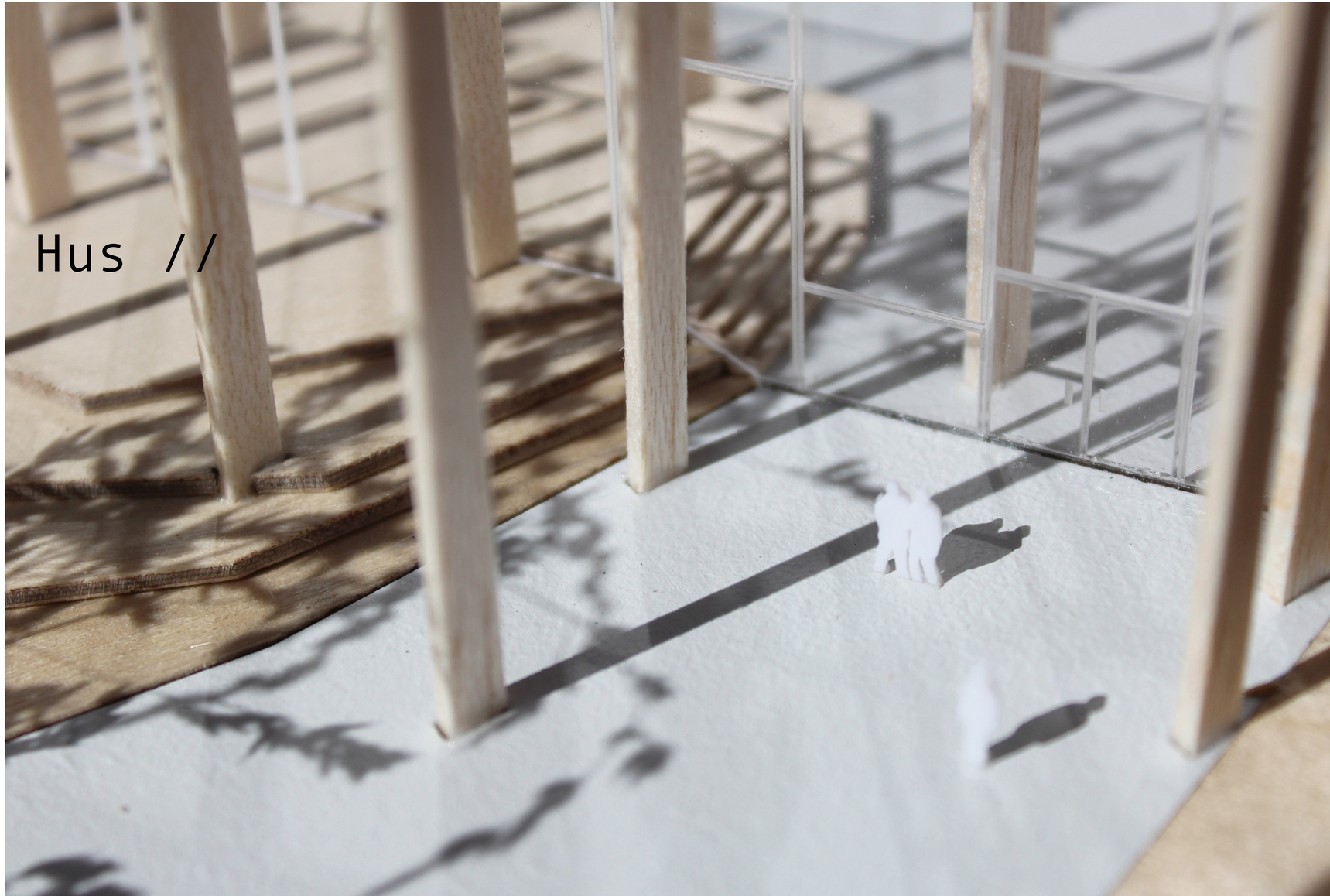
Fortællingernes Hus //

A house of stories



Public Building Graduation Studio

MULTIPLICITY // PUBLIC CONDENSER

The Hague - Copenhagen

P5 // Fortællingernes Hus // Sophie Hengeveld // 4210395

01 A public condenser in Vesterbro

02 Design ambition

03 A house of stories

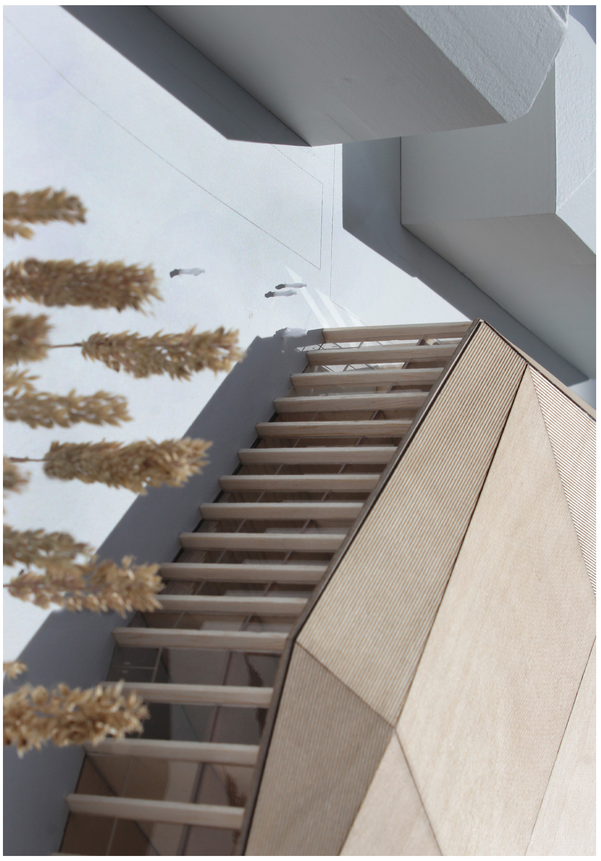
04 Multiplicity of functions

05 The project site; Skydebanehaven

06 Fortaellingernes Hus

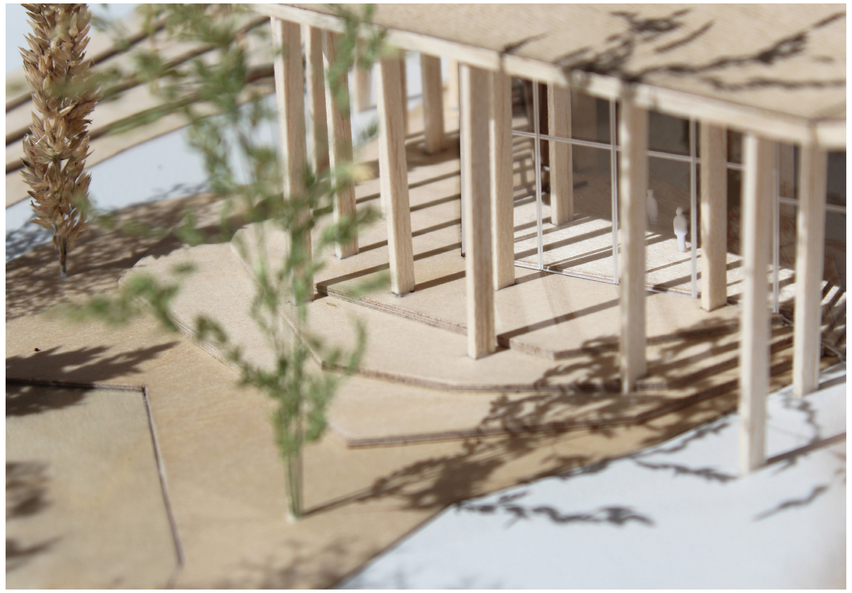








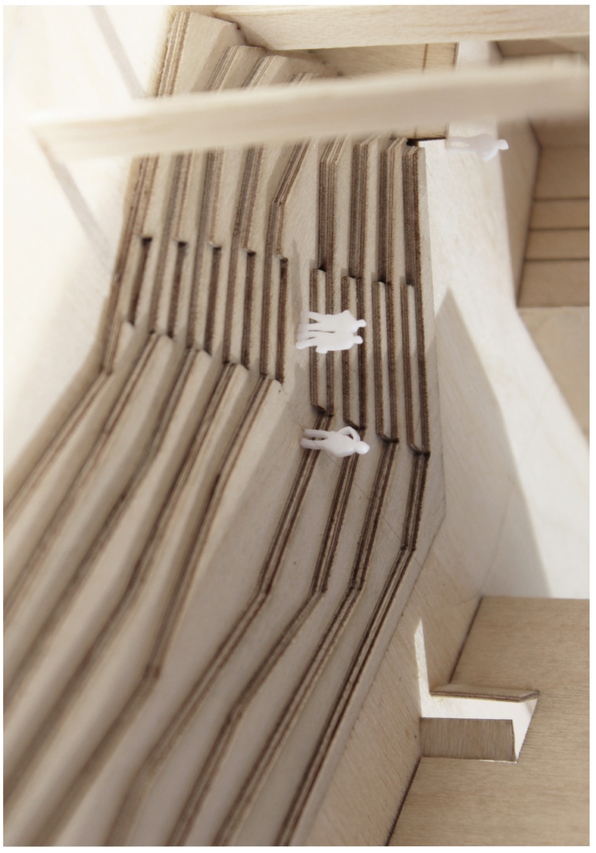






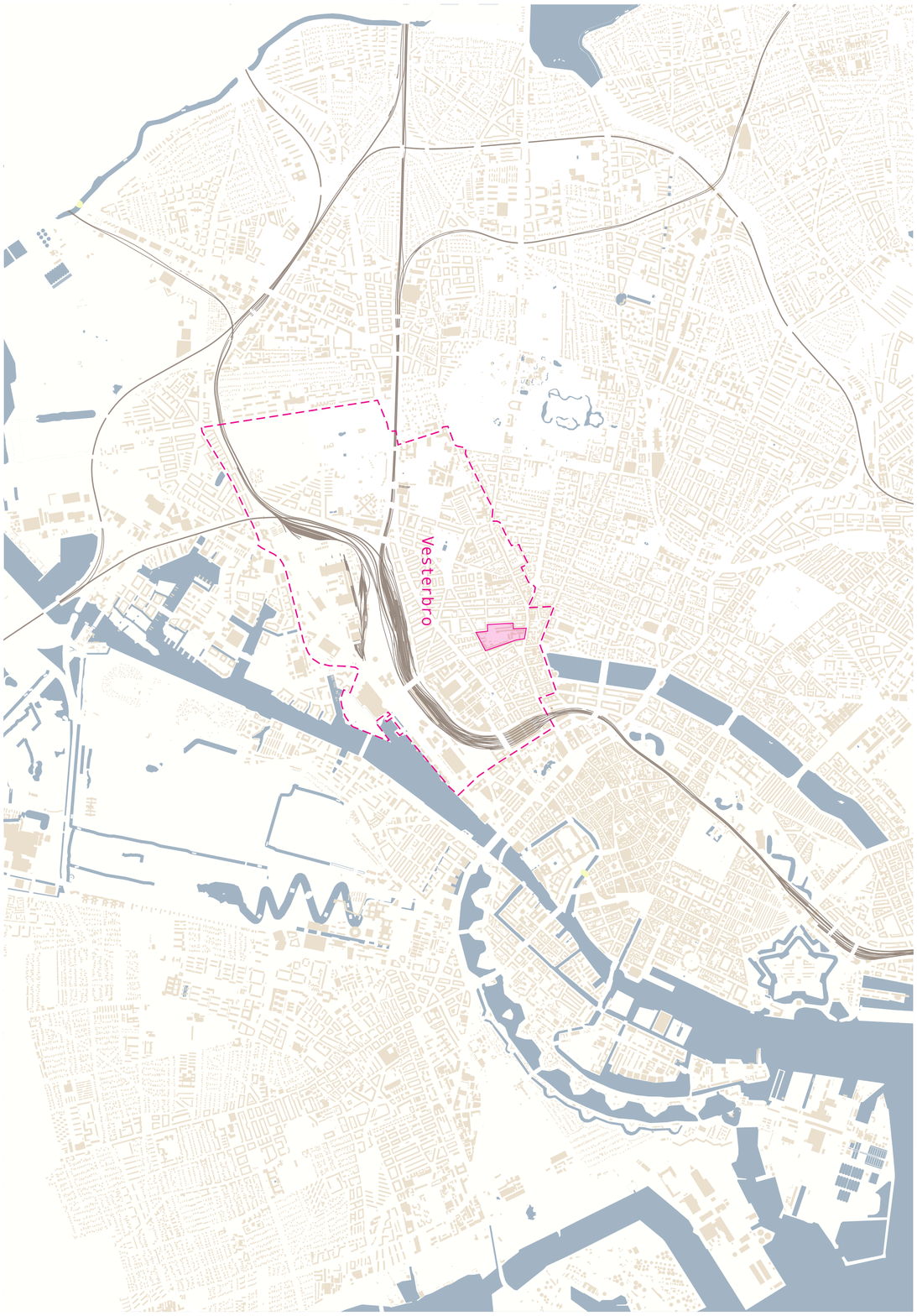






A Public condenser in Vesterbro //

“Public Condenser: A shared facility that encourages the encounter of people living close to one another, but are rarely meeting.”


Vesterbro

1700 - 1799



1800 - 1879



1880 - 1889



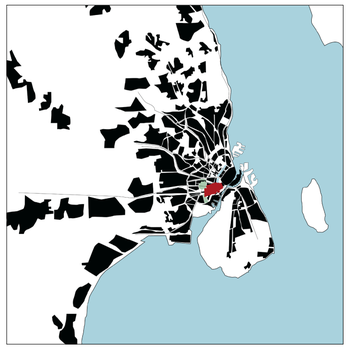
1890 - 1929



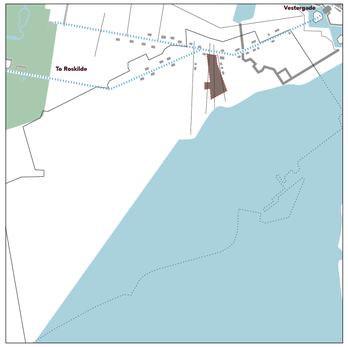
1930 - 1949



1950 - 2019



Copenhagen













Vesterbro

1700 - 1799



1800 - 1879



1880 - 1889



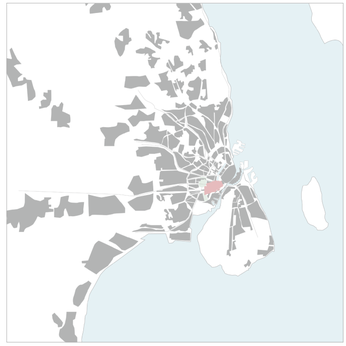
1890 - 1929



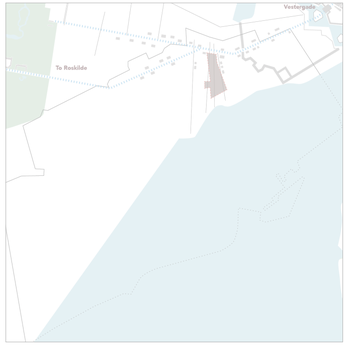
1930 - 1949



1950 - 2019



Copenhagen













Vesterbro



1700 - 1799



1800 - 1879



1880 - 1889



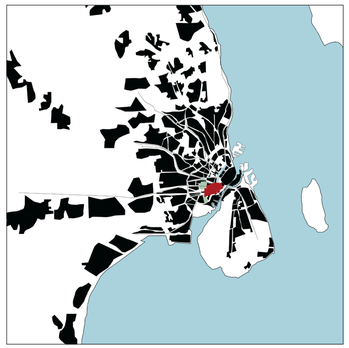
1890 - 1929



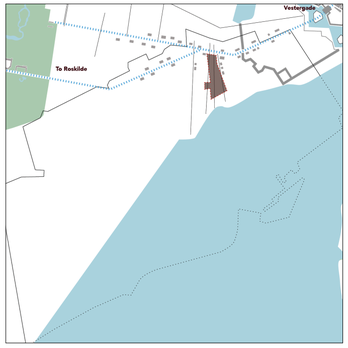
1930 - 1949



1950 - 2019



Copenhagen







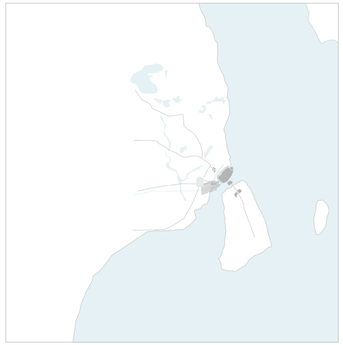






Vesterbro

1700 - 1799



1800 - 1879



1880 - 1889



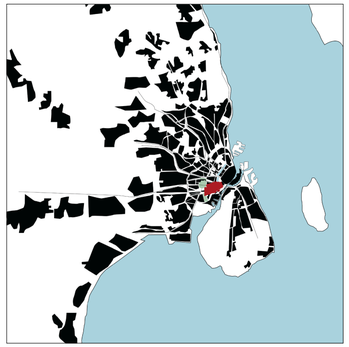
1890 - 1929



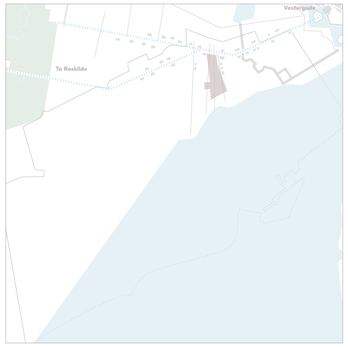
1930 - 1949



1950 - 2019



Copenhagen













Vesterbro

2010
2010
1950
1950
≈30 km
2010
1950
1900
1800
1700
2010
1950
1950
2010


Arbejdsløshedshuset
MUSIK
GRAFIK
FOTO
VÆRKSTED
KOM OP I
A-HUSET
SYRUM
ARBEJDSLØSHEDSHUSET
Istedgade
ANDELSBOLIGFORENINGEN
ISTED AF 1964.
INDGANG TIL NR. 116
SOLCENTER
KING'S
VESTERGA
OST
KONSERVES
TILBUD!!


Mandarinen


STEFANOS
PIZZERIA
COFFEE
TO GO

Copenhagen strives to fix drug problem

Authorities in Copenhagen are set to open a second facility where drug addicts can shoot up under the supervision of social workers. The goal was to clean up the capital's streets, but not everyone's happy.

All cool in the state of Denmark

Copenhagen's Vesterbro district has had a makeover but hasn't forsaken its artistic - and downright sleazy - heart, says Stephen Emms

Copenhagen's old red-light district gets gentrified

Prospects of the City: A generation and gentrification later in Vesterbro

What to do in Vesterbro, Copenhagen's coolest neighbourhood

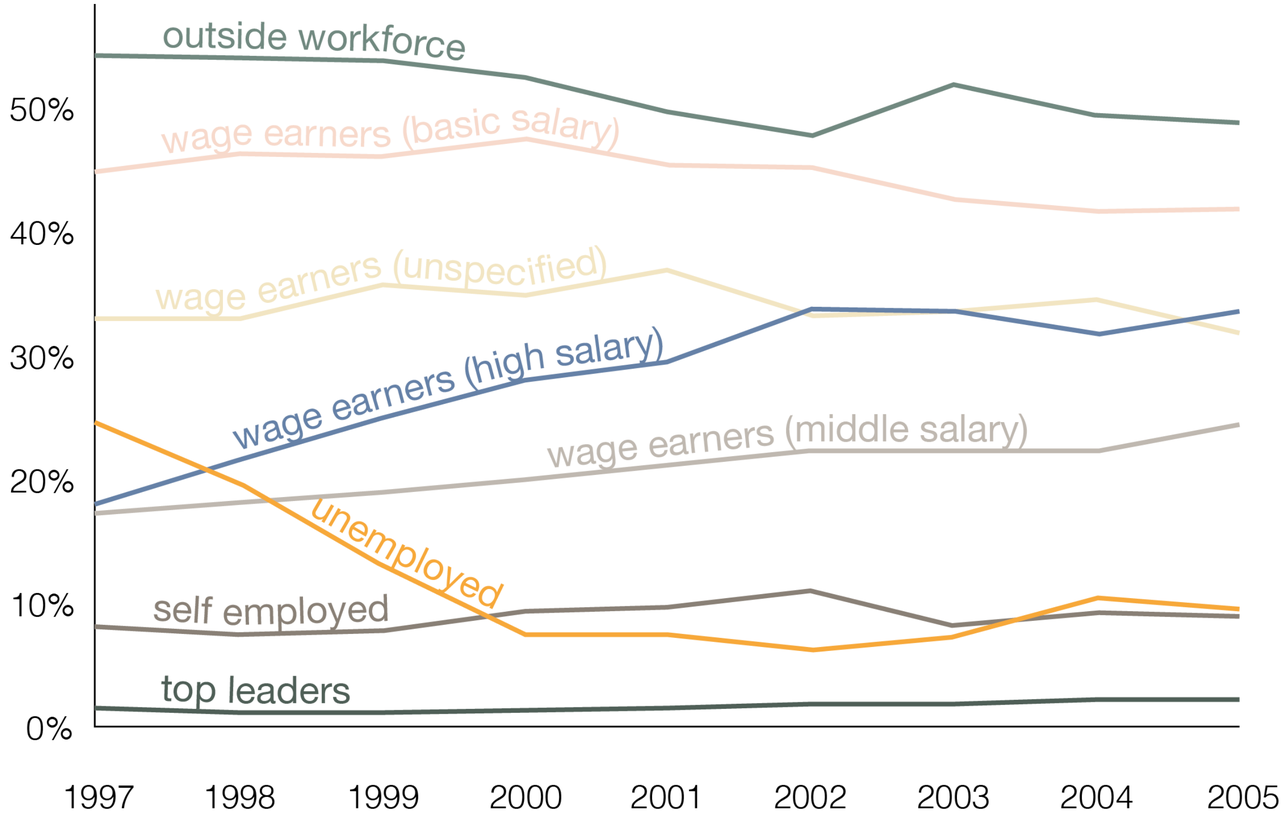
Creative Vesterbro boasts some of the best bars, restaurants and things to do in Copenhagen. Here's our insider's guide

Copenhagen's Vesterbro district is a blend of gritty and new

For many Copenhagen is the charming setting of a Hans Christian Anderson fairytale. It might therefore come as a surprise that the Danish capital has a district which is rather seedy and yet very charming.

Vesterbro Named One of the World's Coolest Neighbourhoods

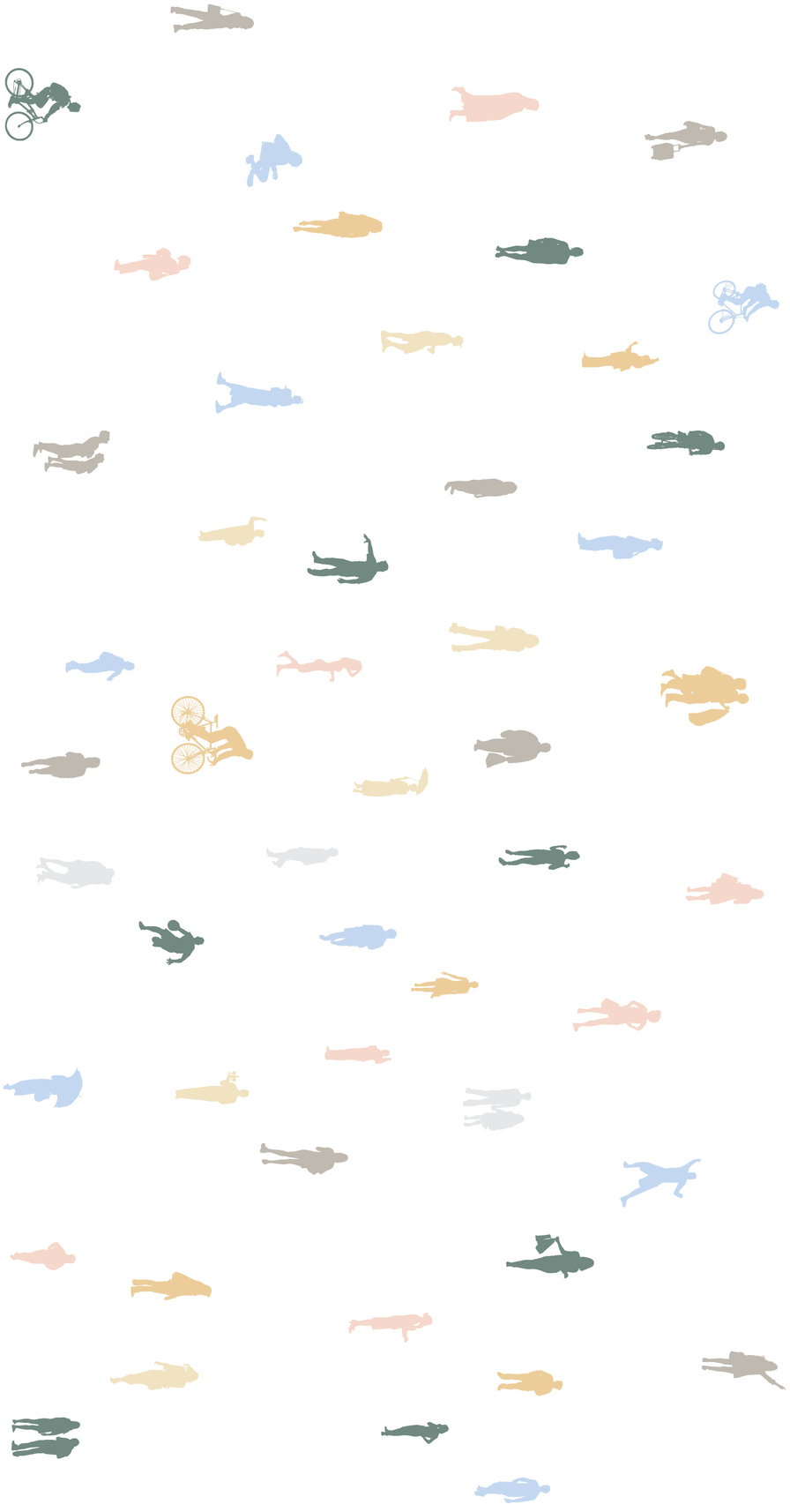
Vesterbro tops Nørrebro in the hipster war

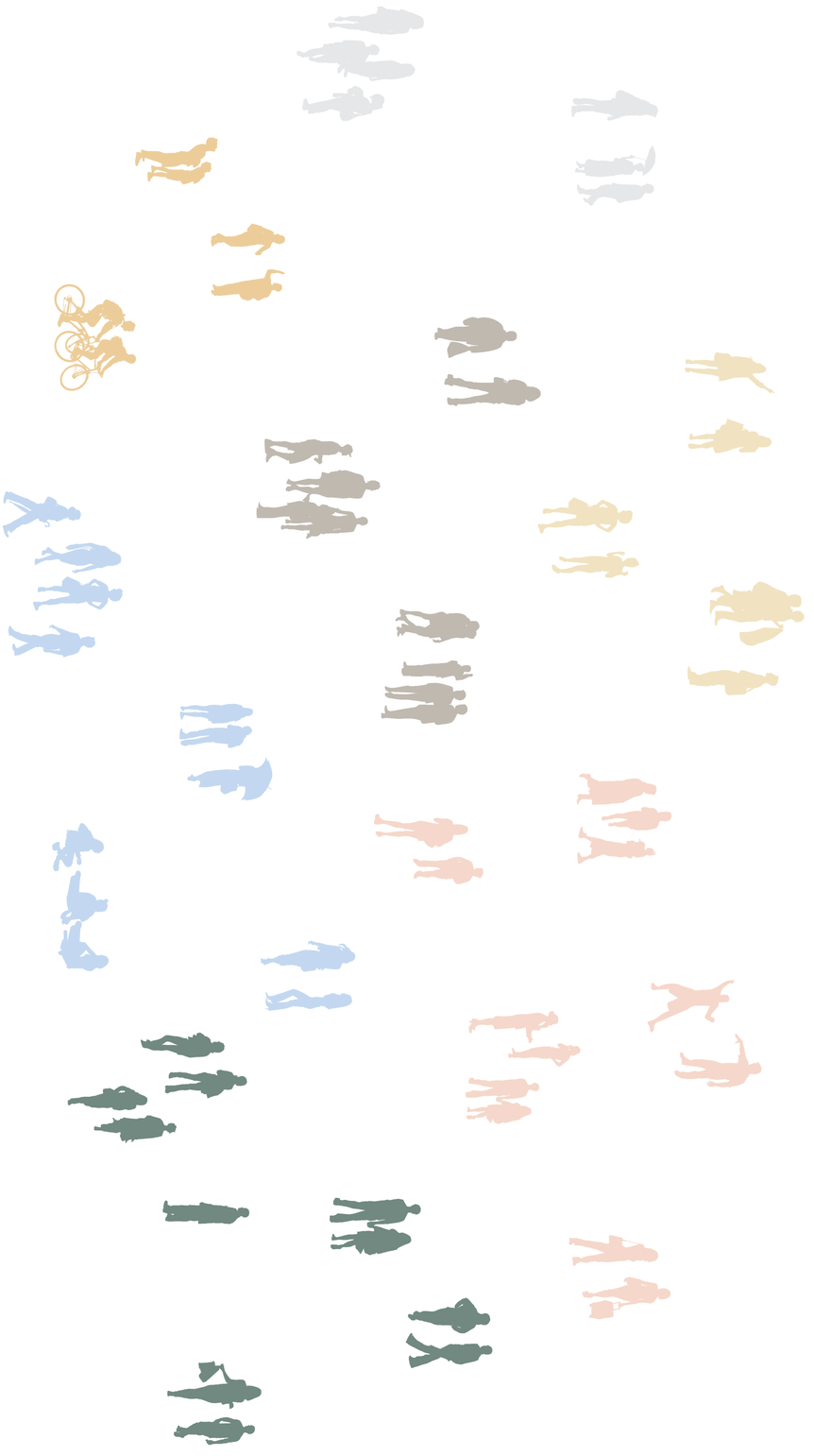


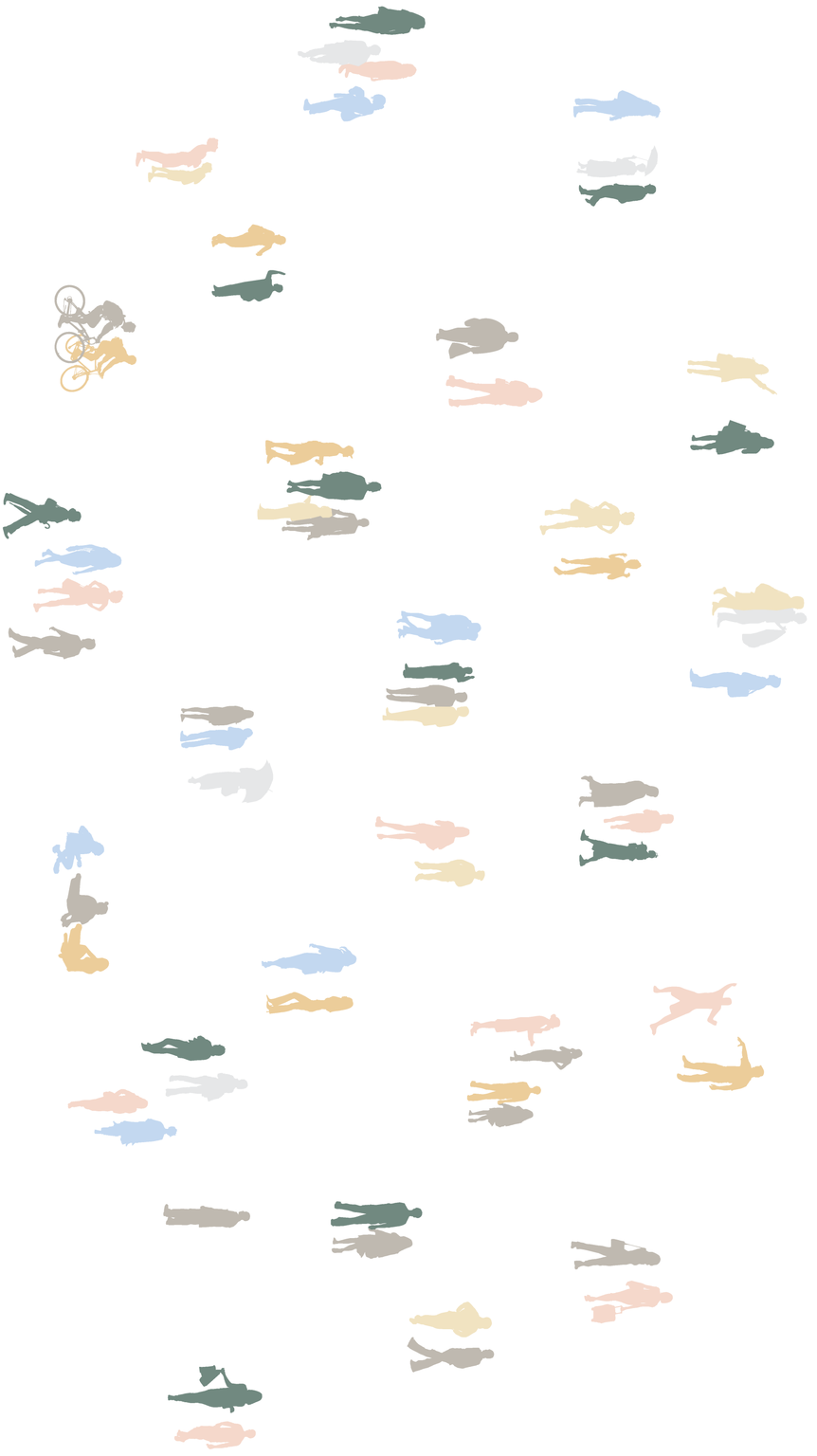
Demographics of Vesterbro (Source: Larsen and Hansen, 2008)



(Sources: Gehl Institute, 2016; Brown, 2013; Herek, 1996; Savelkoul, Scheepers, Movotny, 2011; Granovetter, 1973; Montgomery, 1994)





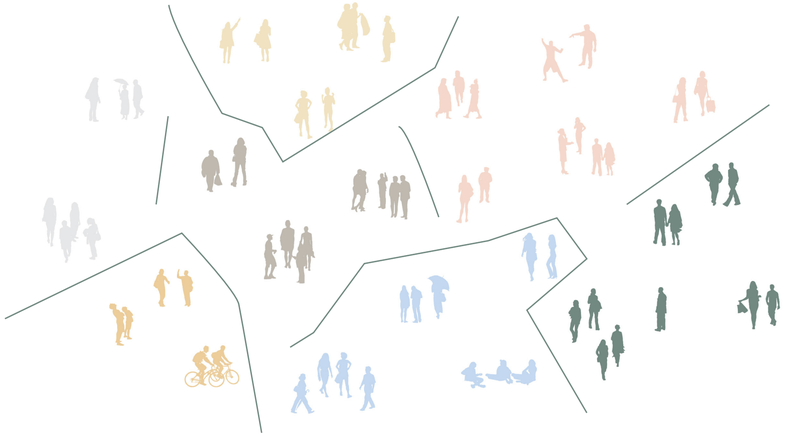


“I aim to foster togetherness that goes beyond placing

different people in the same space.”

Design ambition //

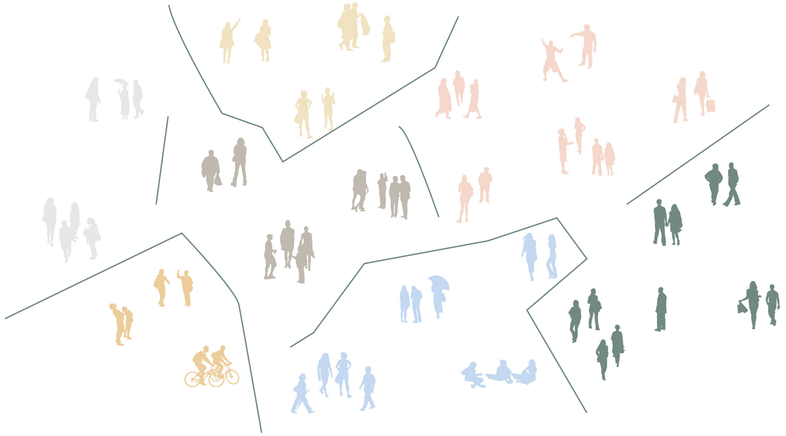




in-group preferences



open attitude



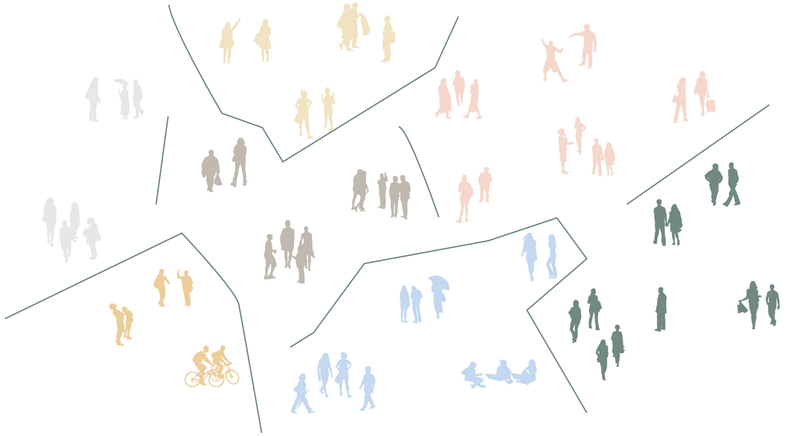
in-group preferences

out-group prejudice



open attitude

out-group information





in-group preferences

out-group prejudice

CURIOSITY

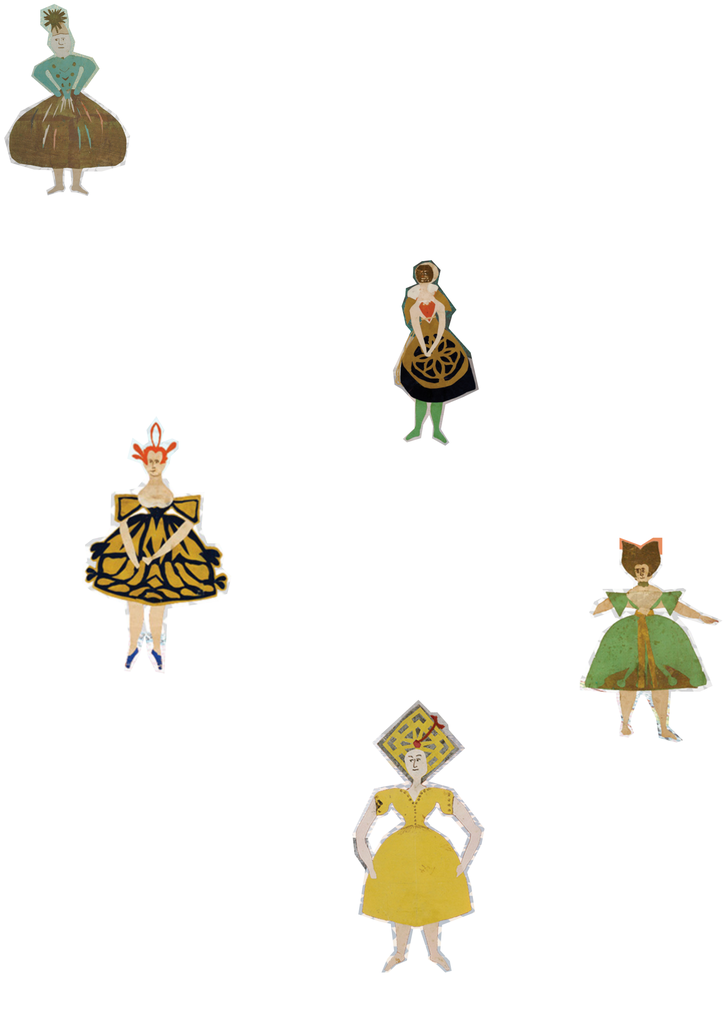
open attitude

out-group information



A house of stories //

“Stories break the patterns of daily life and make room for imagination, wonder and curiosity; stimulating an open view towards the world and to each other.”



Multiplicity of functions //


book presentation
food for thought
radio show
satire
storytelling school
theatre show
ted talks
comedy night
cinema
reading corner
debate club
open mic
mix and meet games
the way we were
documentary
tea and tales
storytelling night
symposium
theme night
true story night
podcast
lectures
speakers corner
puppet show
building tour
video games
speed dating
local explorers
book club
human library
book readings
musical
photography course
photo gallery
movies
city tours
art expo
spoken word
performance
talkshow
poetry
meetings
fairytale experience

satire
theatre
comedy
perform
dance
puppet show
musical

podcast
record
radio show

open mic
talkshow
debate
storytelling school
human library
interact
workshops
meetings
speed dating
book club
theme night
mix and meet games
(photography) course

poetry
storytelling
book reading
book presentation
talk
lecture
TED talks
spoken word
symposium
speakers corner

movie
video tour
project
video game
documentary

local explorers
walk
city tour
building tour

photo gallery
exhibit
art expo
experience

library
print
newstable
reading corner






perform



record






interact






talk





project



walk






exhibit






print

	walk	exhibit	project	perform	interact	talk	read	record
informal								
								
								
formal								

	walk	exhibit	project	perform	interact	talk	read	record
informal								
formal								

	walk	exhibit	project	perform	interact	talk	read	record
informal								
formal								






informal

non-hierarchic

dynamic

accessible

chaotic

small audience(s)

formal

hierarchic

static

secluded

orderly

big audience

	walk	exhibit	project	perform	interact	talk	read	record
informal								
								
								
formal								

walk exhibit project perform interact talk read record

informal

formal



tour office














the arena







box theatre




library



expo



cinema

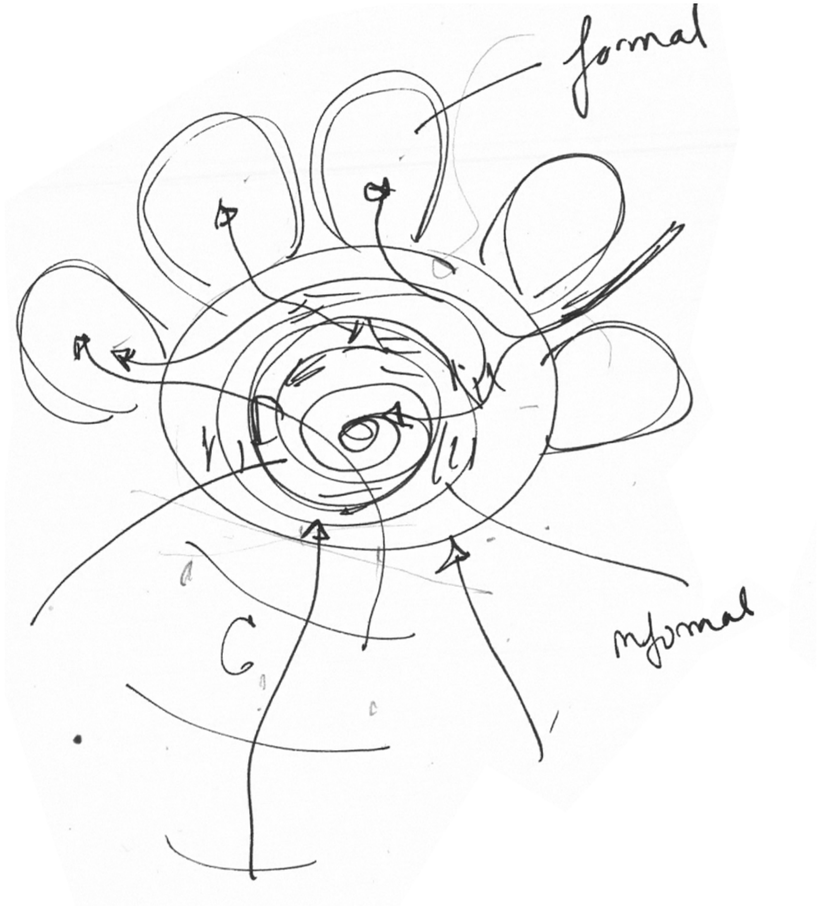




fly theatre

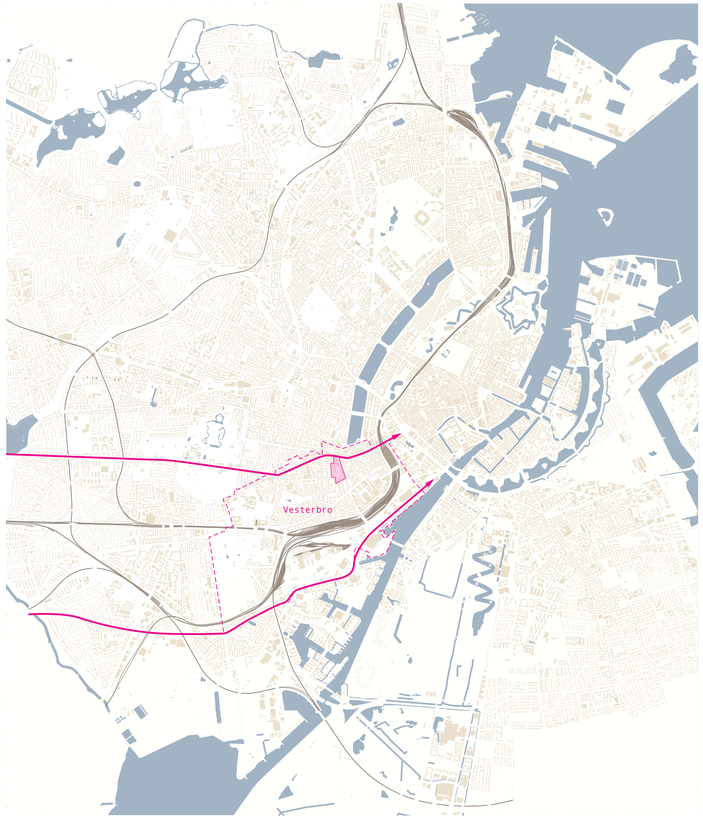


broadcast studio

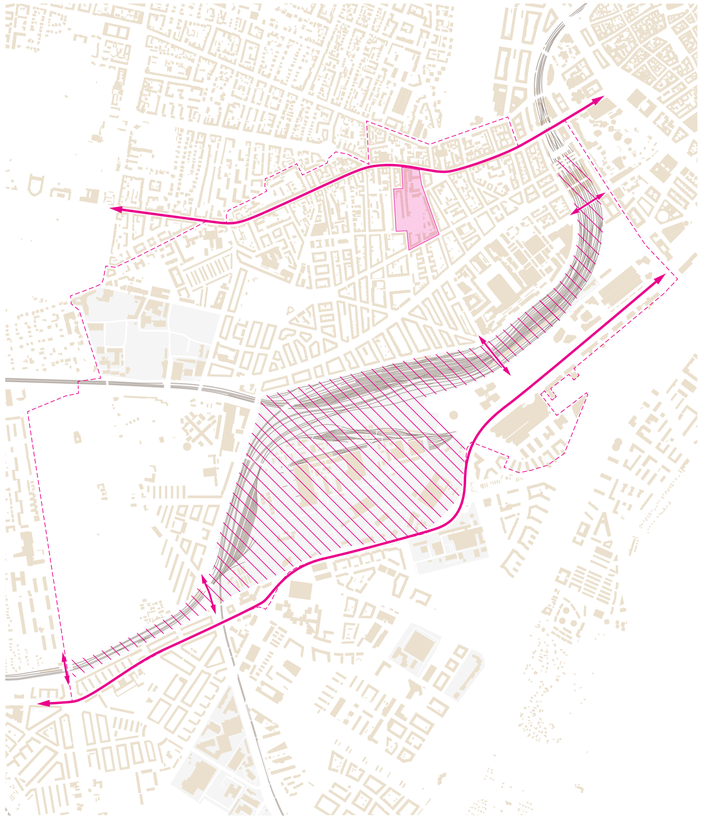

formal
uformal

“Cross-fertilisation between the formal and informal spaces will make the whole of the building become greater than the sum of its parts.”

The project site: Skydebanehaven



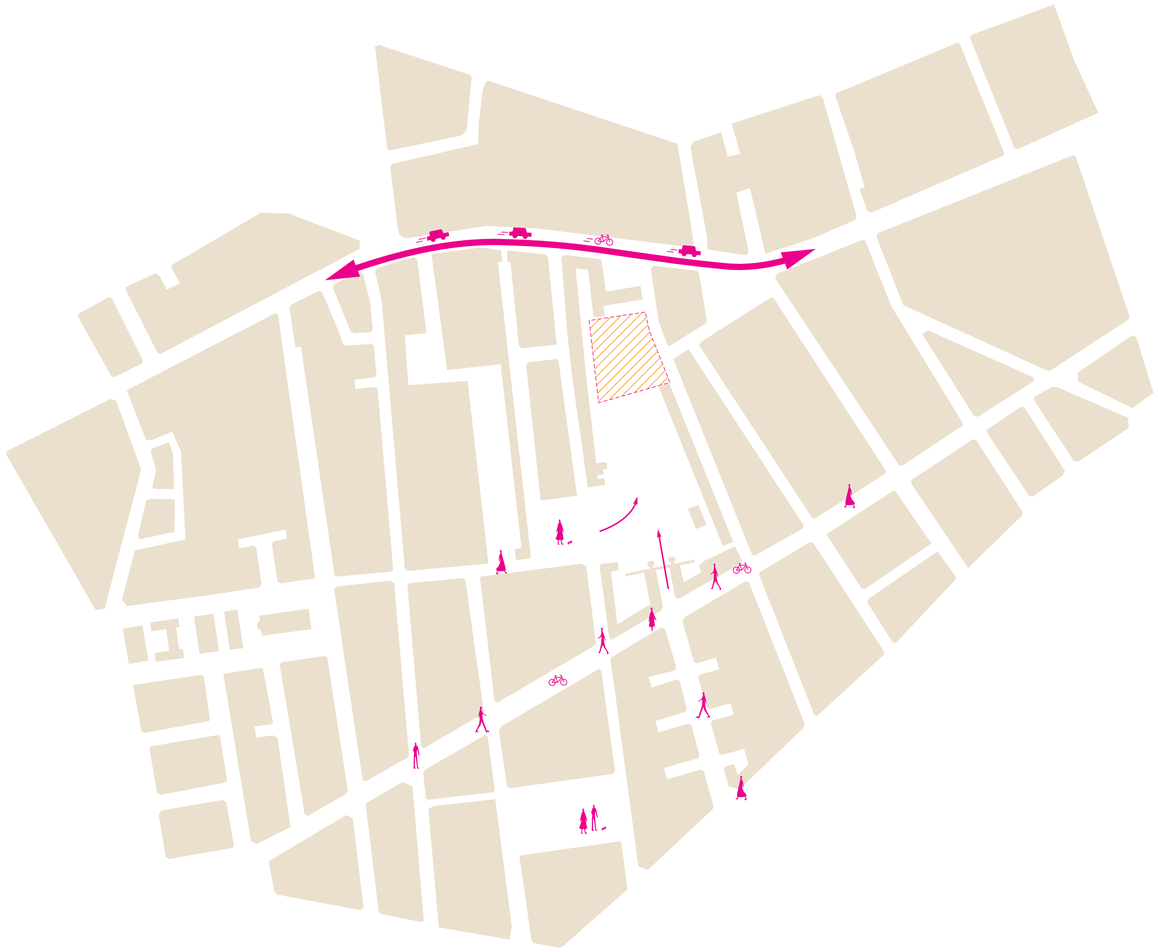
Copenhagen



Vesterbro

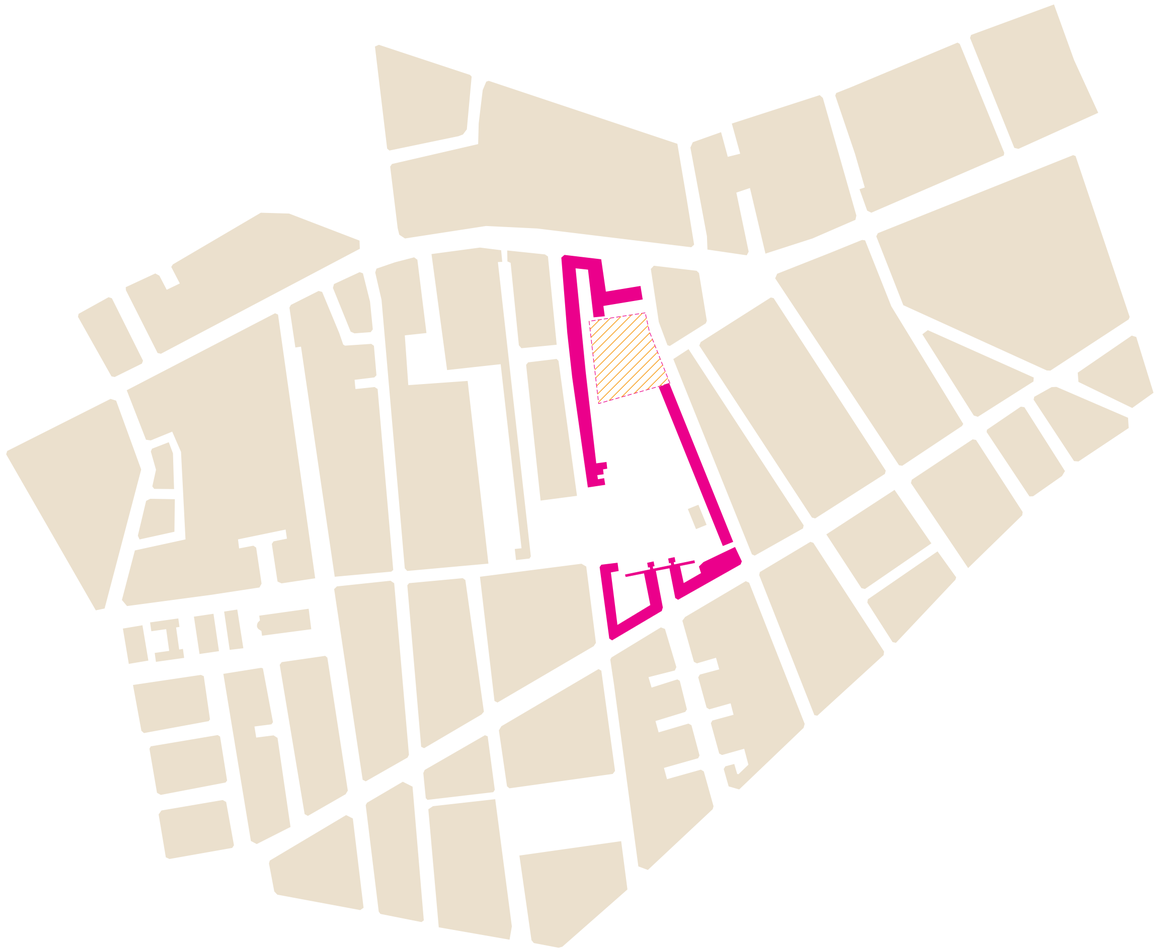


Skydebanehaven



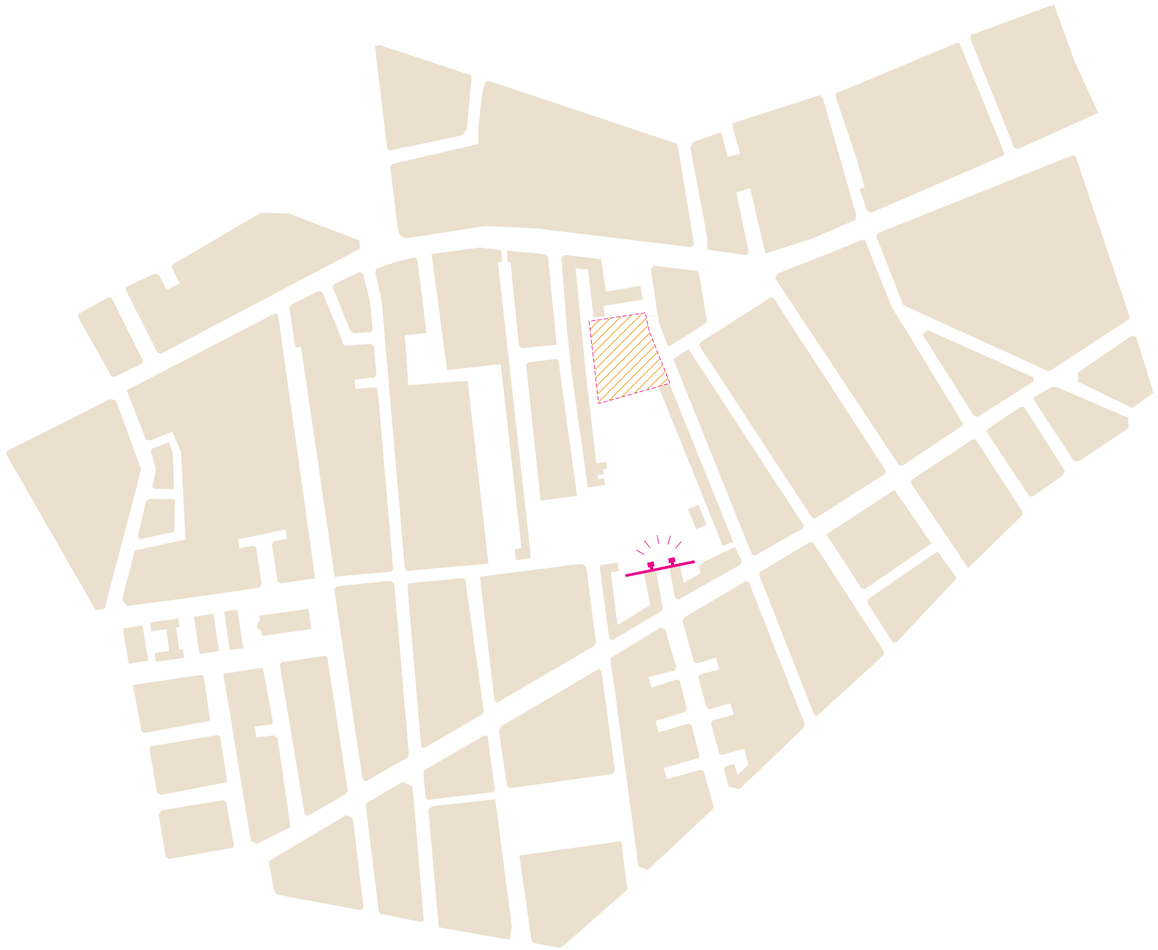






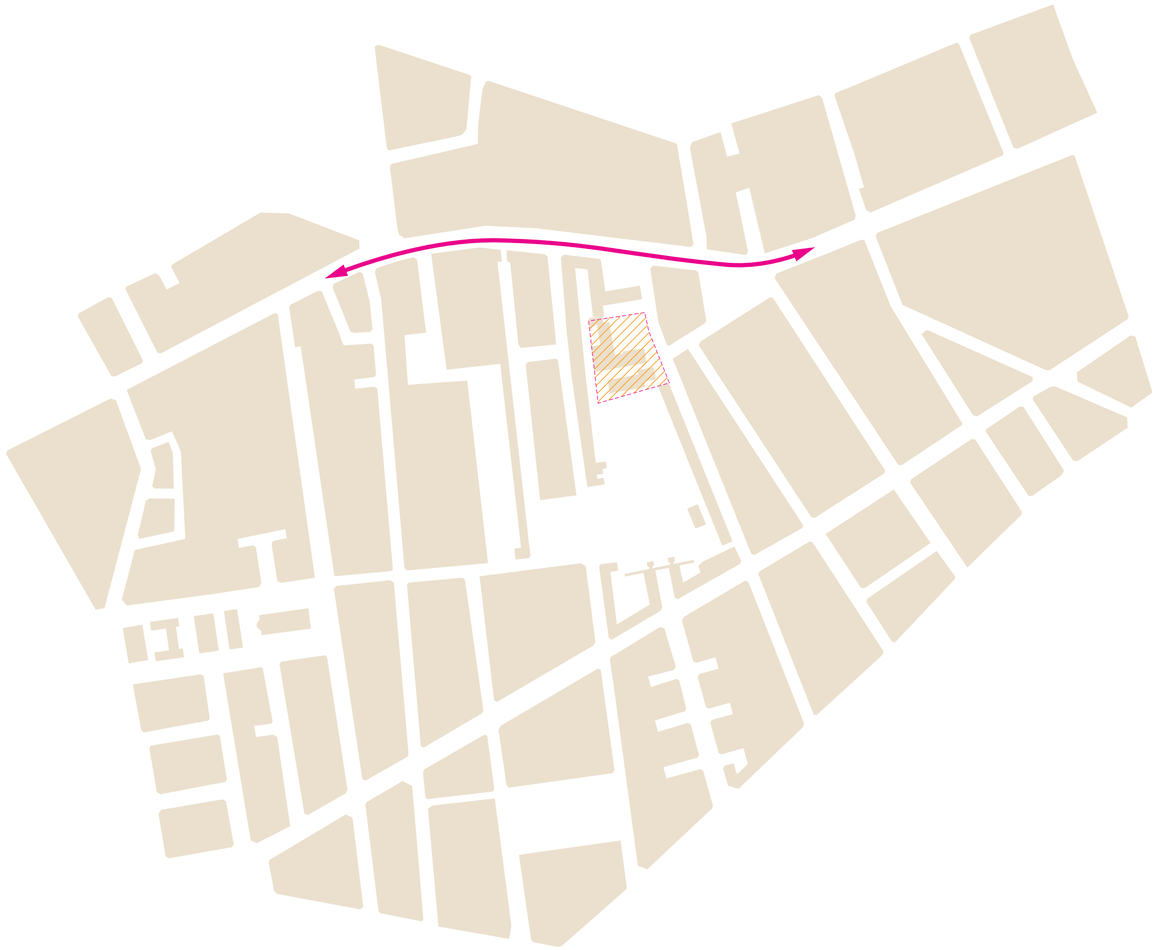













Boli Studios
THIELE



“Generating curiosity has a different meaning in the North and

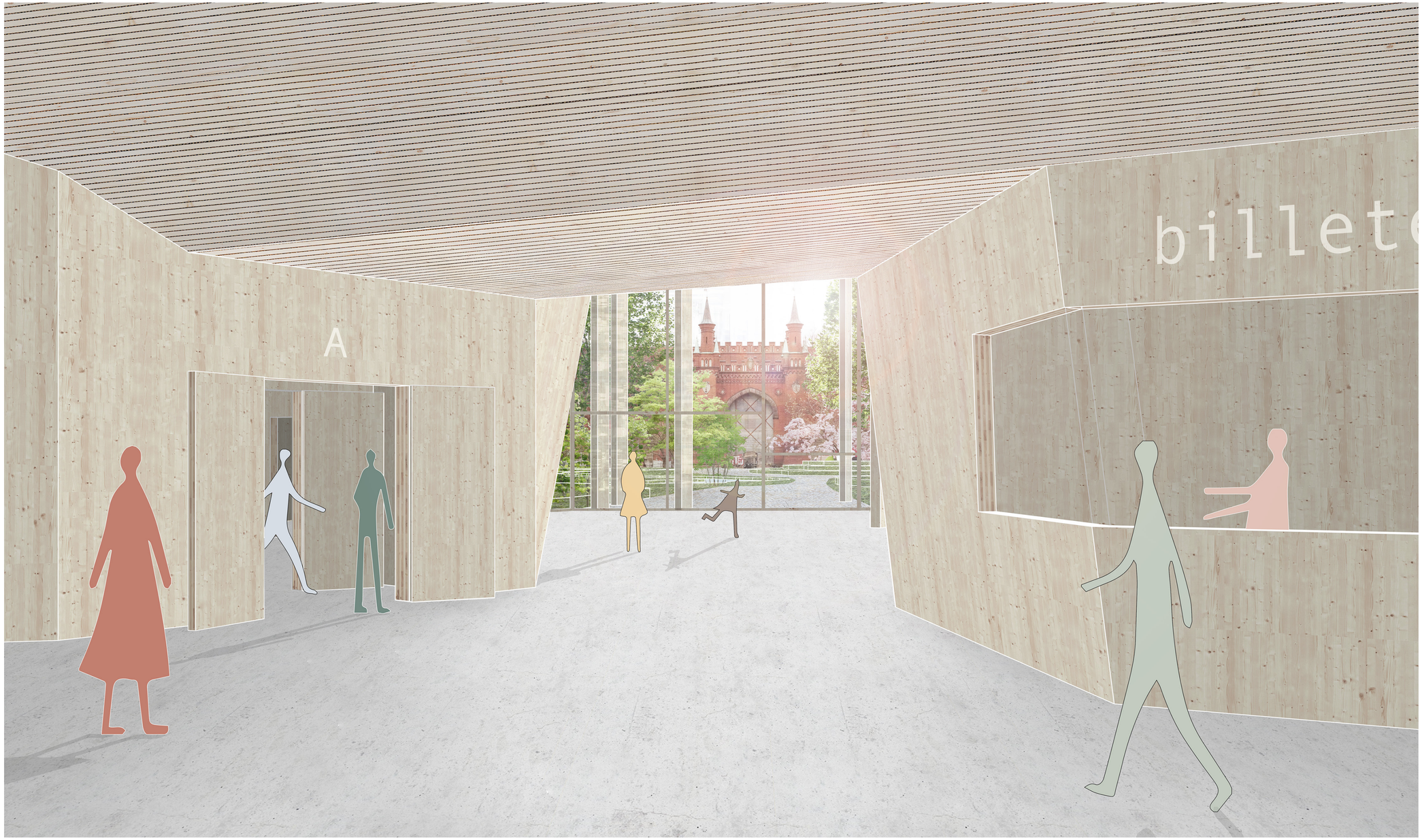
in the South of the project site.”

Fortællingernes Hus //






RISING TEMPERATURES
APRIL FESTIVAL 2019
Mænd & Høns
NÅR POLITIETARBEIDER
SUMMER IN WONDERFUL COPENHAGEN
VESTERBRO TEATERFESTIVAL
8-12 MARTS 2017
KØBENHAVN
MELLEM OS SAGT
26. SEPTEMBER
KL 20:00
COPENHAGEN ARCHITECTURE FESTIVAL CAFX
ODENSE
WEGNER JACOBSEN KJÆRHOLM JUHL
LOUISIANA
PICASSO
KULTURHAVN
7.-9. AUGUST 2009
KOM OG DELTAG I 80 GRATIS SPORTS OG KULTUR AKTIVITETER
Flora Danica
RIKKE YDE TORDRUP
SAMTALEKORT til UDVIKLENDE ØJEBLIKKE
VESTERBRO TEATERFESTIVAL
8-12 MARTS 2017
HAMLET
APRIL 8-16
GRUPEN
DENMARK
Jeg Taler Til Jer
KLIMA PÅSKE MARCH
HOLBÆK KØBENHAVN
DET NYE INTERNET
PUDEMIN
JACOBSEN
HVOR TO HAVE OG ALVERDENS TURISTER MØDES
Pygmalion

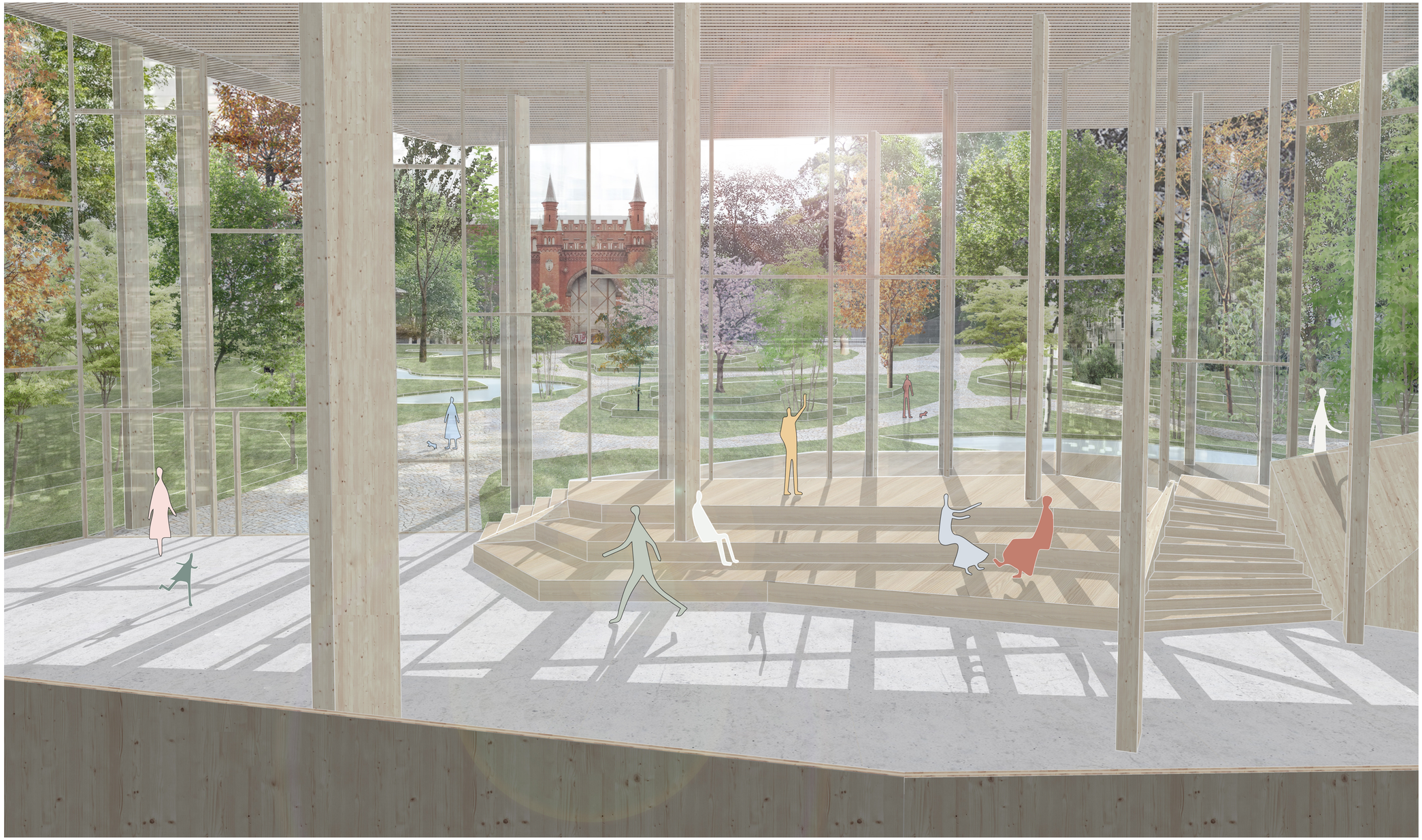

A
billete

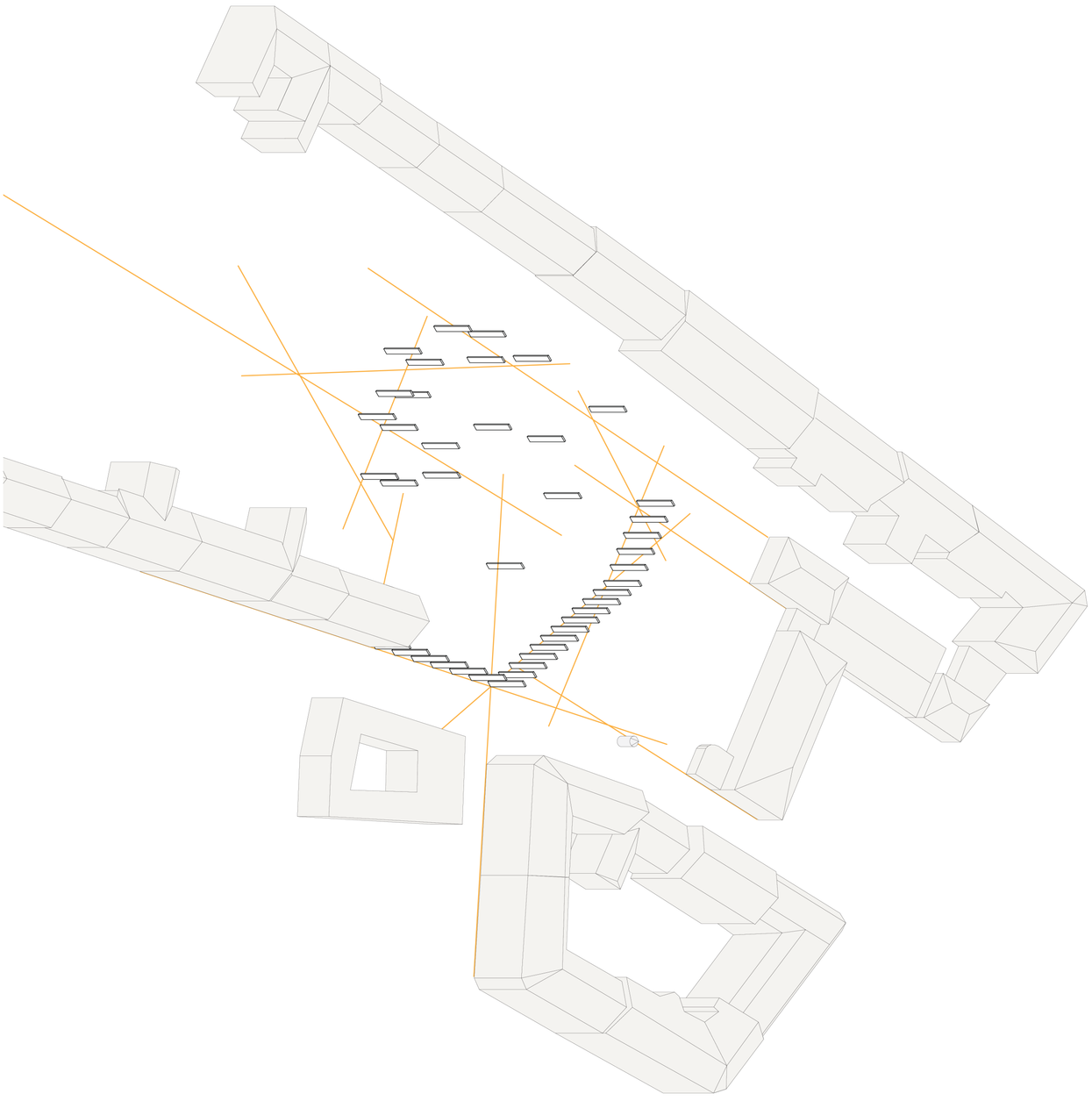


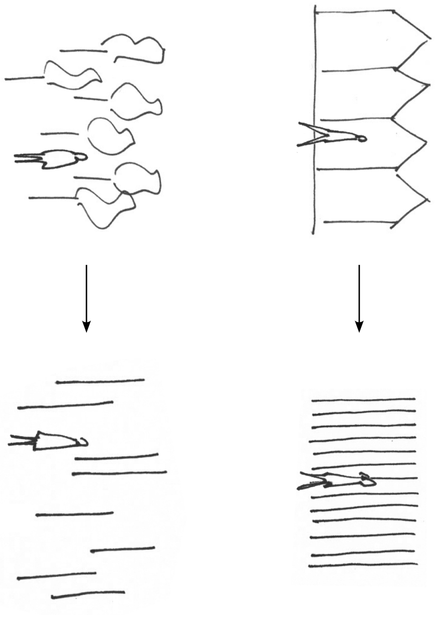


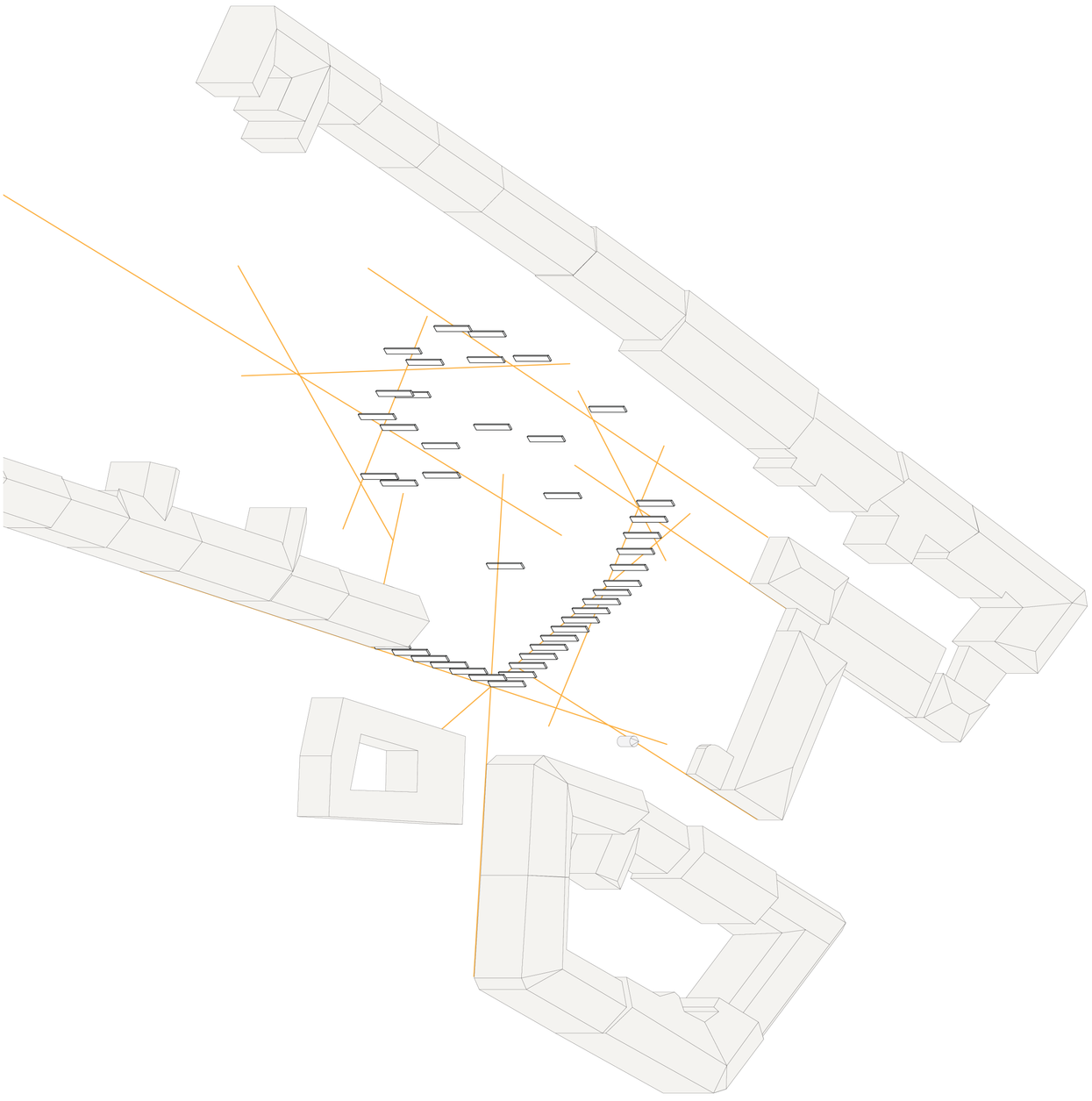

J
K
Medmindre han ikke fortalte os alt.
Manuela Schween er meget erfaren.

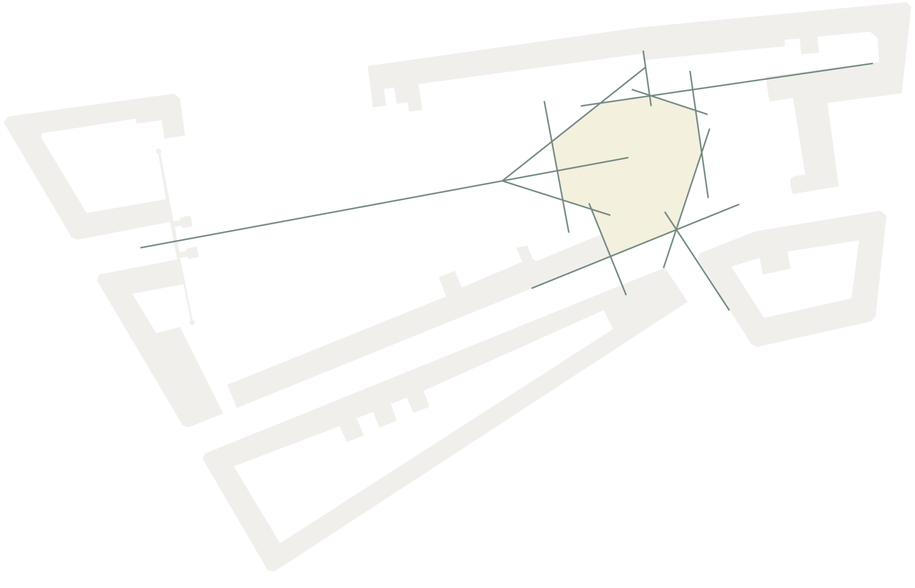
WC
WC
WC
H
I
J

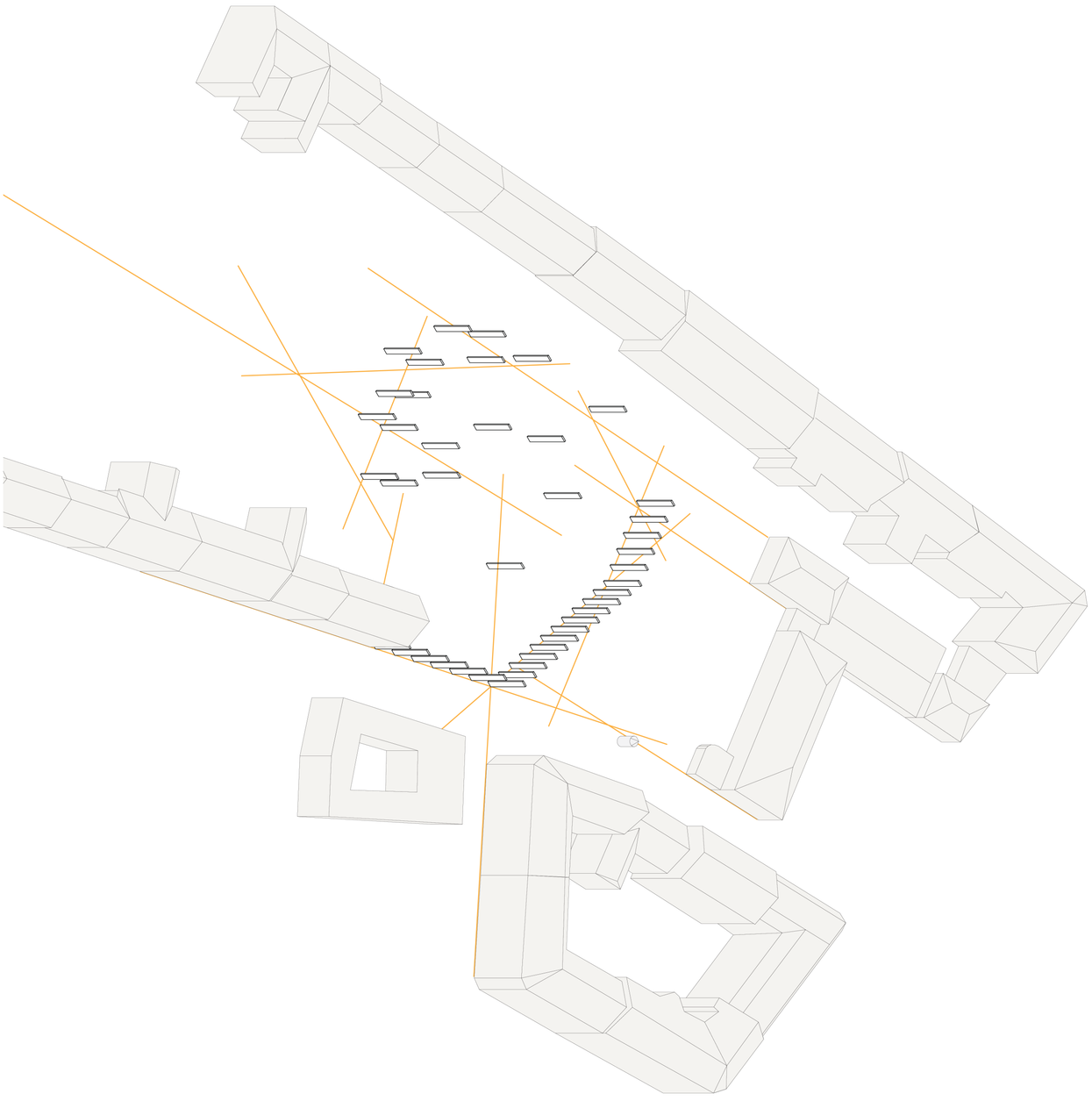


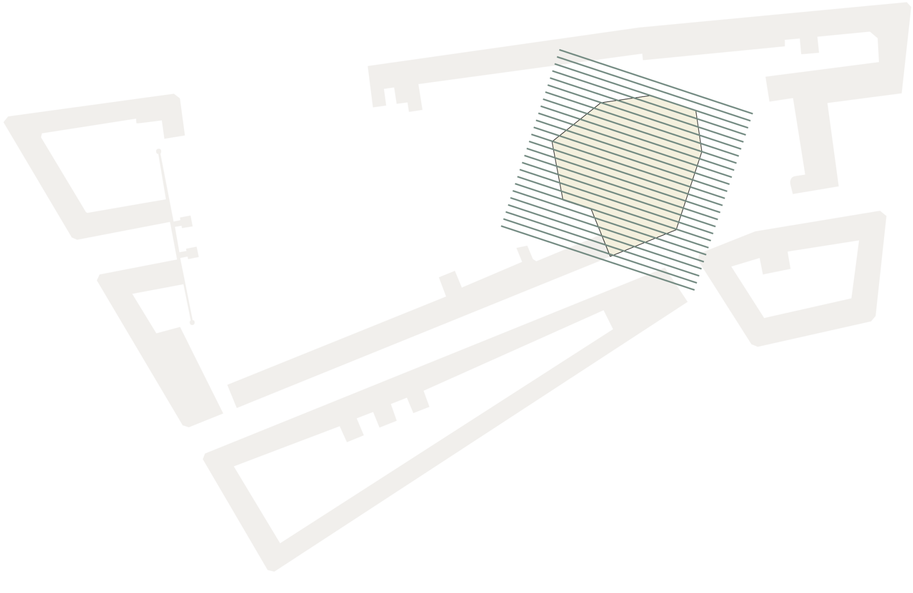


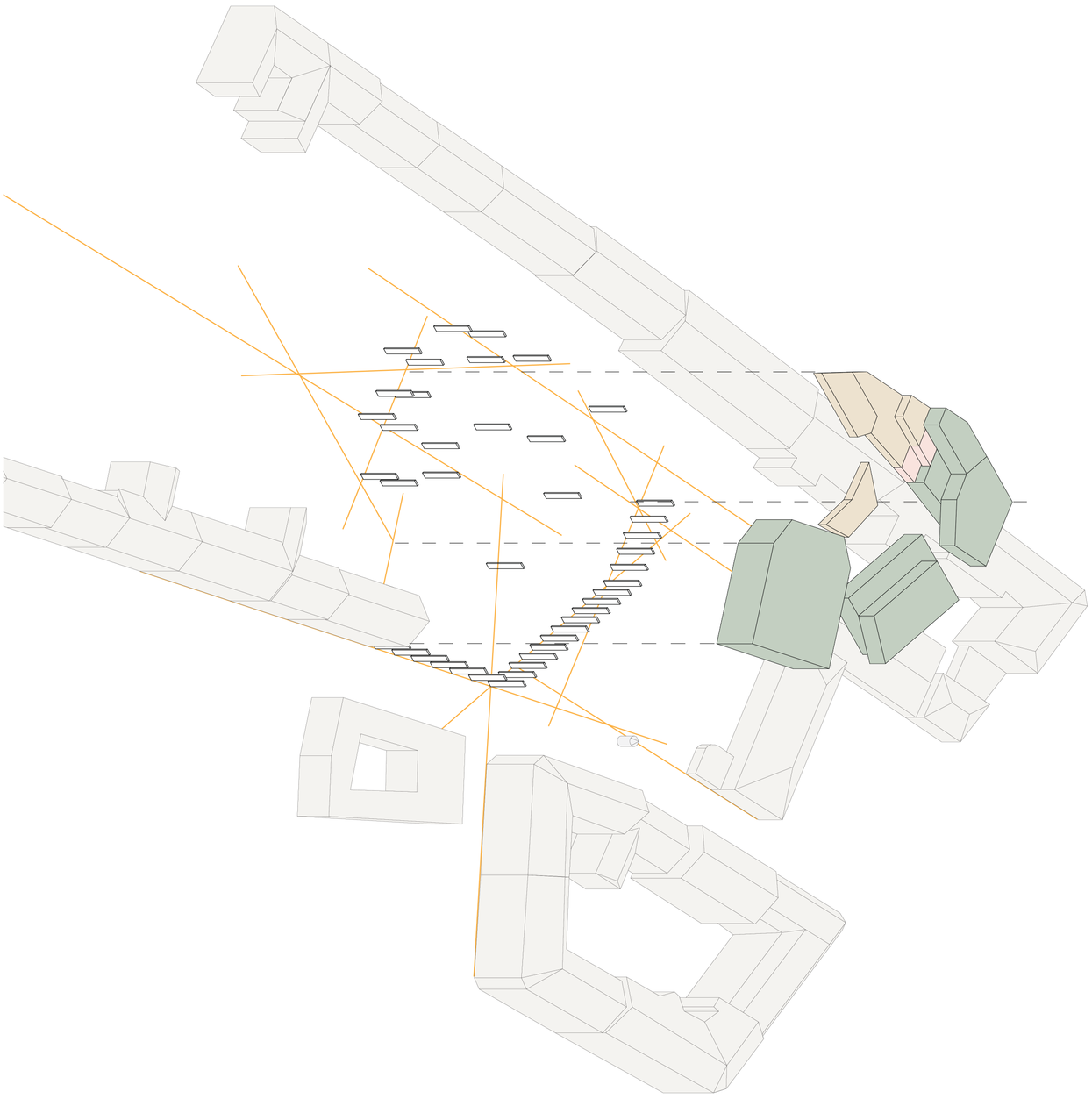


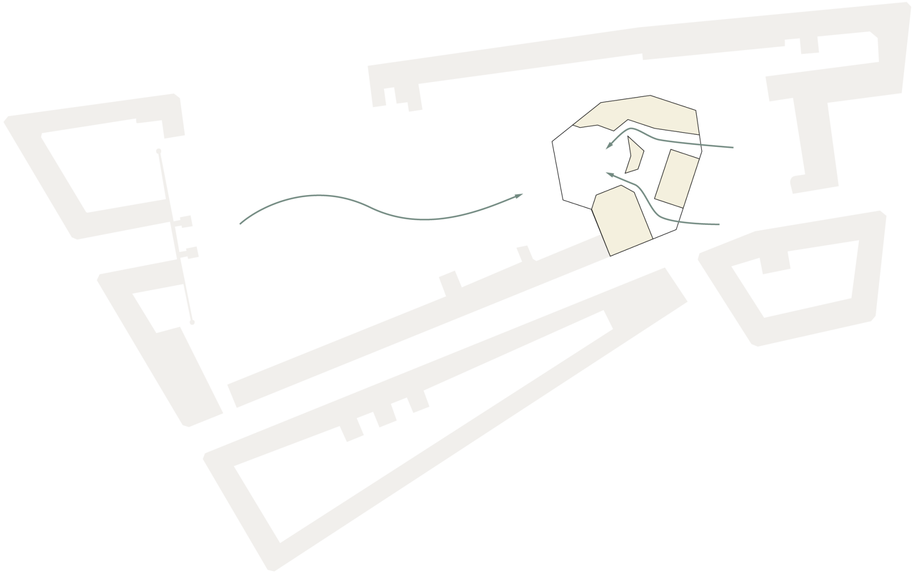


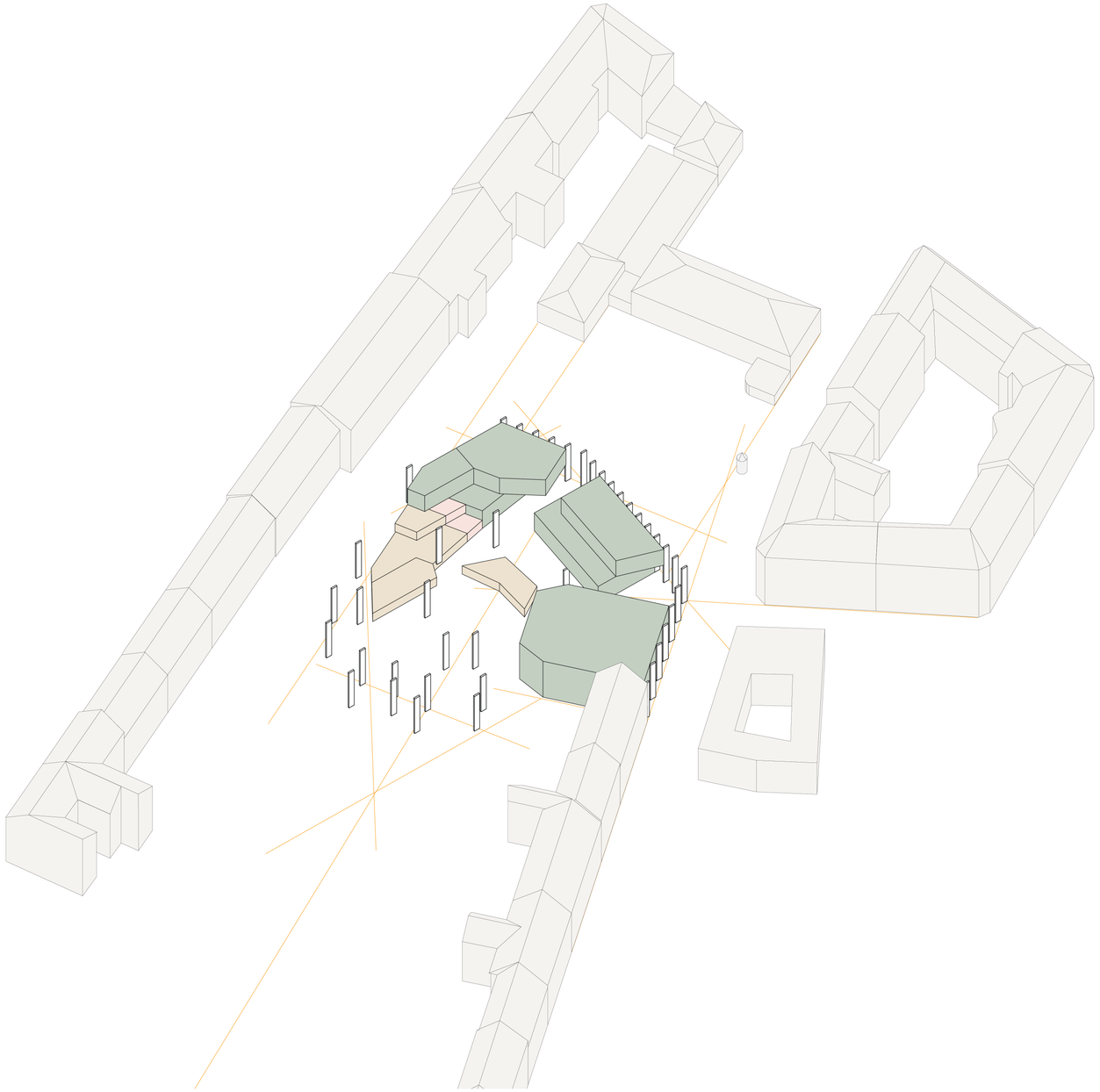












1000 m² fly theatre

275 m² box theatre

200 m² exposition space

100 m² cinema

100 m² rehearsal room

50 m² broadcast studio

75 m² tour office

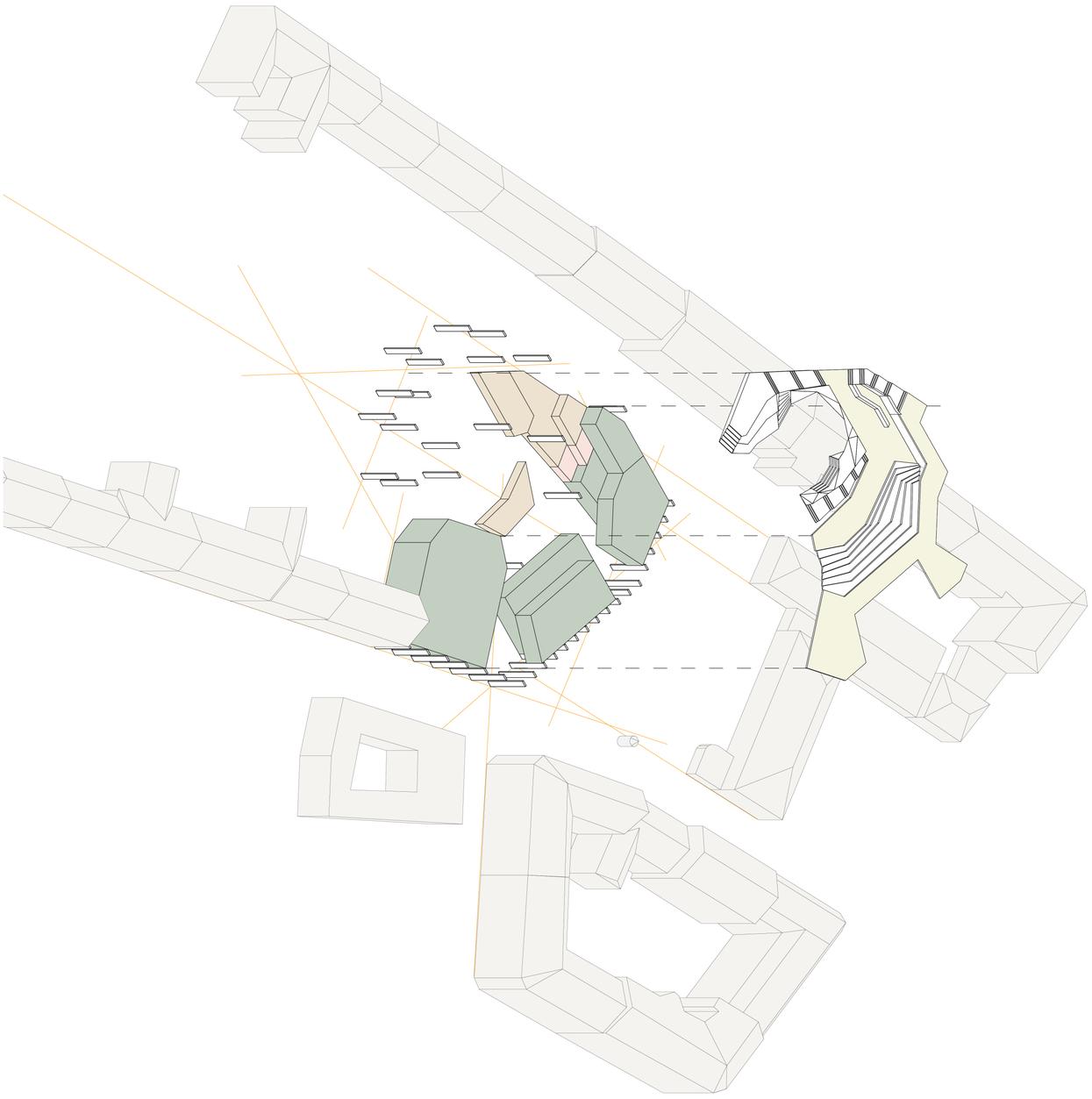
130 m² toilets

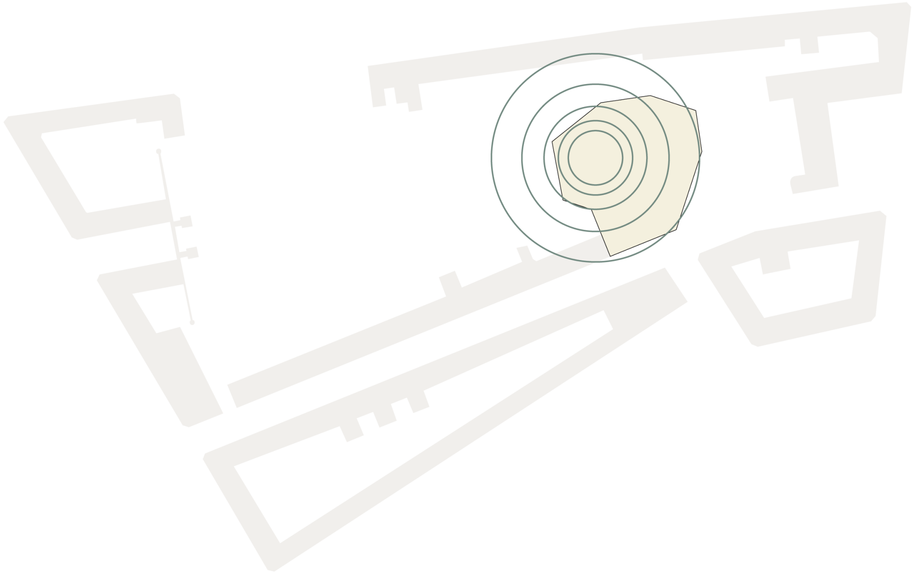
75 m² reception/cloakroom

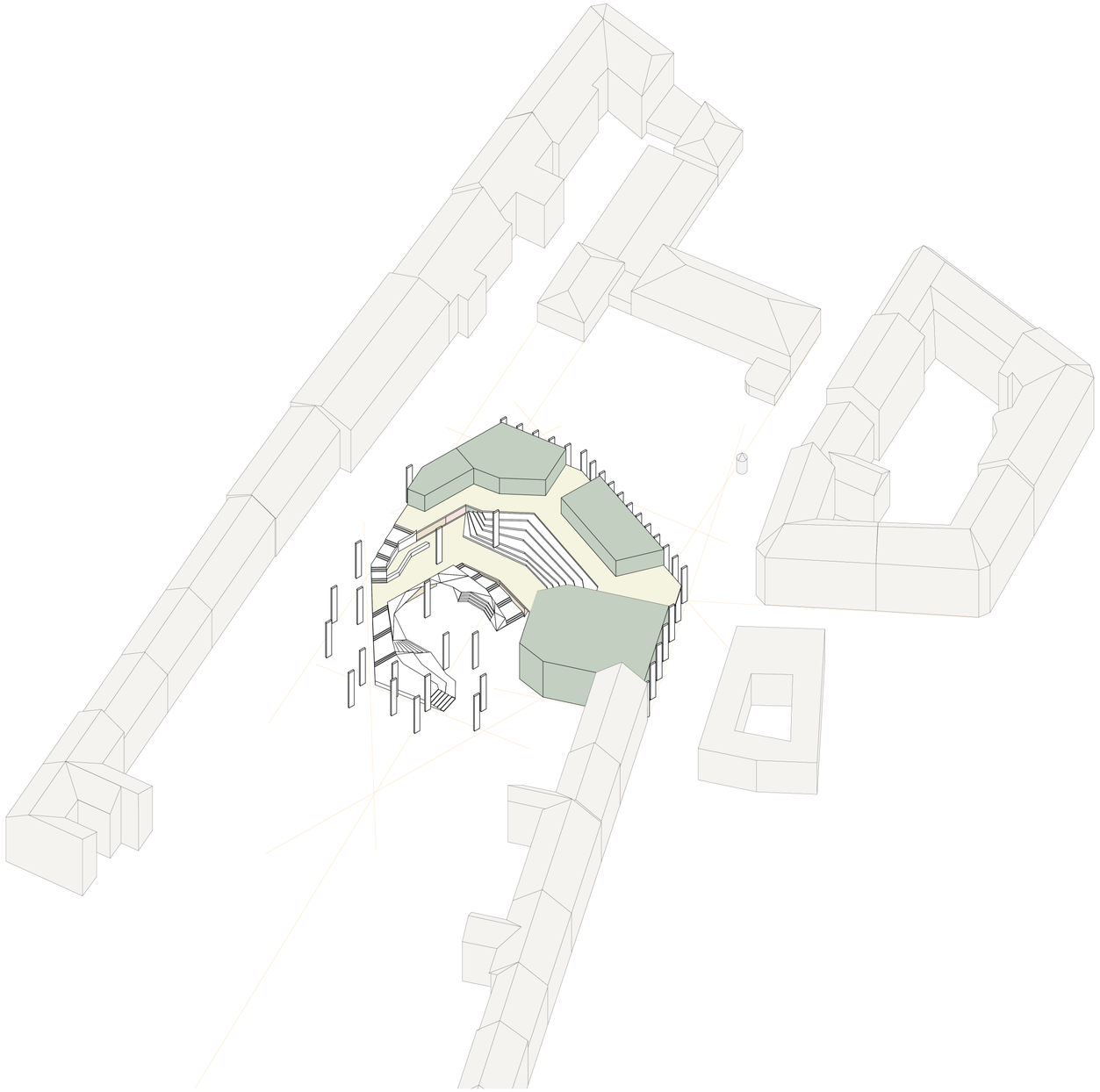
100 m² kitchen

30 m² staff room

75 m² office







170 m² entrance zone

410 m² reception zone

780 m² restaurant zone

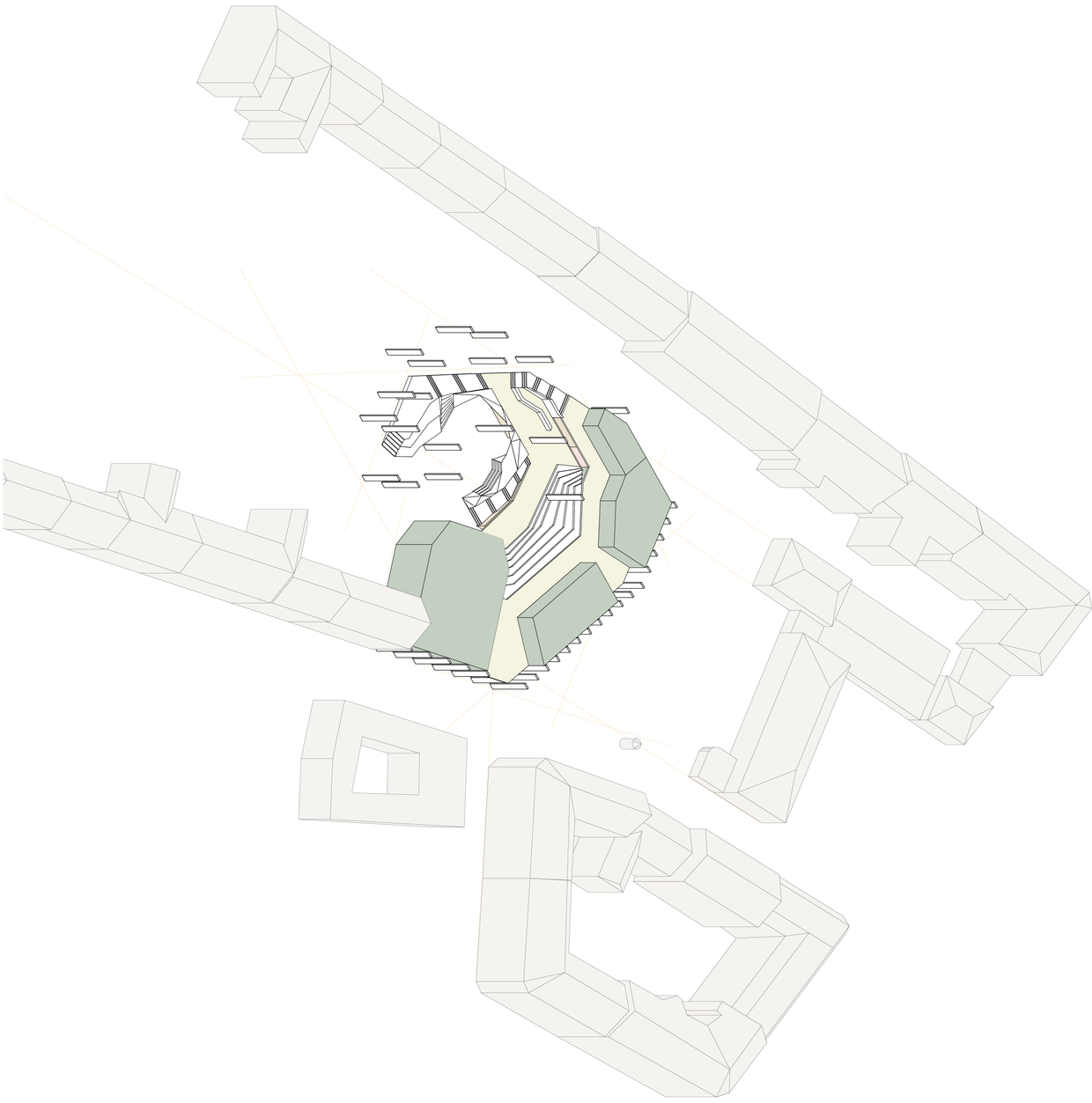
200 m² bar zone

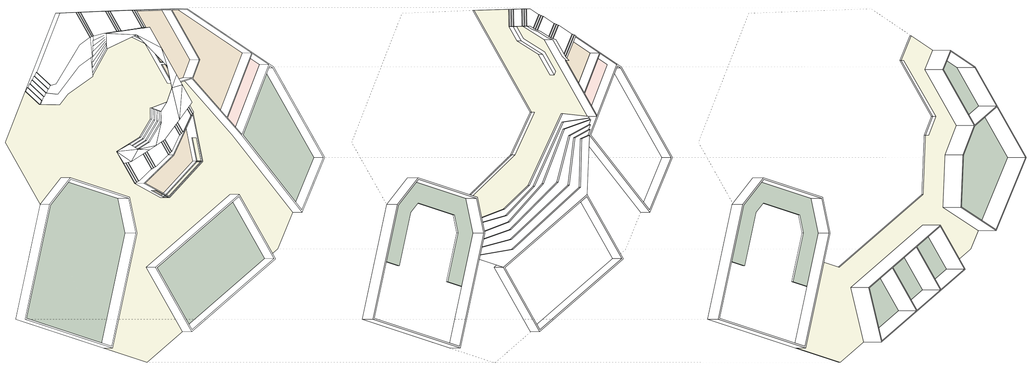
350 m² foyer zone

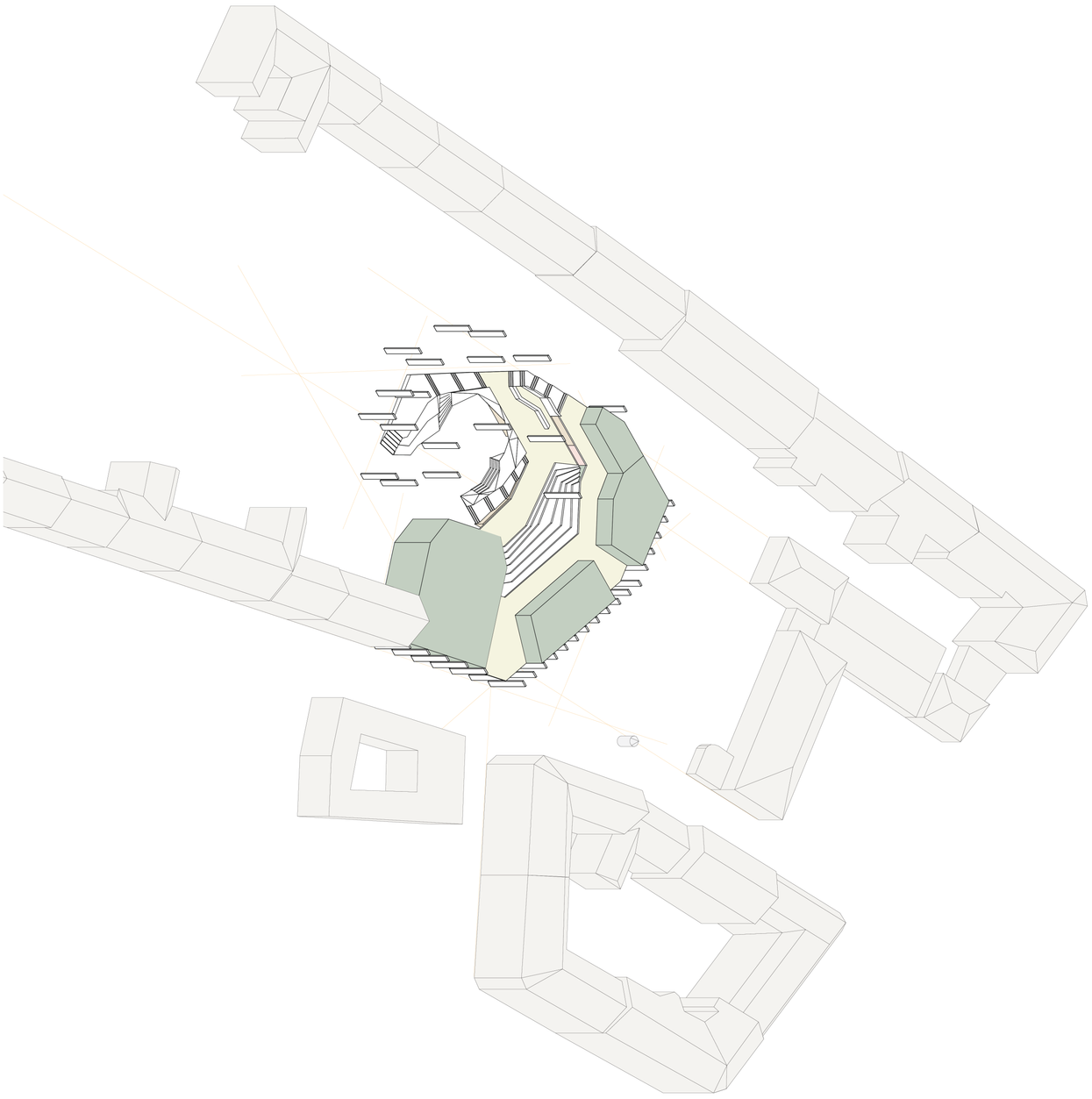
450 m² library zone

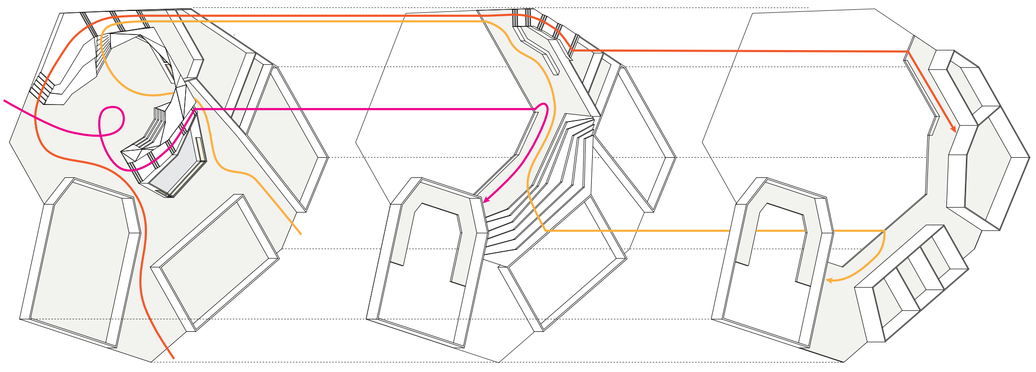
Arena 2250 m²

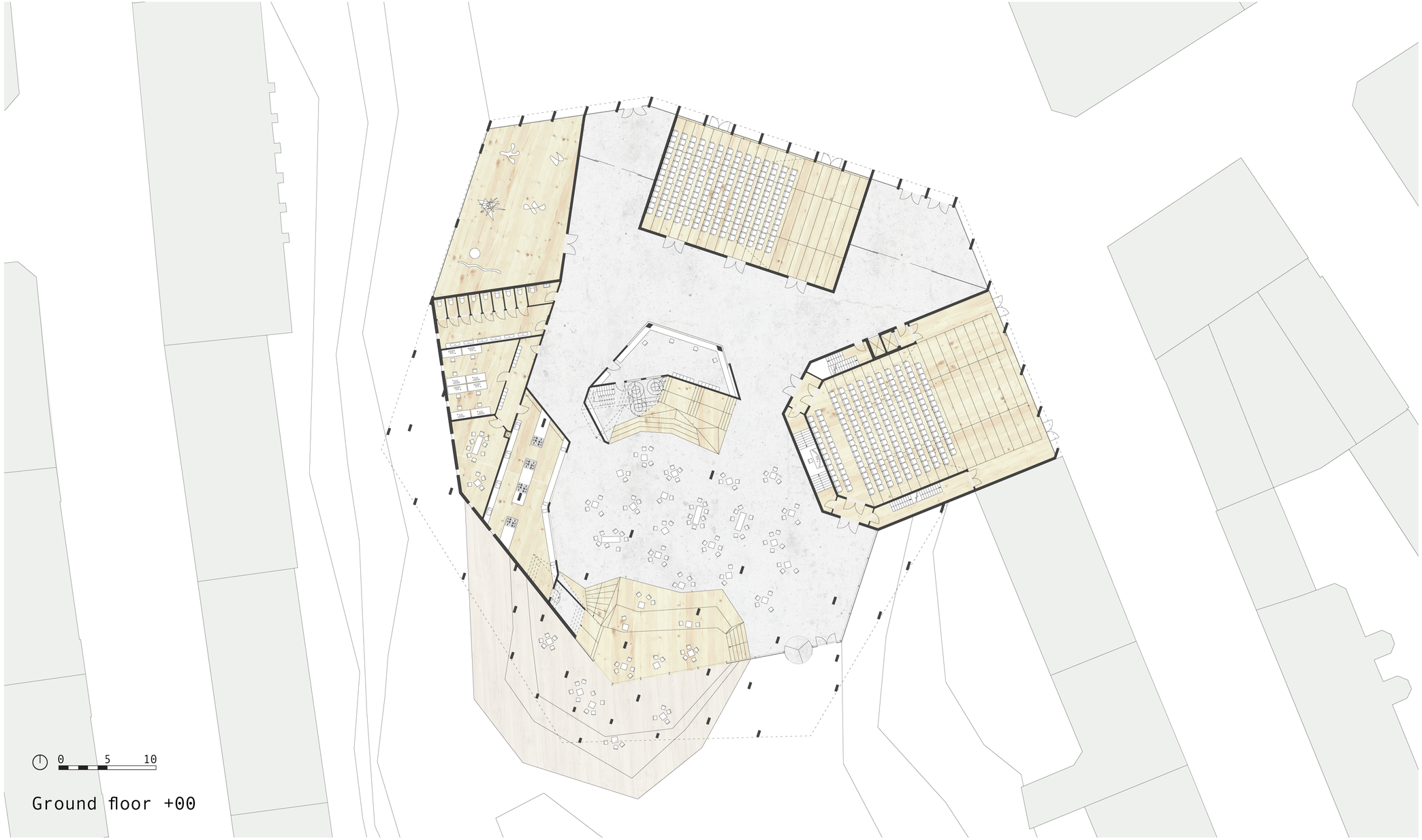
Total 4500 m²



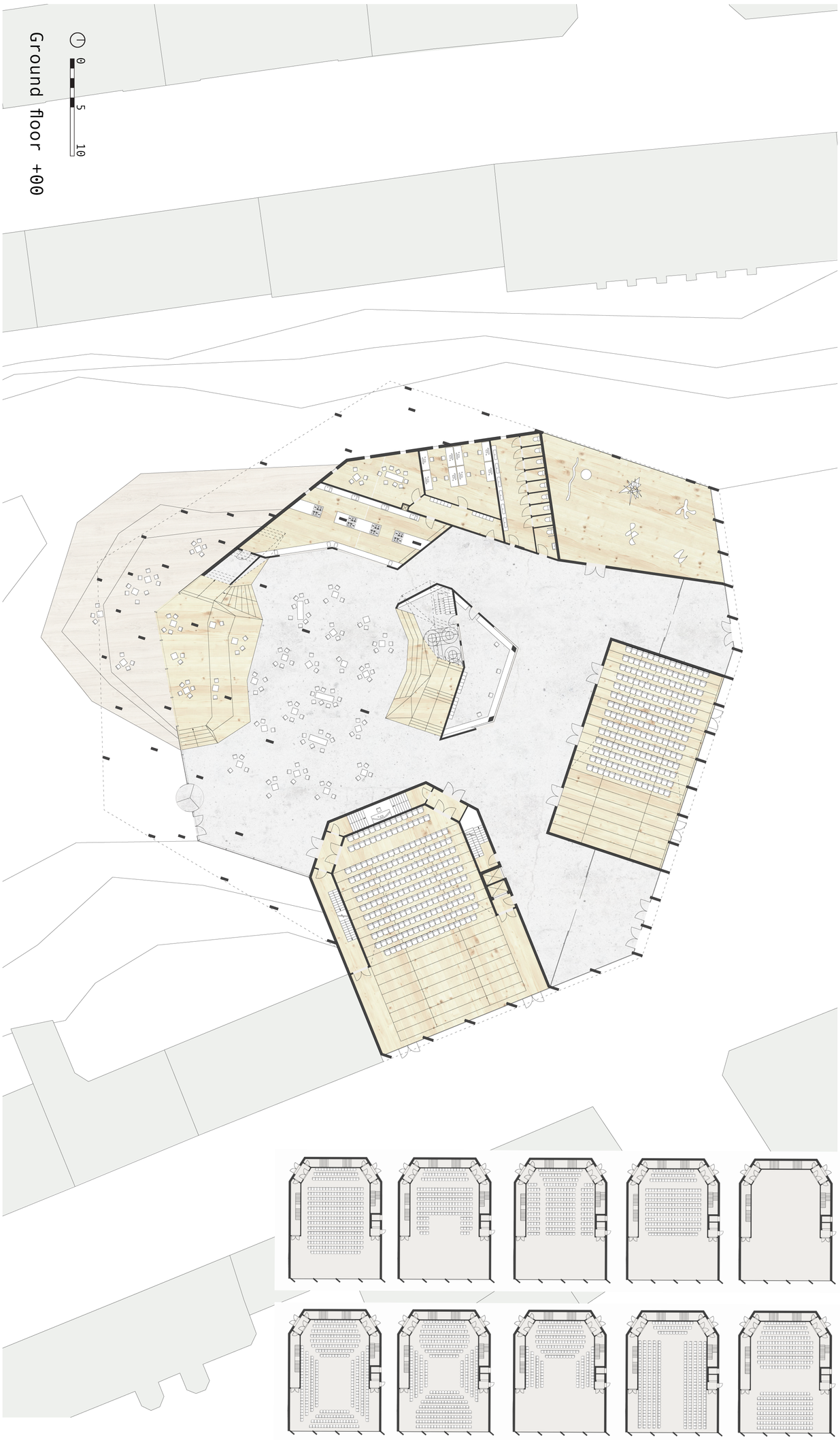


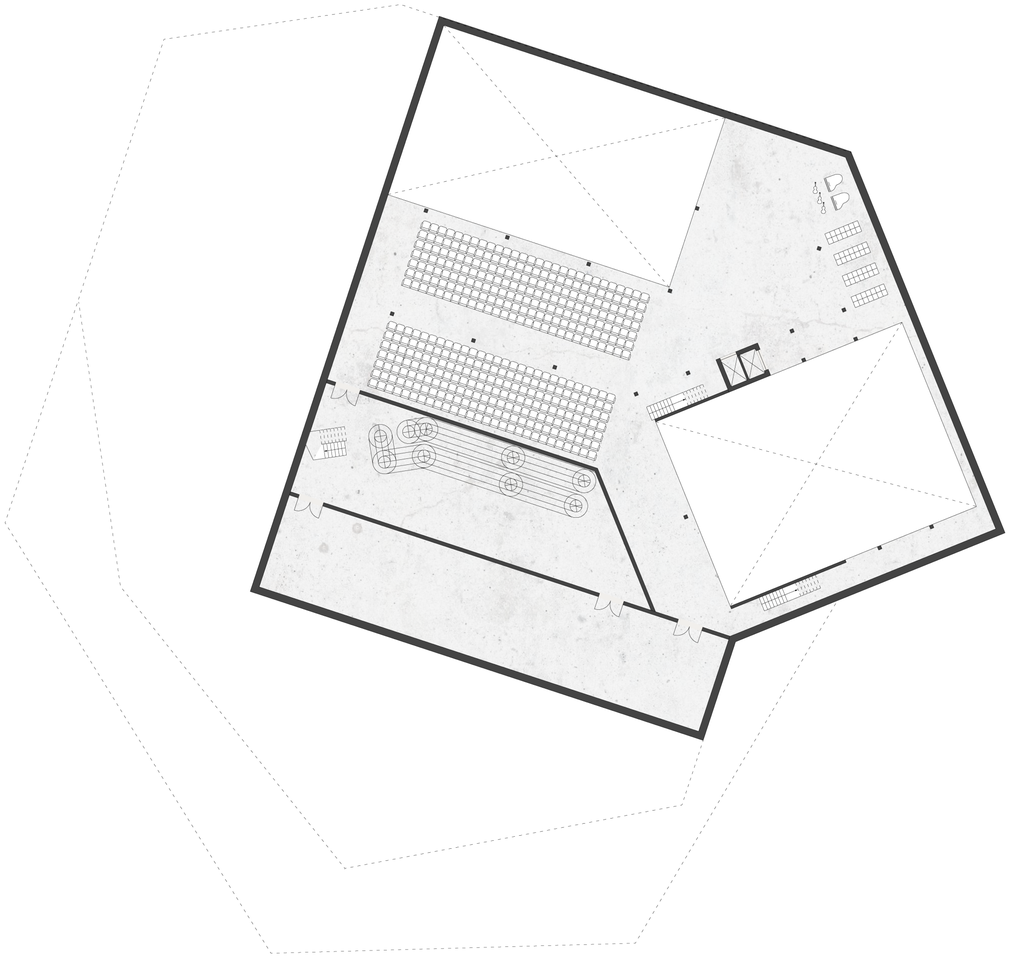






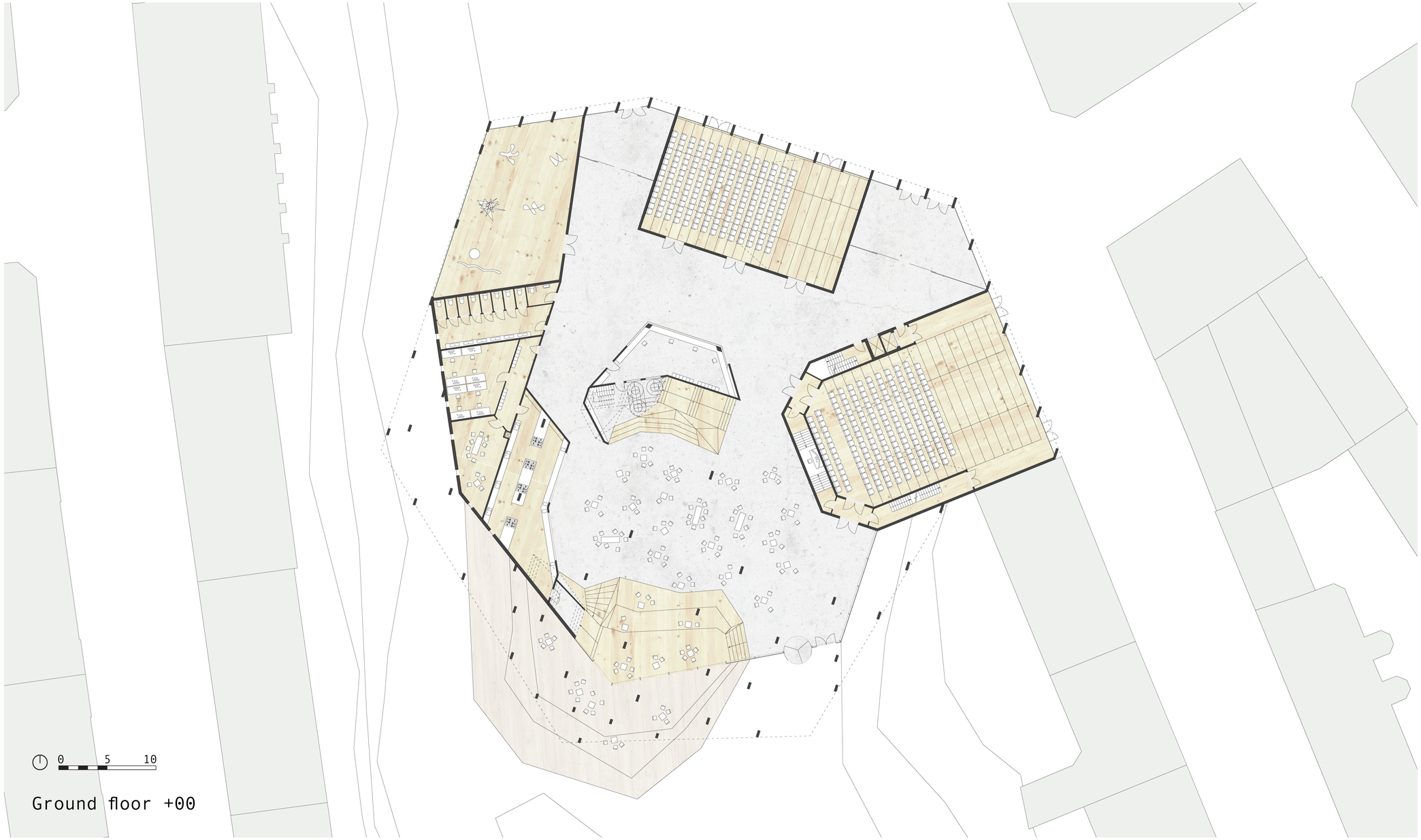
Ground floor +00


Ground floor +00
0
5
10

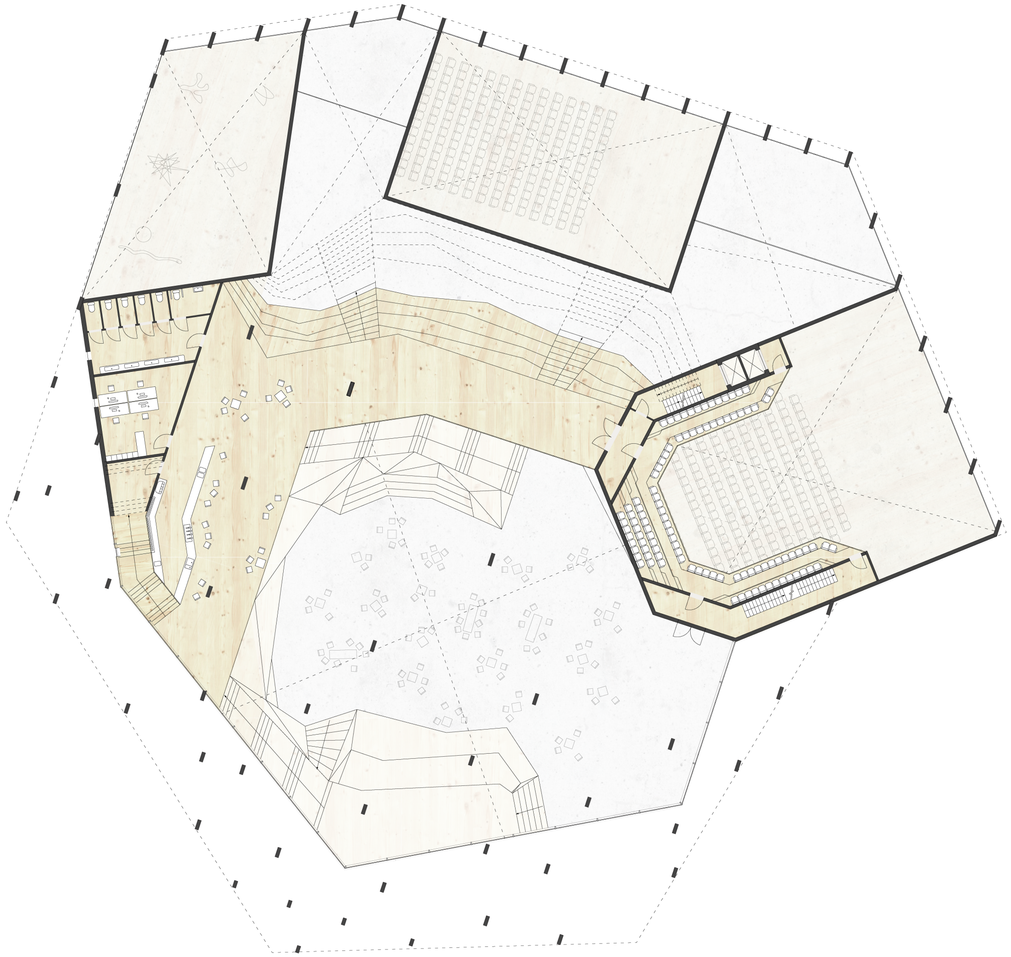


0 5 10

Basement -2700

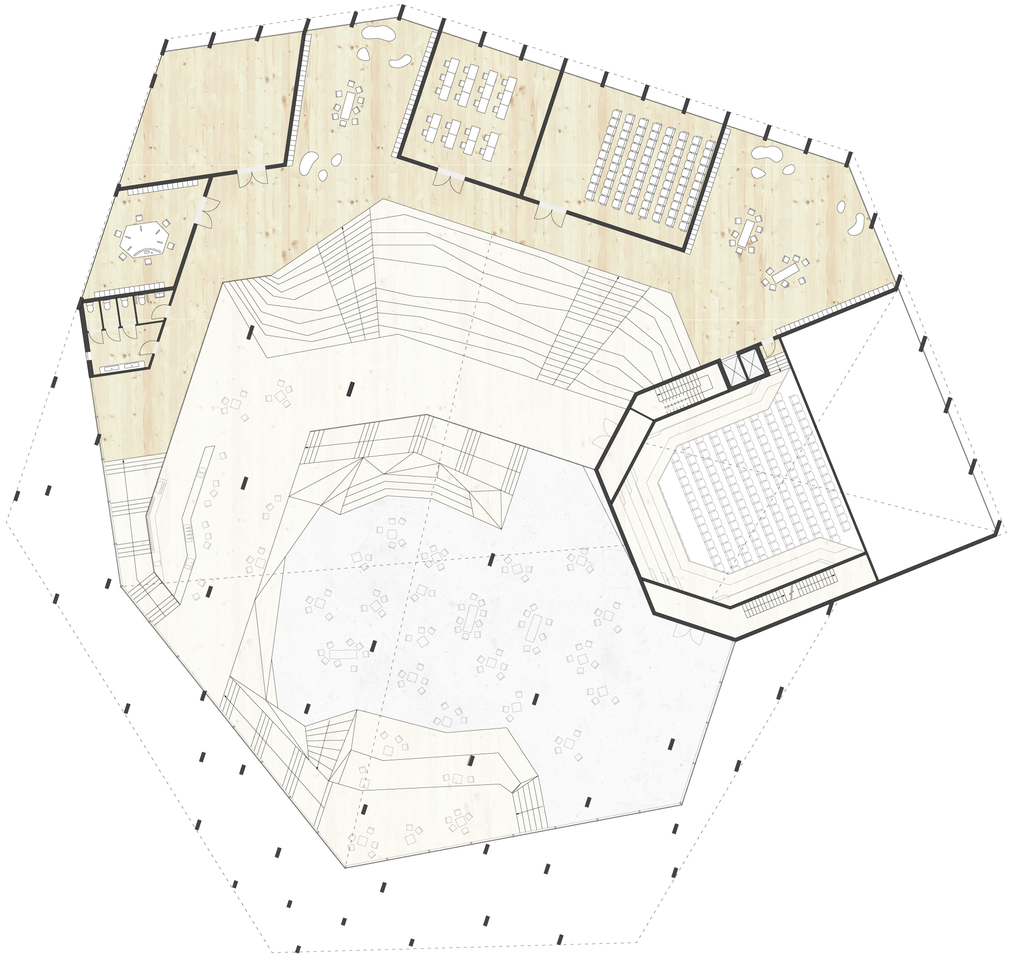


Ground floor +00



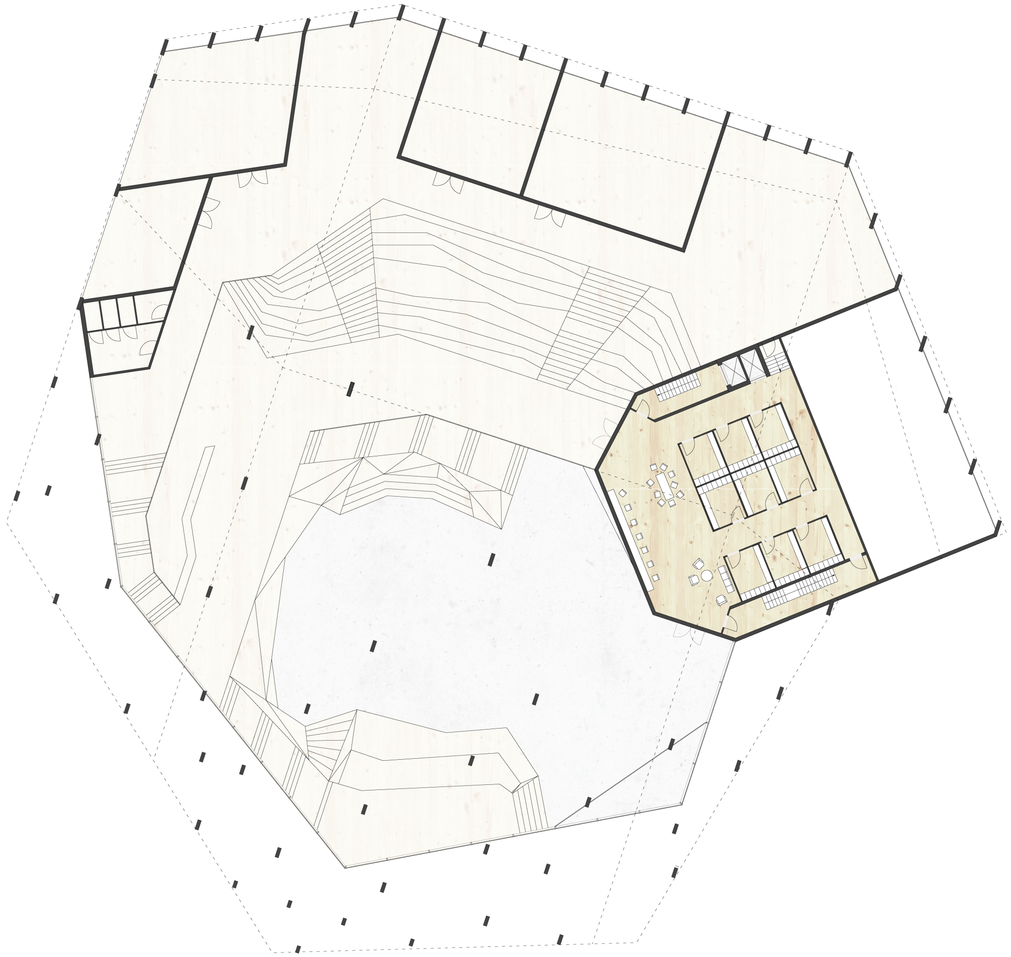
0 5 10

First floor +4000



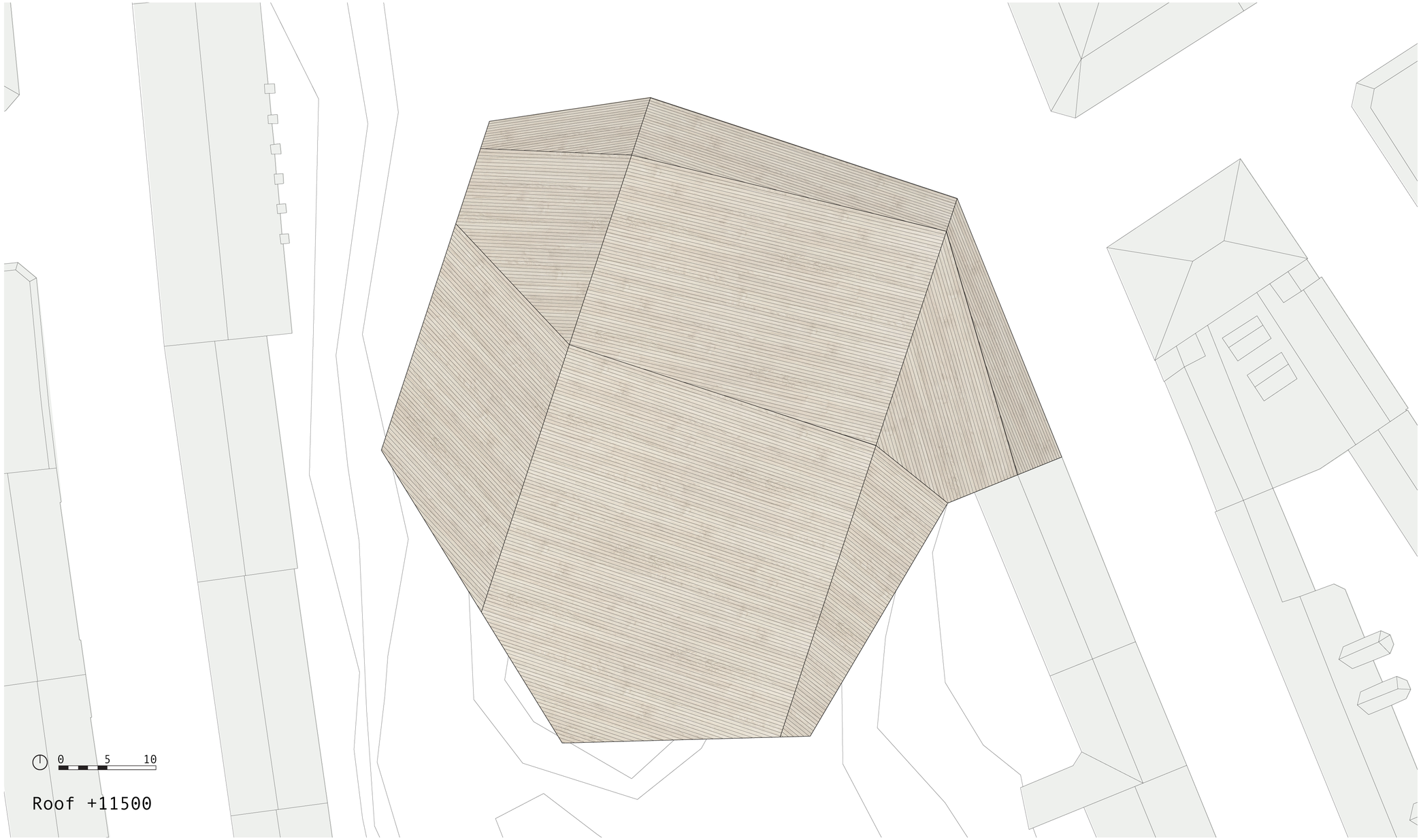
0 5 10

Second floor +8000



0 5 10

Third floor +9000


0
5
10
Roof +11500



0 25 50

Skydebanehaven roofscape



0 25 50

Skydebanehaven nolli map







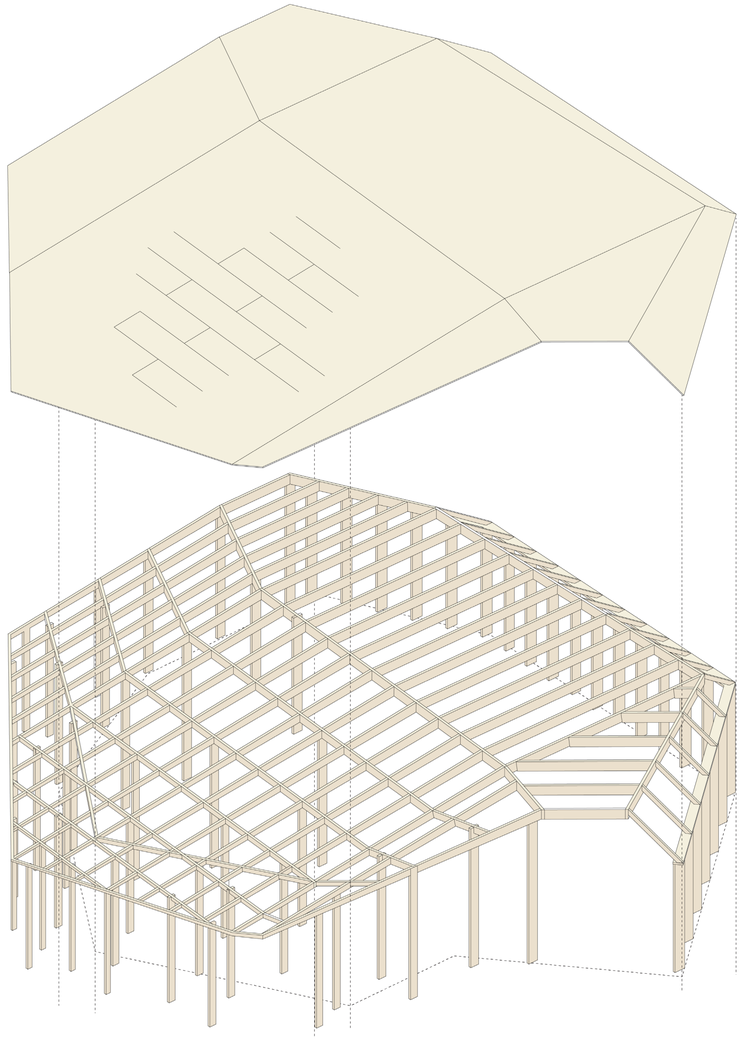






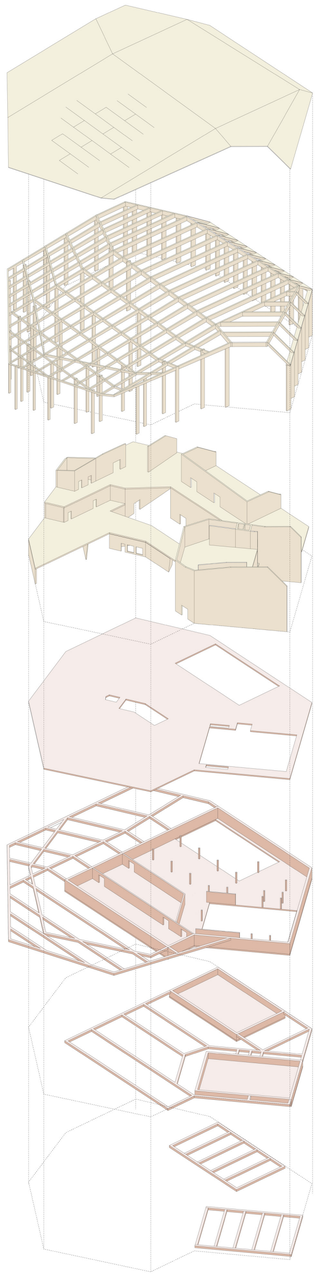
0 25 50

Skydebanehaven nolli map



3-PLY CLT roof elements (3x12m)

GLULAM post and beam structure



3-PLY CLT roof elements

horizontal stability

GLULAM post and beam structrue

5-PLY CLT shear wall and floor elements

horizontal and vertical stability

Concrete ground-floor slab

Upper concrete basement

and foundation beams

Lower concrete basement

and foundation beams

Concrete foundation beams

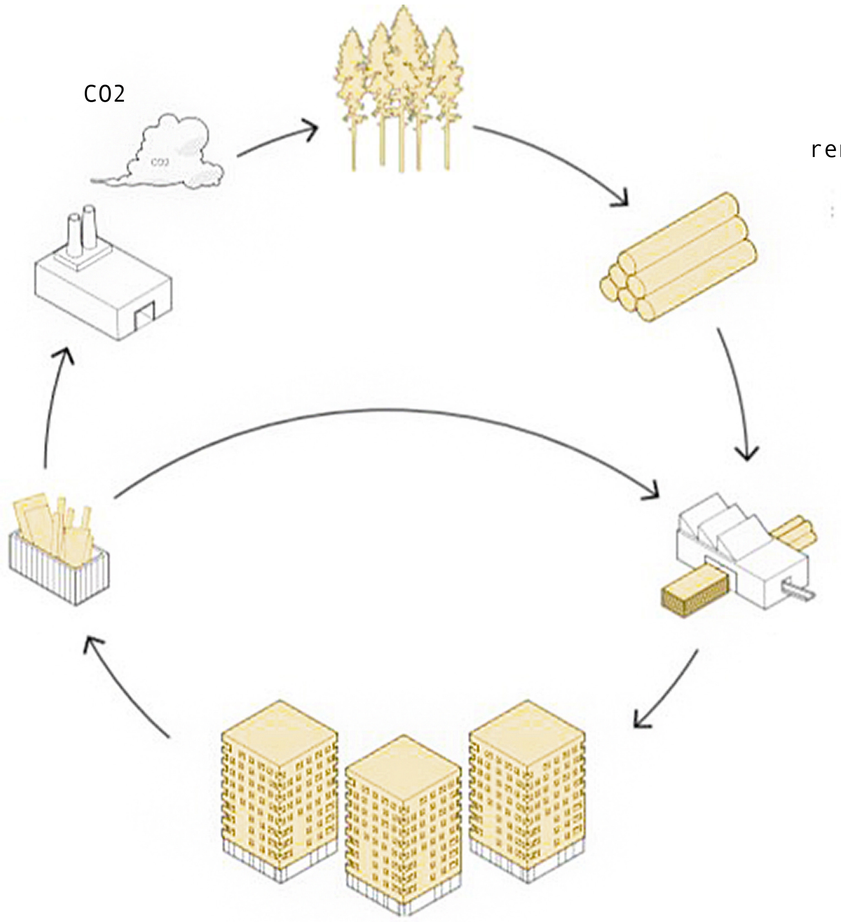


CO2 is stored in wood by photosynthesis

CO2

renewable, fast growing resource

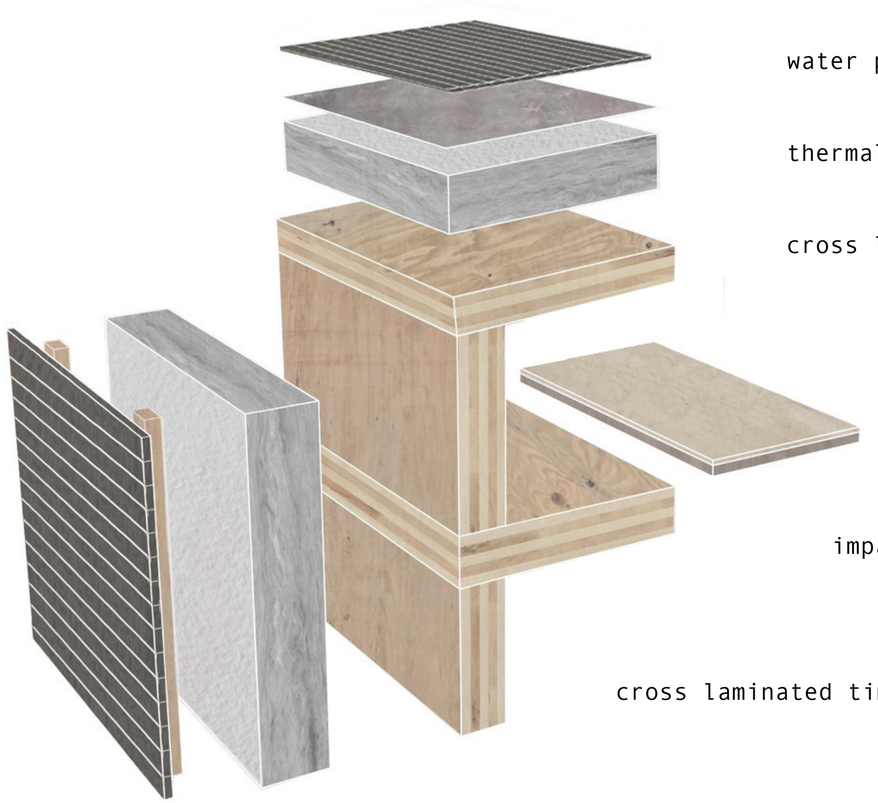
burning wood = clean energy

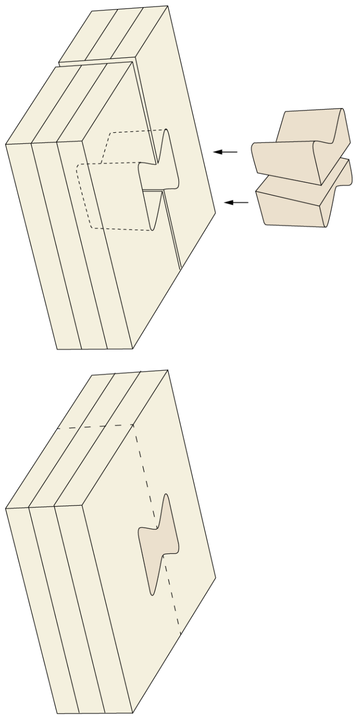


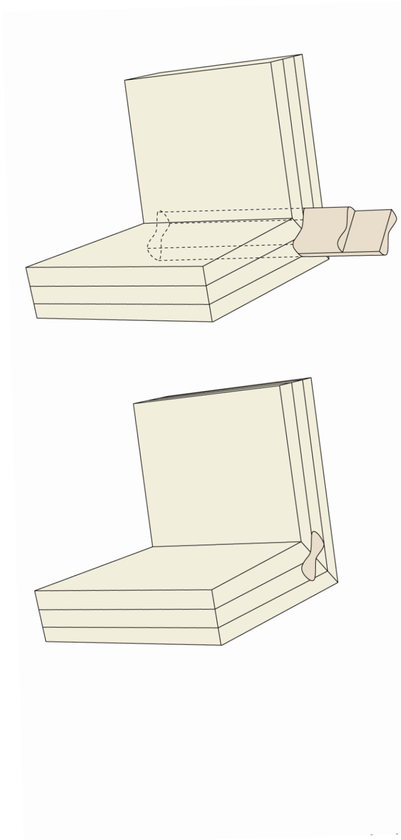
possibility to reuse or recycle

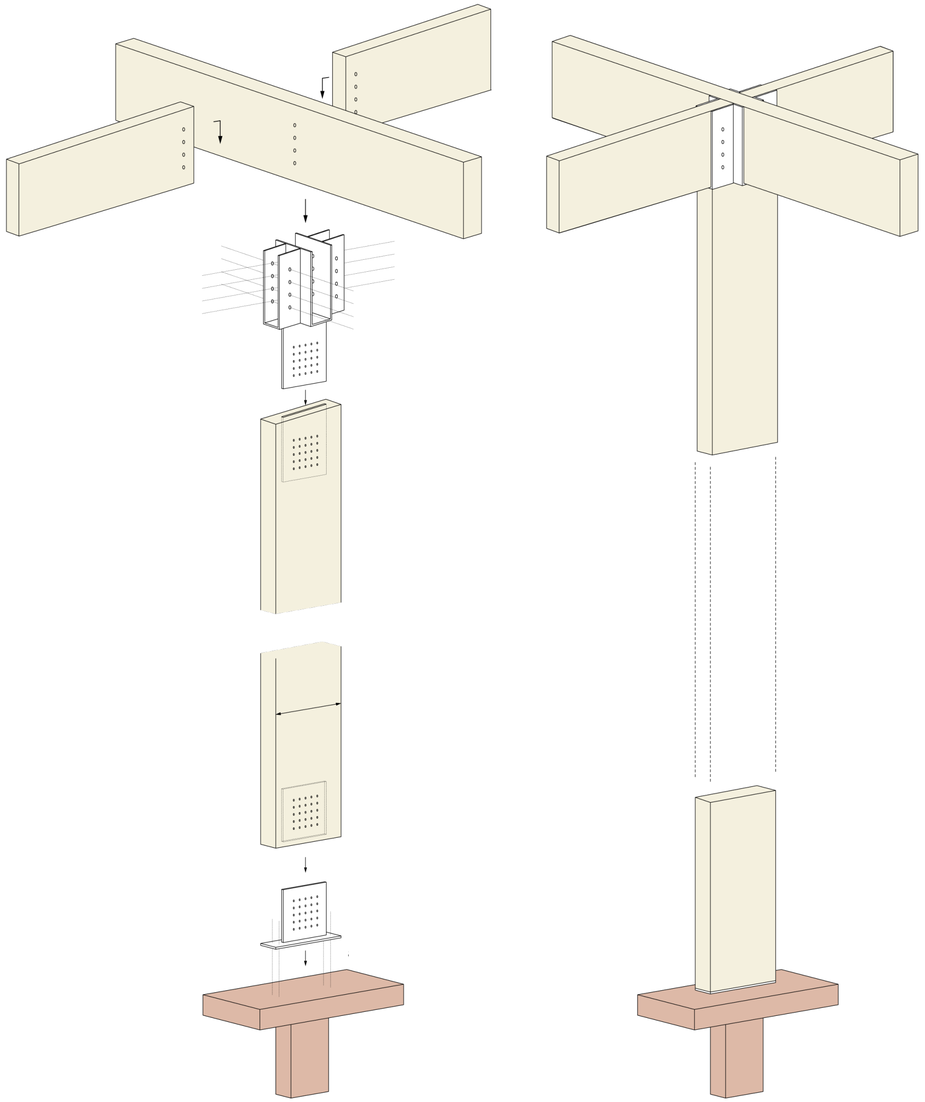
no waste, no pollution

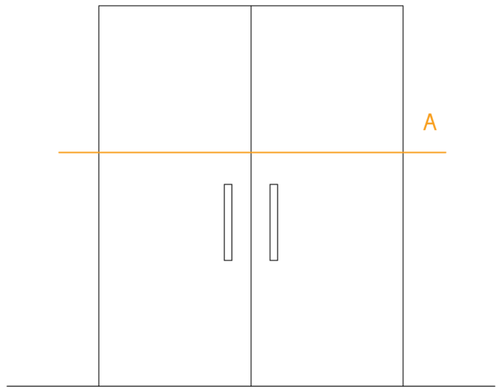
CO2 storage in buildings


cladding
water proofing
thermal insuation
cross laminated timber
flooring
impact sound insulation
cross laminated timber
thermal insulation
cladding

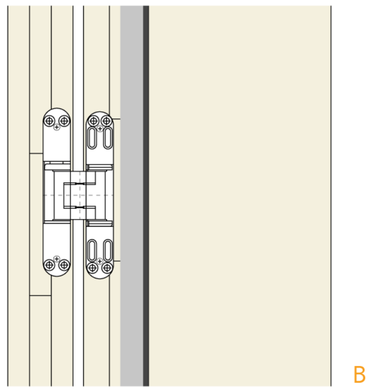


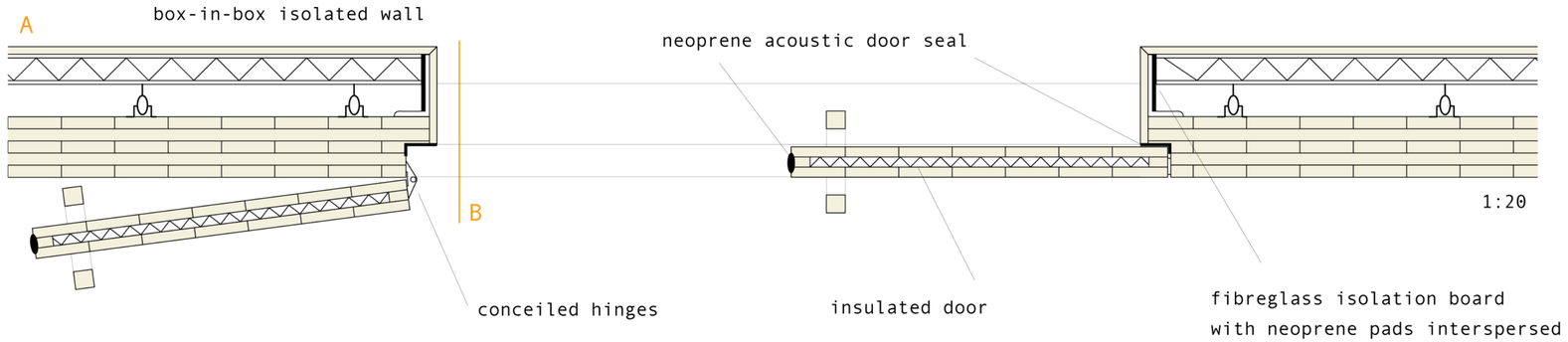




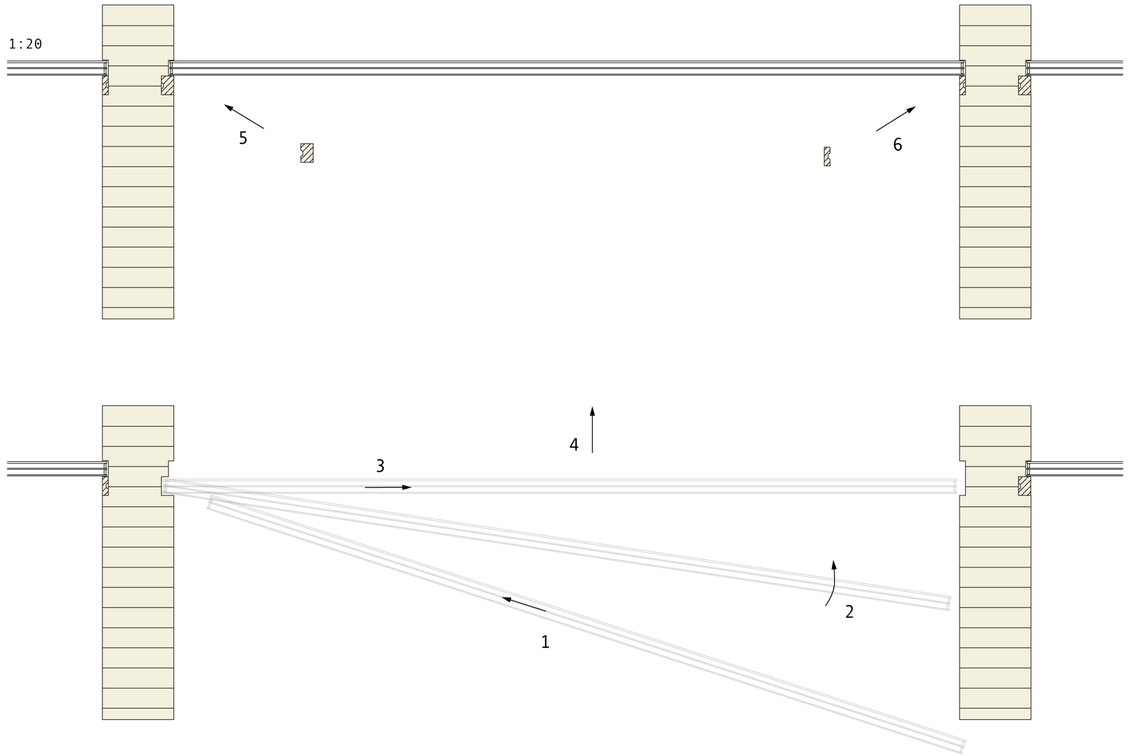

A

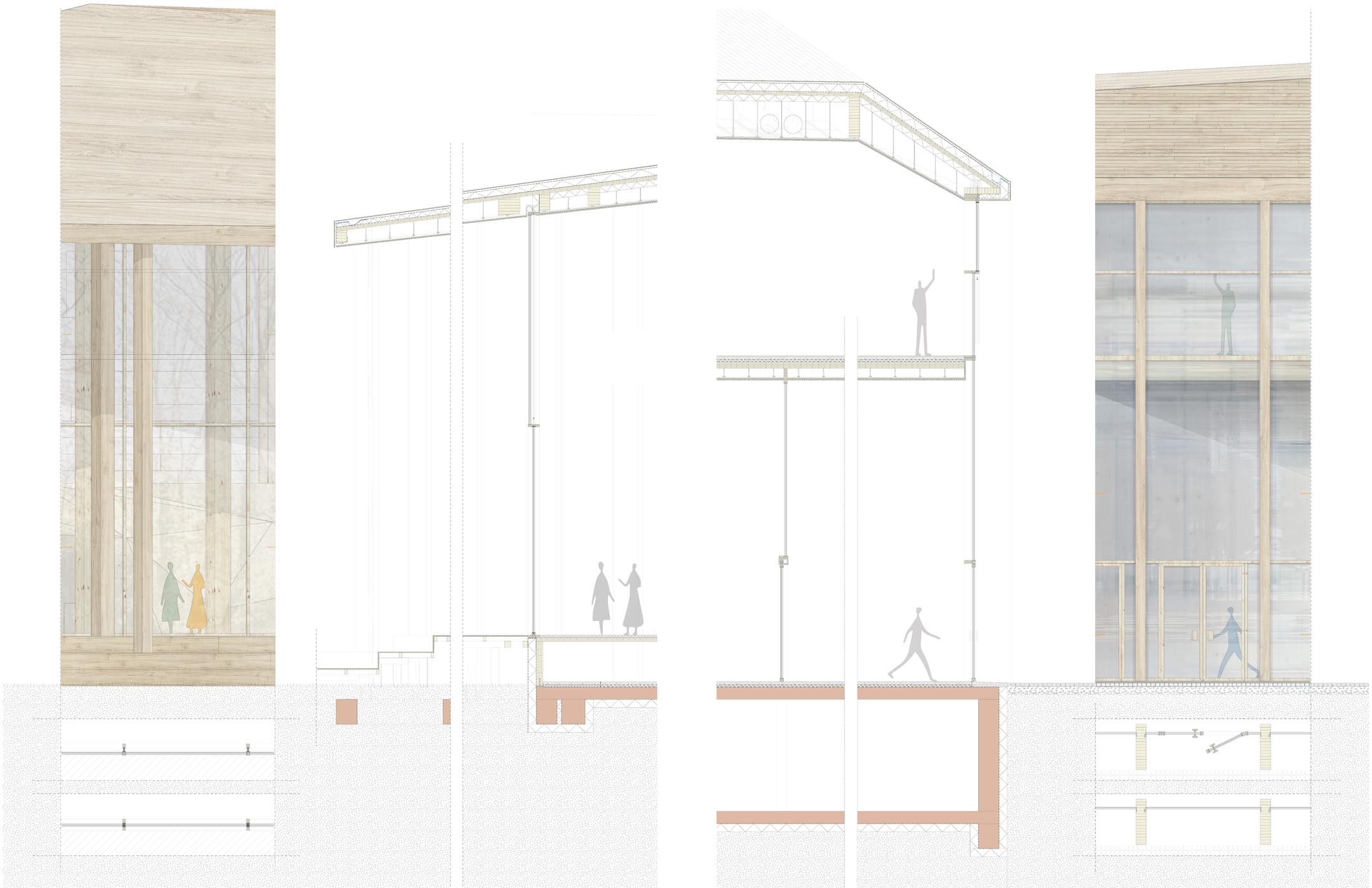
1:10

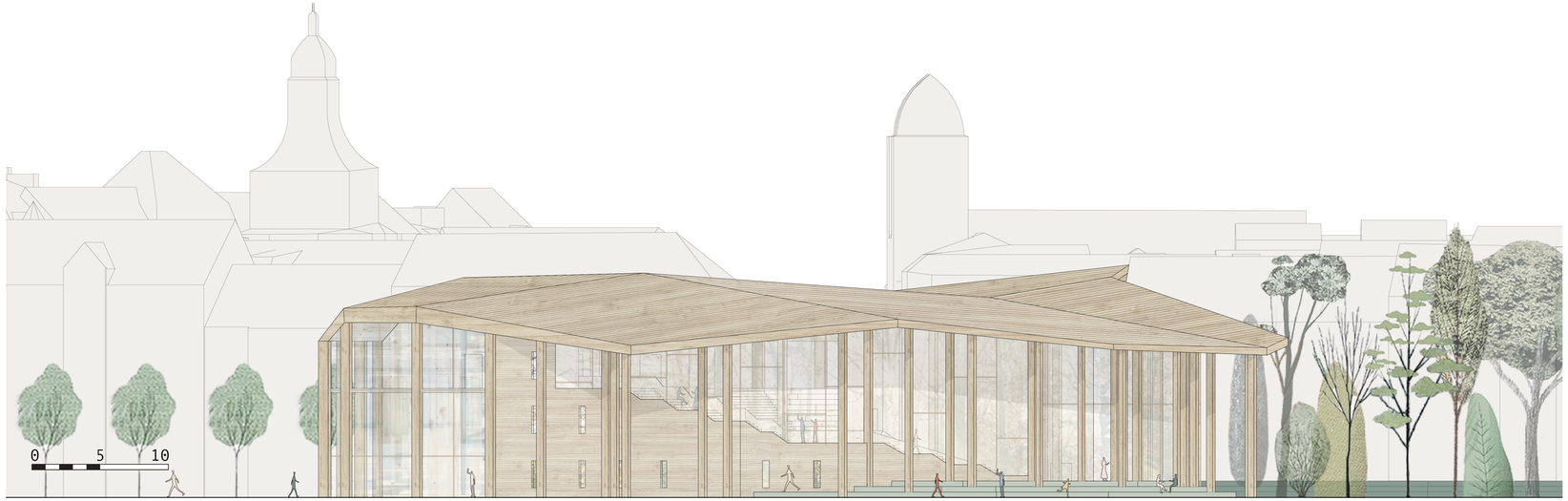

B


A
box-in-box isolated wall
B
conceiled hinges
neoprene acoustic door seal
insulated door
fibreglass isolation board
with neoprene pads interspersed

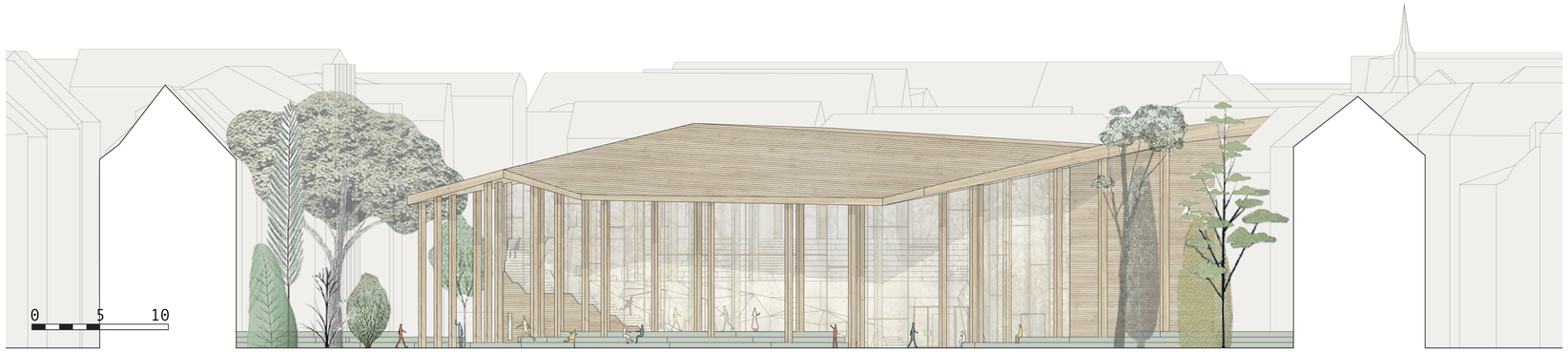
1:20


1:20
5
6
4
3
2
1





West elevation



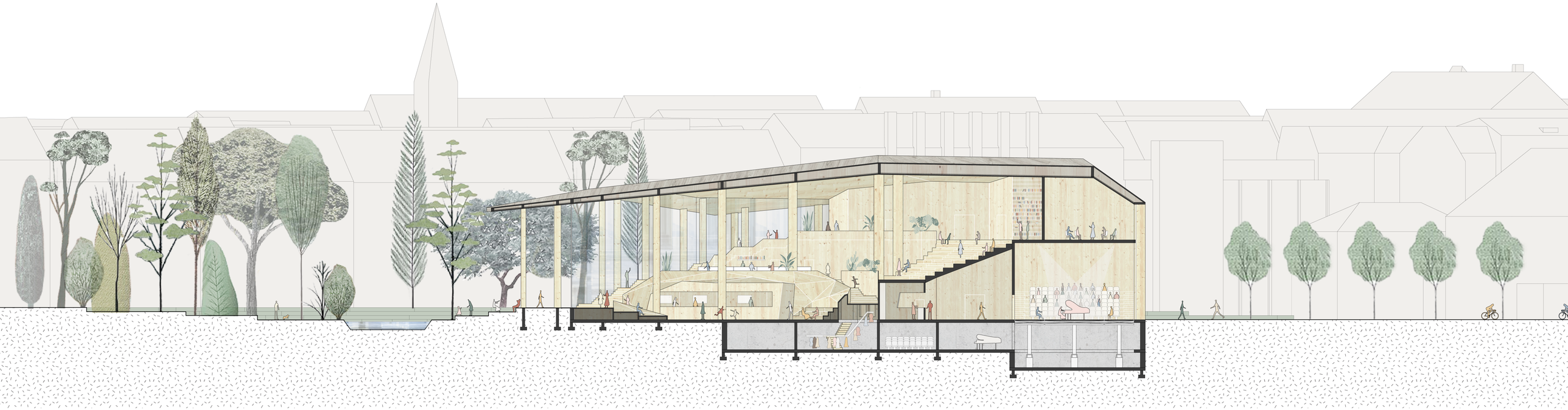
South elevation

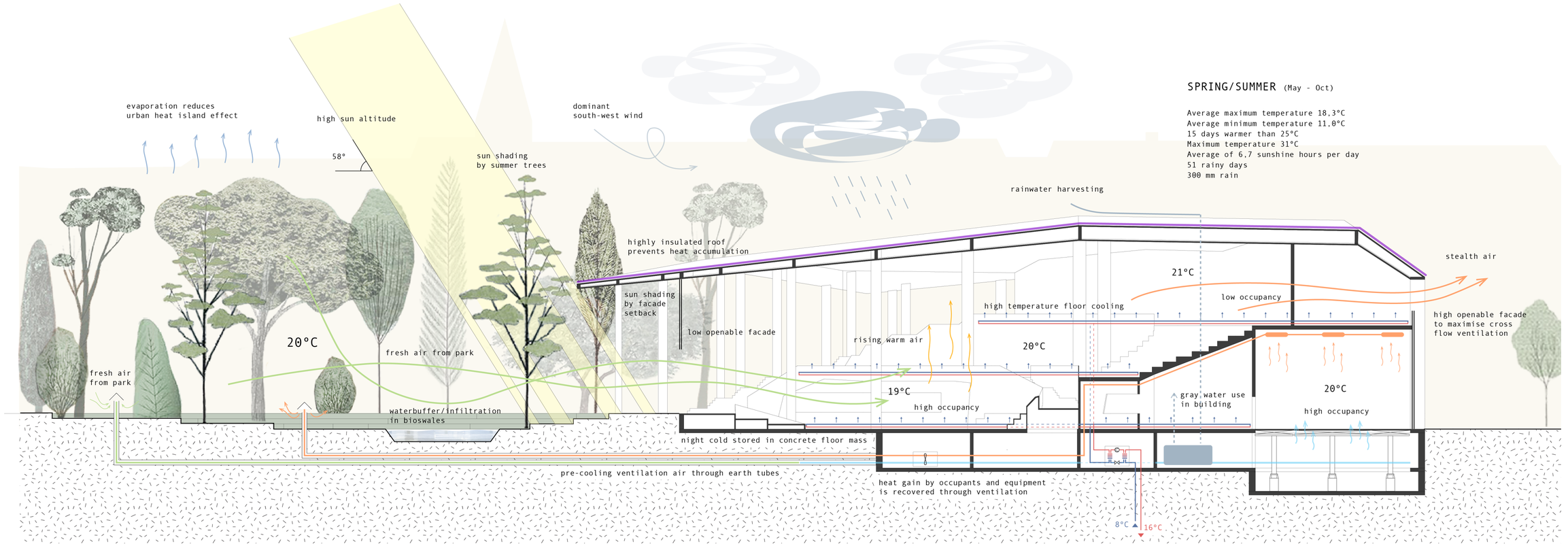


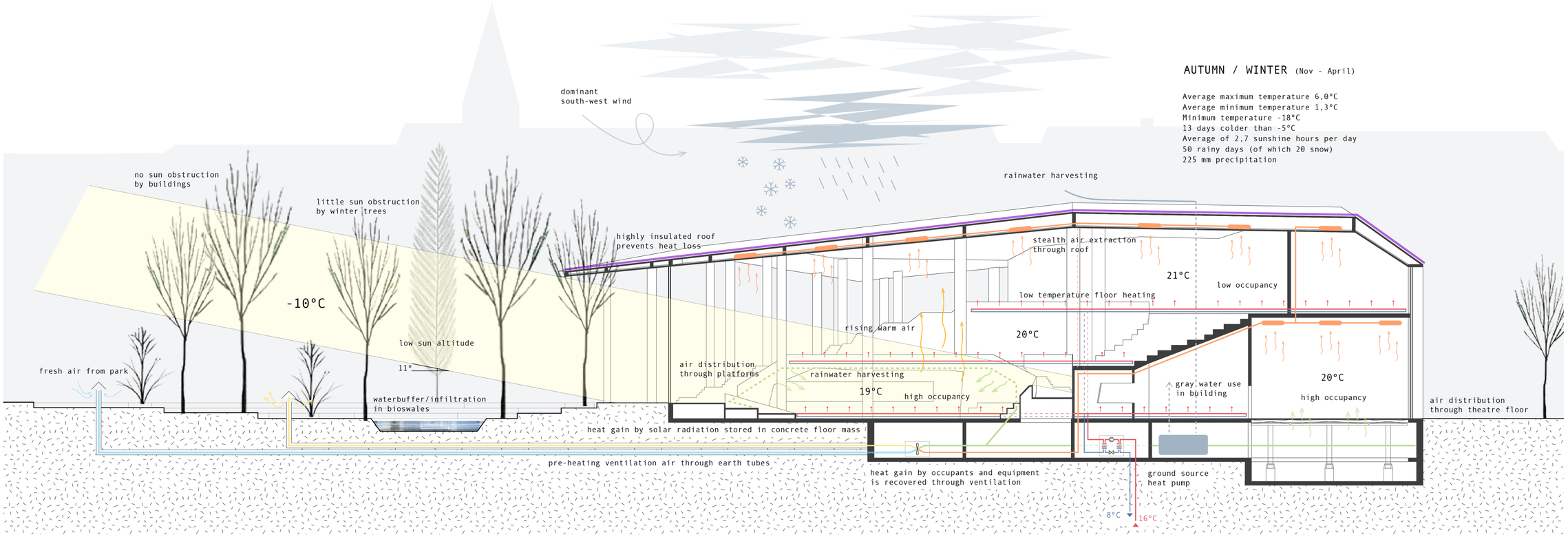
North elevation

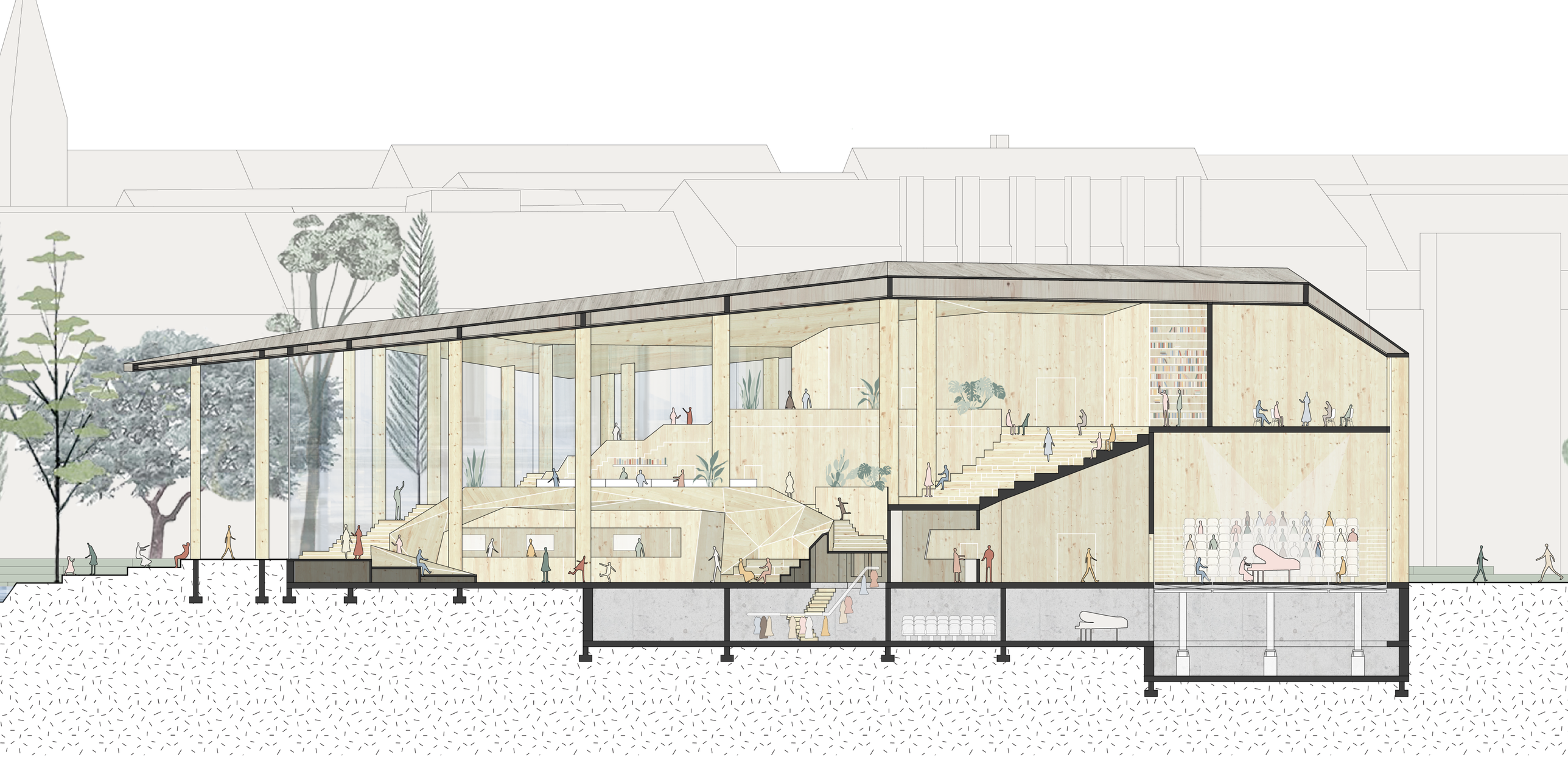


East elevation



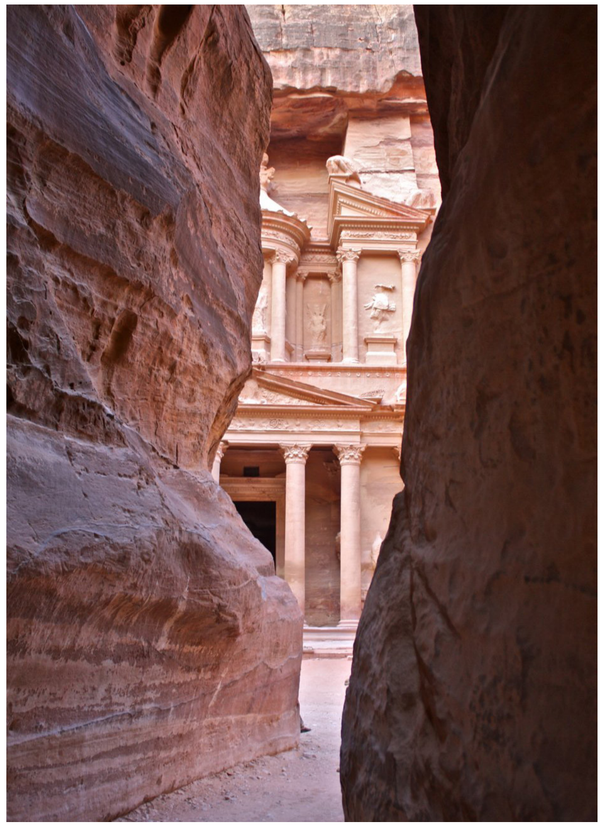

evaporation reduces
urban heat island effect
high sun altitude
58°
dominant
south-west wind
sun shading
by summer trees
SPRING/SUMMER (May - Oct)
Average maximum temperature 18,3°C
Average minimum temperature 11,0°C
15 days warmer than 25°C
Maximum temperature 31°C
Average of 6,7 sunshine hours per day
51 rainy days
300 mm rain
rainwater harvesting
highly insulated roof
prevents heat accumulation
stealth air
21°C
low occupancy
sun shading
by facade
setback
low openable facade
high temperature floor cooling
high openable facade
to maximise cross
flow ventilation
20°C
rising warm air
20°C
fresh air
from park
fresh air from park
19°C
high occupancy
gray water use
in building
20°C
high occupancy
waterbuffer/infiltration
in bioswales
night cold stored in concrete floor mass
pre-cooling ventilation air through earth tubes
heat gain by occupants and equipment
is recovered through ventilation
8°C
16°C


AUTUMN / WINTER (Nov - April)
Average maximum temperature 6,0°C
Average minimum temperature 1,3°C
Minimum temperature -18°C
13 days colder than -5°C
Average of 2,7 sunshine hours per day
50 rainy days (of which 20 snow)
225 mm precipitation
dominant
south-west wind
no sun obstruction
by buildings
little sun obstruction
by winter trees
-10°C
low sun altitude
11°
fresh air from park
waterbuffer/infiltration
in bioswales
highly insulated roof
prevents heat loss
rainwater harvesting
stealth air extraction
through roof
21°C
low occupancy
low temperature floor heating
rising warm air
20°C
air distribution
through platforms
rainwater harvesting
19°C
high occupancy
gray water use
in building
20°C
high occupancy
air distribution
through theatre floor
heat gain by solar radiation stored in concrete floor mass
pre-heating ventilation air through earth tubes
heat gain by occupants and equipment
is recovered through ventilation
ground source
heat pump
8°C
16°C

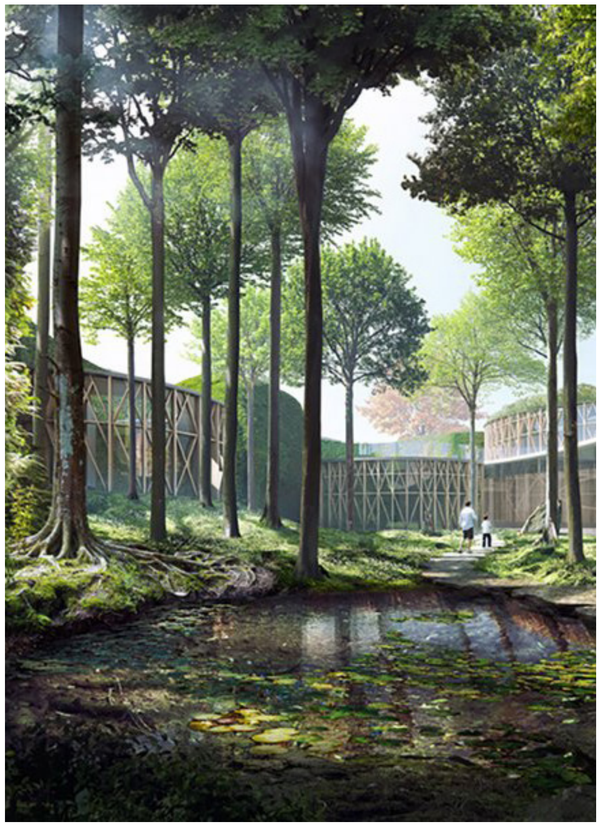


Thank you

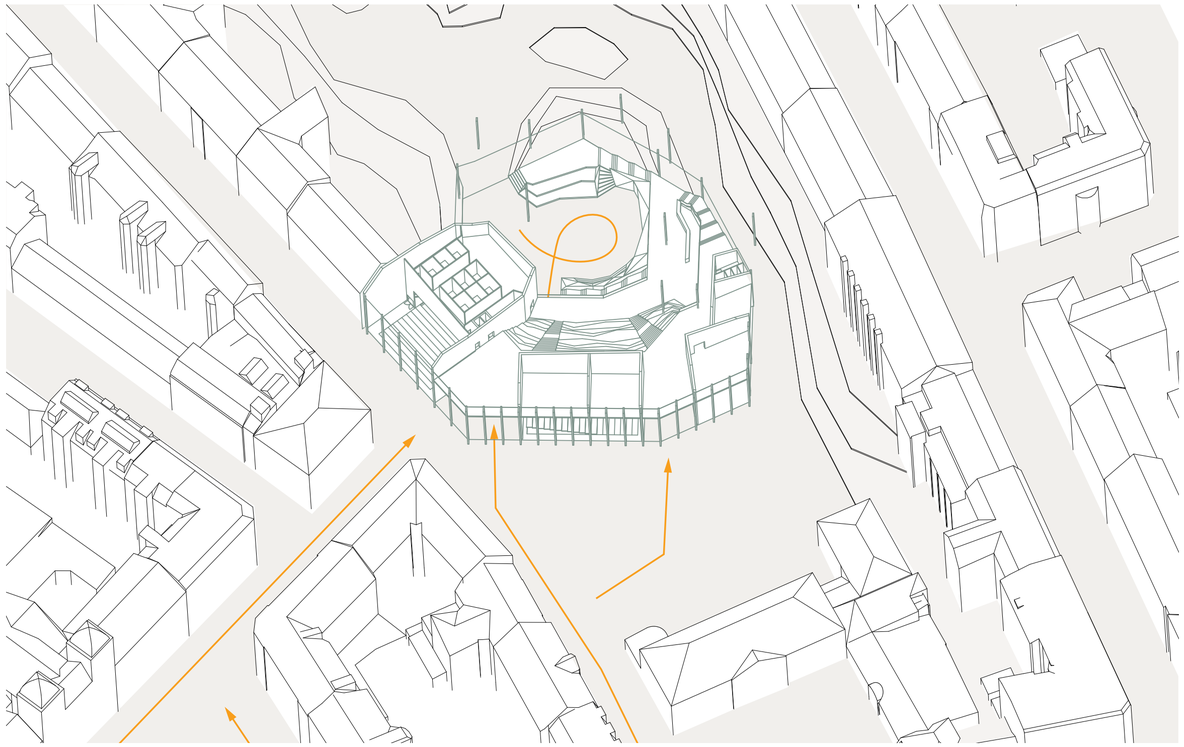




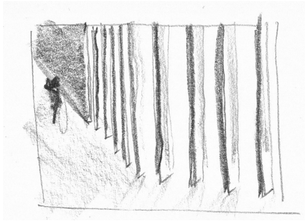
Urban approach

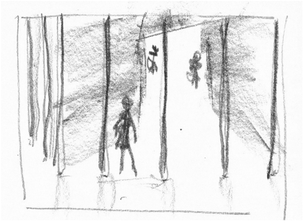


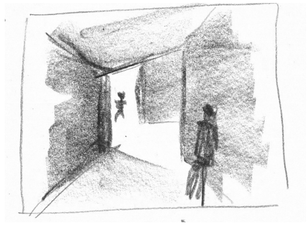
Garden approach

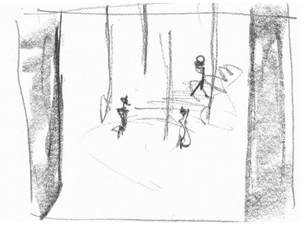


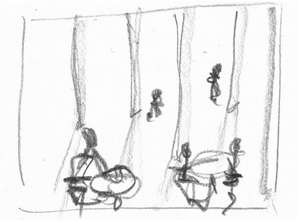
Urban approach

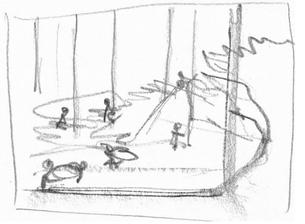


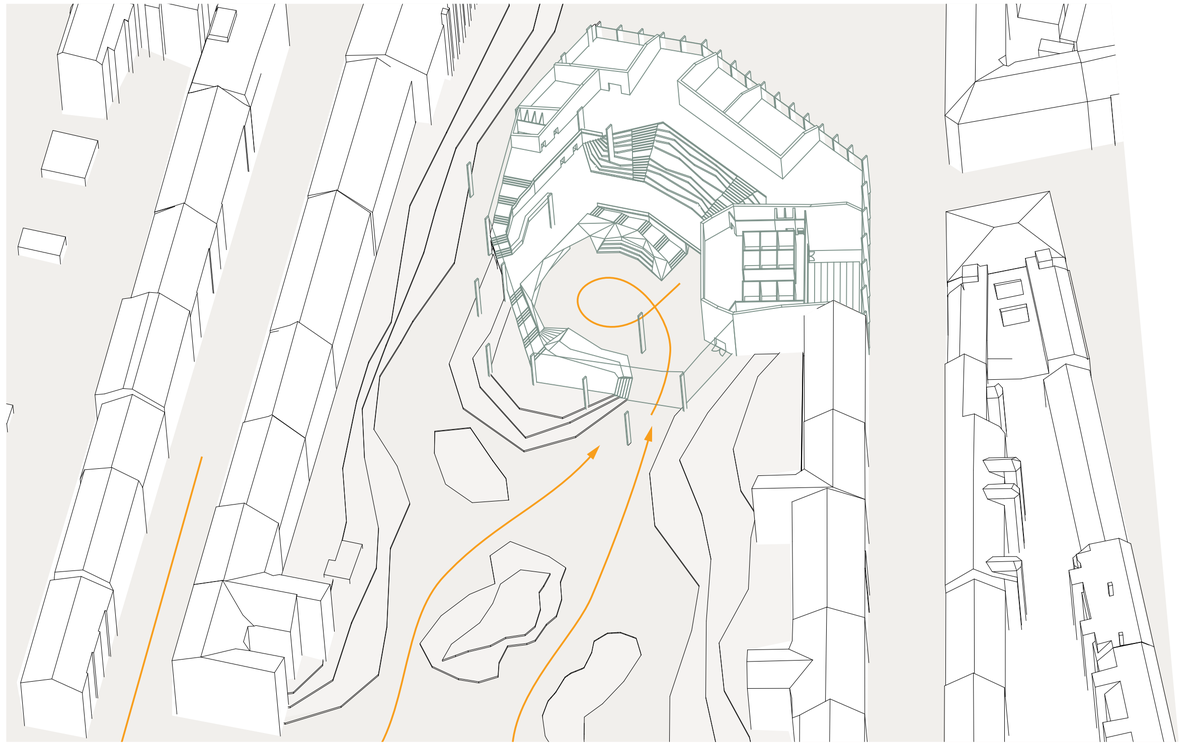




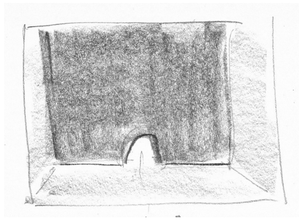
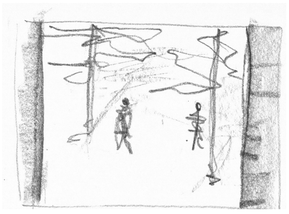
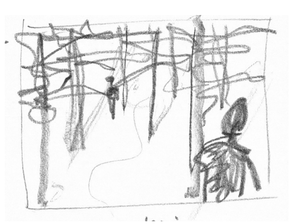


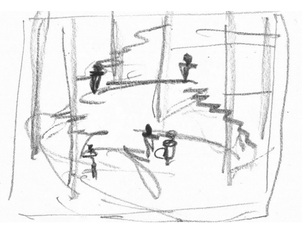
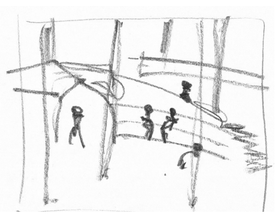


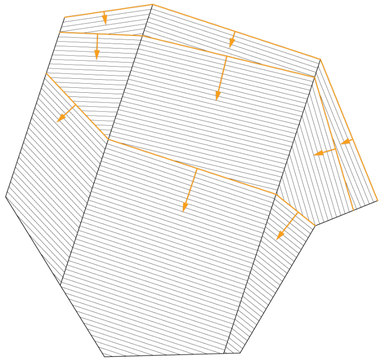


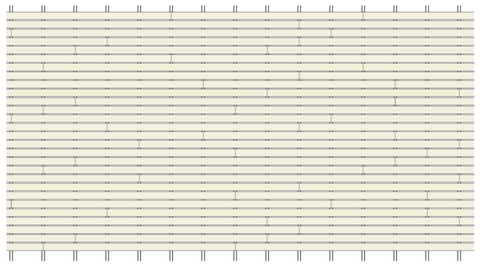


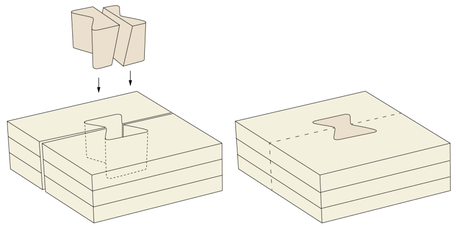
Garden approach

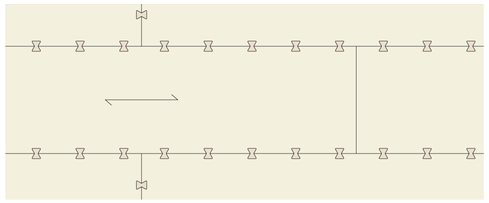




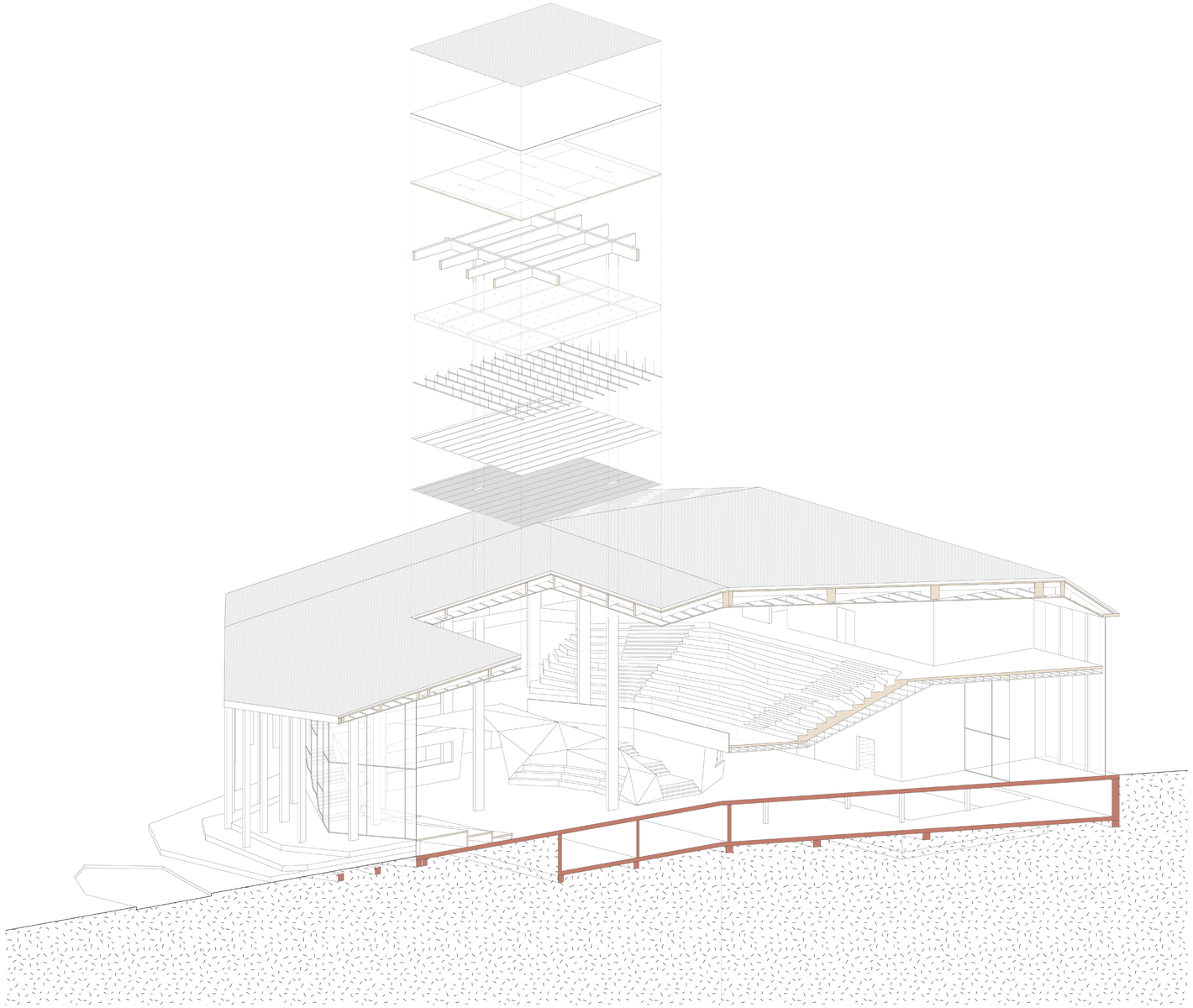



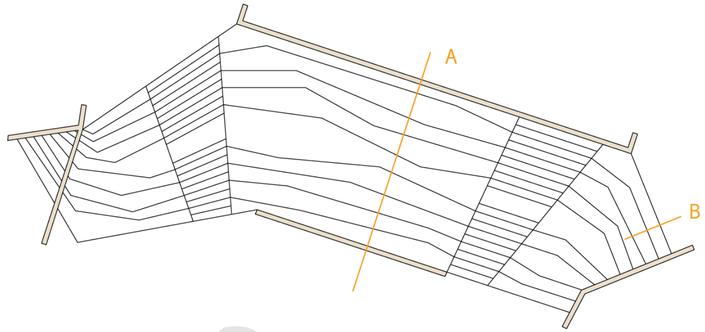


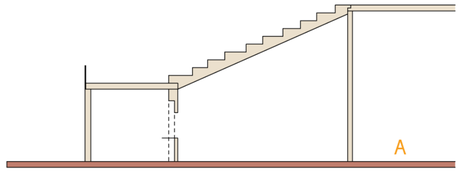


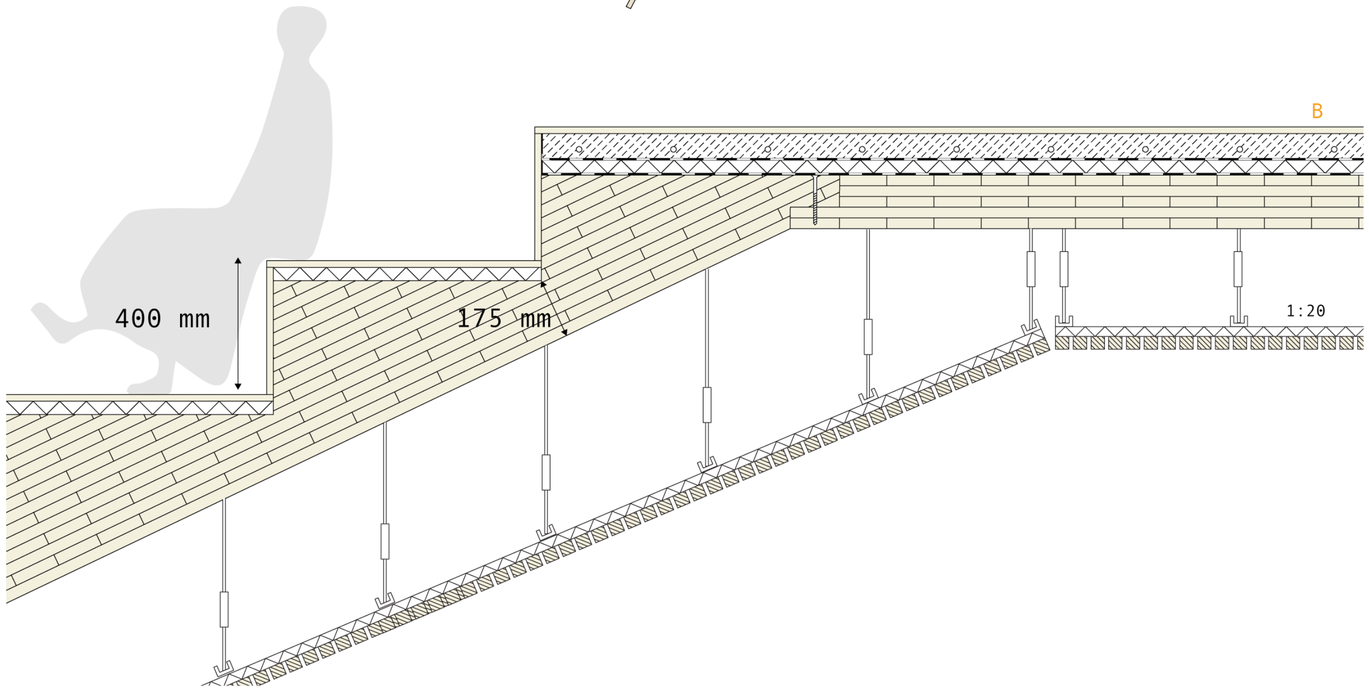


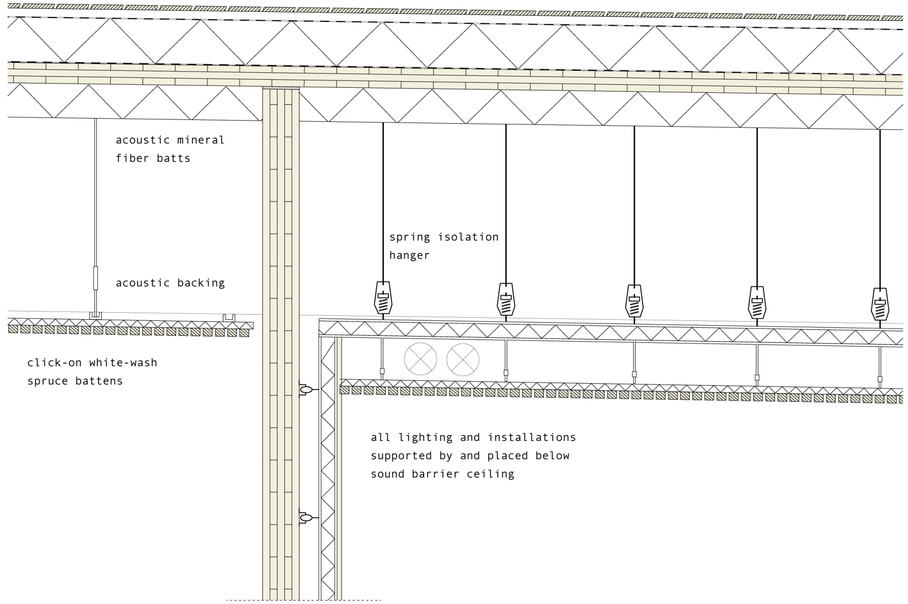




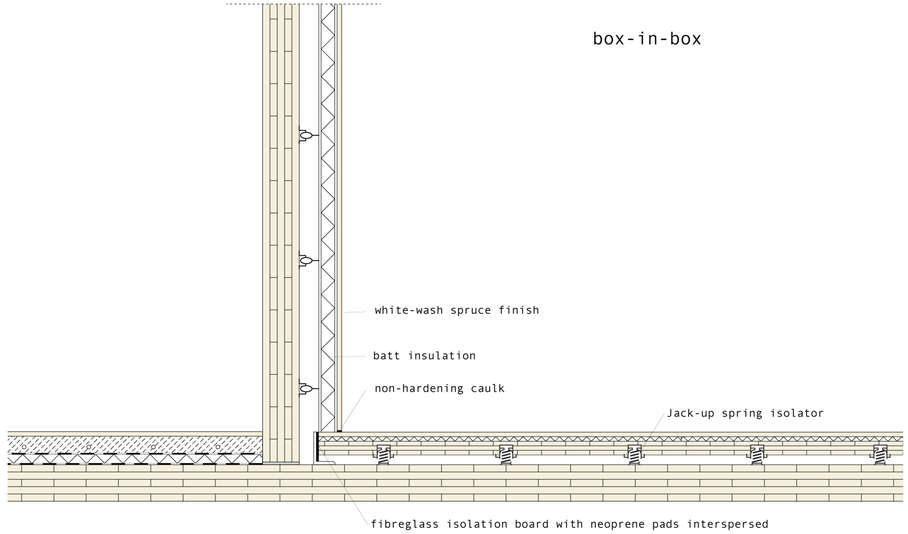

A
B

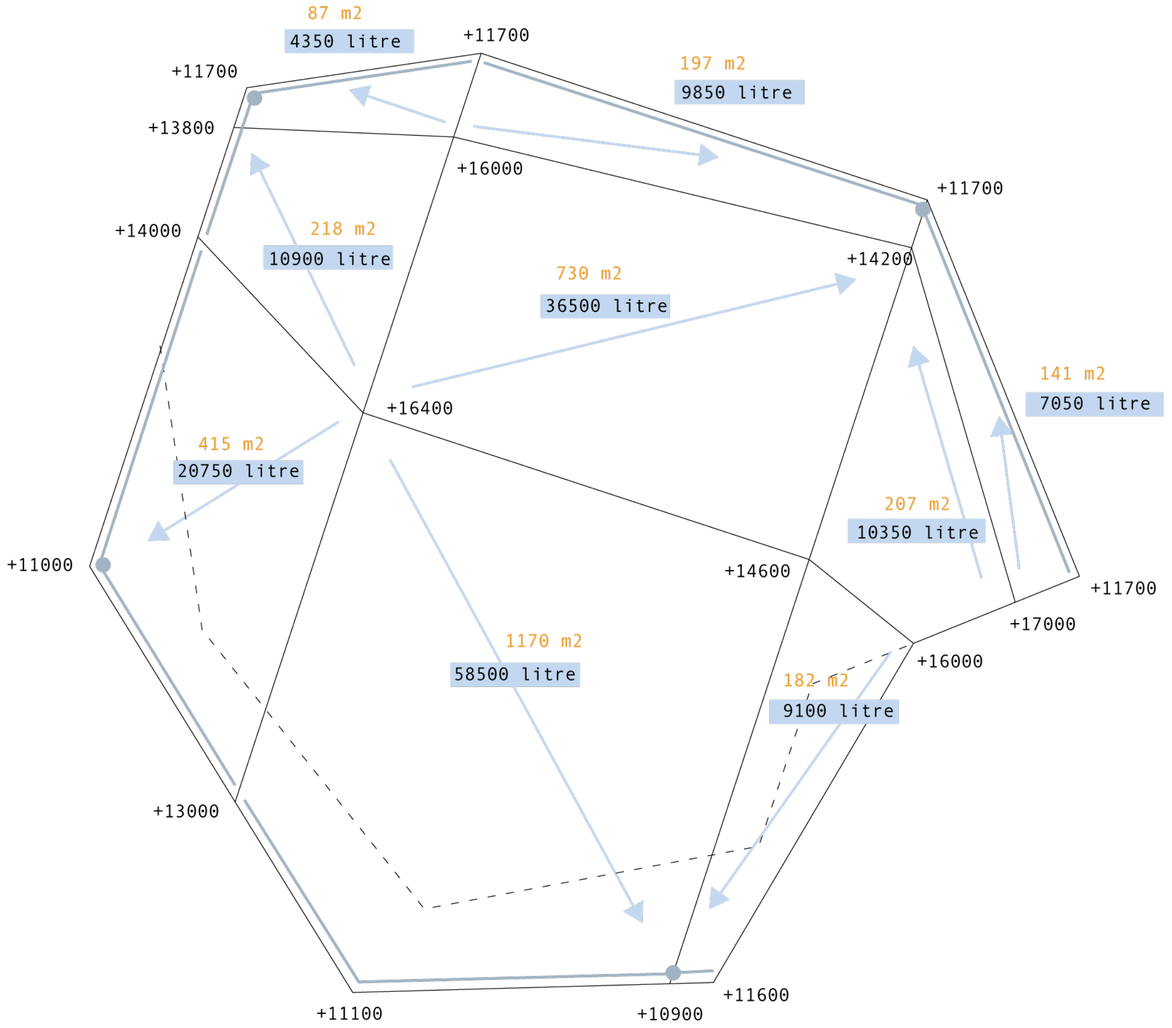

A


B
400 mm
175 mm
1:20

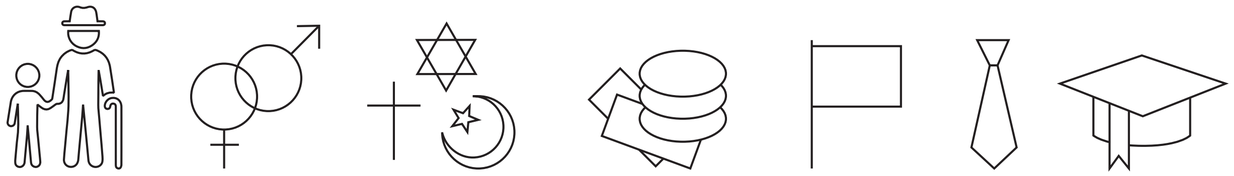

acoustic mineral
fiber batts
acoustic backing
click-on white-wash
spruce battens
spring isolation
hanger
all lighting and installations
supported by and placed below
sound barrier ceiling

box-in-box


white-wash spruce finish
batt insulation
non-hardening caulk
Jack-up spring isolator
fibreglass isolation board with neoprene pads interspersed


87 m2
4350 litre
+11700
+11700
197 m2
9850 litre
+13800
+16000
+11700
+14000
218 m2
10900 litre
730 m2
36500 litre
+14200
141 m2
7050 litre
+16400
415 m2
20750 litre
207 m2
10350 litre
+11000
+14600
+11700
+17000
+16000
1170 m2
58500 litre
182 m2
9100 litre
+13000
+11600
+11100
+10900

all-inclusive



around the clock

