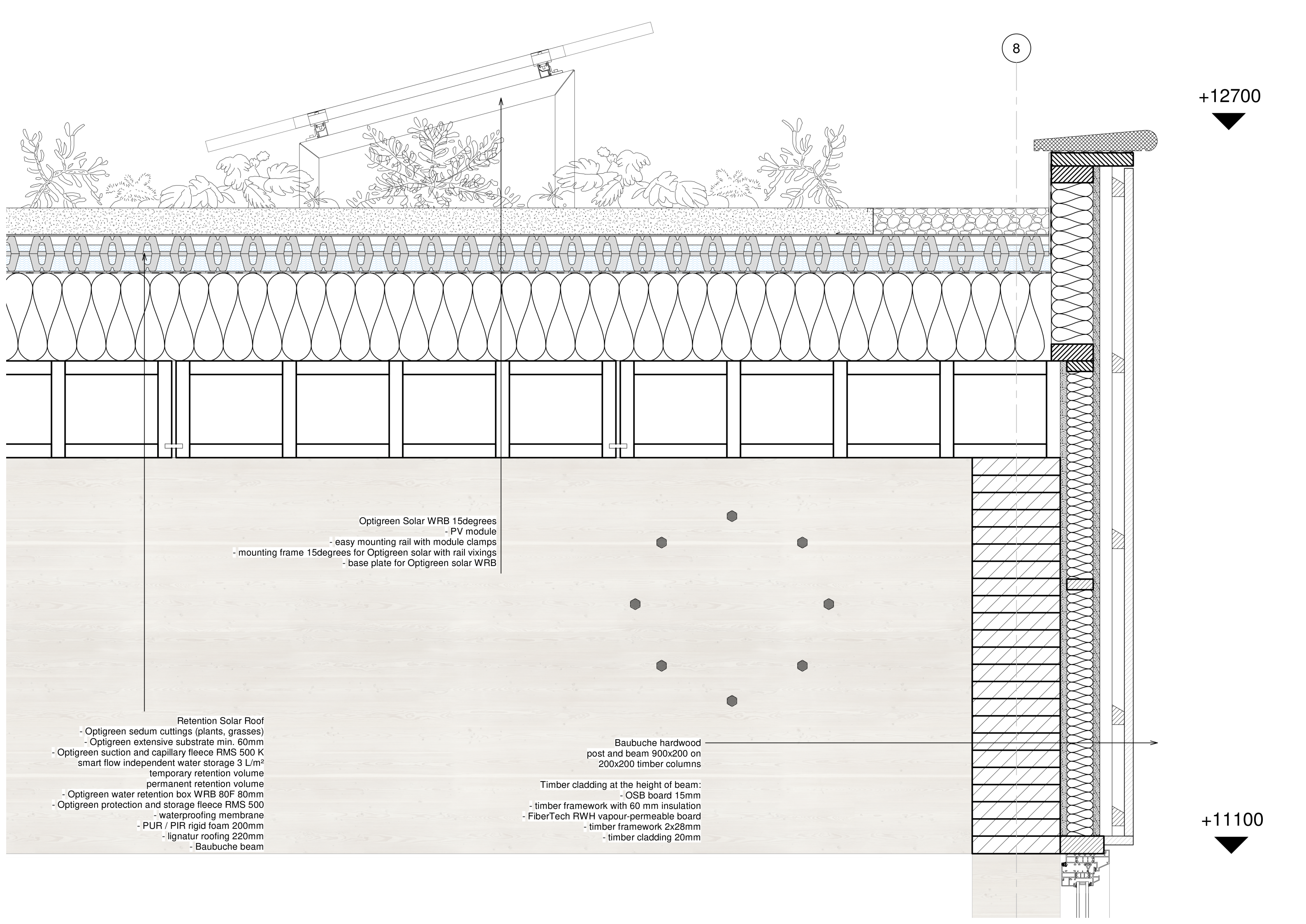












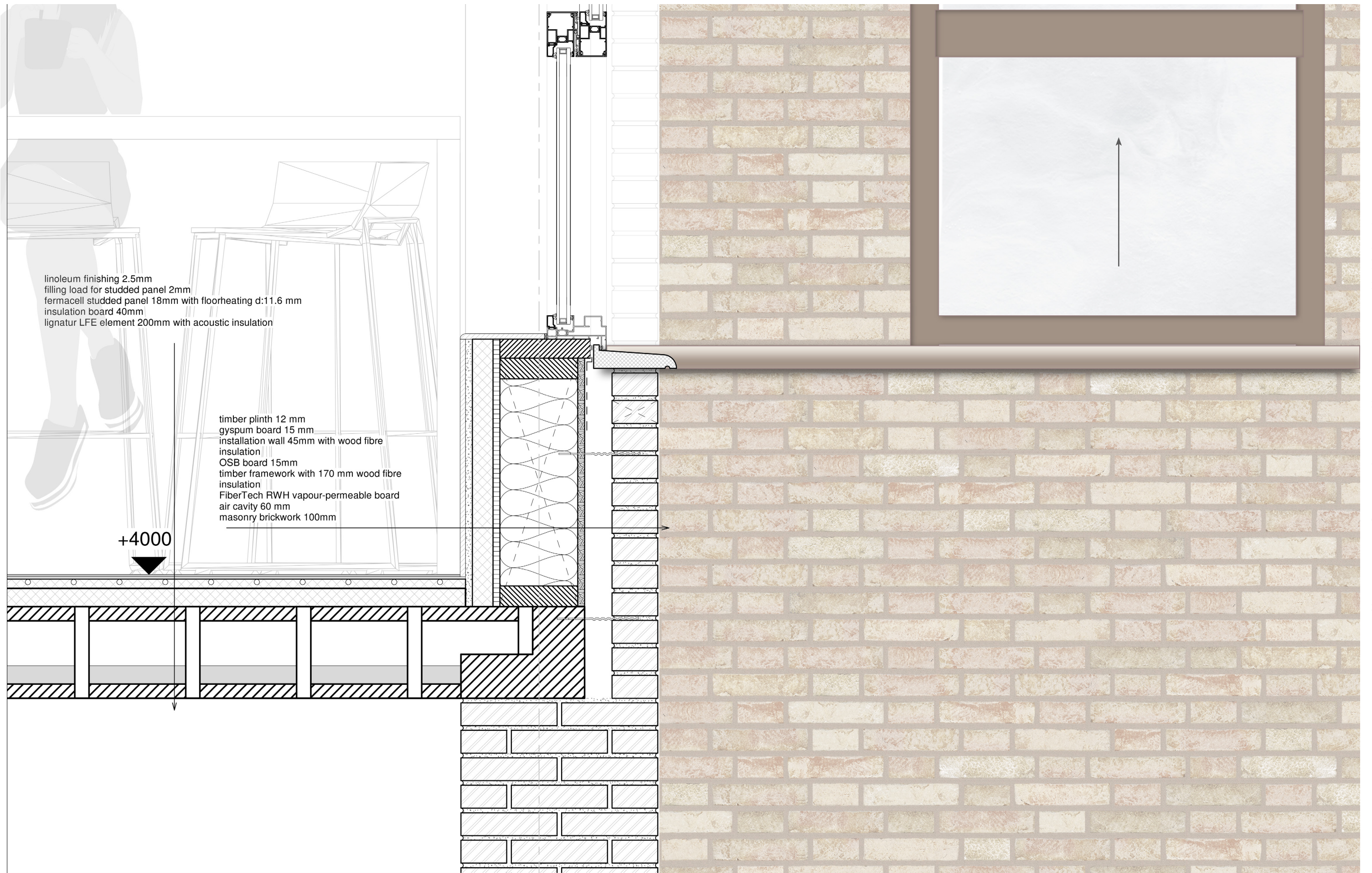


+8758

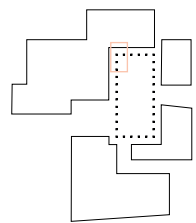
+8000

8



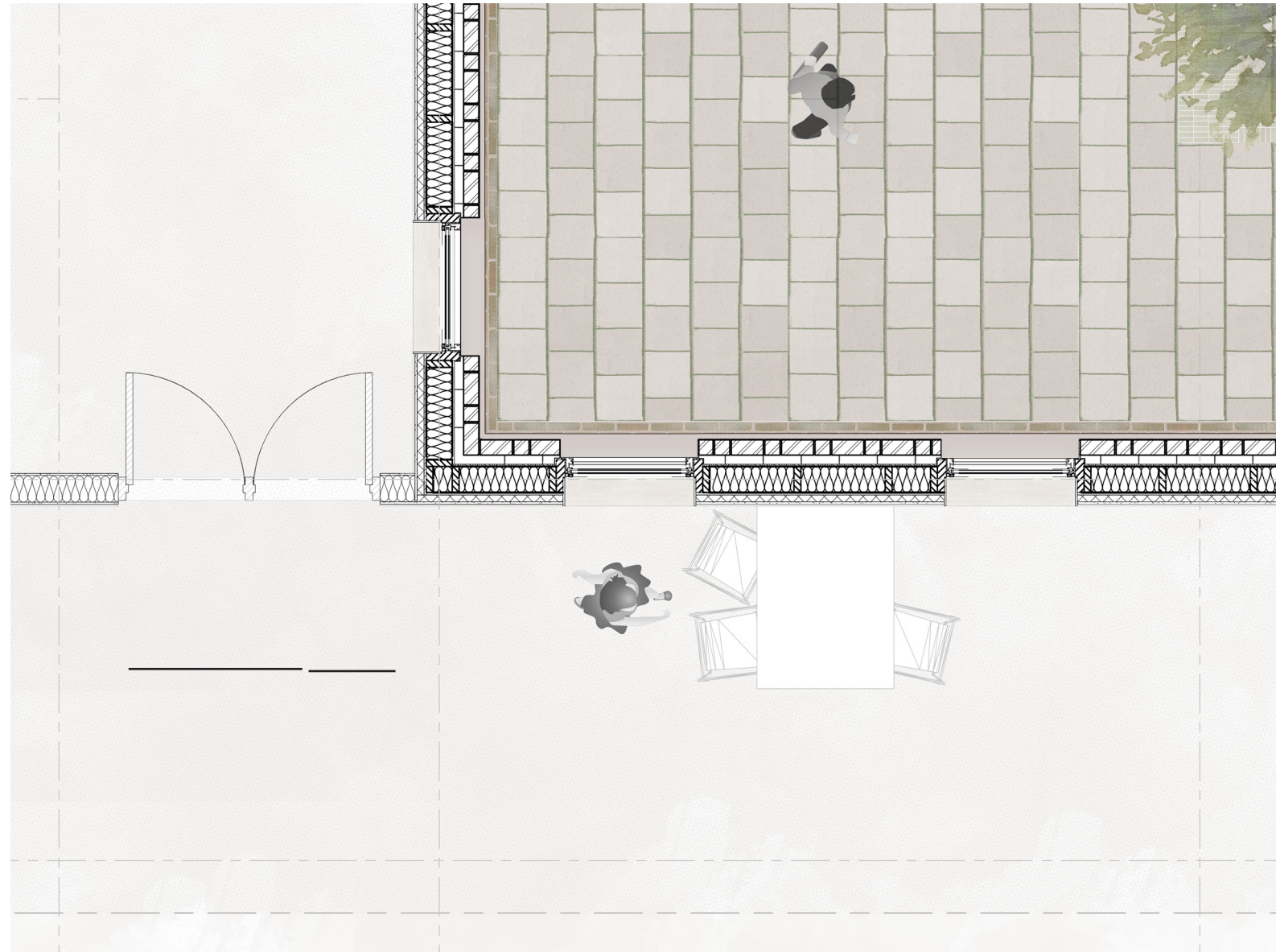




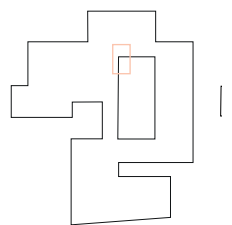


Ⓐ Ground floor +00

0 1 2

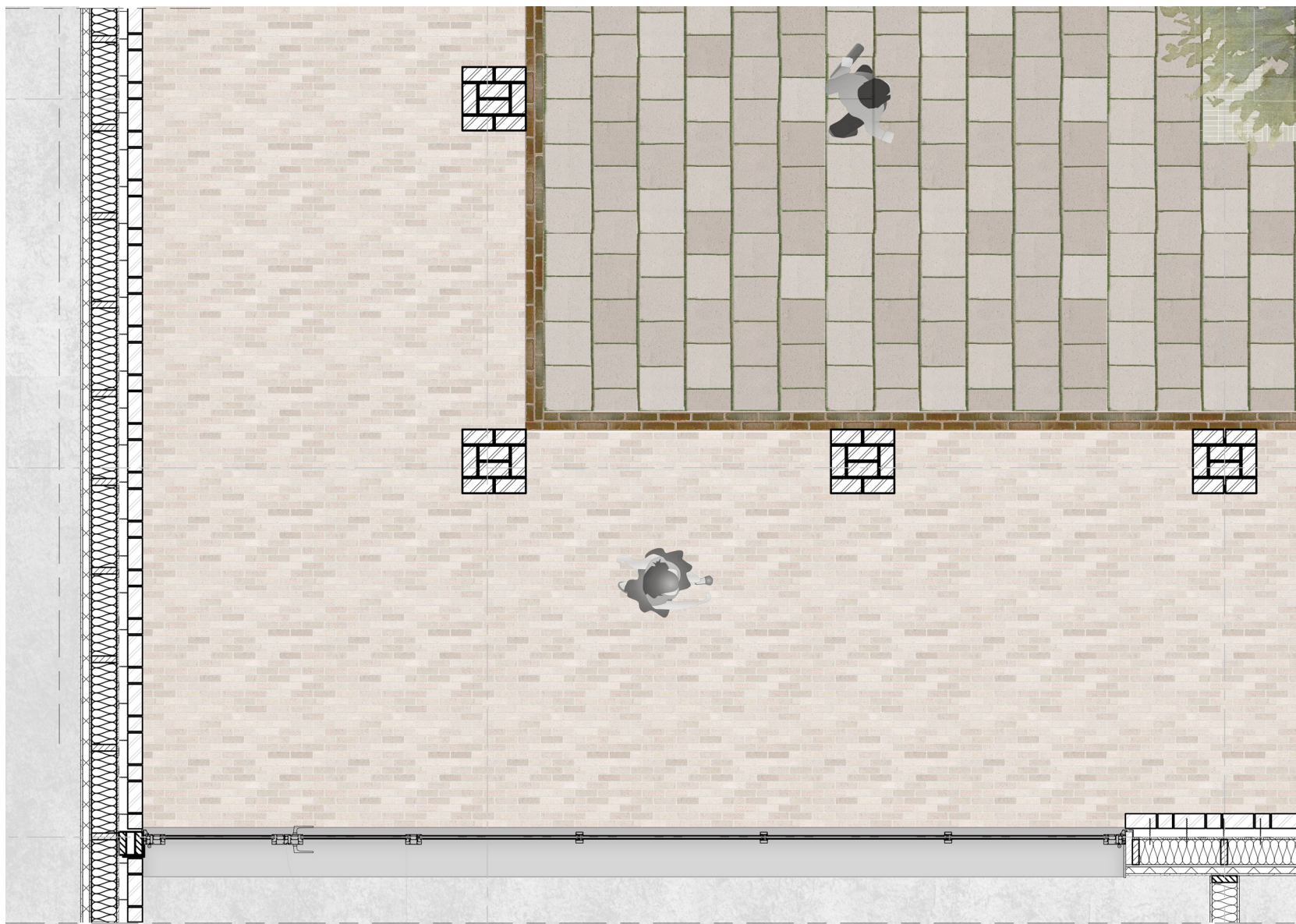






Ⓐ First floor +4000

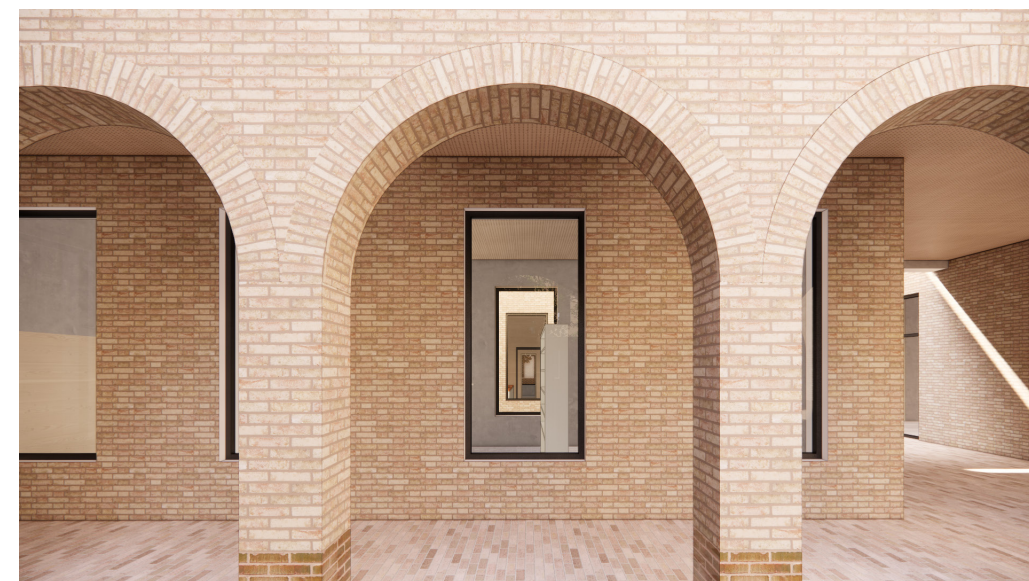
0 1 2







Glazed bricks



Semi-circular arch



soldier course and masonry bonds



Glazed tiles

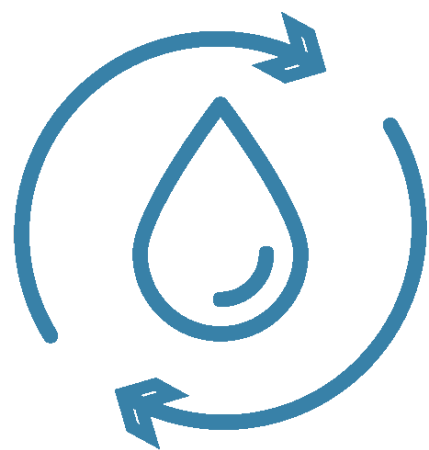


# 5

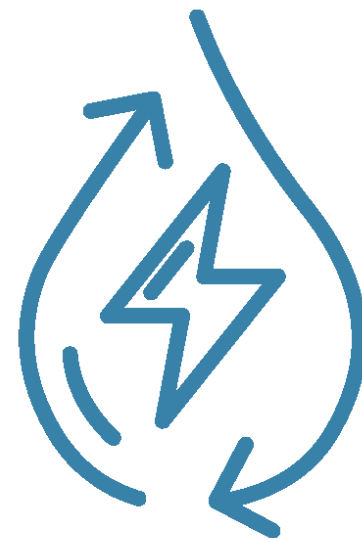


## Environmental position

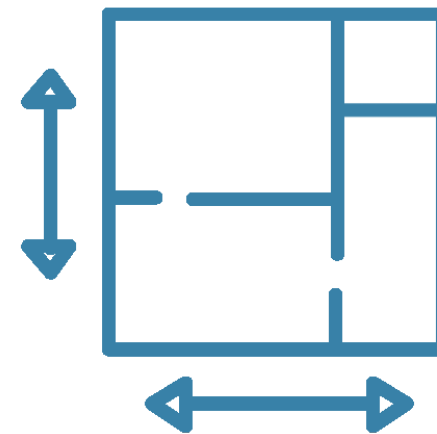
Clay is a **natural**, raw material  
with a **responsible** production process,  
which **respects flora and fauna** and is **renewable**



water management



energy management



regulate according to  
spaces and use

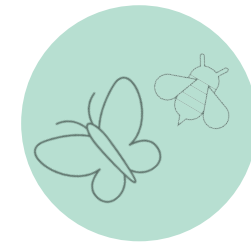


nature inclusive



# Spring / Summer (april - october)

Average maximum temperature 20°  
Average minimum temperature 10°  
Average of 6,5 sunshune hours per day  
84 rainy days



B&B for butterflies and bees, increases biodiversity



until 2° cooler nearby  
until 4° cooler inside



until 7% saving electricity & reduces urban heat island effect



photovoltaic panels, till 6% more energy and increase of biodiversity under PV



retention roof stores water and ensures 50% less sewage overflow during heavy rainfall

high sun altitude

61.5°

demand controlled ventilation system, saving from 30-80% energy for ventilation and cooling

integrated sunscreen blocks 70-80% of the heat

LTV cooling

acceptable inside temperature due to way of dressing

23°

rising warm air can leave building through windows

45-70% of all rainfall evaporates

summerstay for bats

nesting place for hawks and swallows on north side

natural ventilation

high occupancy

semi open pavement

heat pump

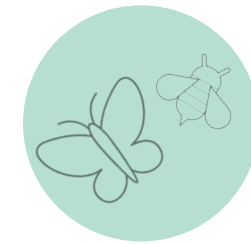
rainwater reservoir

re-use in building

12°

# Autumn / Winter (november - april)

Average maximum temperature 9,3°  
Average minimum temperature 2,8°  
Average of 3 sunshune hours per day  
103 rainy days



B&B for butterflies and bees, increases biodiversity



can capture up to 200 gram fine dust per m<sup>2</sup>



until 3% saving electricity



photovoltaic panels, till 6% more energy and increase of biodiversity under PV



retention roof stores water and ensures 50% less sewage overflow during heavy rainfall

demand controlled ventilation system, saving from 30-80% energy for ventilation and cooling

LTV heating

winter stay for bats

nesting place for hawks and swallows on north side

low sun altitude

acceptable inside temperature due to way of dressing

18°

45-70% of all rainfall evaporates

high occupancy

semi open pavement

heat pump

rainwater reservoir

re-use in building

12°

14.5°













THANK YOU!

Urban Architecture  
// craft in the city

Britt Derckx // 4281411 // 16 april 2021







P5 // Ikebana Gallery School // Britt Derckx // 4281411





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