

Karree

*Public condenser for social inclusivity in
Friedrichshain, Berlin*

mentors

Henk Bultstra | Architecture

Ger Warries | Building technology

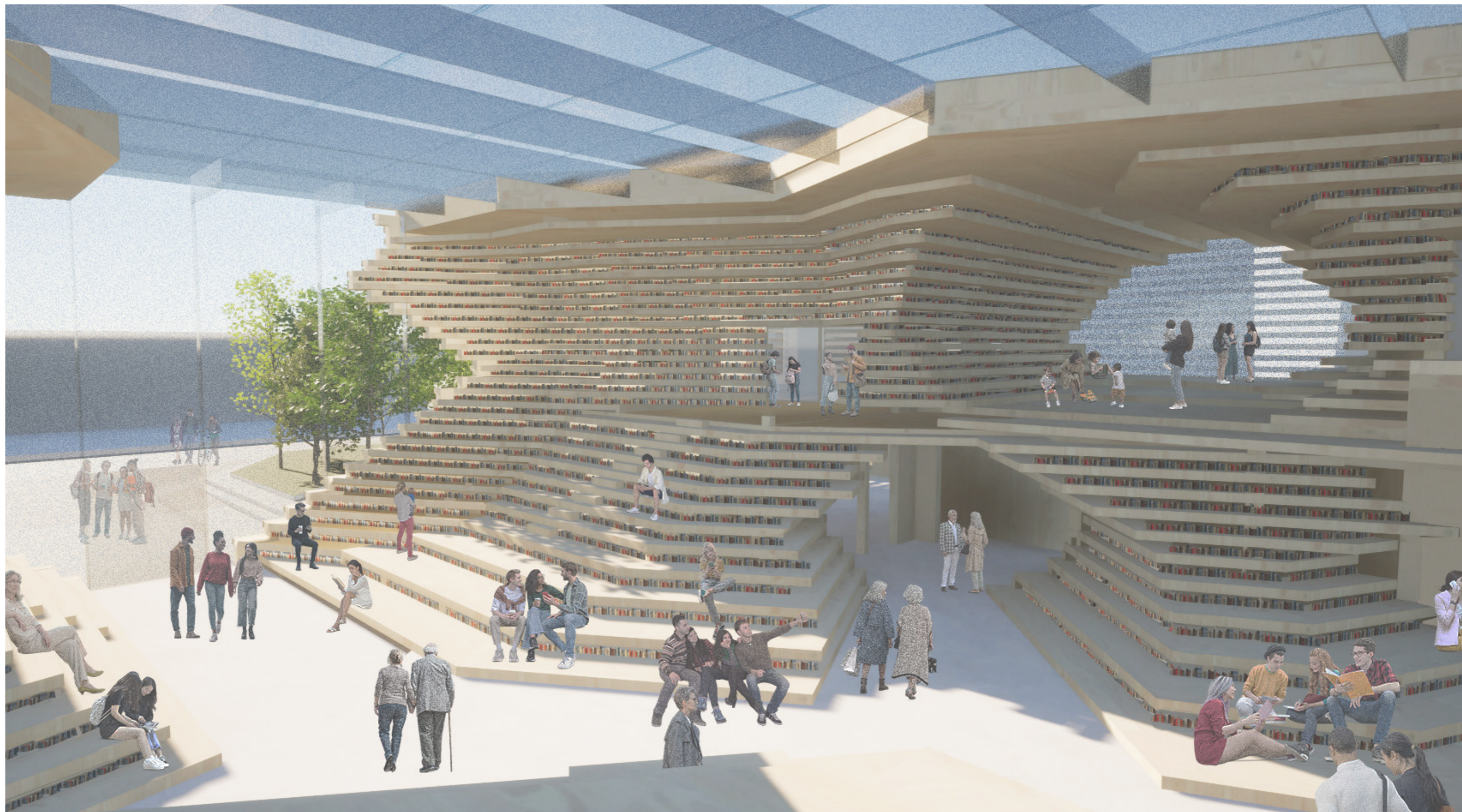
Sang Lee | Research

P5 | PRESENTATION

Esra Ipek

5227100

"Public Condenser as a social catalyst"



Gentrification in Friedrichshain



WOMEN WITH HER DOG (55)
 'WOULD PREFER MORE BARS
 WITH LIVE MUSIC AND
 ENTERTAINMENT'



WOMAN (28)
 'WOULD ADD MORE GATHERING
 SPACES SUCH AS CAFES, ART
 SHOWS, AND REFUGEES
 CENTER TO INTEGRATE THEM
 INTO THE NEIGHBORHOOD'

ARTIST (38)
 'WOULD LIKE SPACES FOR
 ARTISTS THAT ARE NOT
 GALLERIES BECAUSE THEY
 DON'T HELP INDIVIDUALS AND
 DO NOT ALLOW THE ARTISTS TO
 CONNECT WITH THE PUBLIC'



Andreasviertel

- status: no protests
- average age: 42
- household: singles
- facilities: health/education

Weberwiese

- status: active (Wir sind der milieu)
- average age: 39
- household: families
- facilities: health/education

Wriezener Bahnhof

- status: no protest
- average age: 30
- household: singles/students
- facilities: commerce

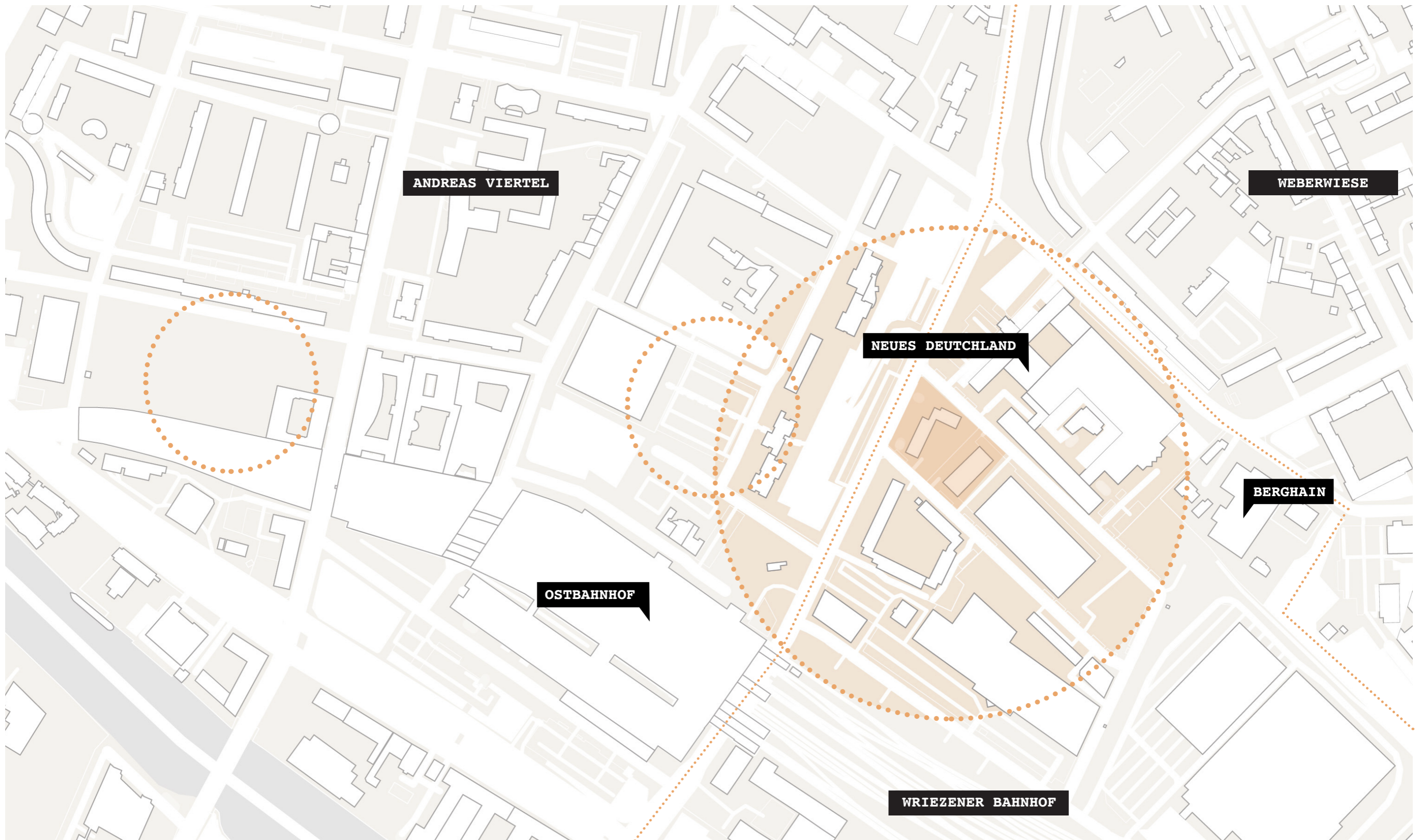
KIEZ



'Boundless architecture'



Wriezener Karree

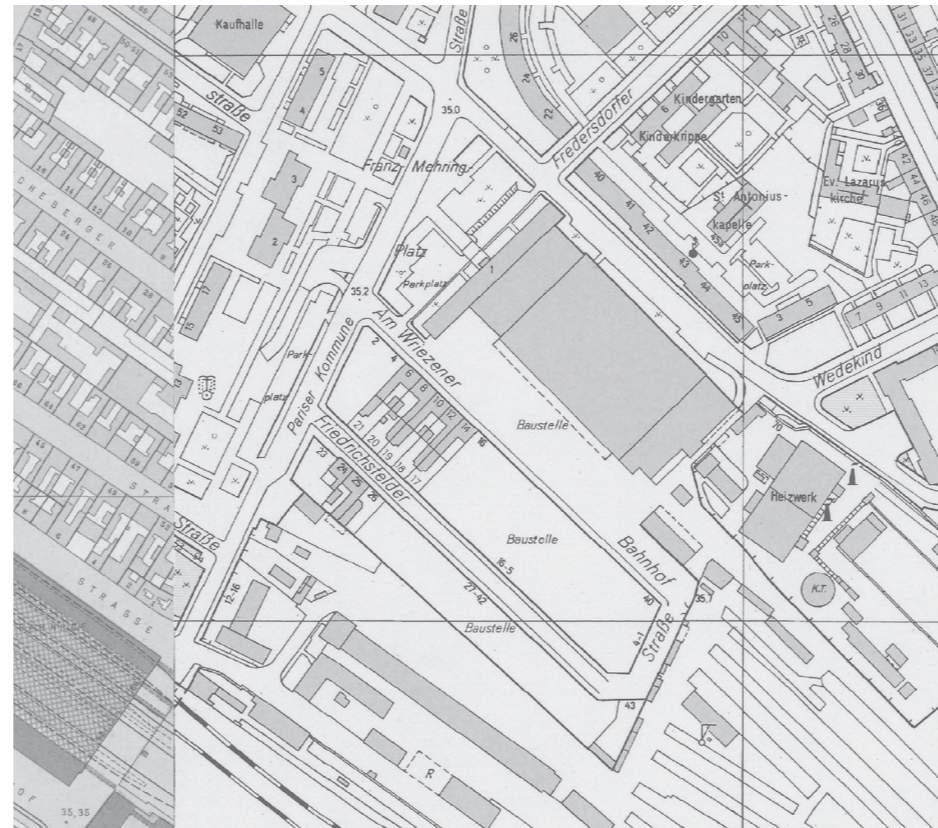


potential sites

Development of the site



1972



1978



1990

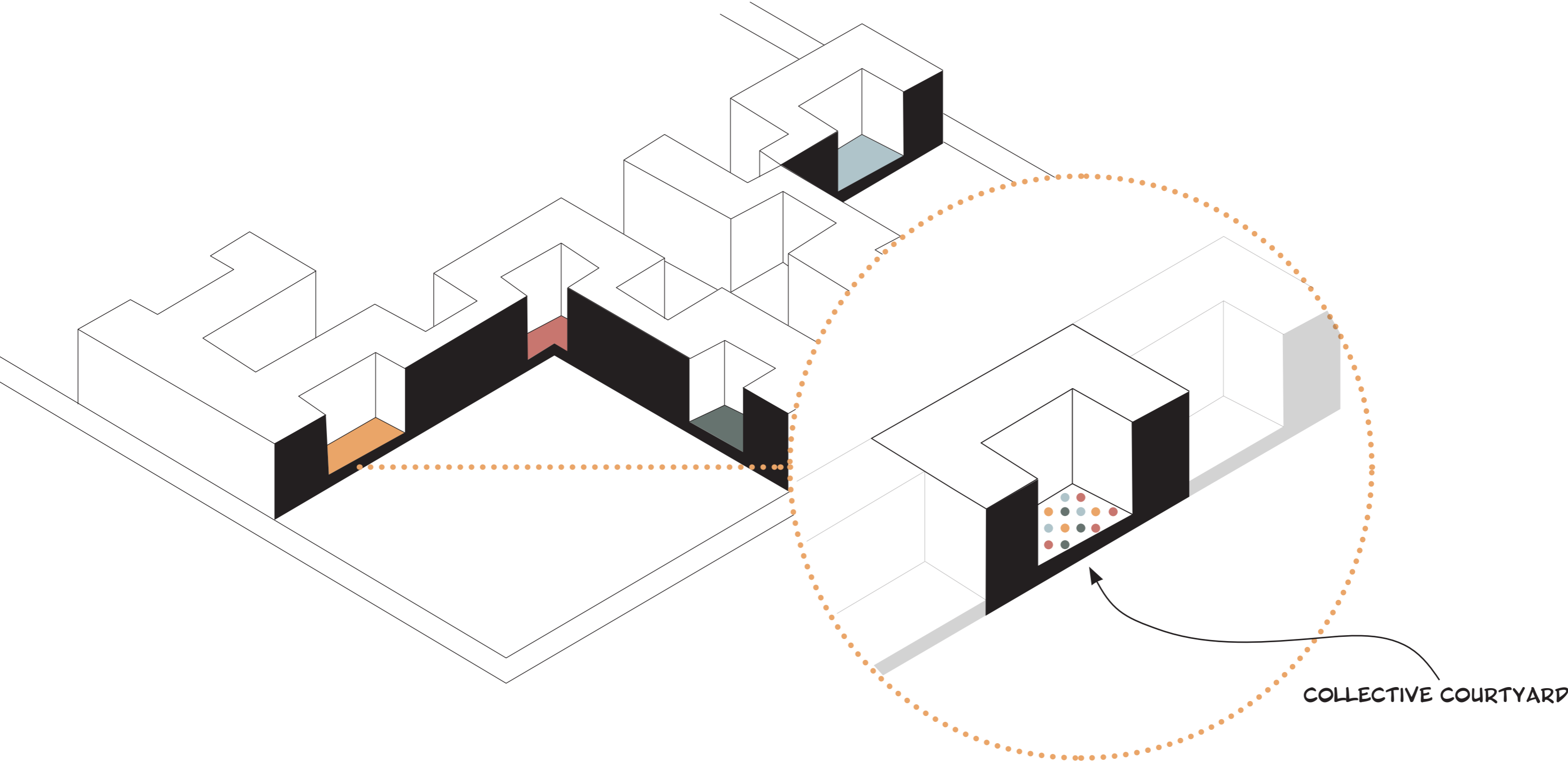


archive photos of the site

Mietskaserne Berlin



Mietskaserne Berlin principle



● ● ● ● different social groups

Karree
design ambition

social mixing

"Social mixing occurs on a spectrum from aloneness to close friendships"



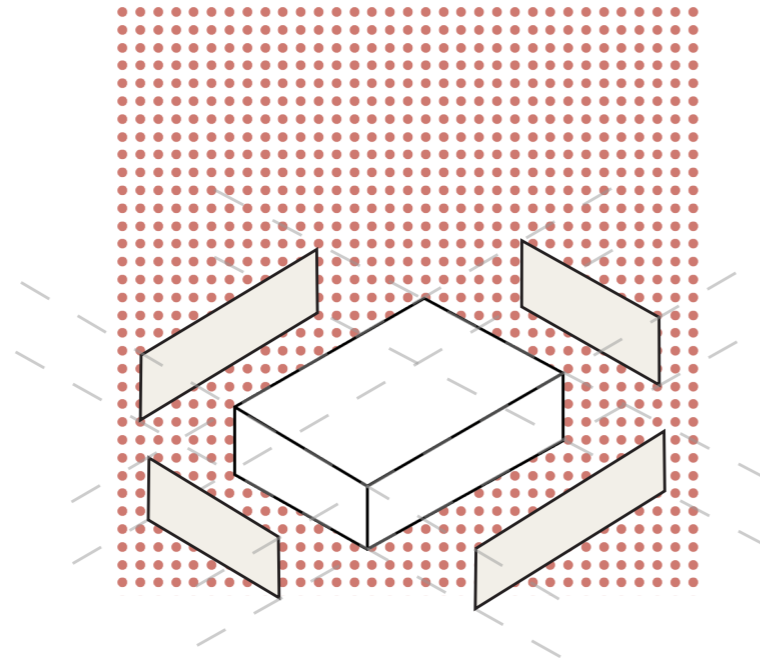
(Sources: Gehl Institute, 2016)

How does **BOUNDLESS ARCHITECTURE** connect to commons?

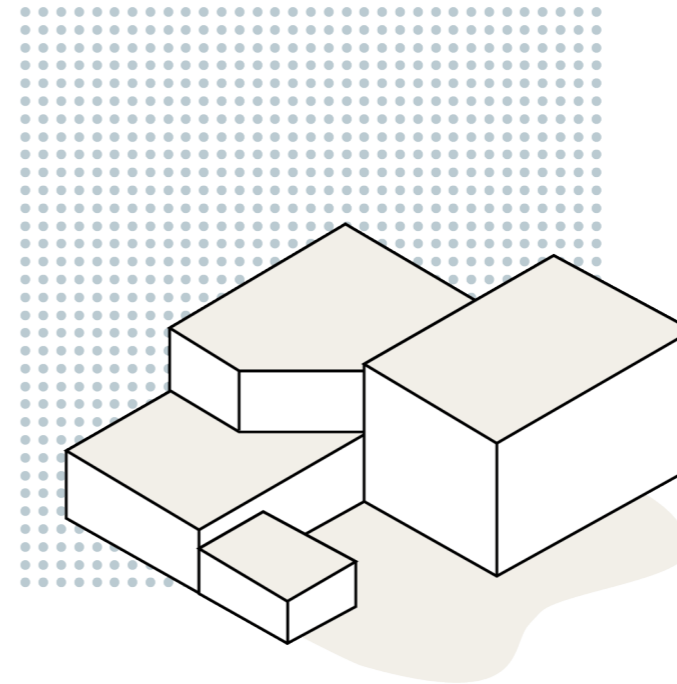
connecting through gathering space



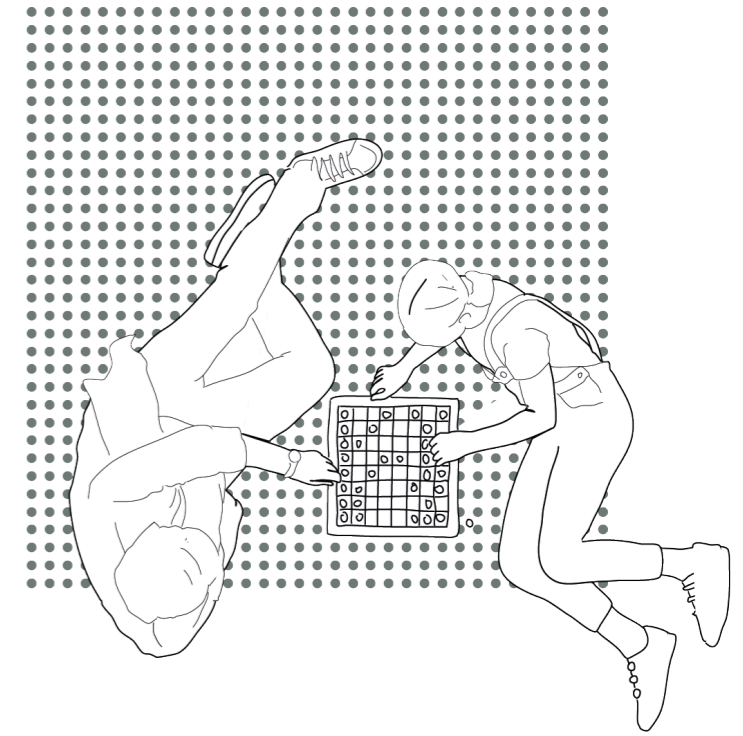
INCLUSIVE



FLEXIBILITY



PARTICIPATION

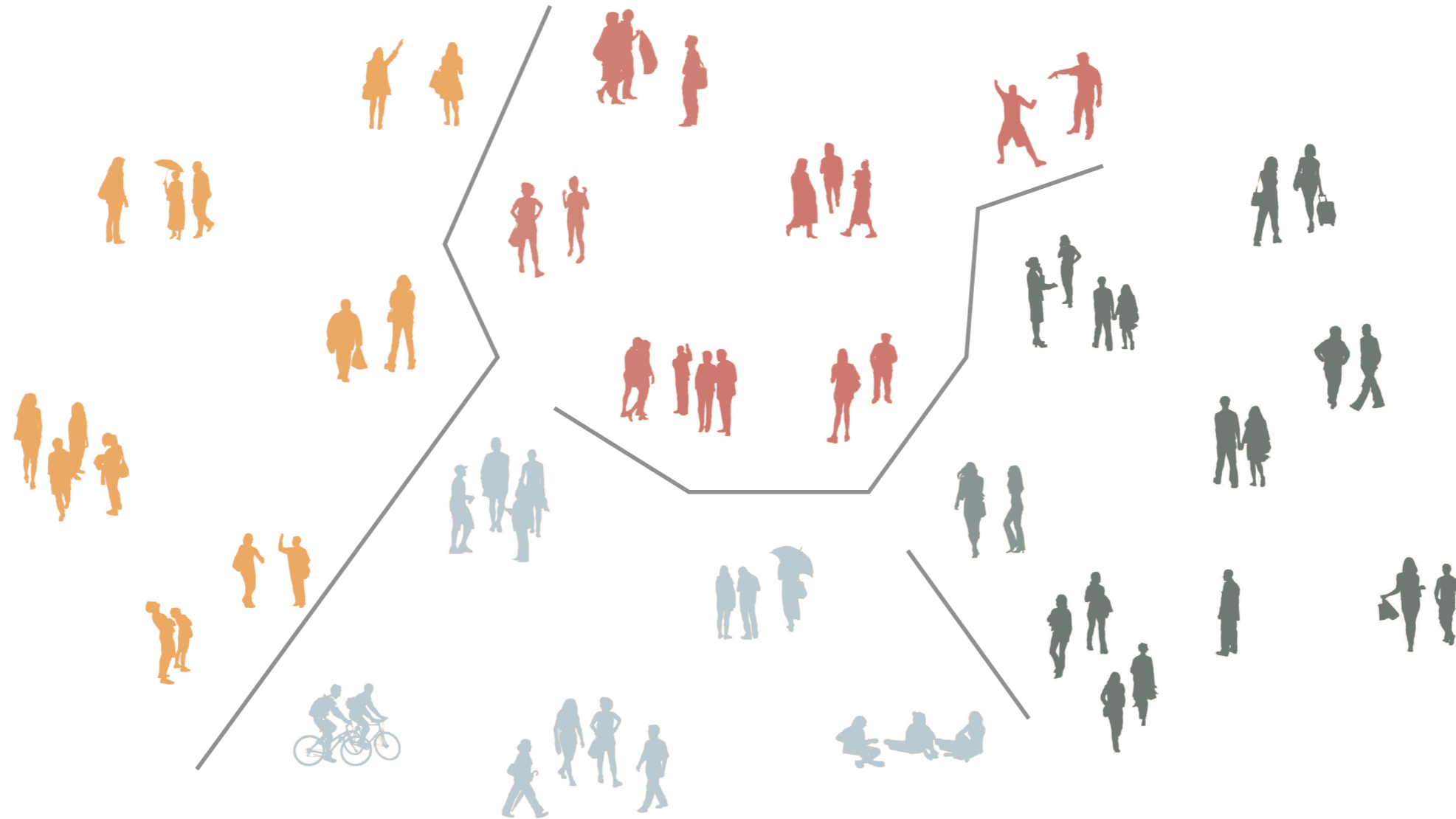


SOCIAL COHESION

mixing social groups in Friedrichshain

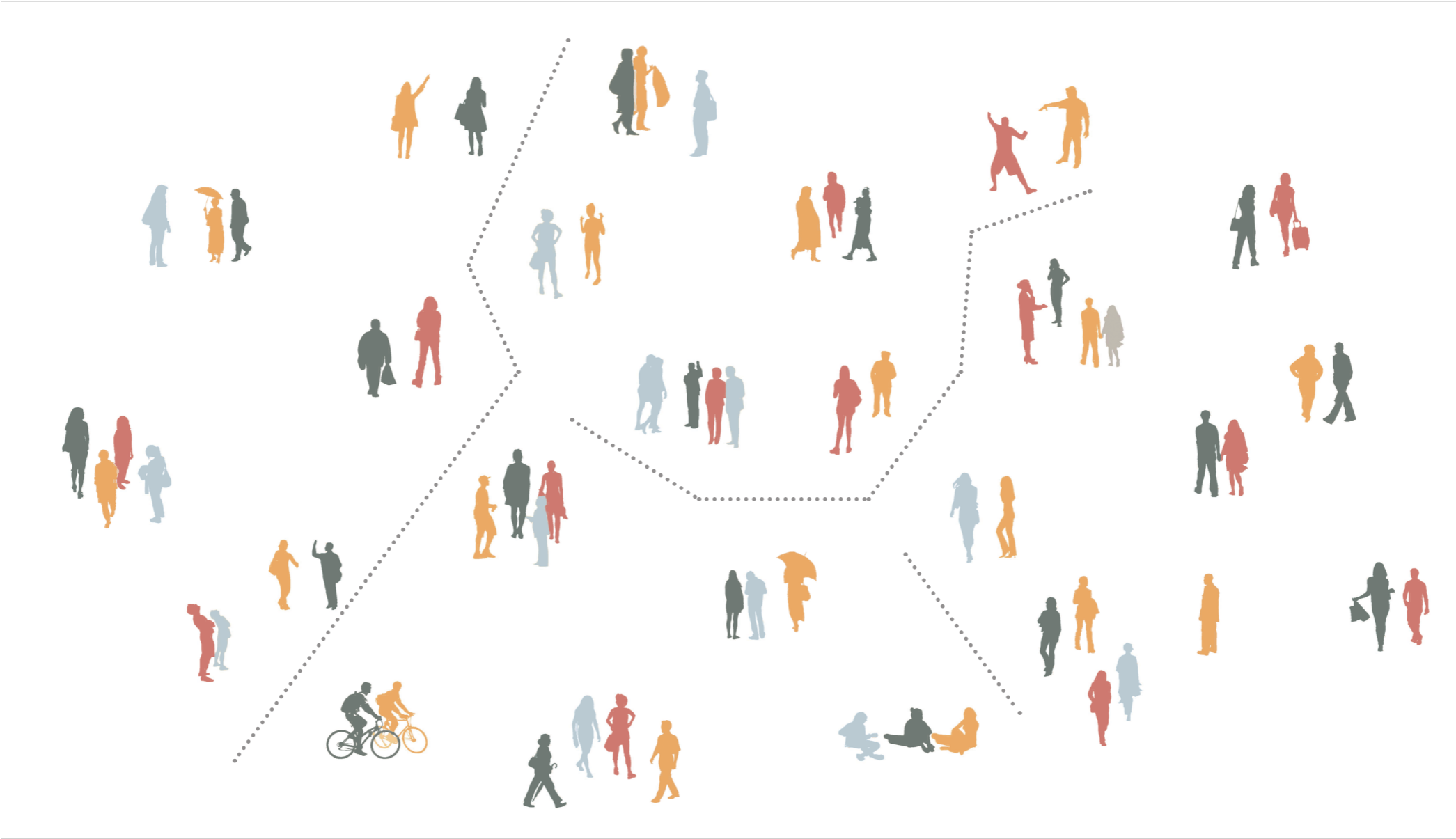


mixing social groups in Friedrichshain

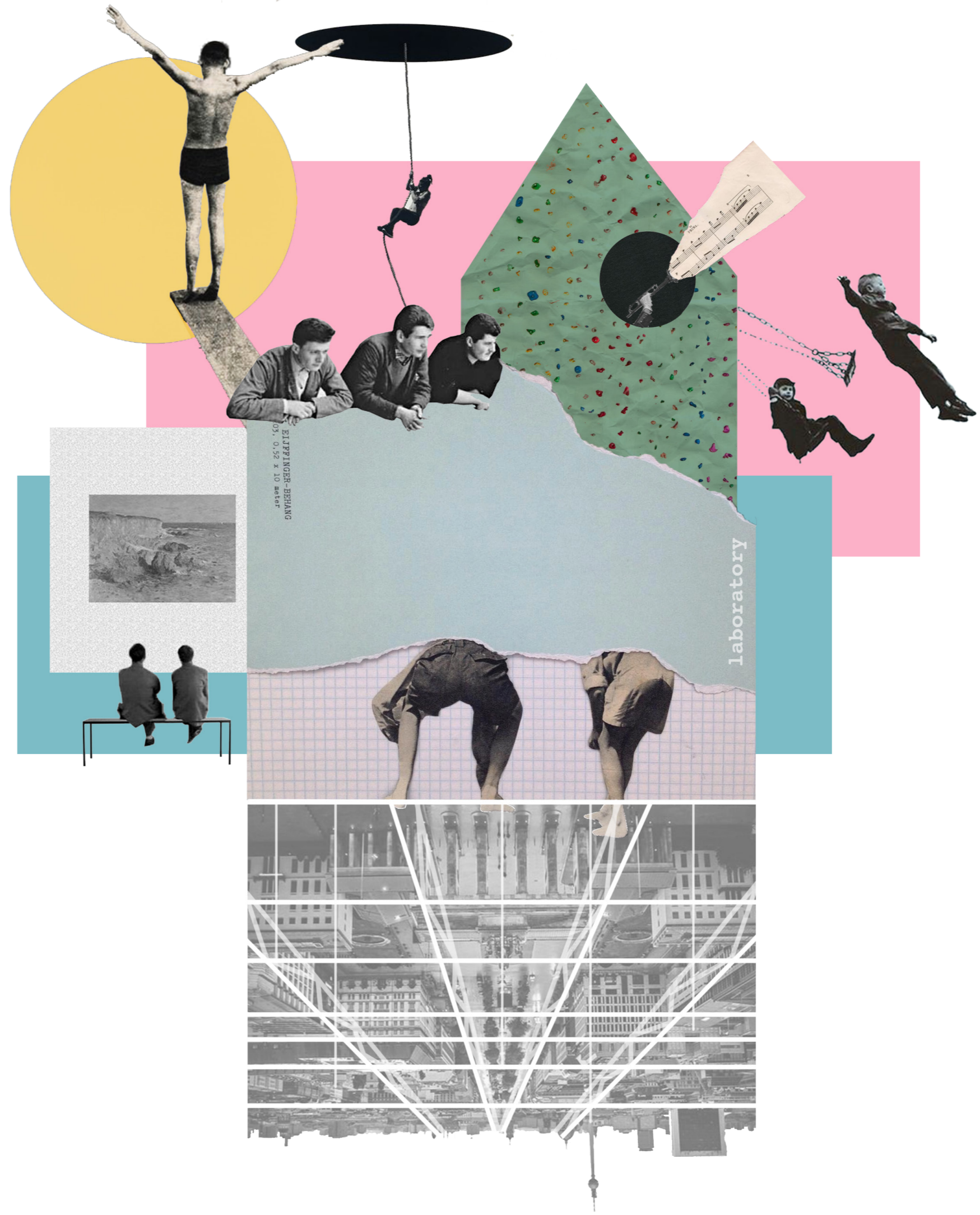


groups with a common interests but still isolated

mixing social groups in Friedrichshain



mixed groups with open attitude

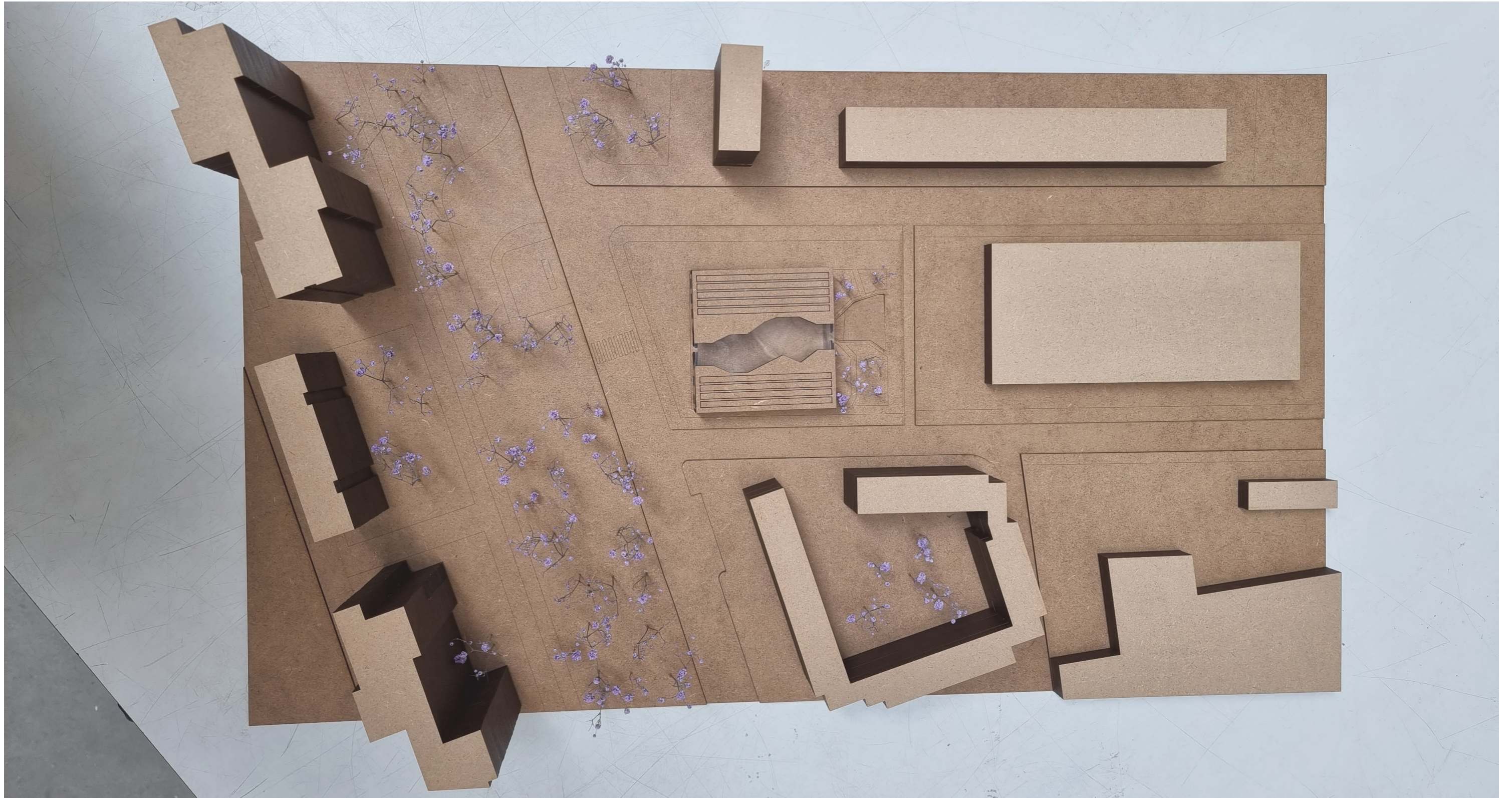


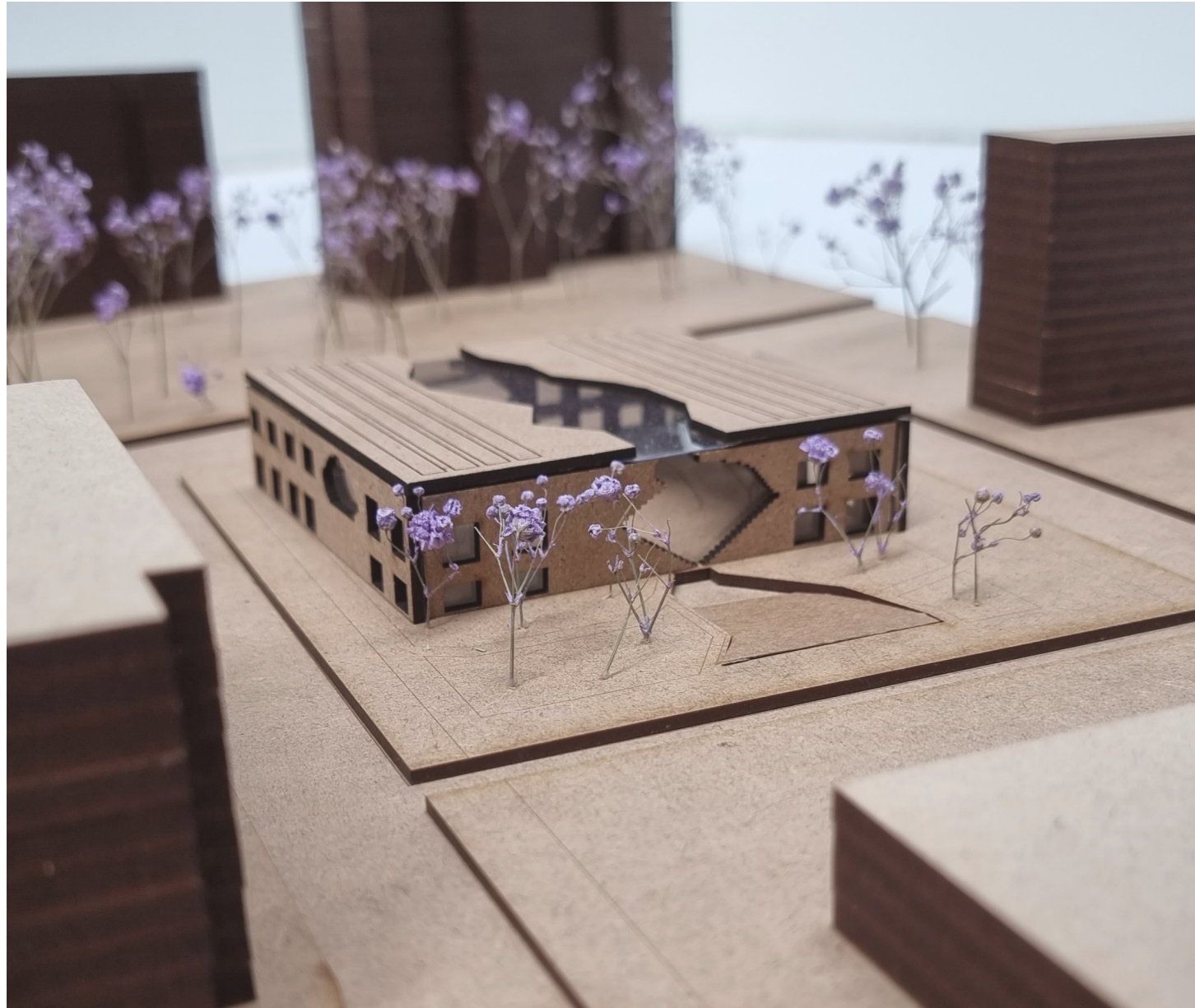
EIJPINGER-BEHANG
03, 0,52 x 10 meter

laboratory

Karree
design

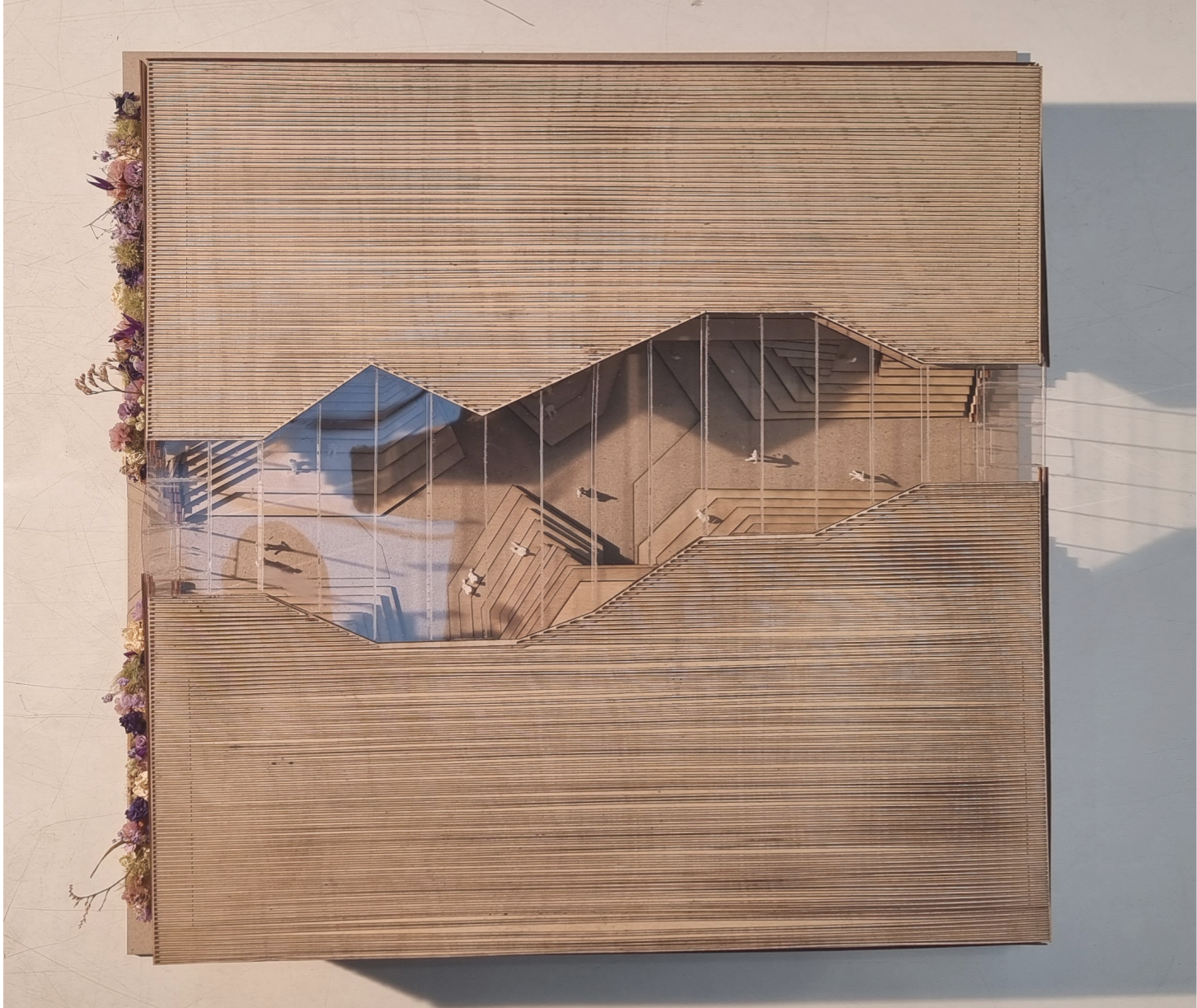


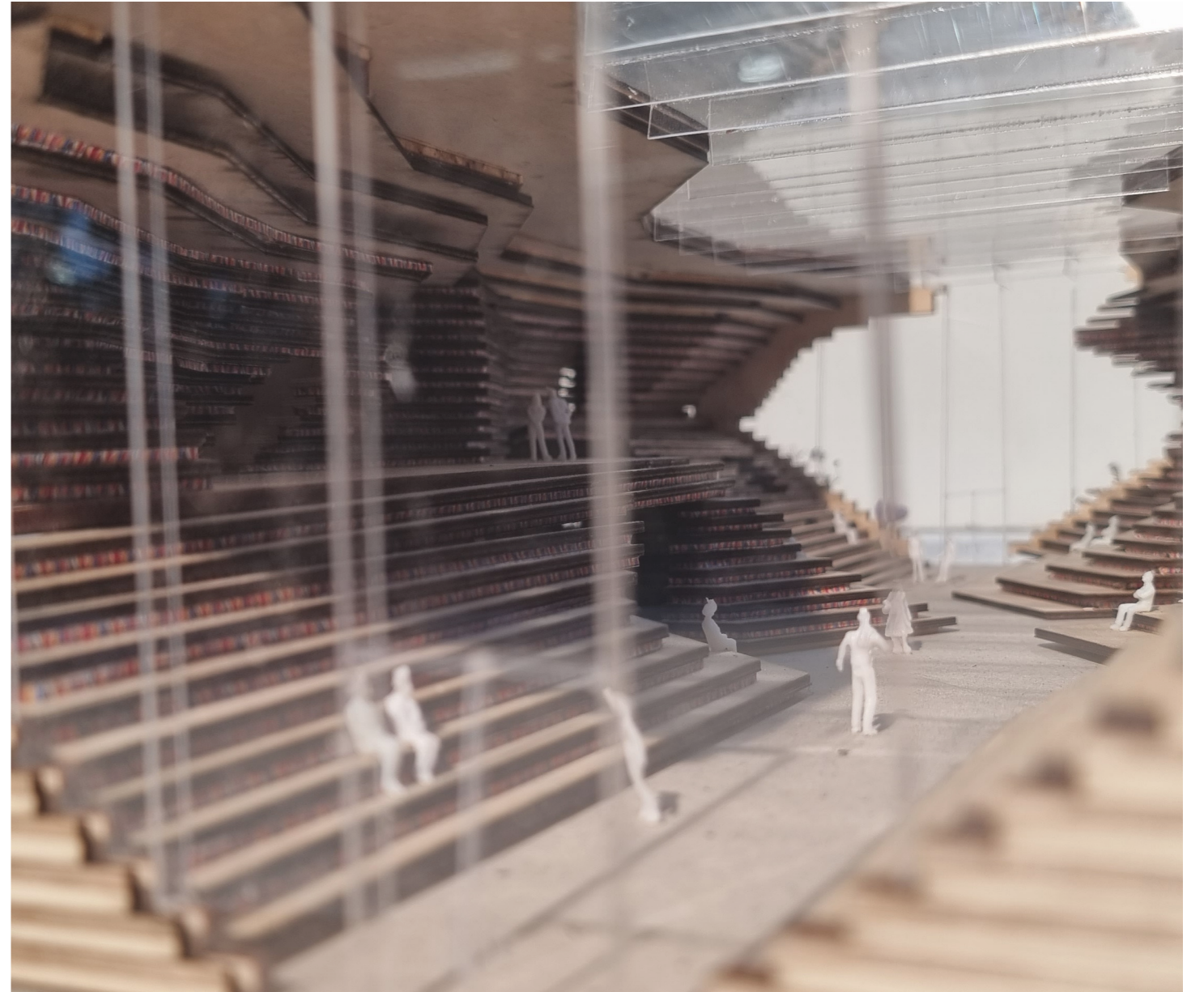
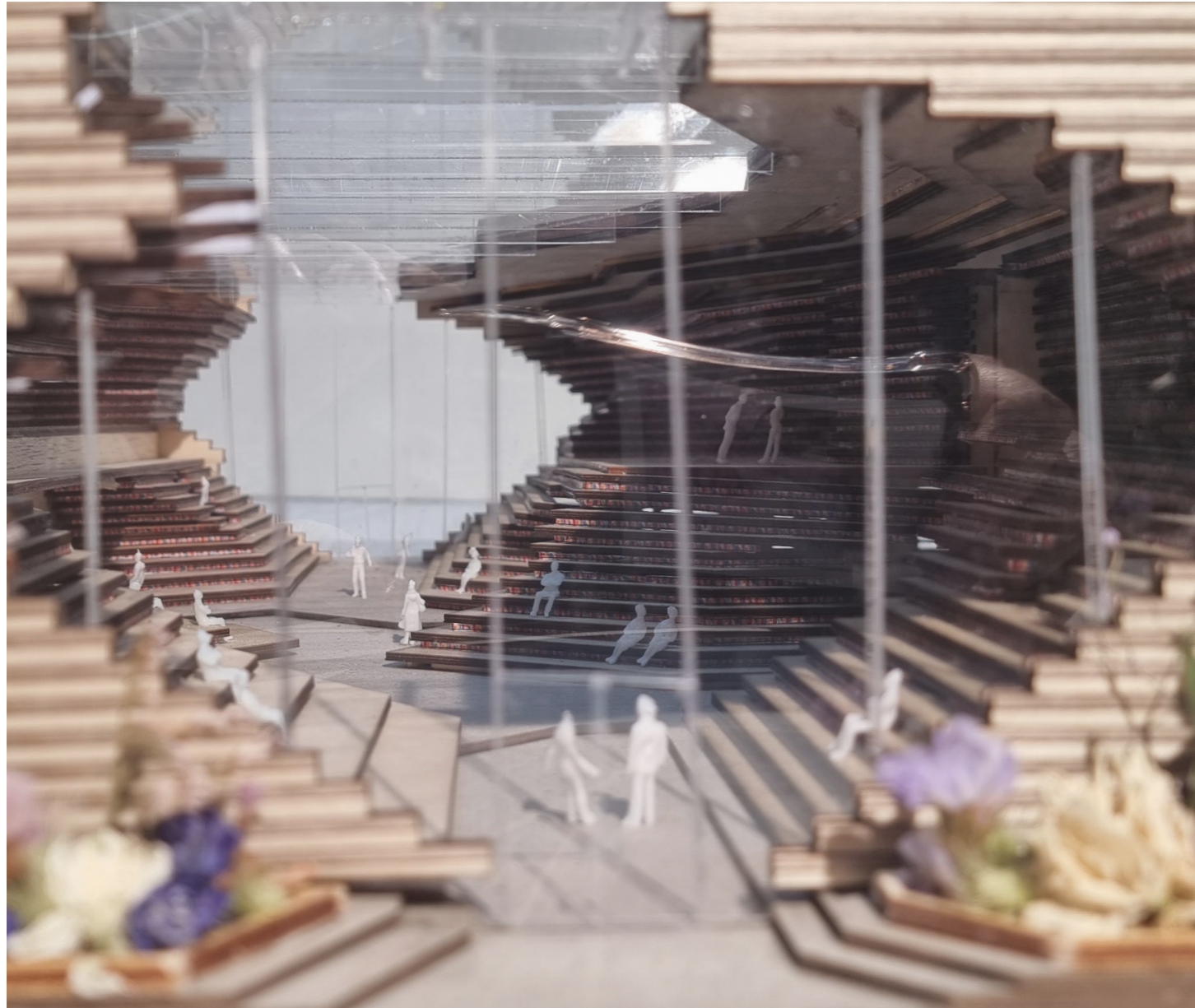








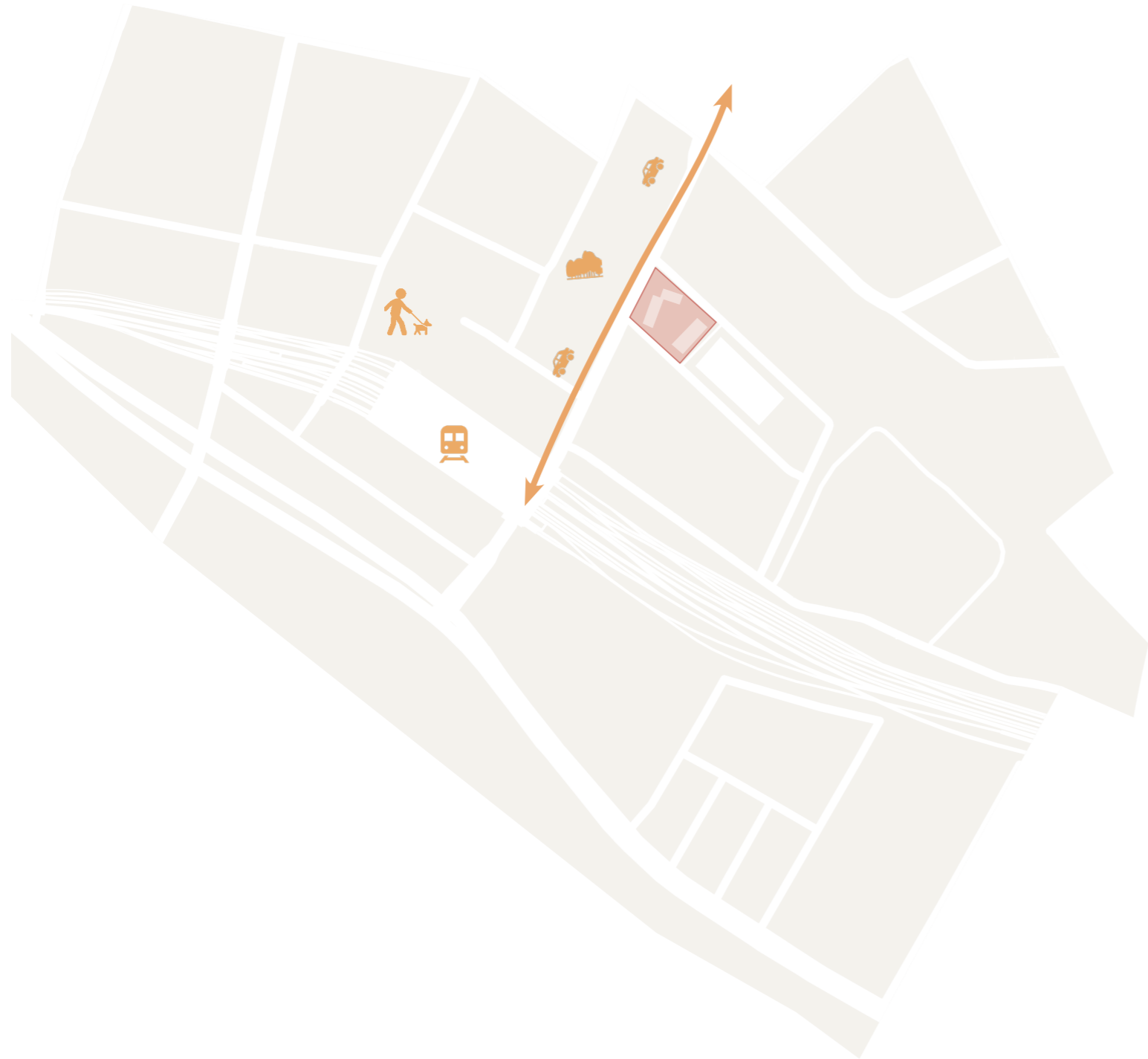


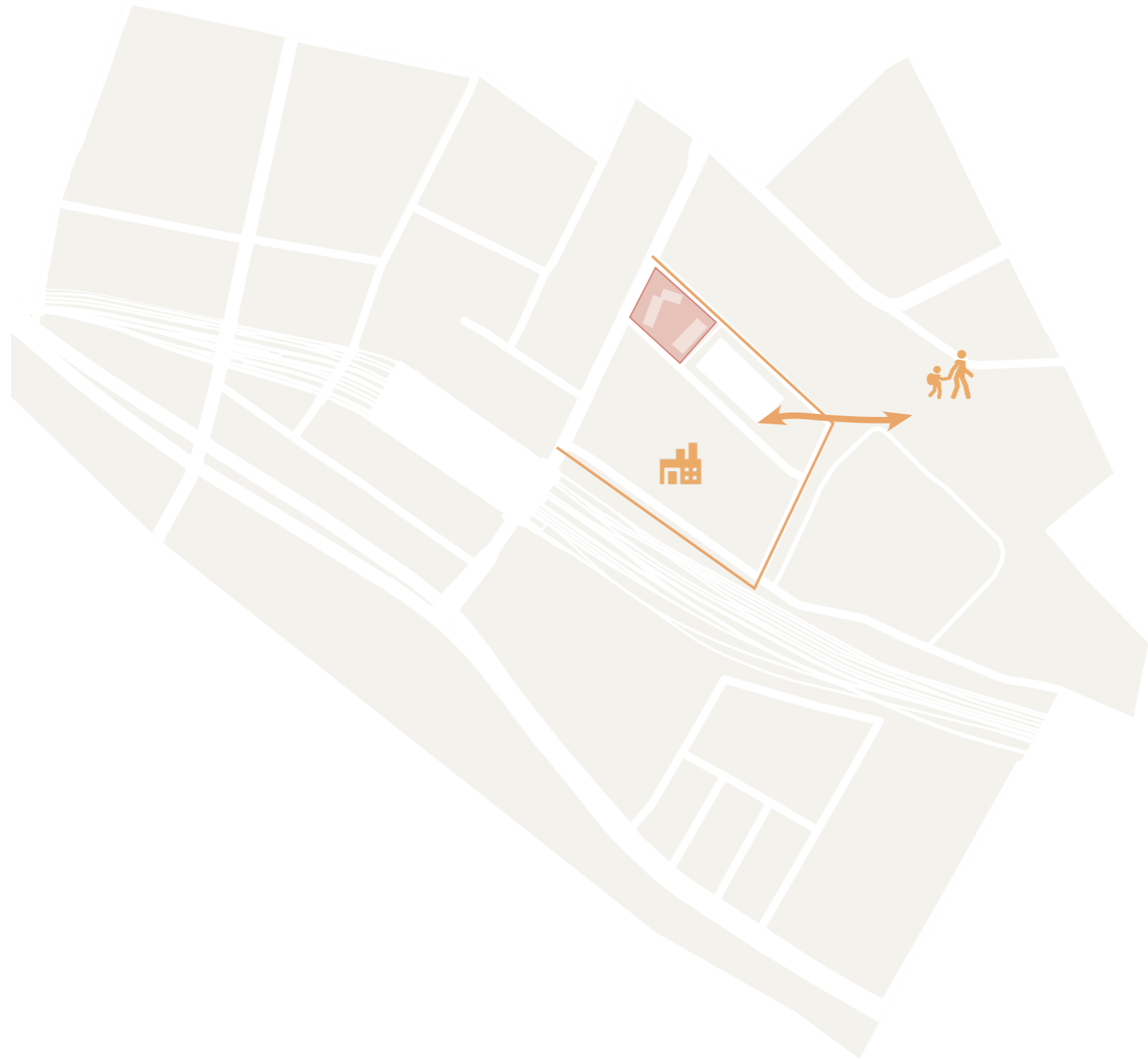


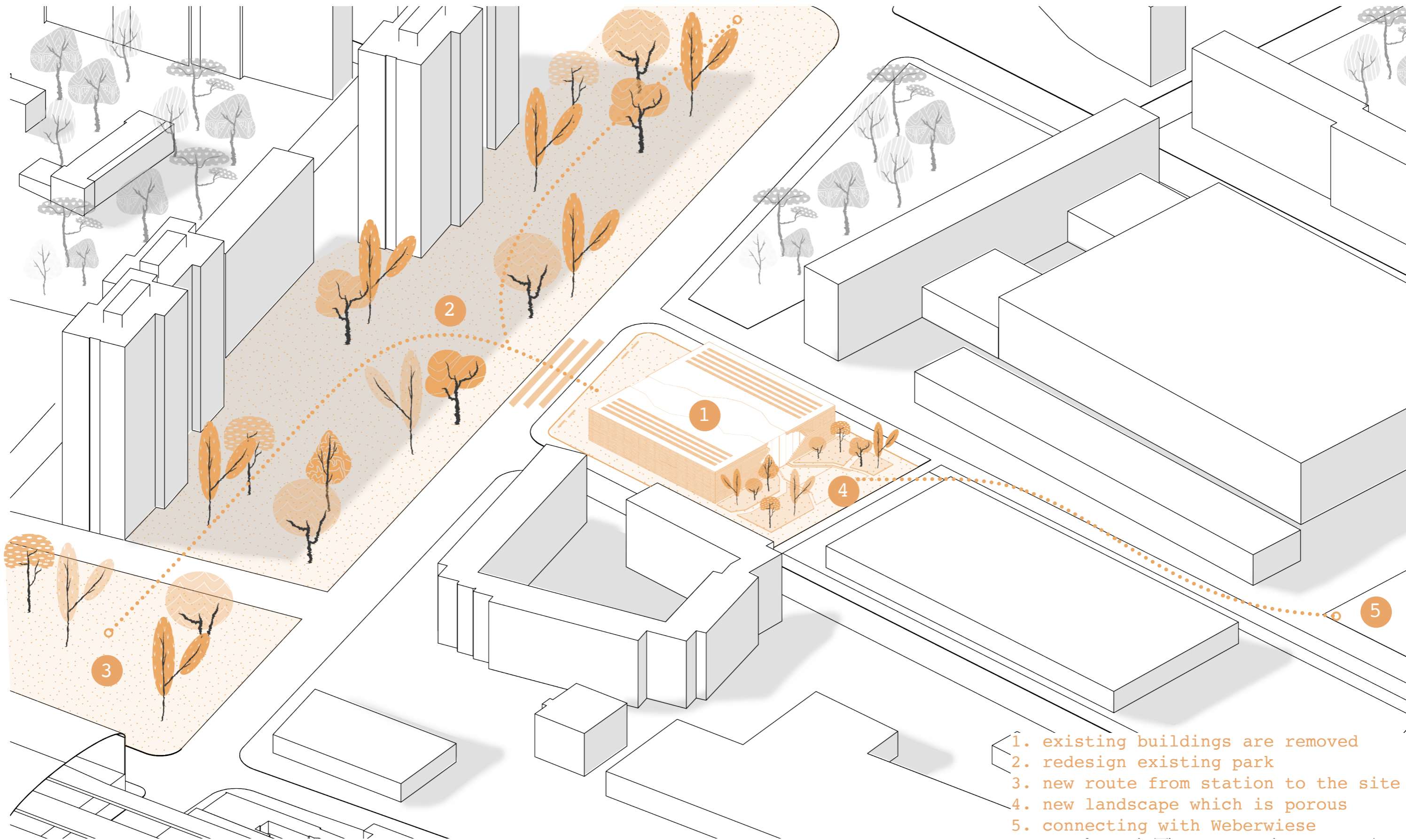




















cultural

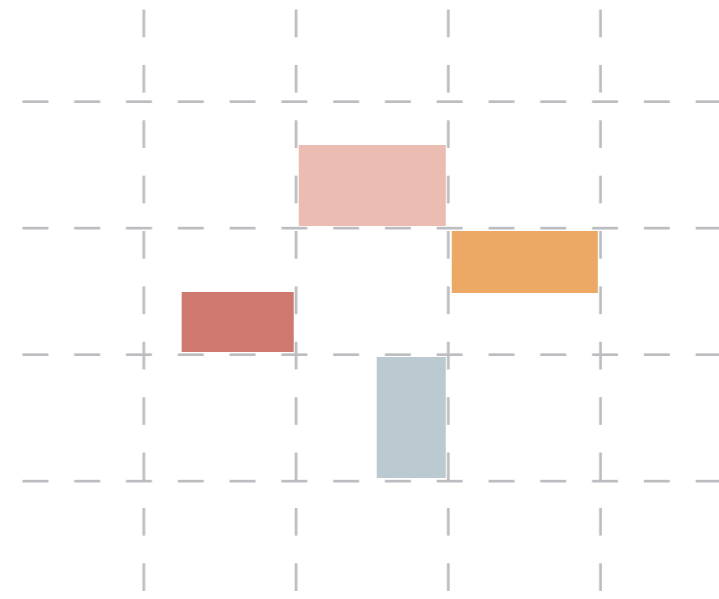
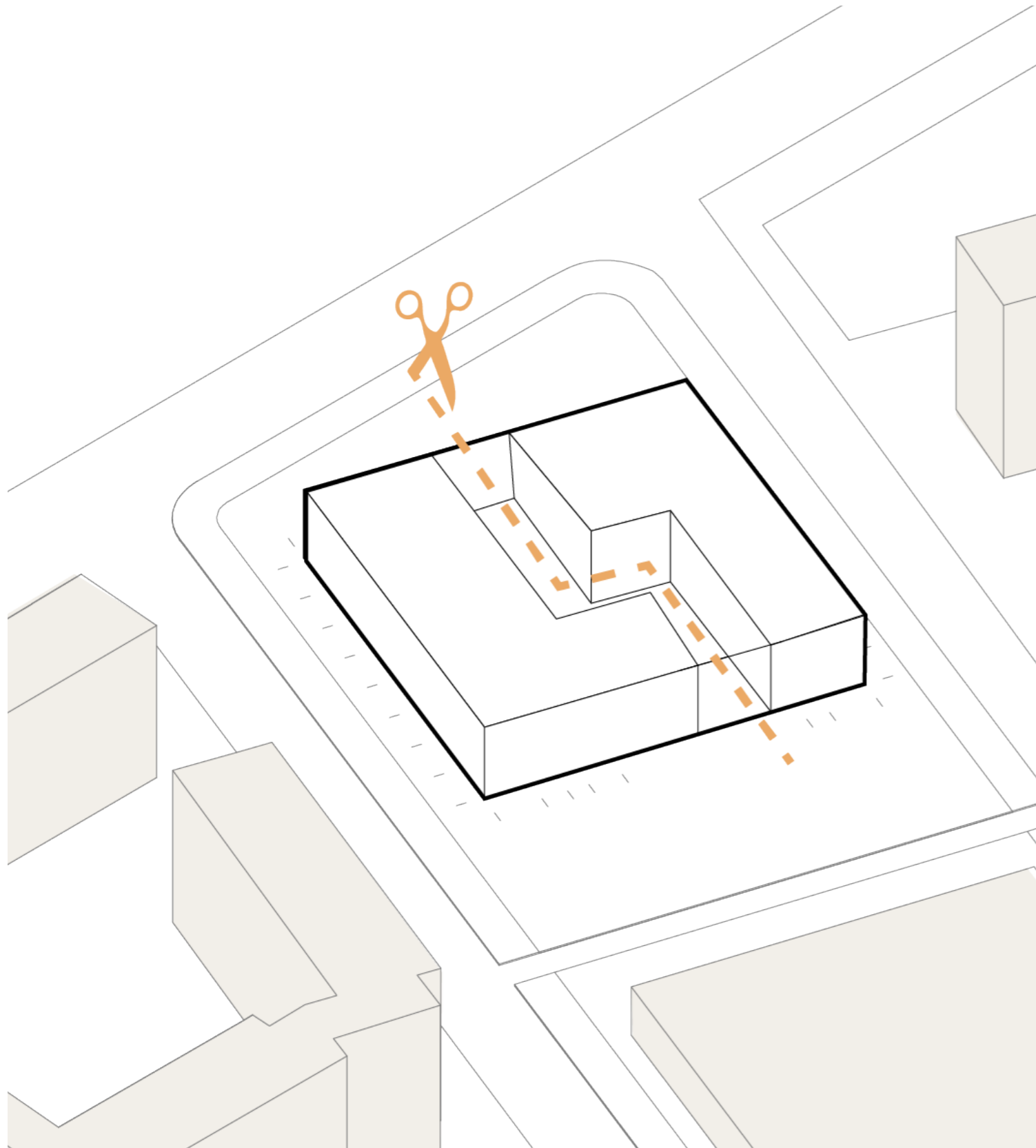
learn & create

movement

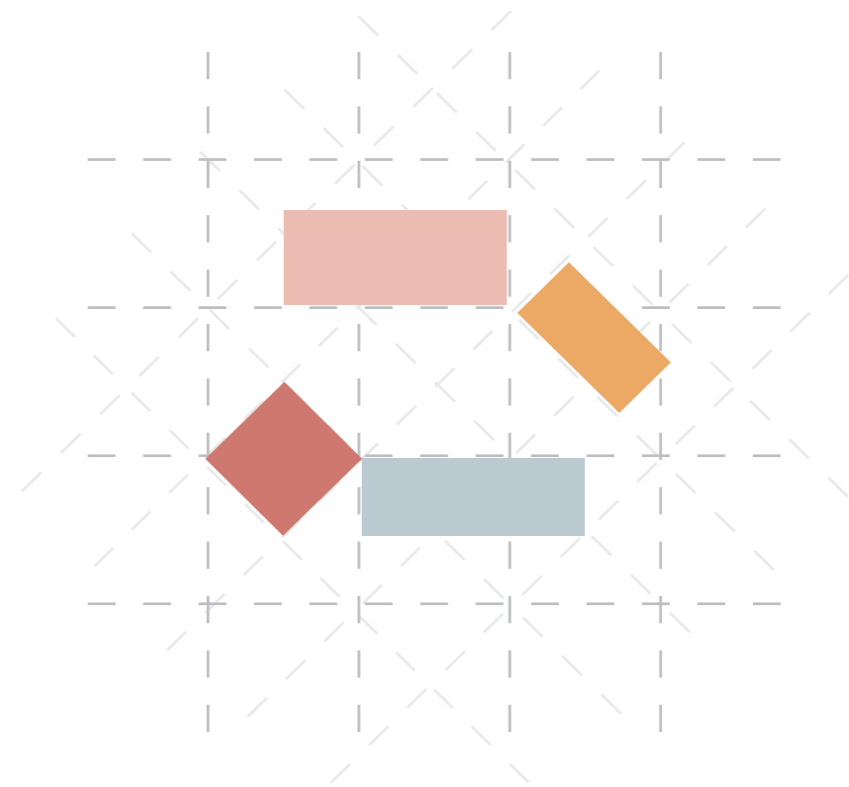
leisure

commerce

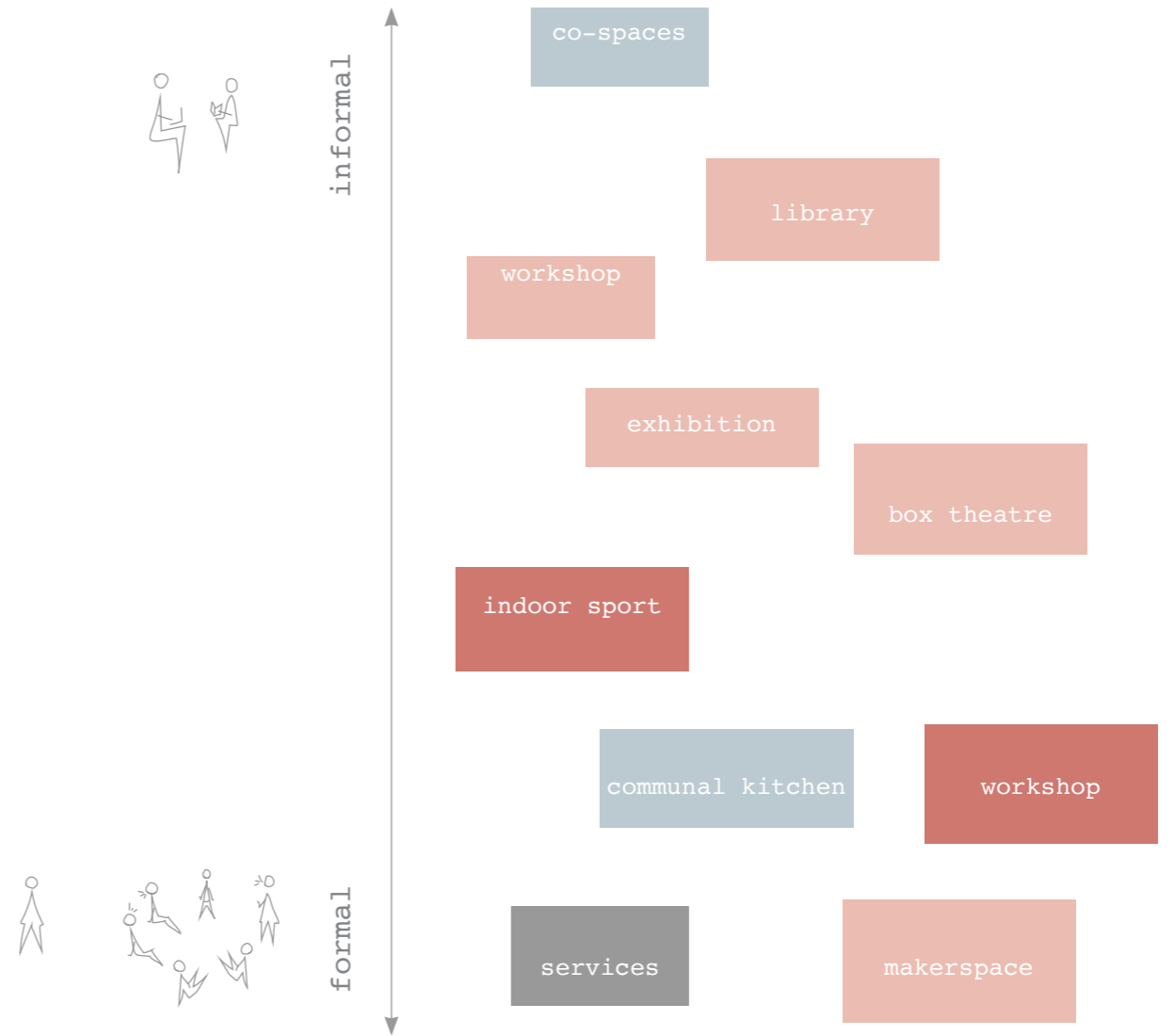
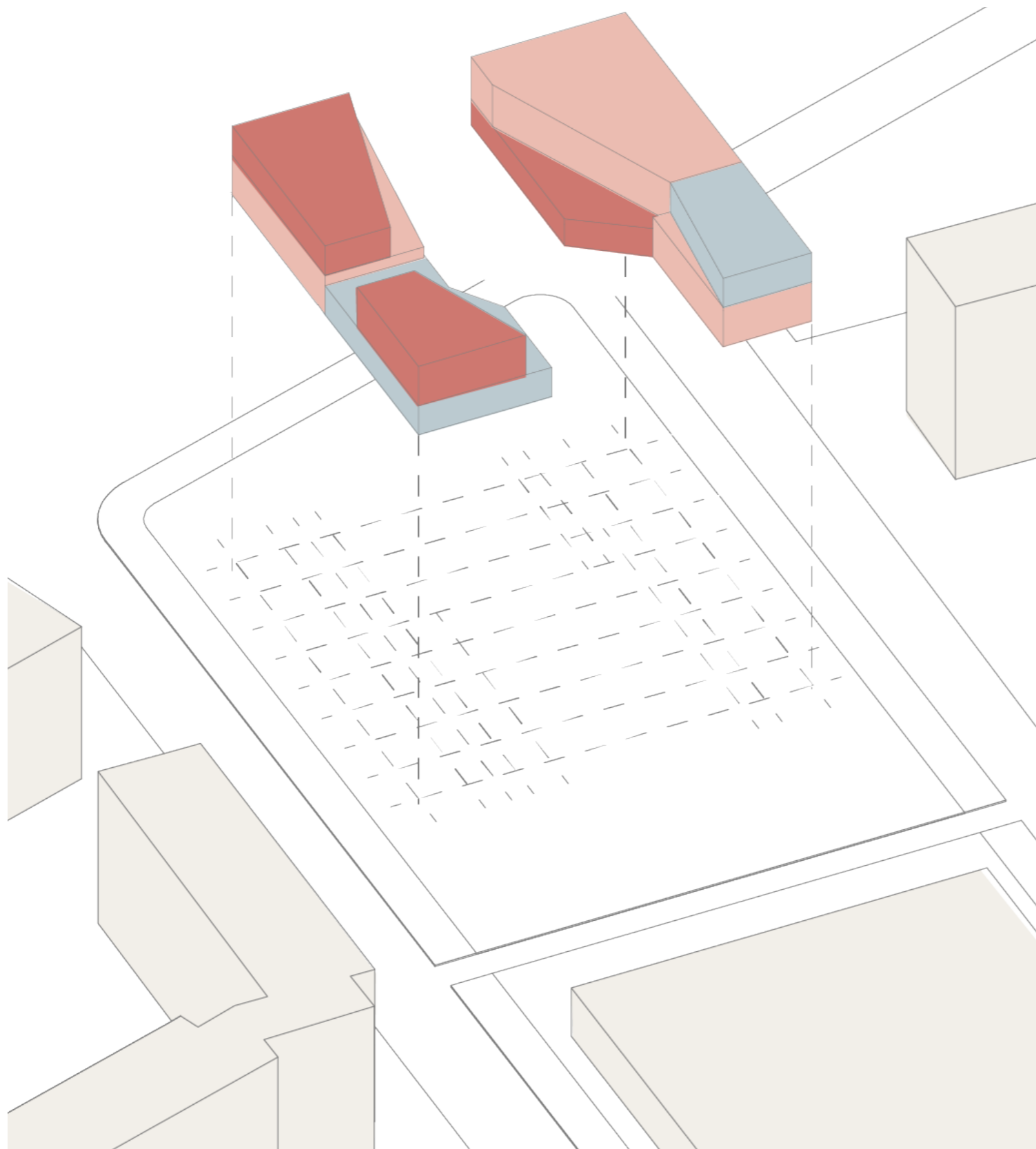
share & meet

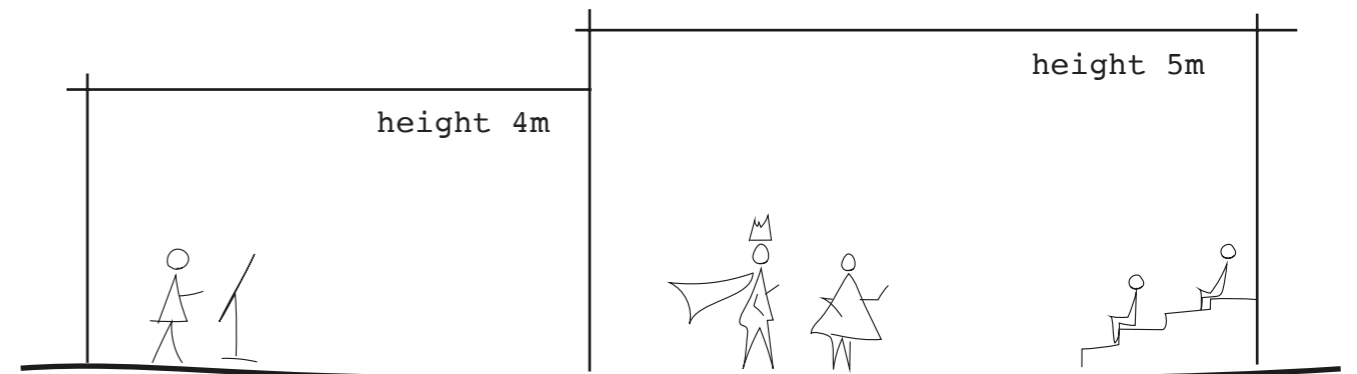
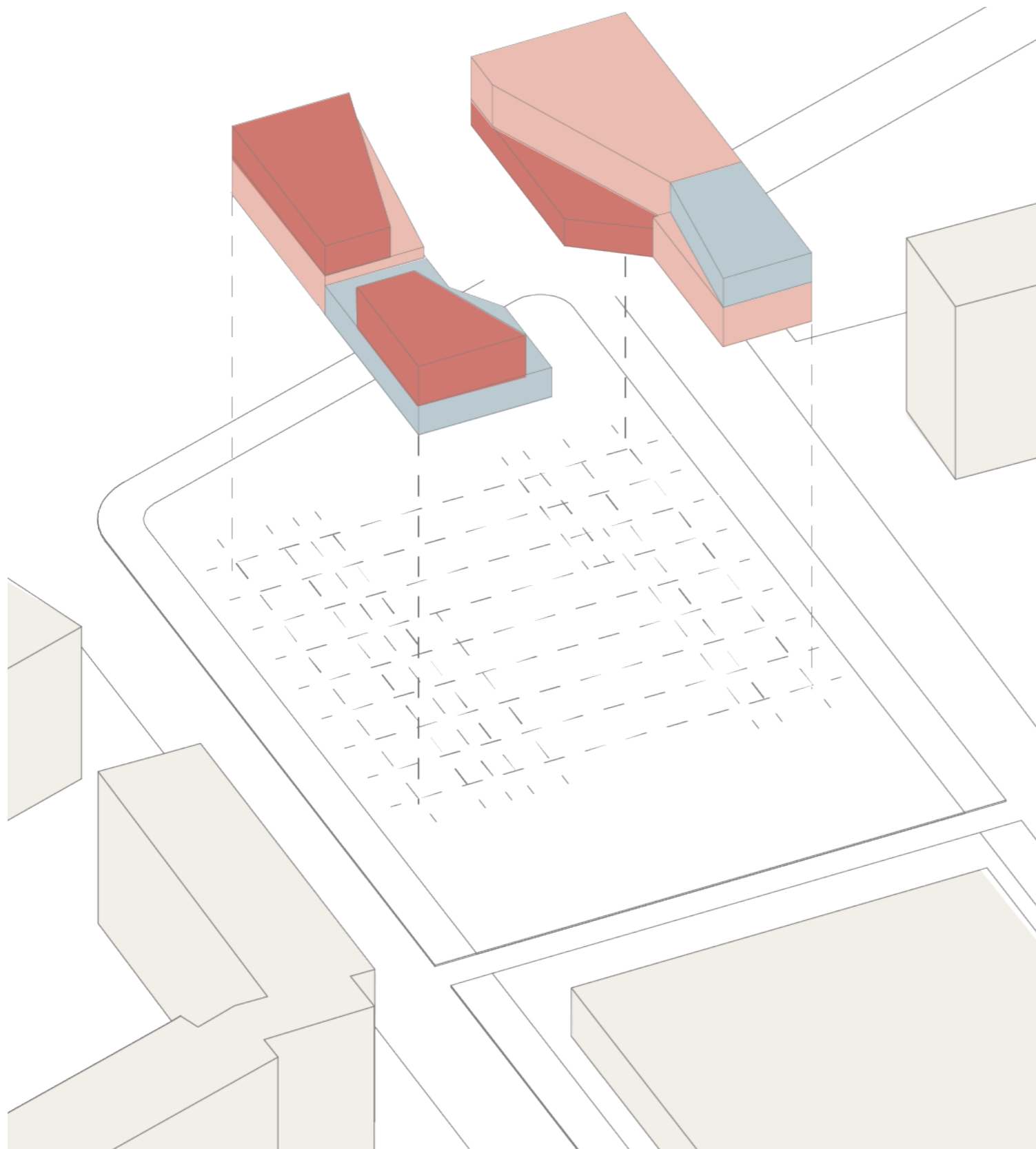


grid of 90°

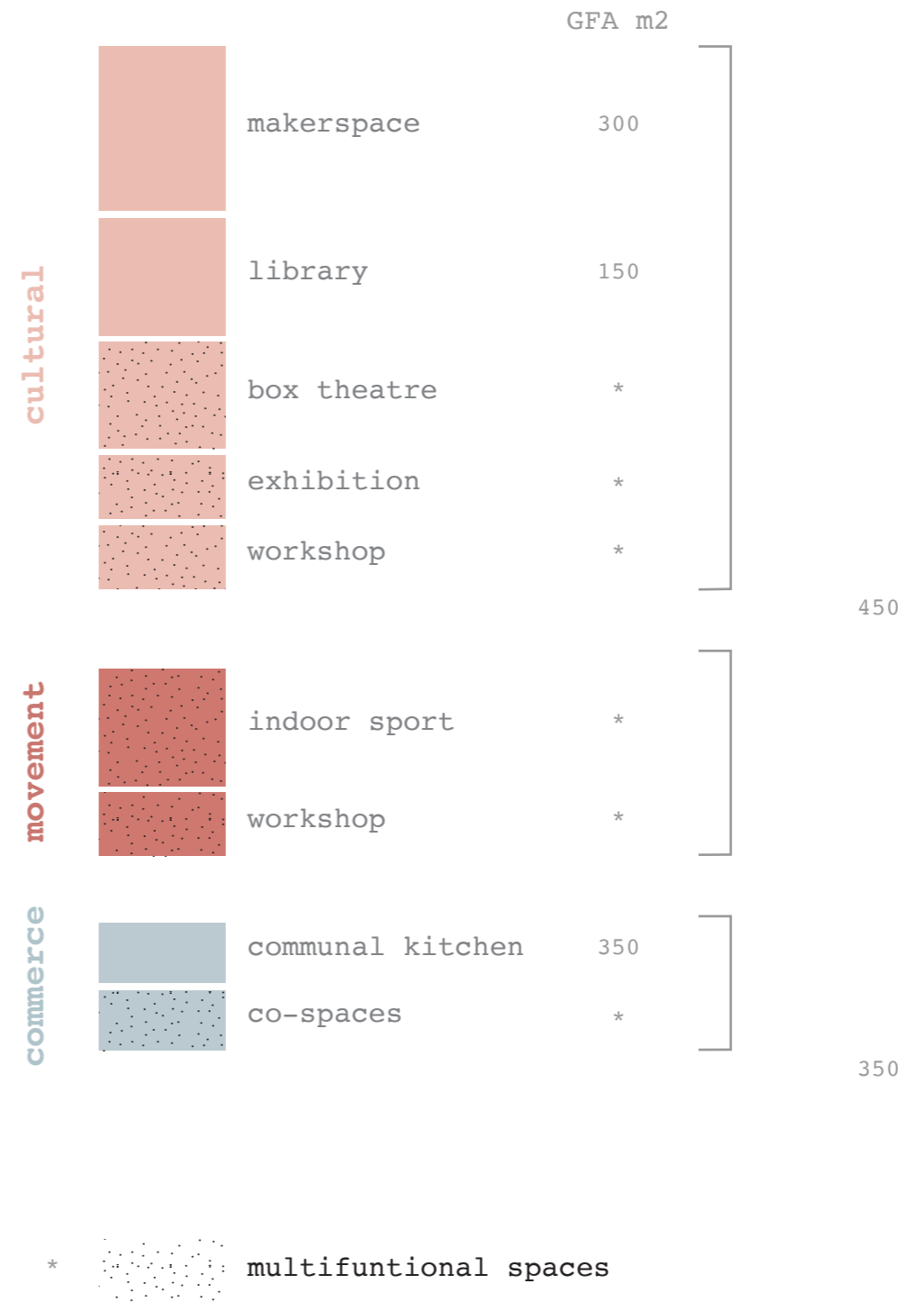
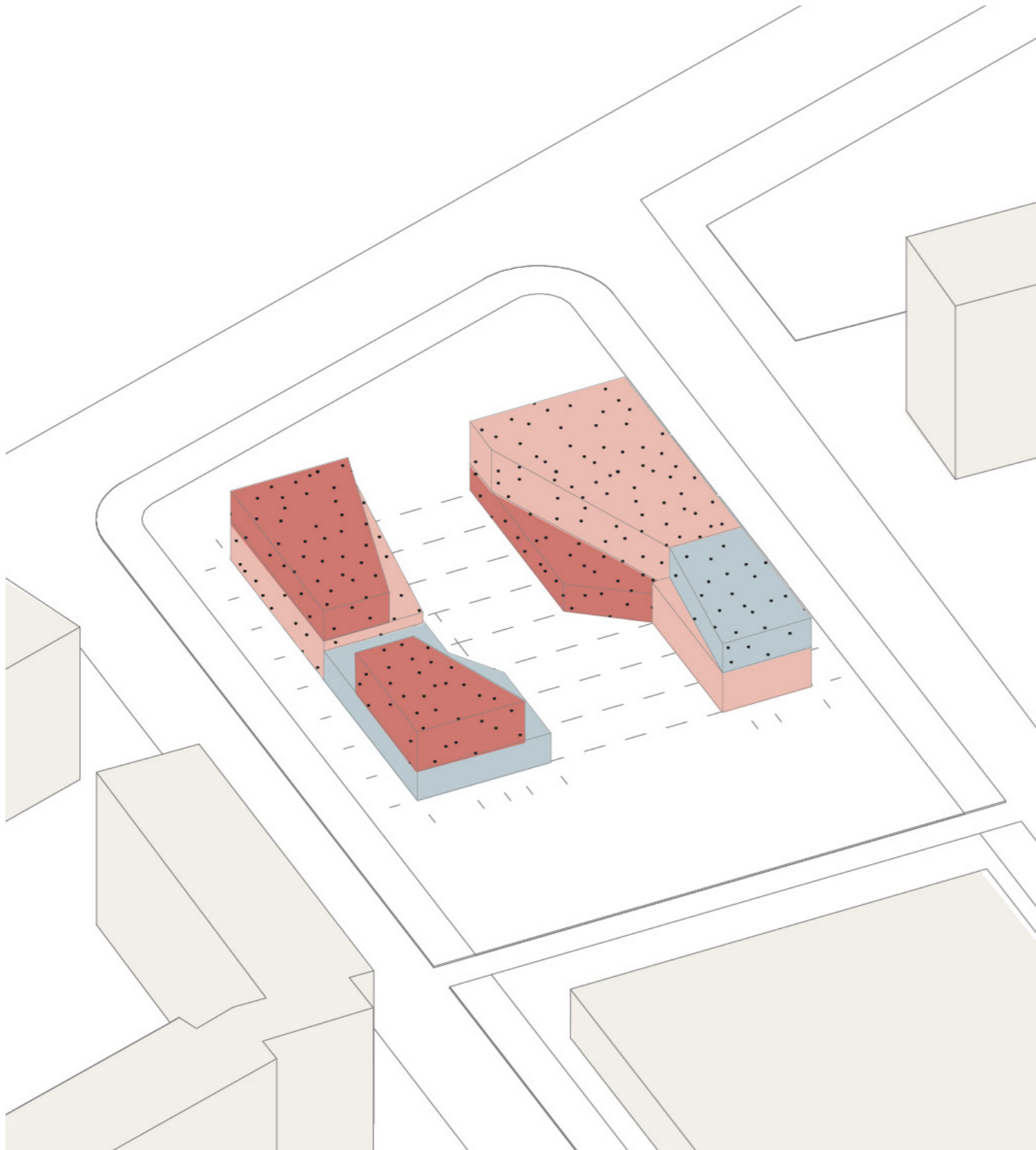


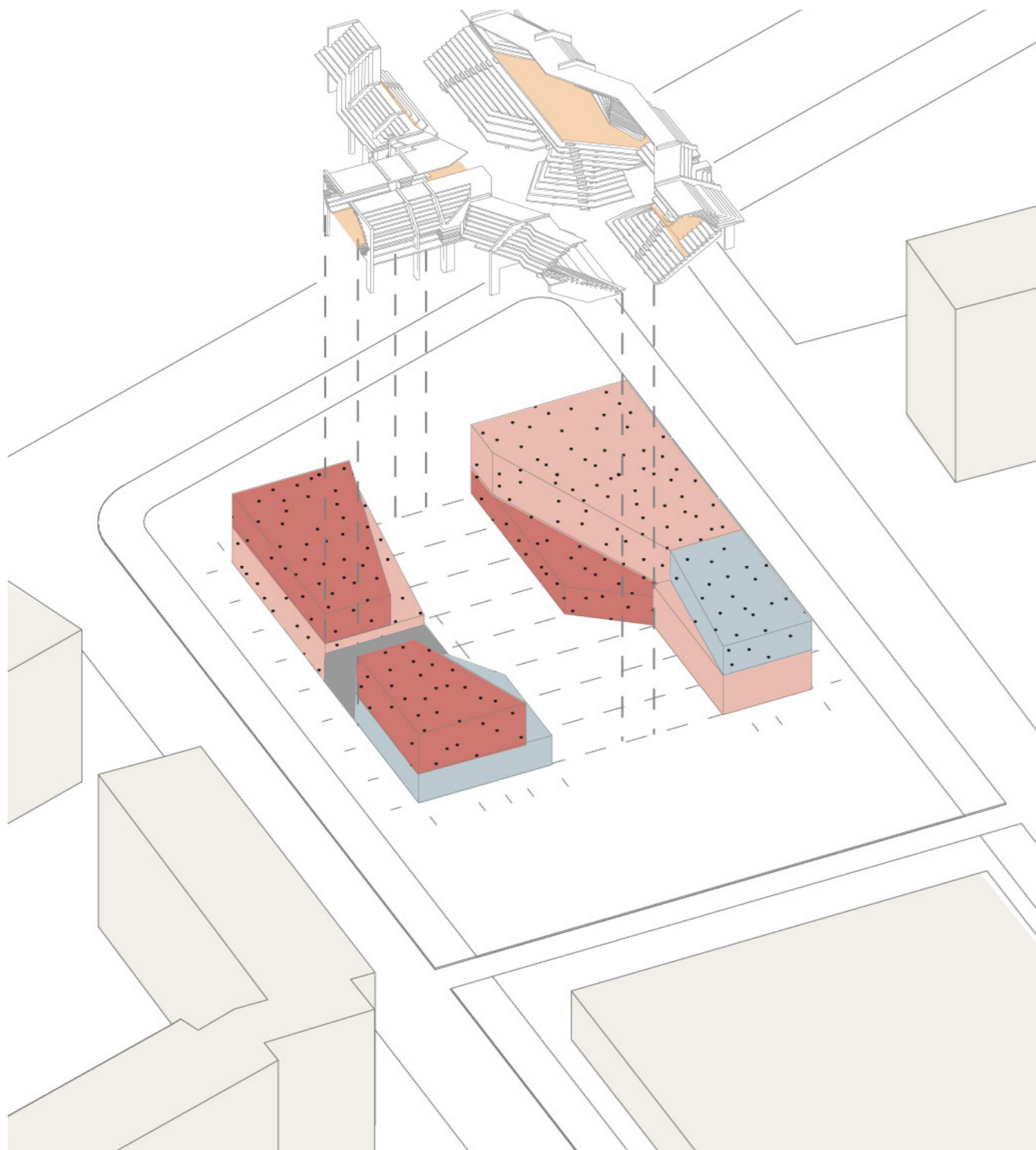
grid of 90° and secundair grid of 45°








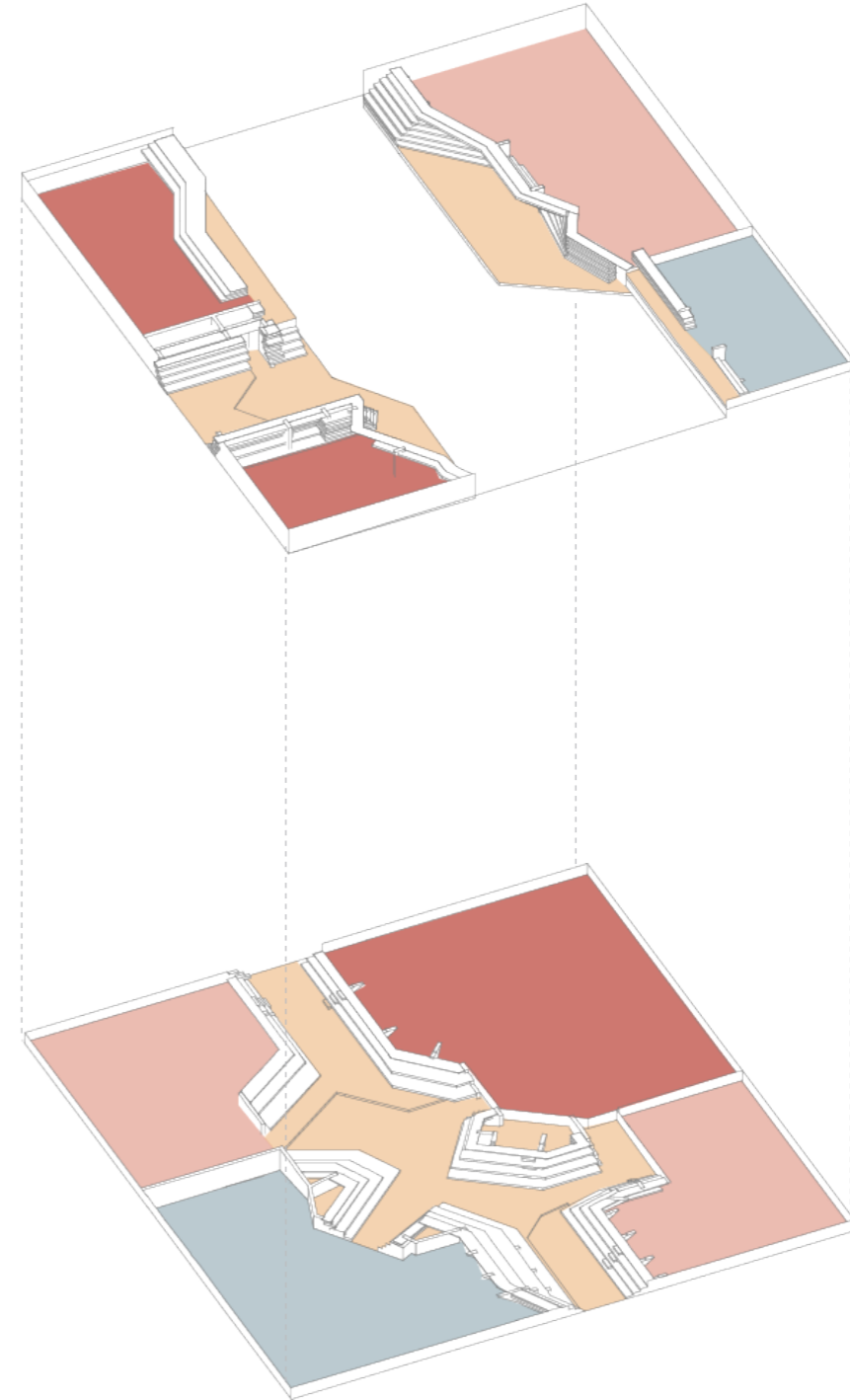
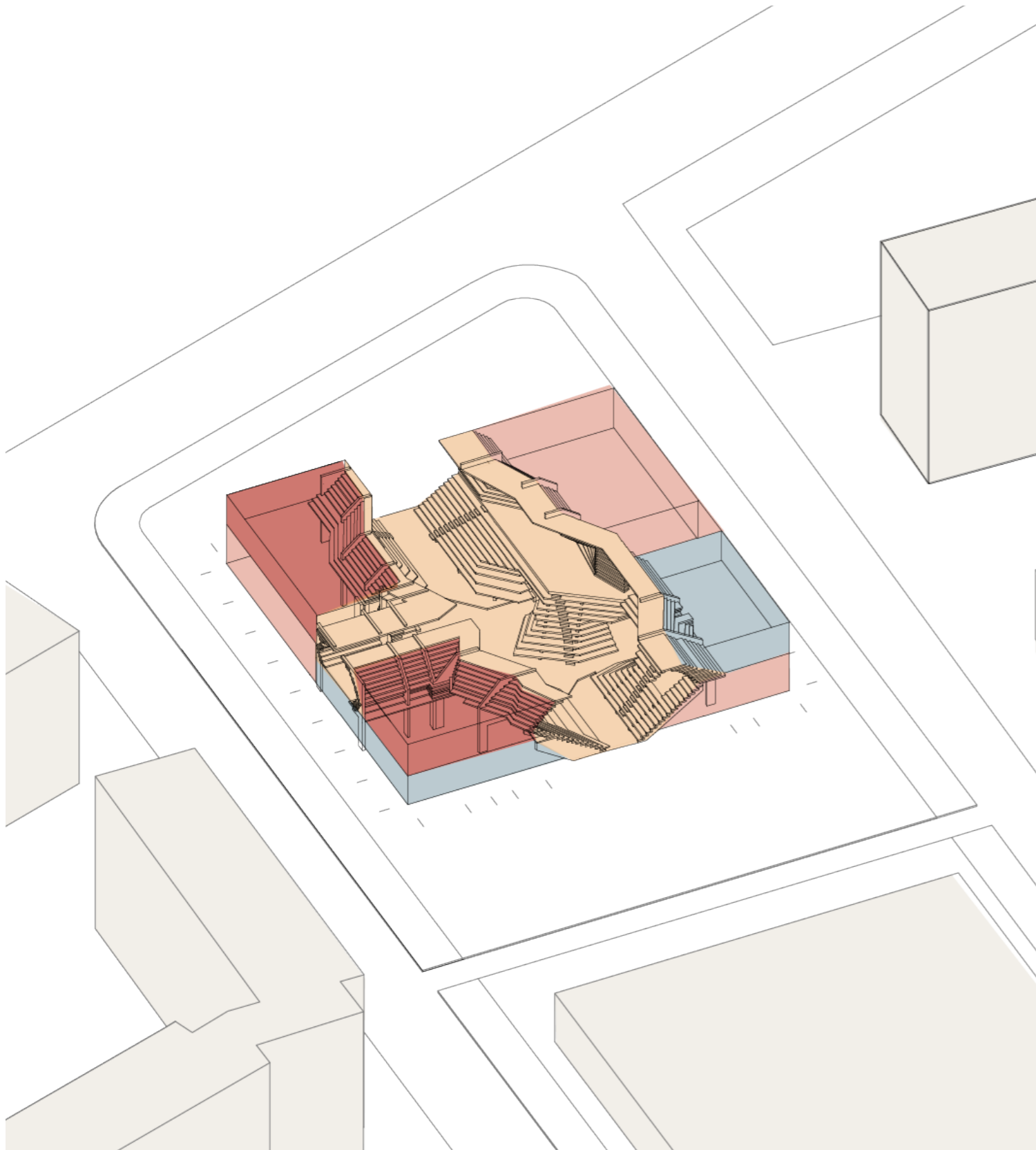


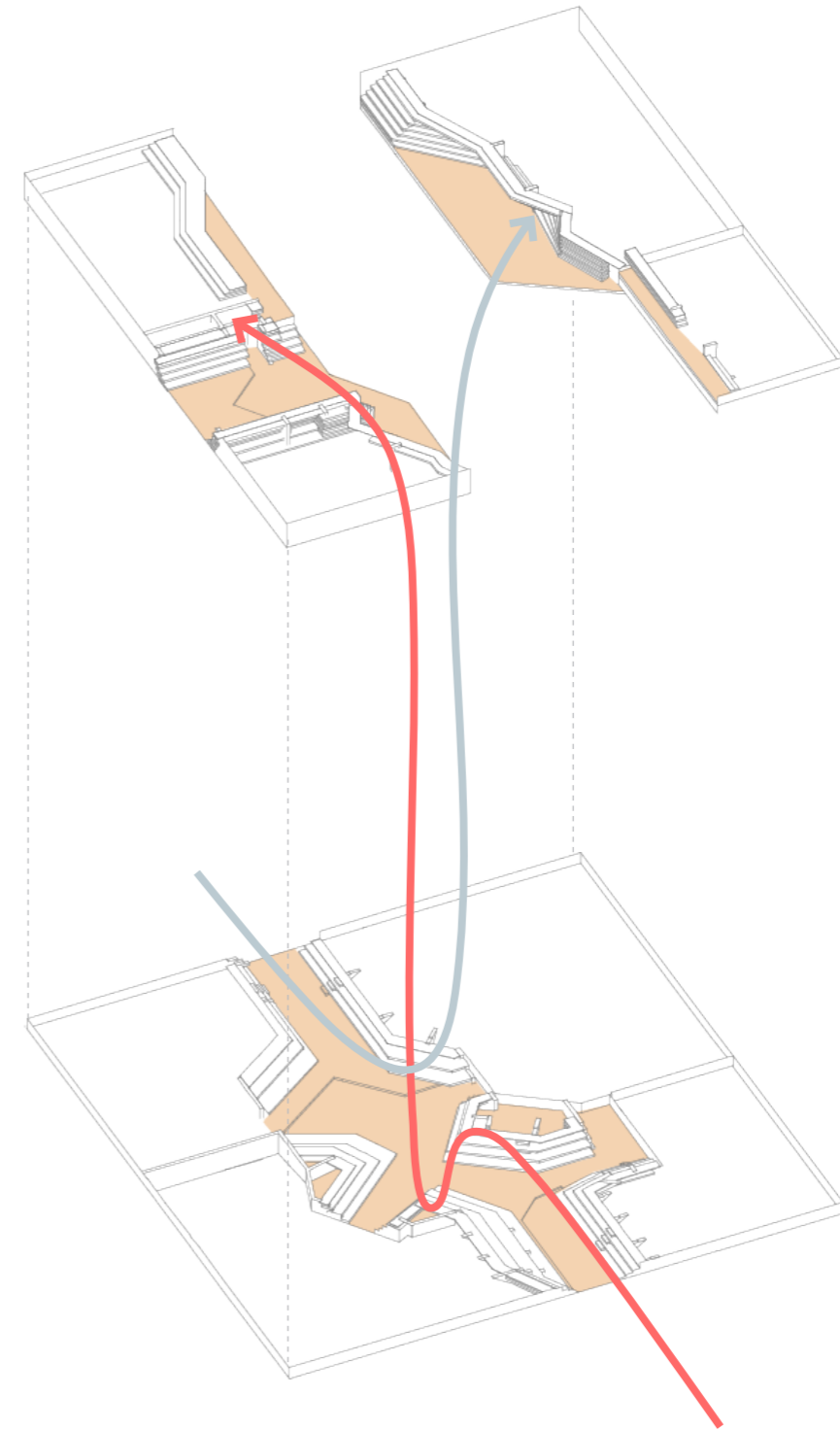
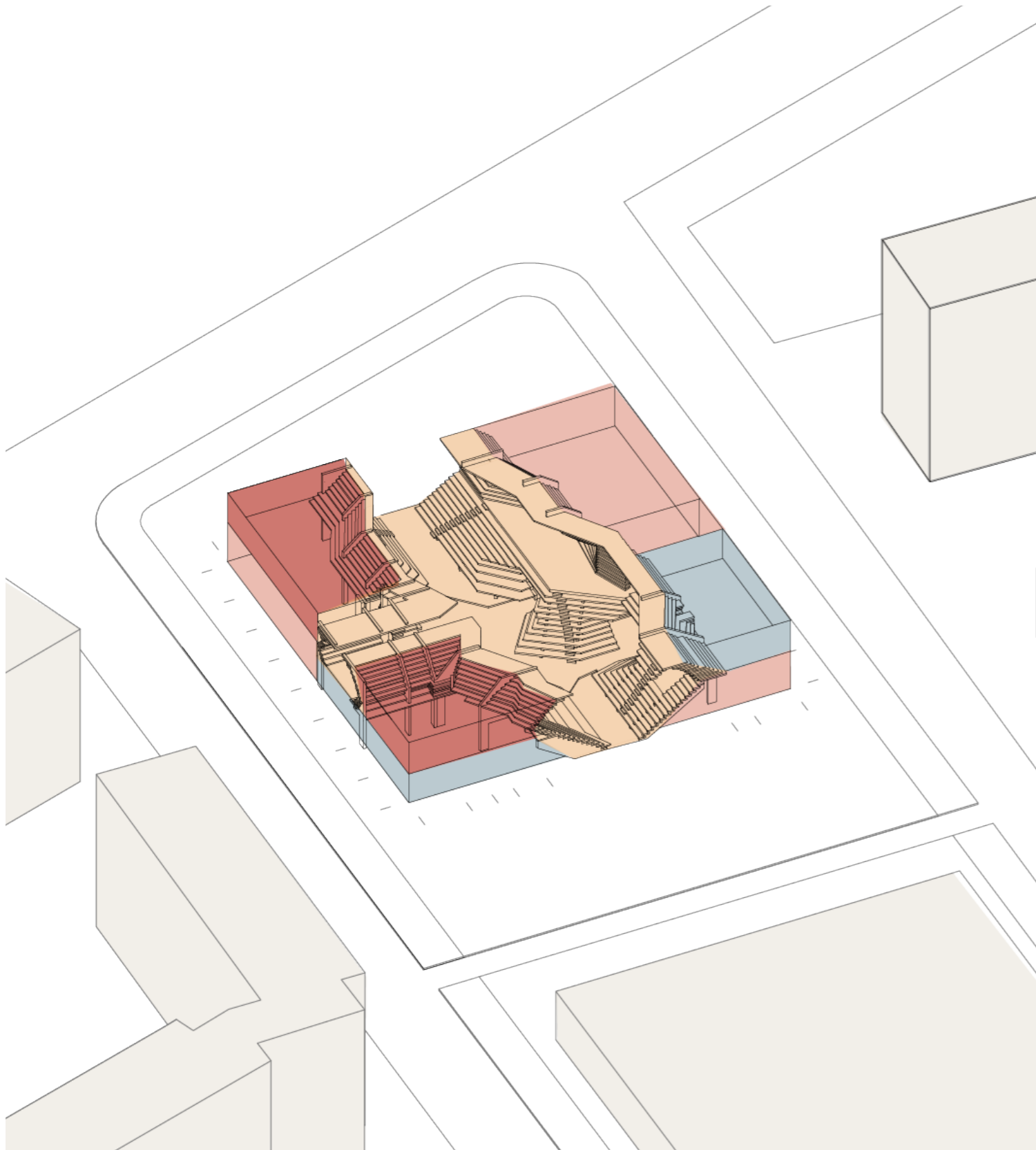
multifunctional spaces available different heights

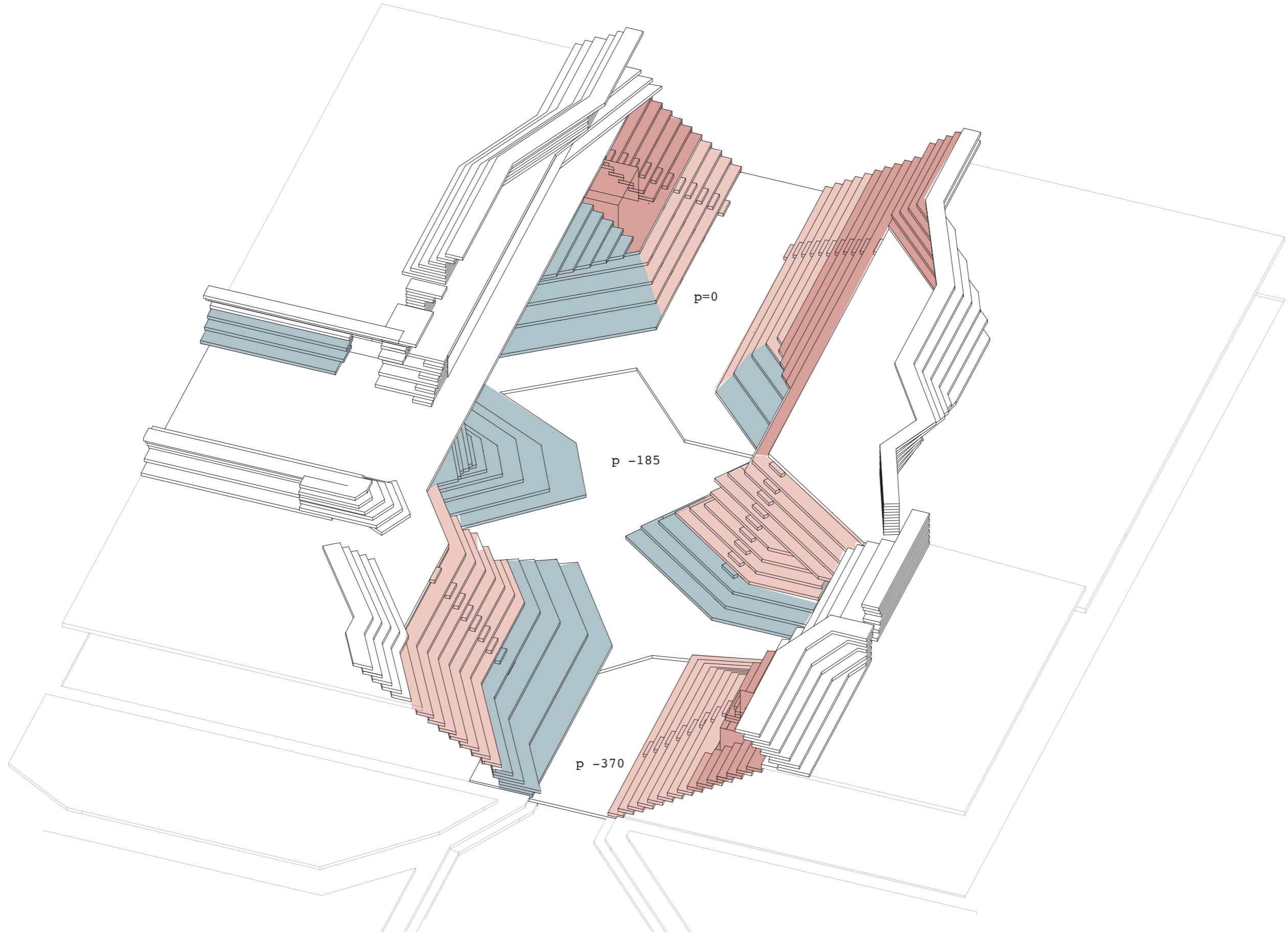




		GFA m2	
gathering space	 forum	1460] 1460
	 technical spaces	150	
services	 toilet	40] 190
	 spaces height 4m	900	
multifunc. spaces	 spaces height 5m	850] 1750
	total		







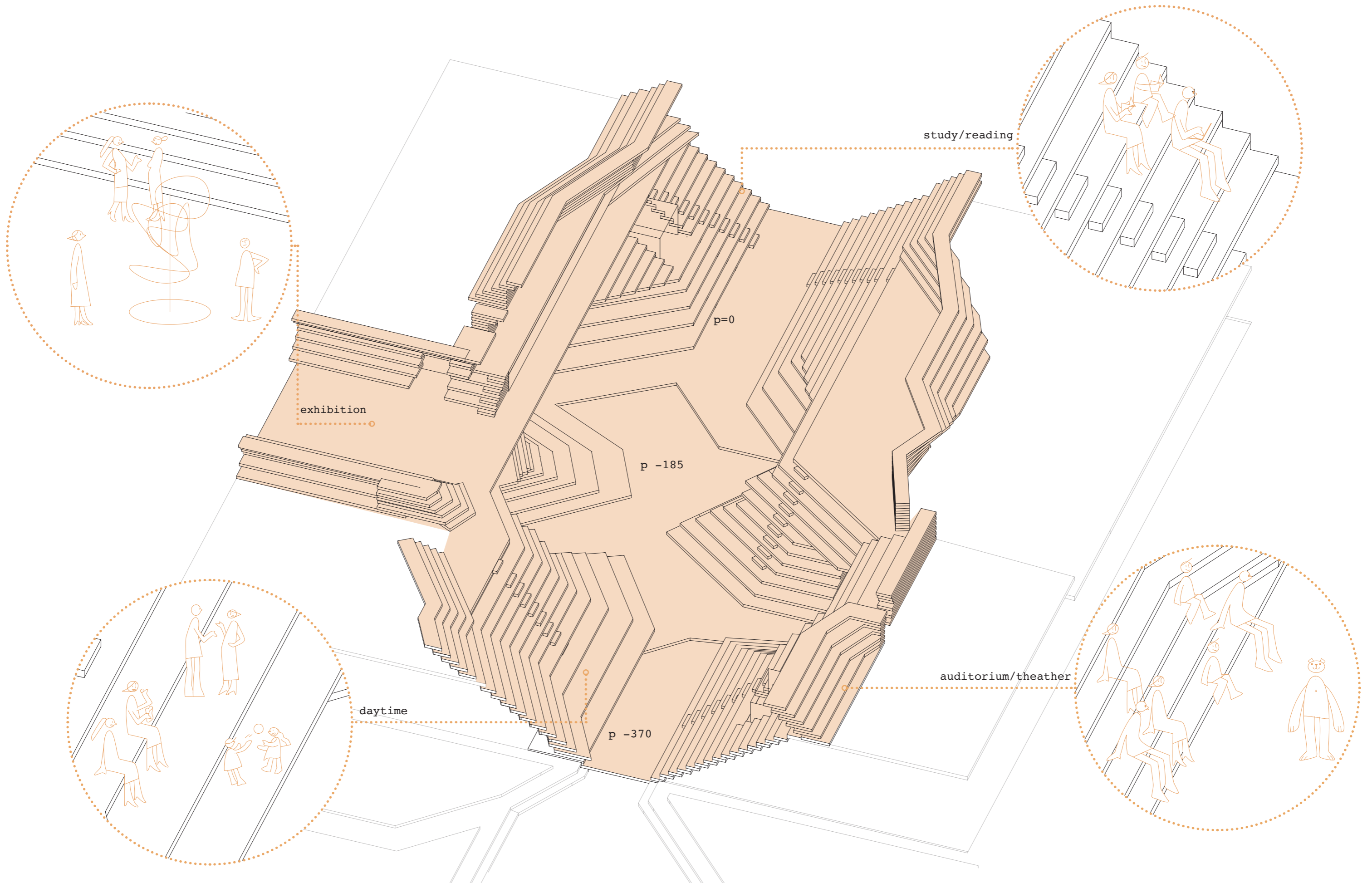
watch zone



interact zone

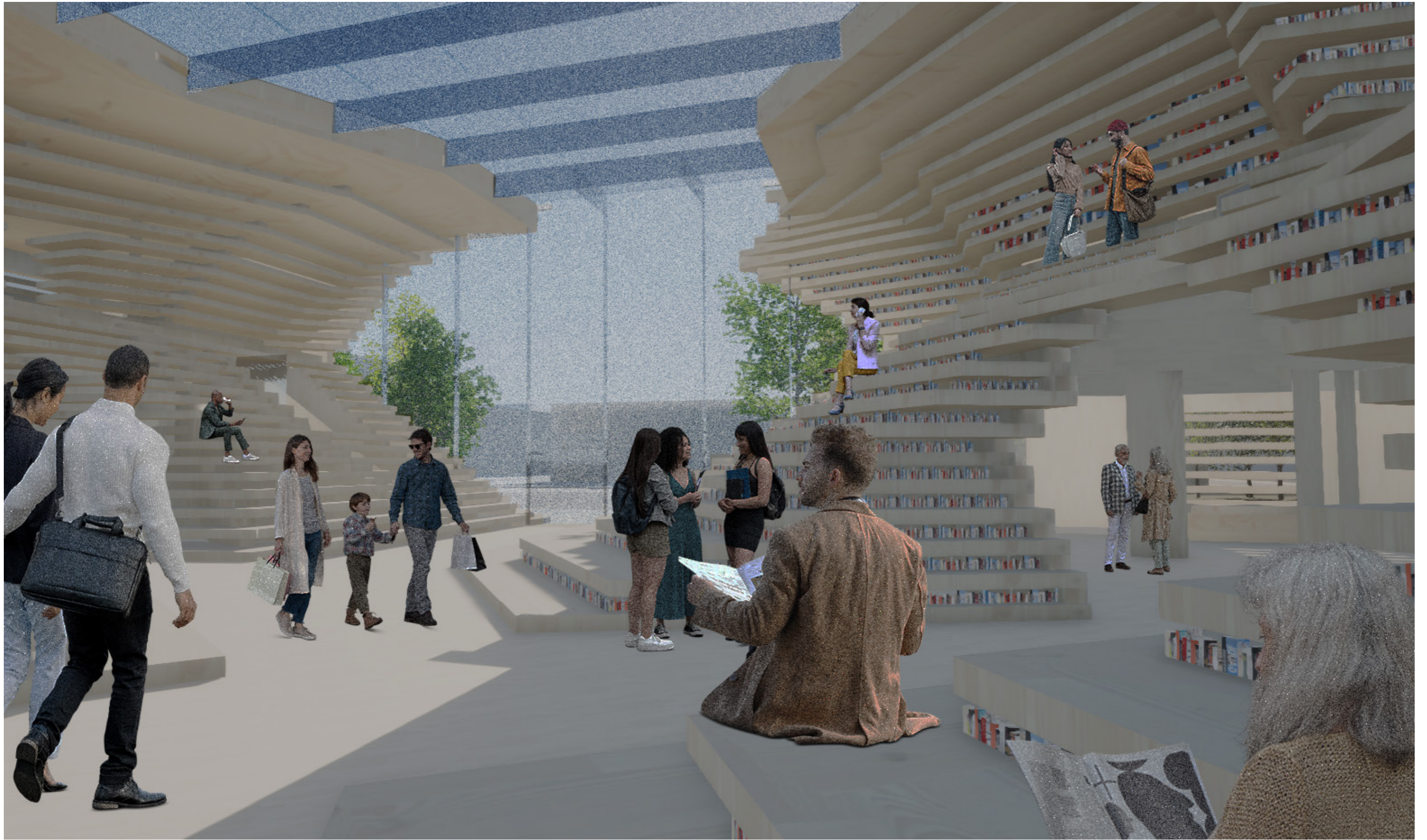


think/work zone





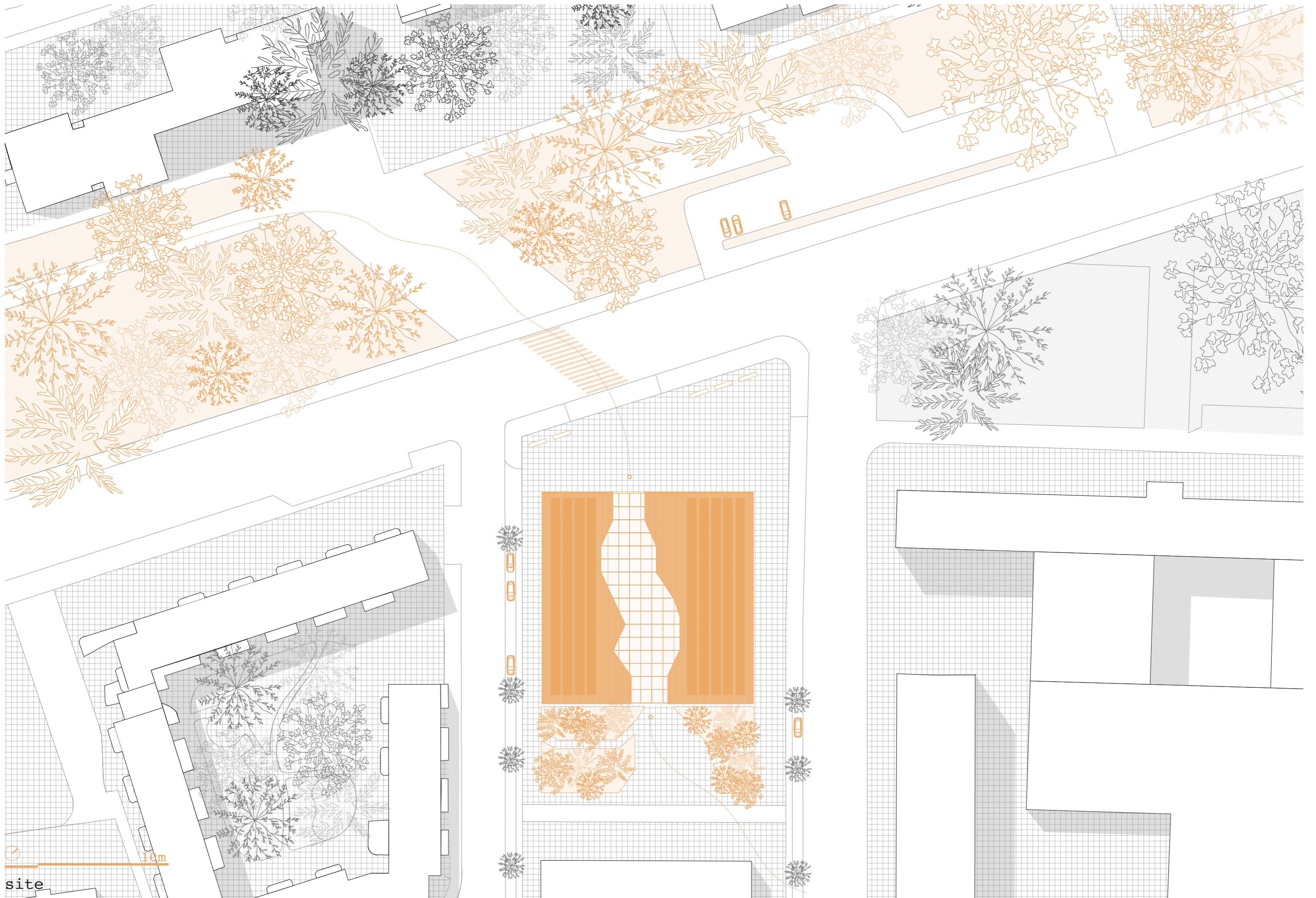
daytime forum - interior



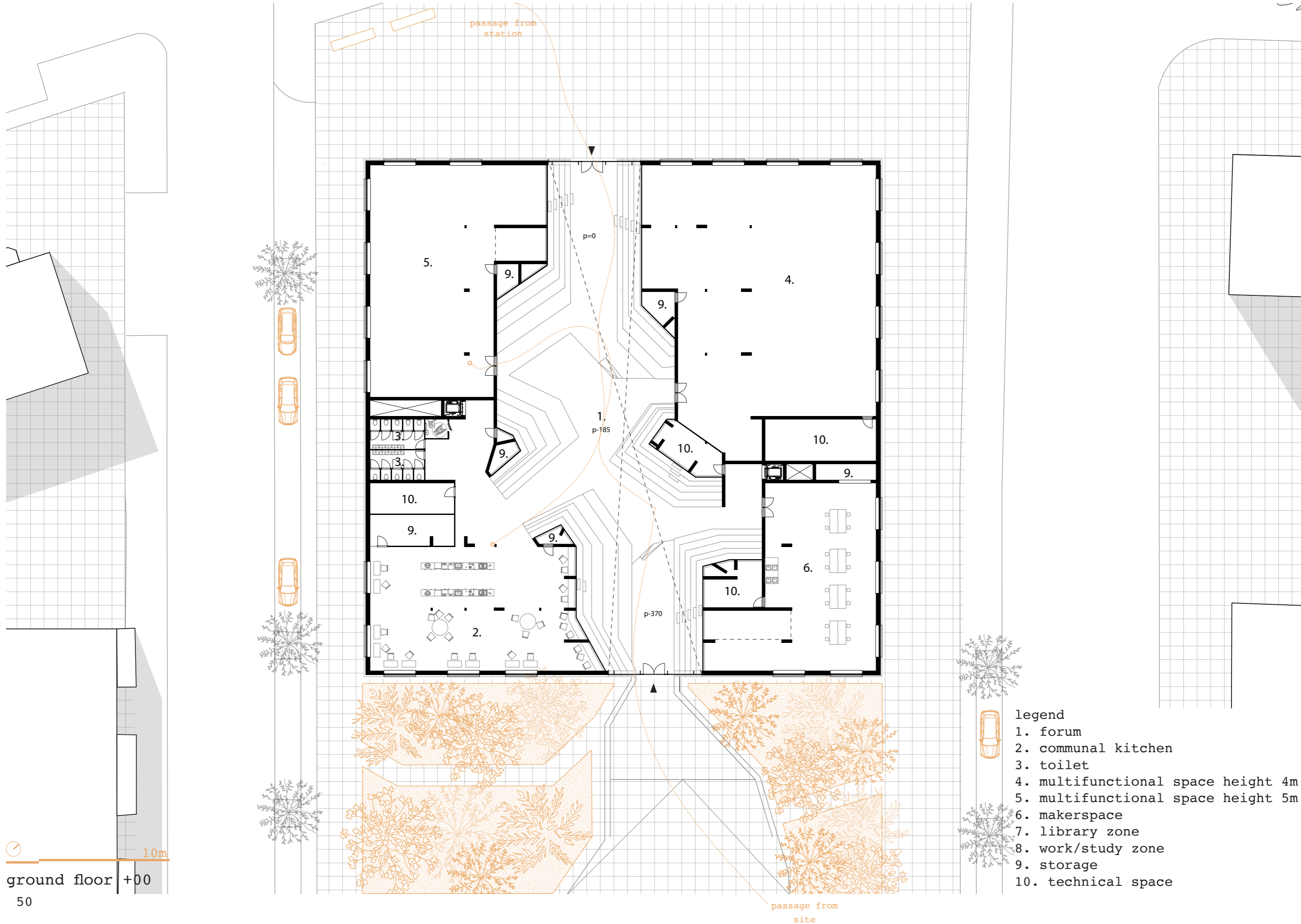
daytime forum - interior



evening forum - interior



10m
site



- legend
- 1. forum
 - 2. communal kitchen
 - 3. toilet
 - 4. multifunctional space height 4m
 - 5. multifunctional space height 5m
 - 6. makerspace
 - 7. library zone
 - 8. work/study zone
 - 9. storage
 - 10. technical space

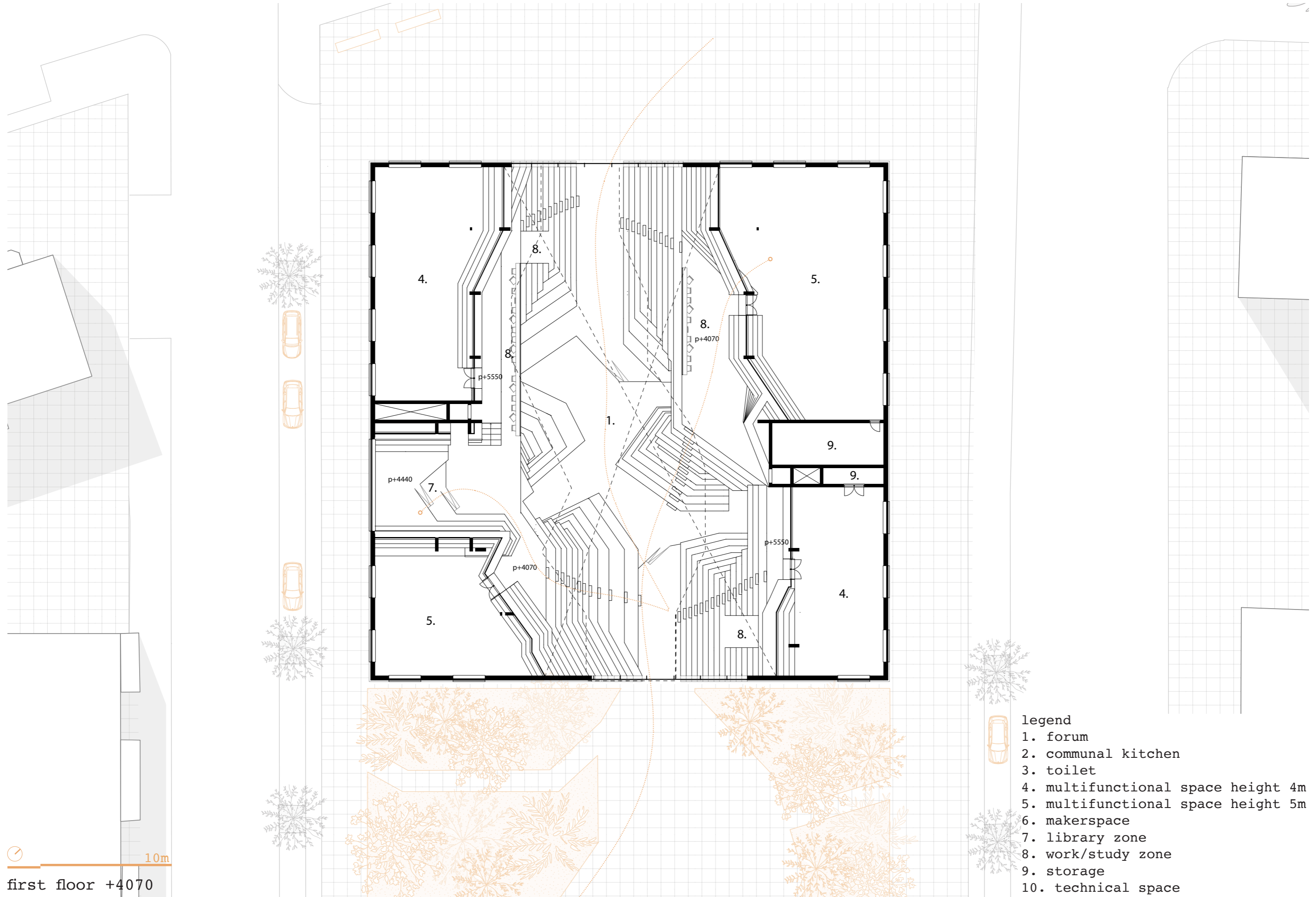
10m
ground floor +00



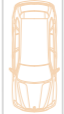
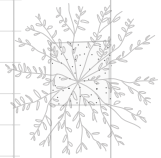
communal kitchen - interior



multifunctional space - interior



10m
first floor +4070

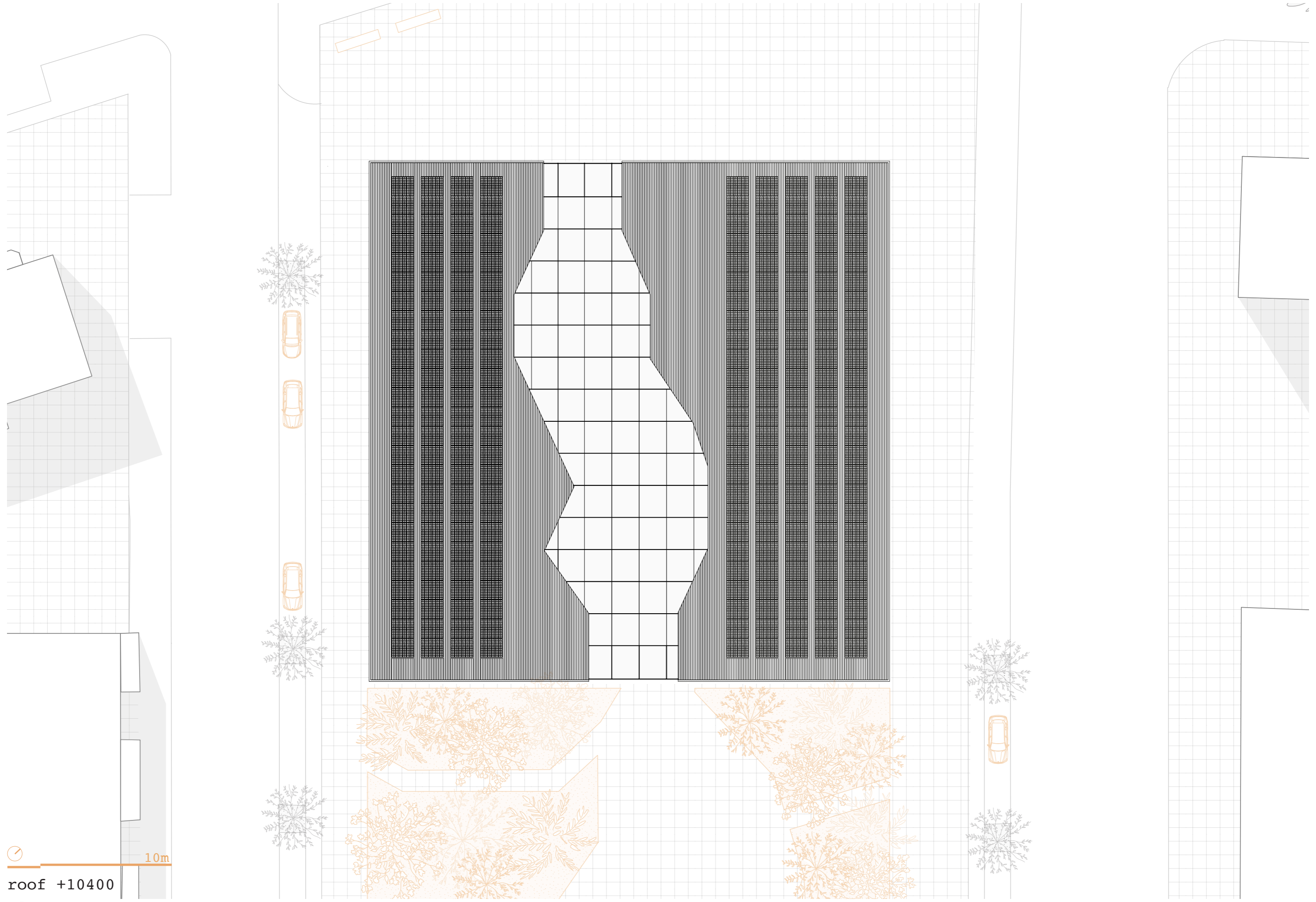
- legend
-  1. forum
 -  2. communal kitchen
 - 3. toilet
 - 4. multifunctional space height 4m
 - 5. multifunctional space height 5m
 - 6. makerspace
 - 7. library zone
 - 8. work/study zone
 - 9. storage
 - 10. technical space



library - interior

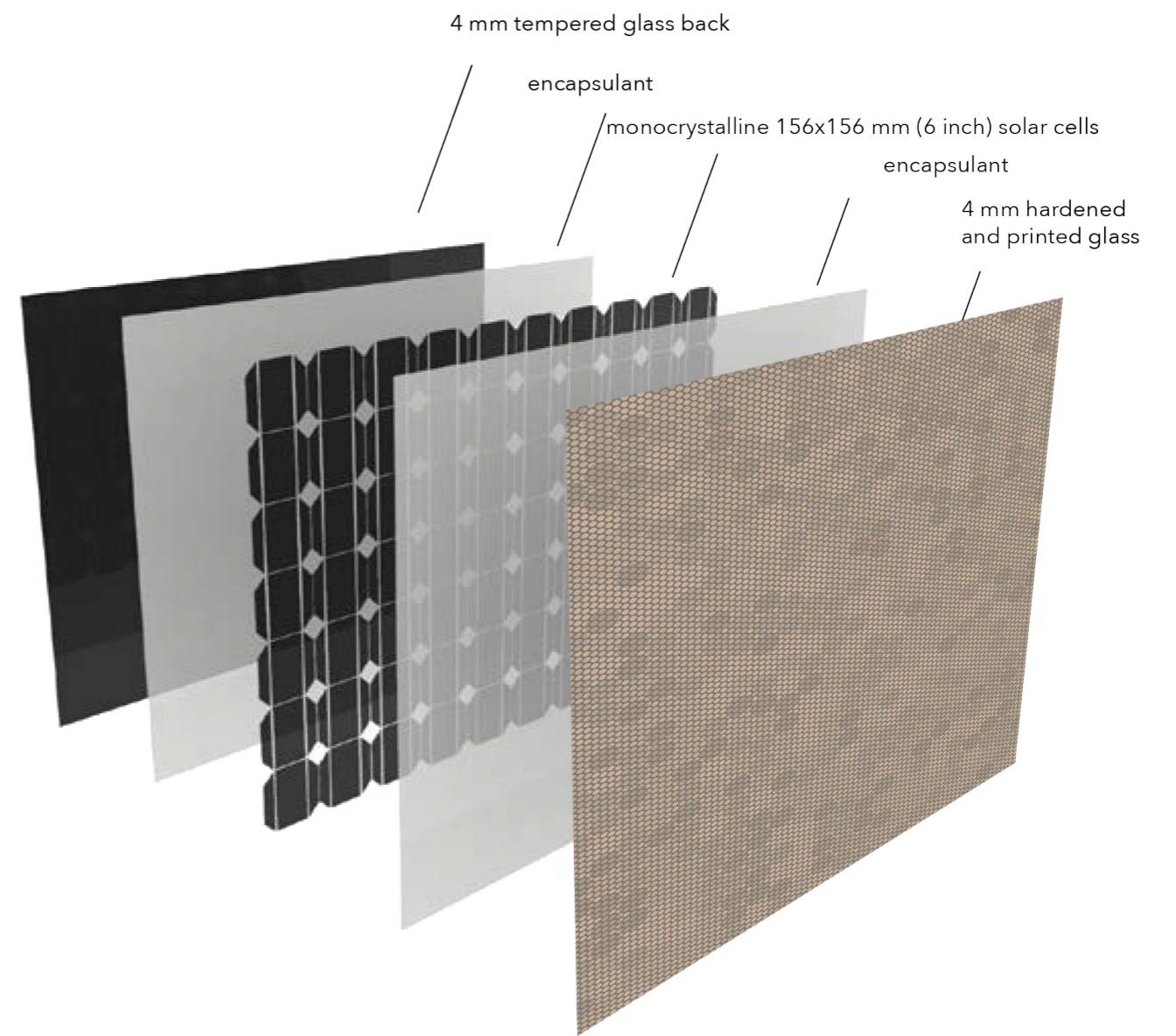
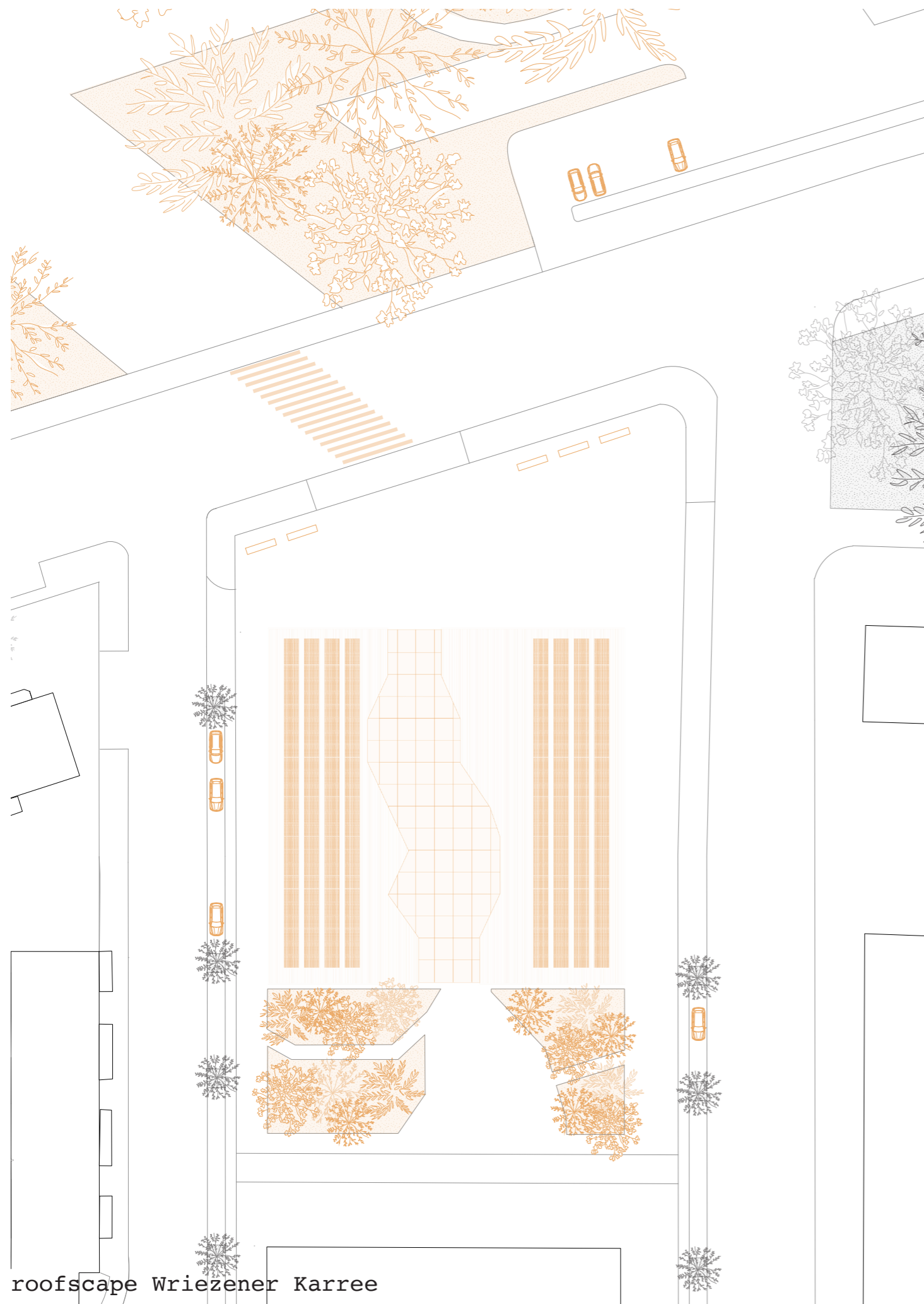


multifunctional space - interior

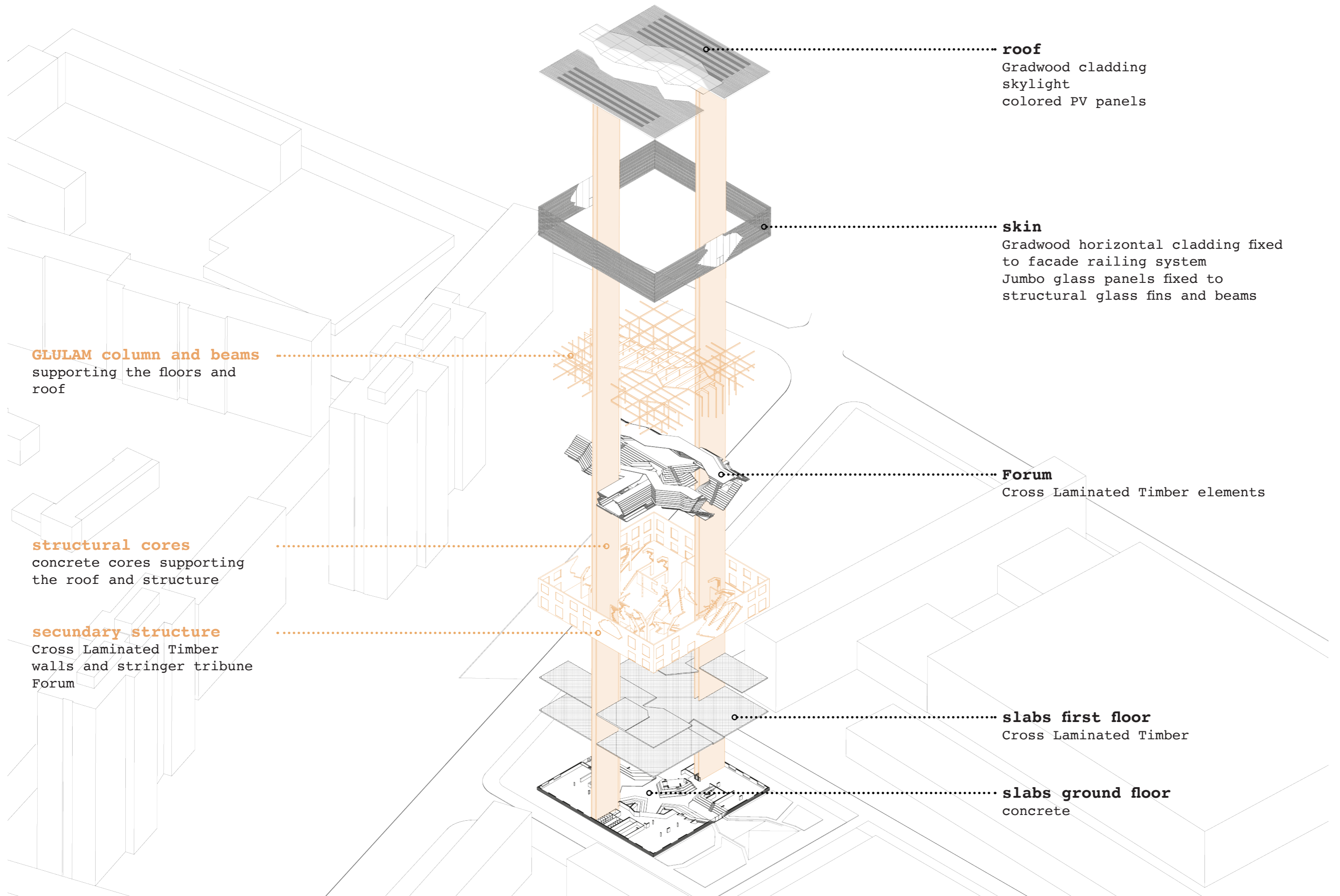


10m

roof +10400



(Sources: Solarix, 2023)



roof
Gradwood cladding
skylight
colored PV panels

skin
Gradwood horizontal cladding fixed to facade railing system
Jumbo glass panels fixed to structural glass fins and beams

GLULAM column and beams
supporting the floors and roof

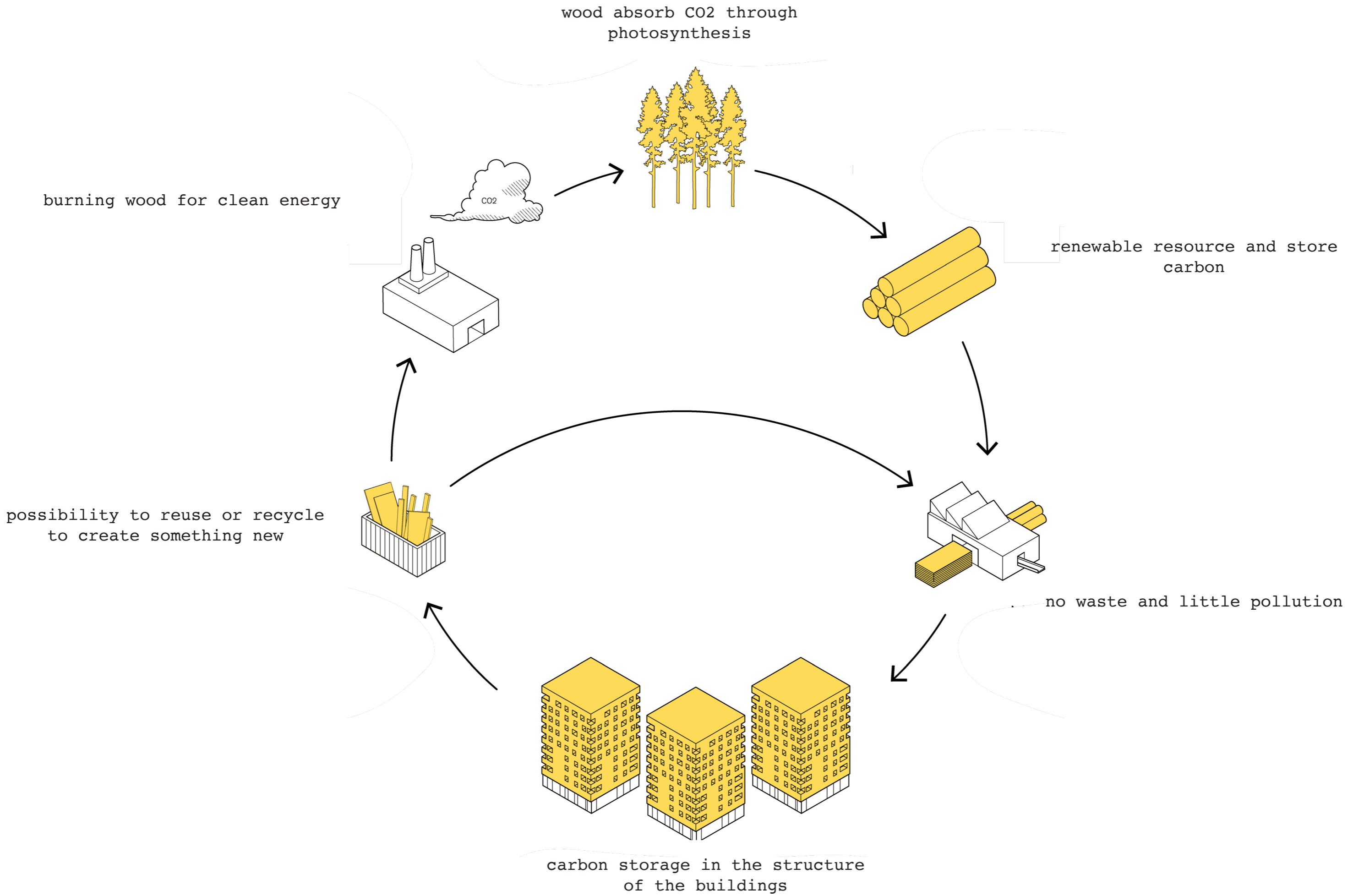
structural cores
concrete cores supporting the roof and structure

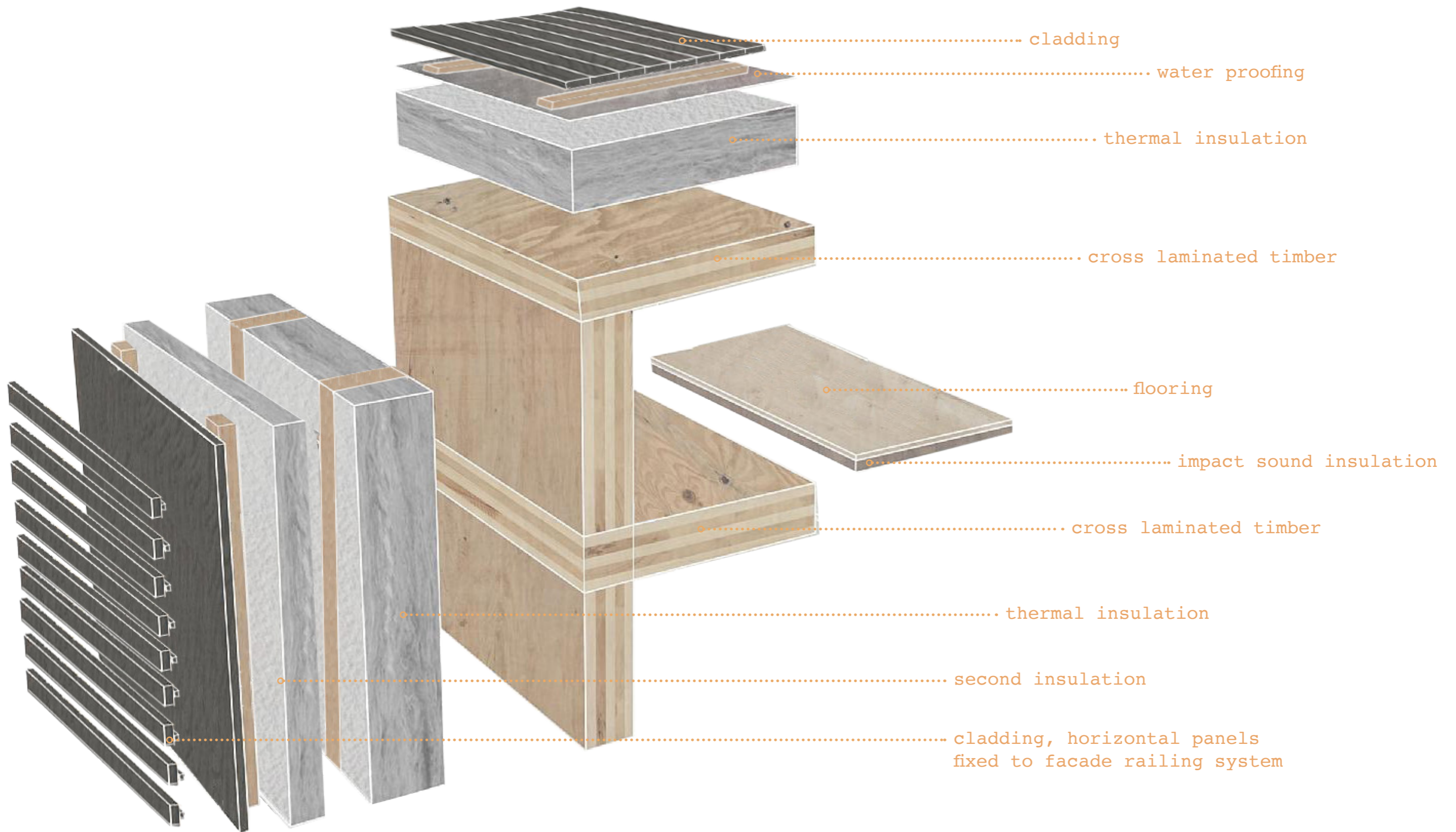
secondary structure
Cross Laminated Timber walls and stringer tribune Forum

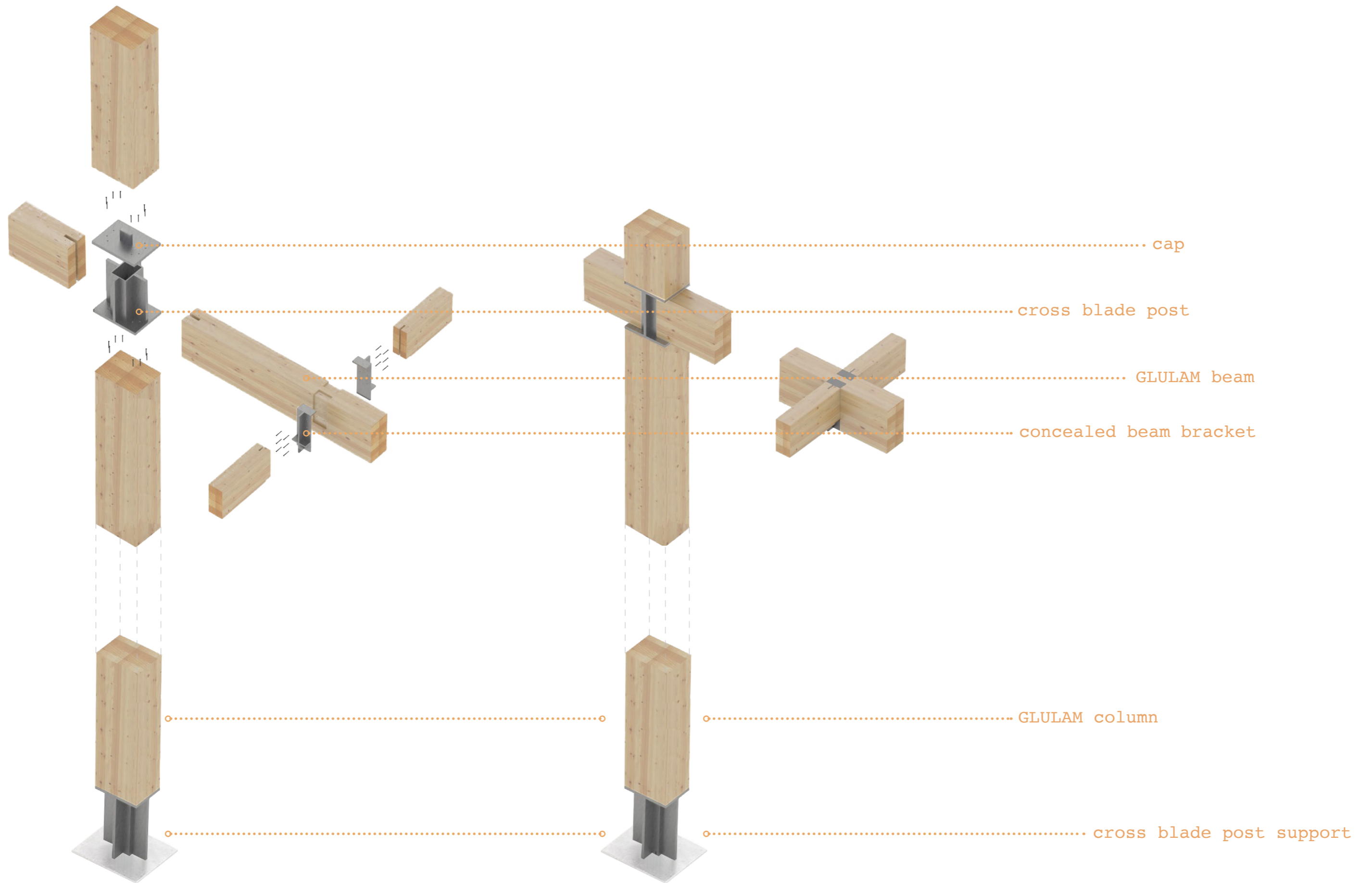
Forum
Cross Laminated Timber elements

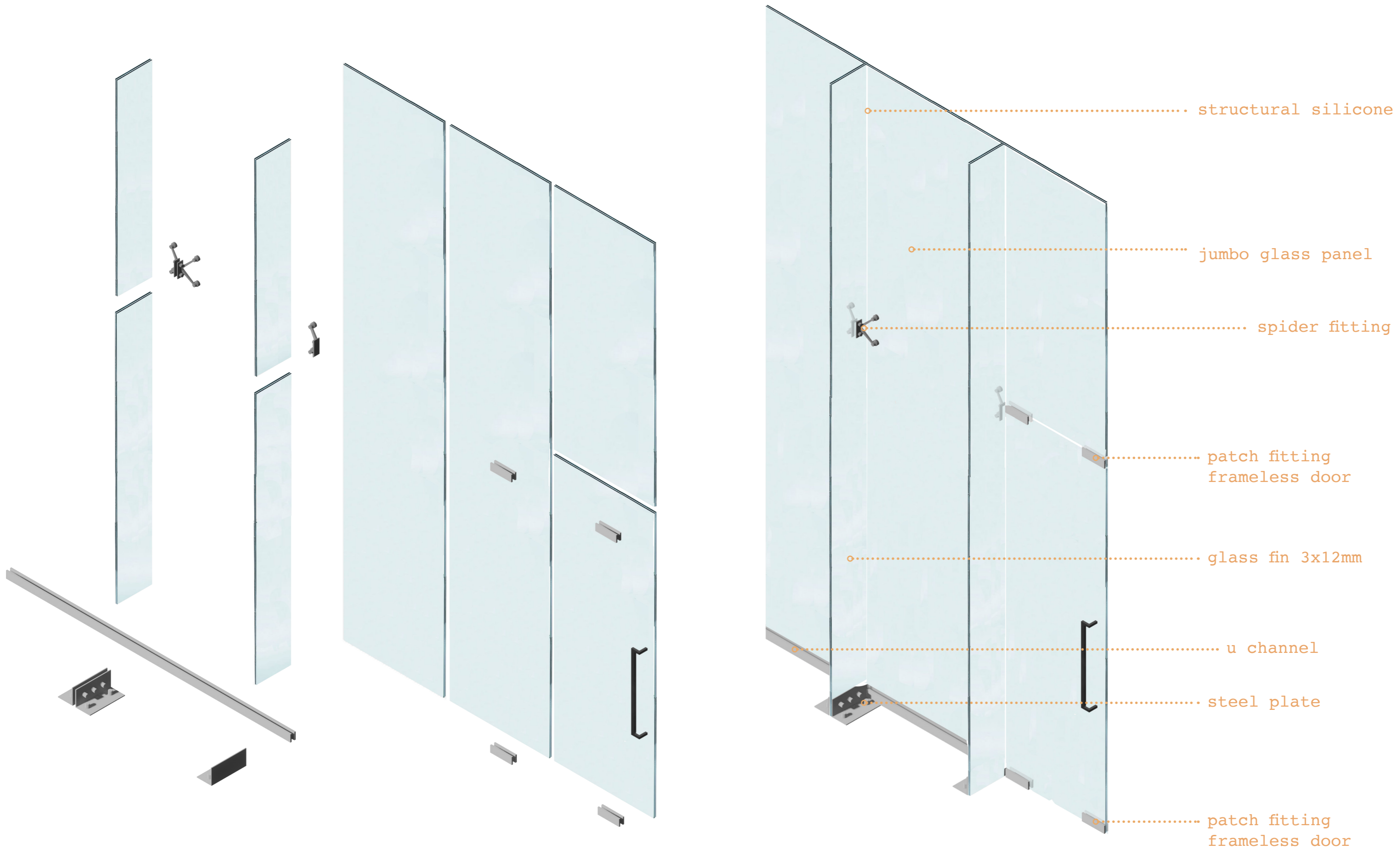
slabs first floor
Cross Laminated Timber

slabs ground floor
concrete











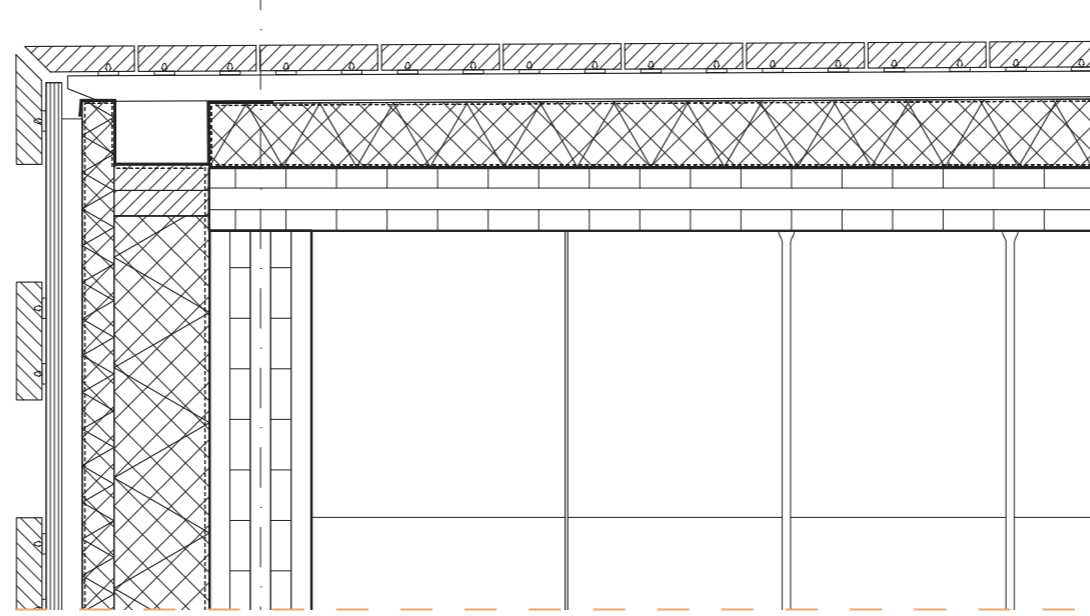
A- ROOF
 Gradwood cladding panels, 40x185mm;
 Gradwood rail system, aluminium
 Battens gradwood, 40/50mm;
 Waterproofing black;
 Gutter steel;
 Vapour barrier;
 glass foam insulation 100-200mm;
 Cross Laminated Timber, 160mm;
 Glulam beam;
 Installation space, 850mm;
 Metal frame mounting system;
 Acoustic ceiling: 19mm spruce three
 layer panel, perforated 20mm soft
 wood fibre insulation

B- FACADE
 Insulated triple glazing;
 Combo open and fixed timber window
 frame;
 Window sill, gradwood, planed solid;
 Horizontal cladding, gradwood, 185-
 40mm;
 Gradwood rail system, aluminium
 Gradwood solid panels, 25mm;
 Battens 32x60mm;
 Windproofing;
 Thermal insulation, 50mm;
 Thermal insulation between studs
 150mm;
 Vapour Barrier;
 Cross Laminated Timber 160mm,
 exposed;

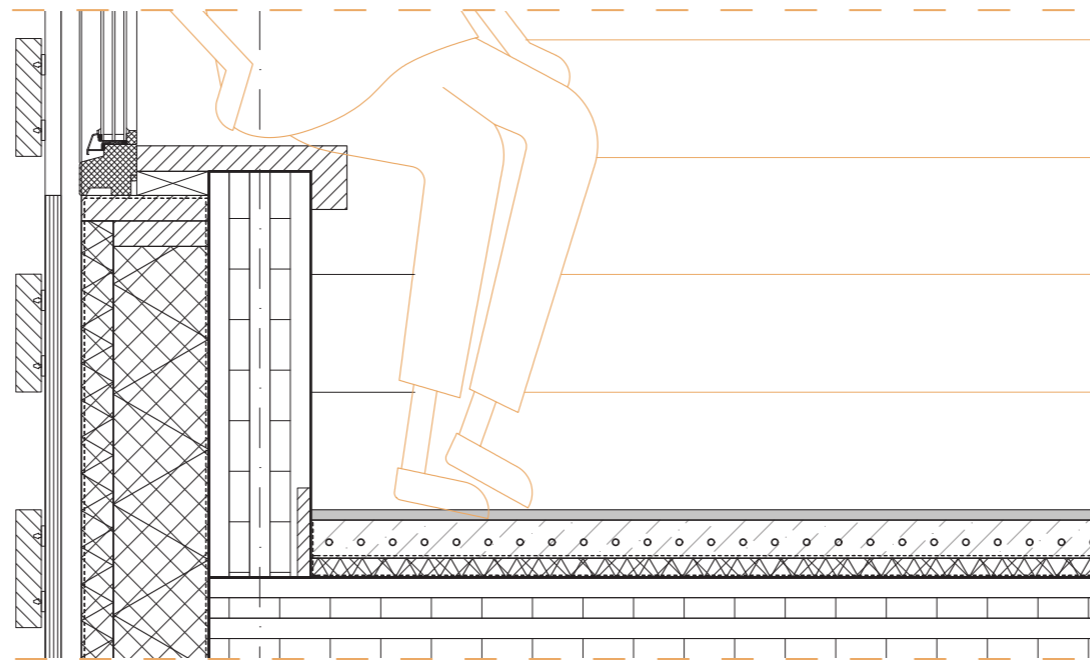
C-FLOOR
 Timber floor parque, 16mm;
 Heating screed, 74mm;
 Separating layer;
 Impact sound insulation, 30mm;
 Sealing;
 Cross Laminated Timber 160mm;
 Installation space, 600mm;
 Metal frame munting system;
 Acoustic ceiling: 19mm spruce
 three-layer panel, perforated 20mm
 soft wood fibre insulation;

D- GROUND FLOOR
 Levelling compoun, 5mm;
 Heating screed, 74mm;
 Separating layer;
 Impact sound insulation, 30mm;
 Sealing;
 Precast core floor slab, 300mm;
 Styrock base plinth;
 Thermal insulation, 150mm;
 Justnimbus Rainwater system;

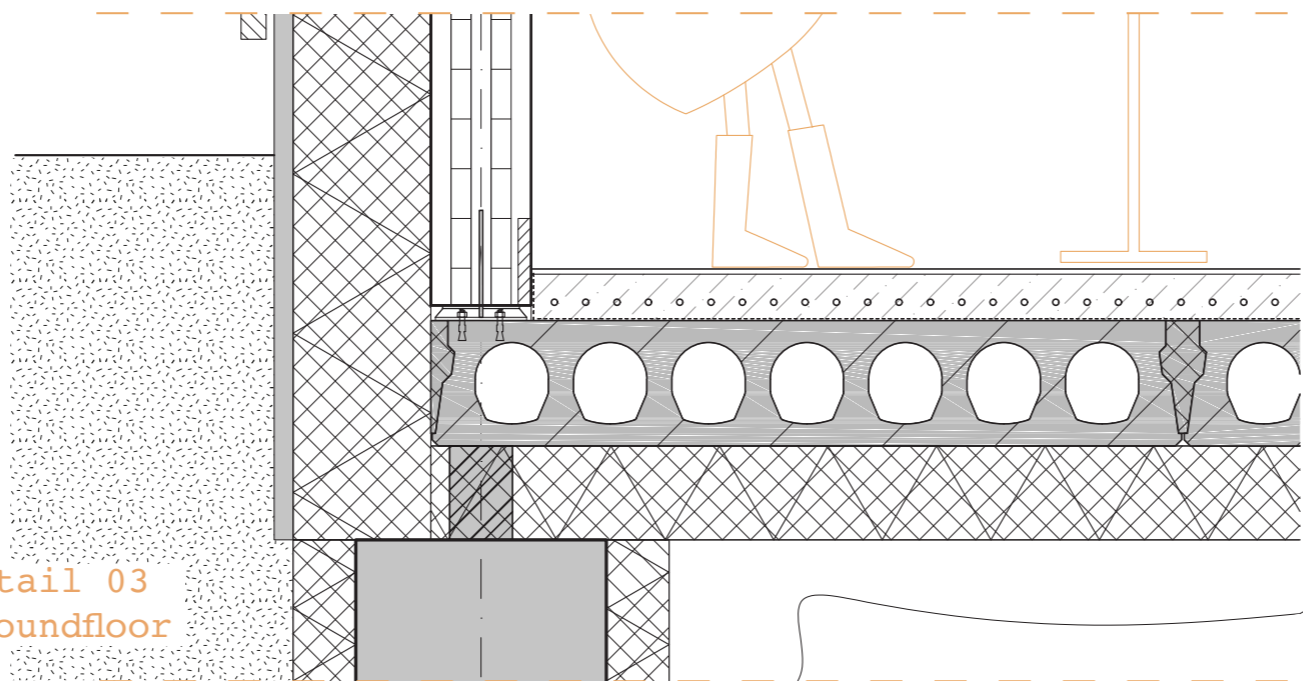
detail 01
roof

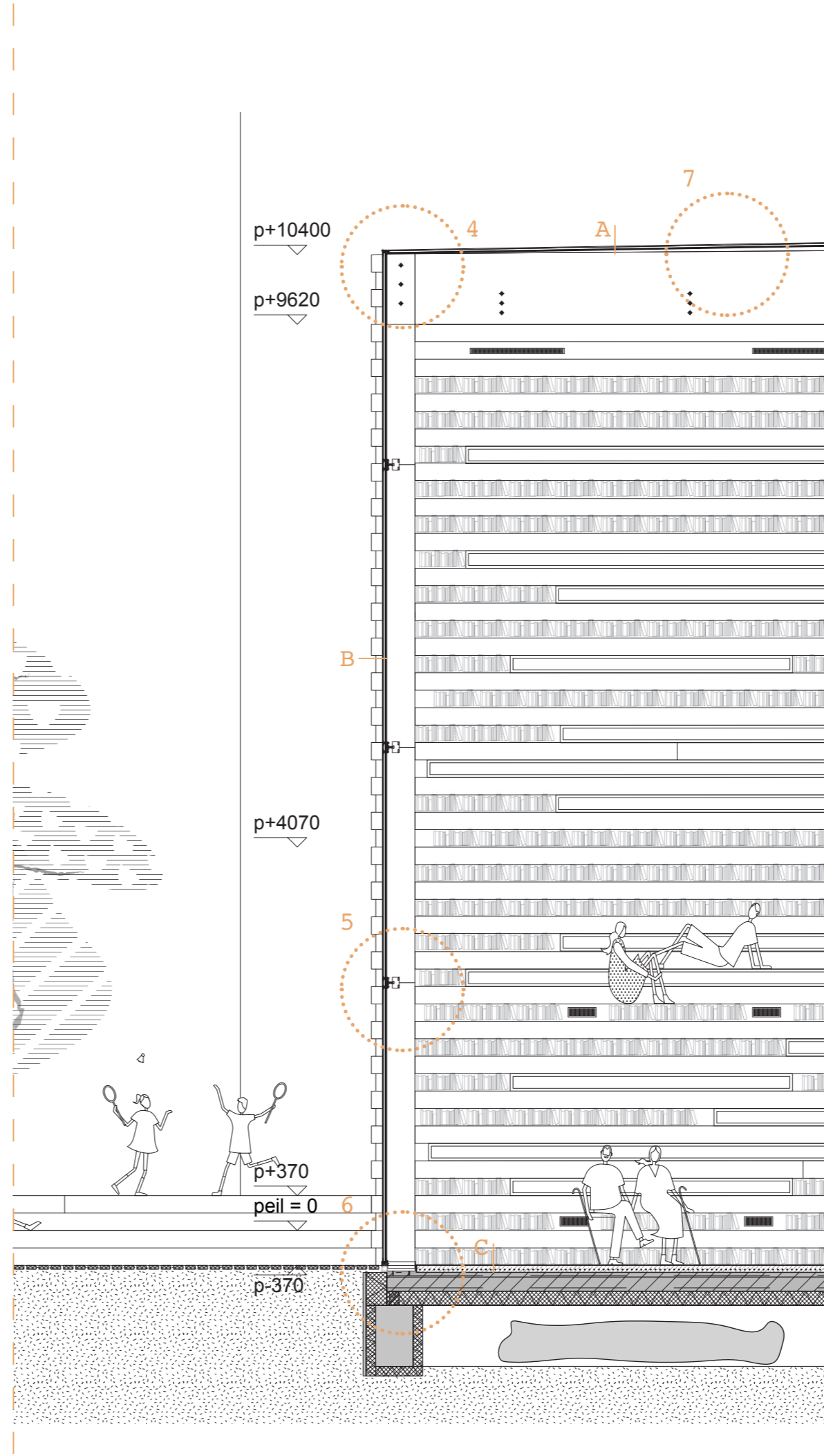


detail 02
facade



detail 03
groundfloor



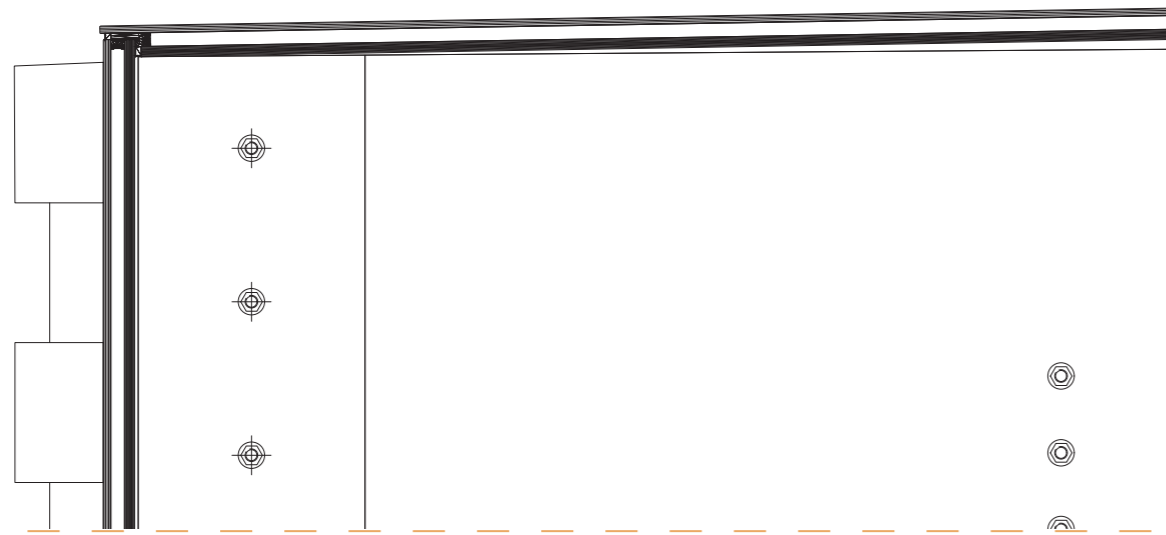


A- ROOF
 Jumbo insulated tempered glass panel, 2500x6000mm;
 structural silicone;
 aluminium frame seal;
 steel gutter;
 Titanium connector embedded;

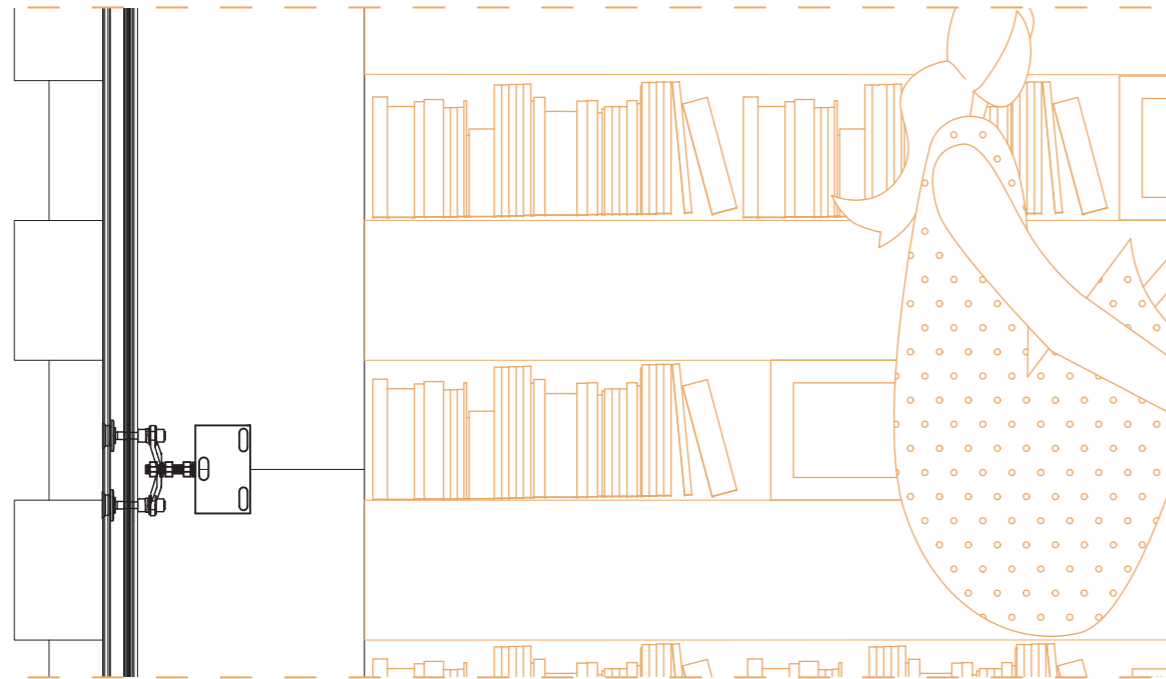
B- FACADE
 Jumbo insulated tempered glass panel, 2500x(max 10000)(max. dimension panel 3300x12000);
 Structural silicone;
 Spider fitting;
 Glass fin, 3x 12mm

C- GROUND FLOOR
 Glass fin , 3x 12mm;
 U-channel;
 Steel plate anchored;
 Levelling compound, 5mm;
 Heating screed, 74mm;
 Separating layer;
 Impact sound insulation, 30mm;
 Sealing;
 Precast core floor slab, 300mm;
 Styrock base plinth;
 Thermal insulation, 150mm;
 Justnimbus Rainwater system;

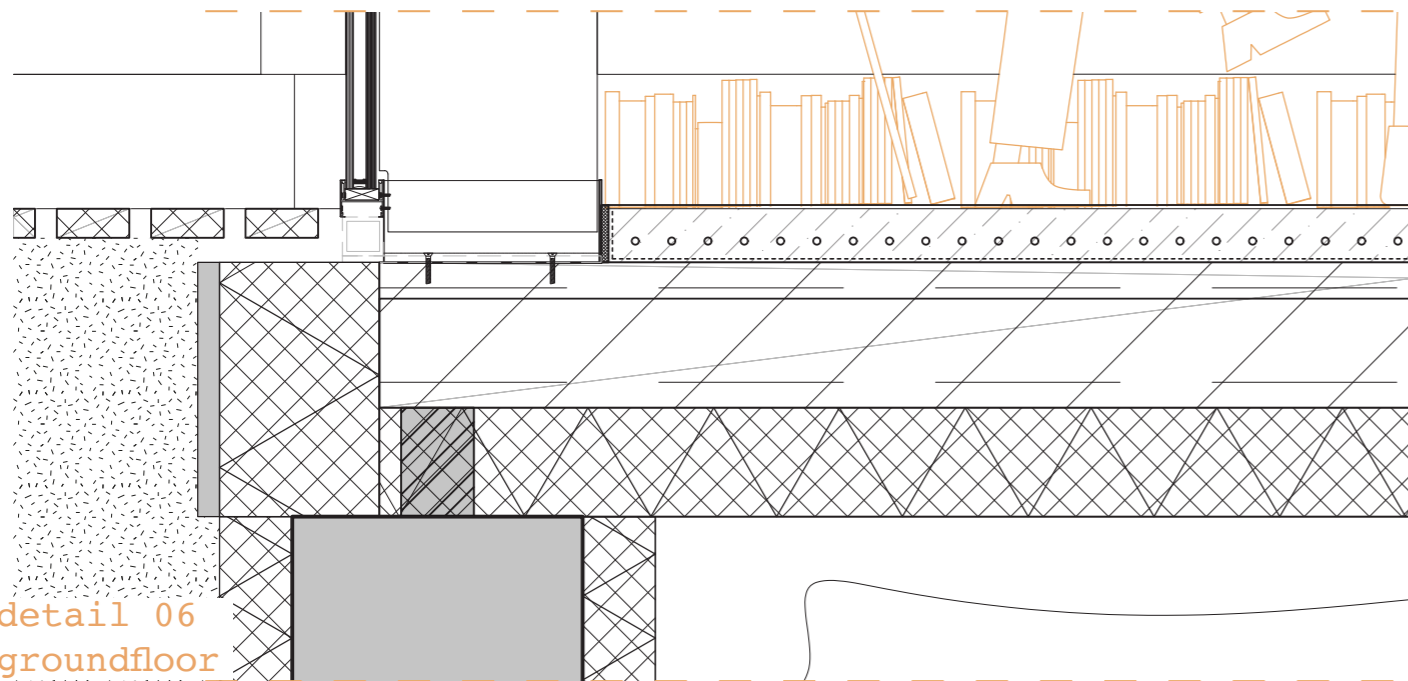
detail 04
roof



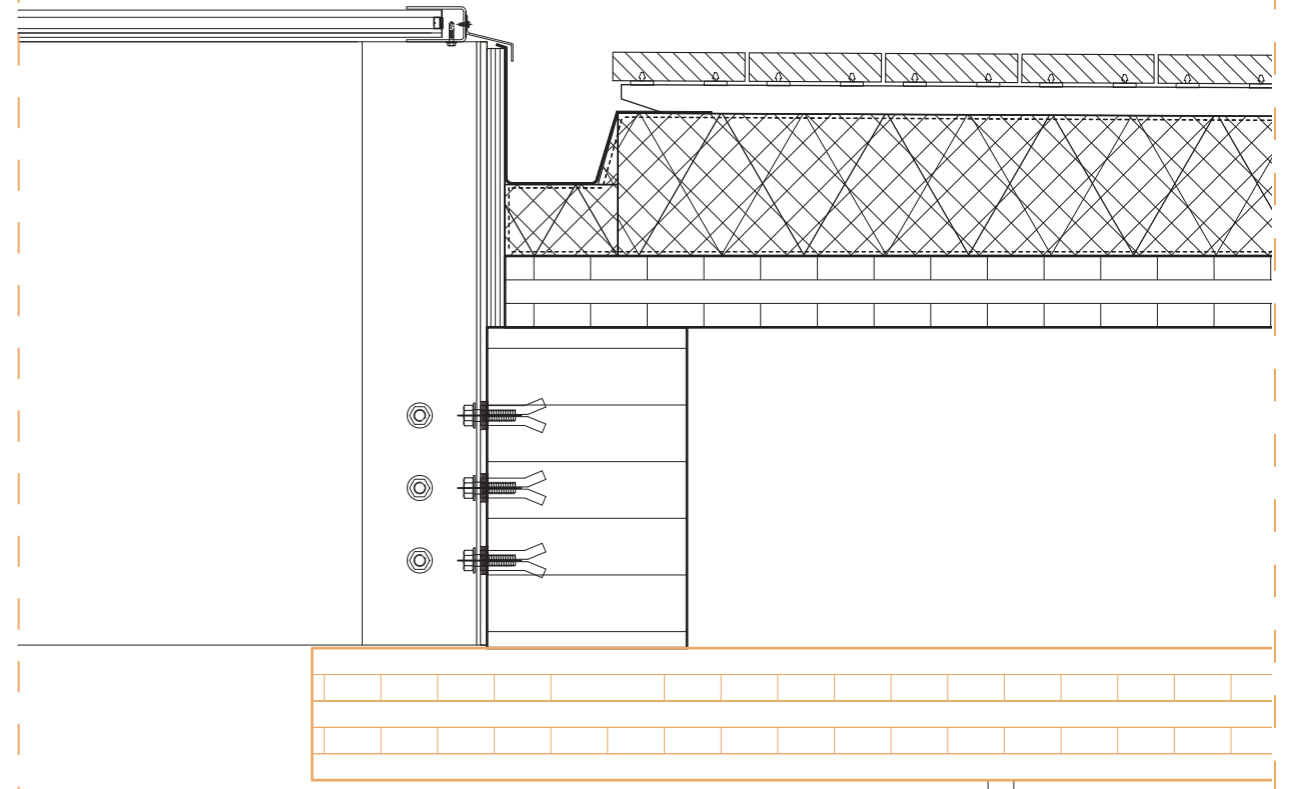
detail 05
facade



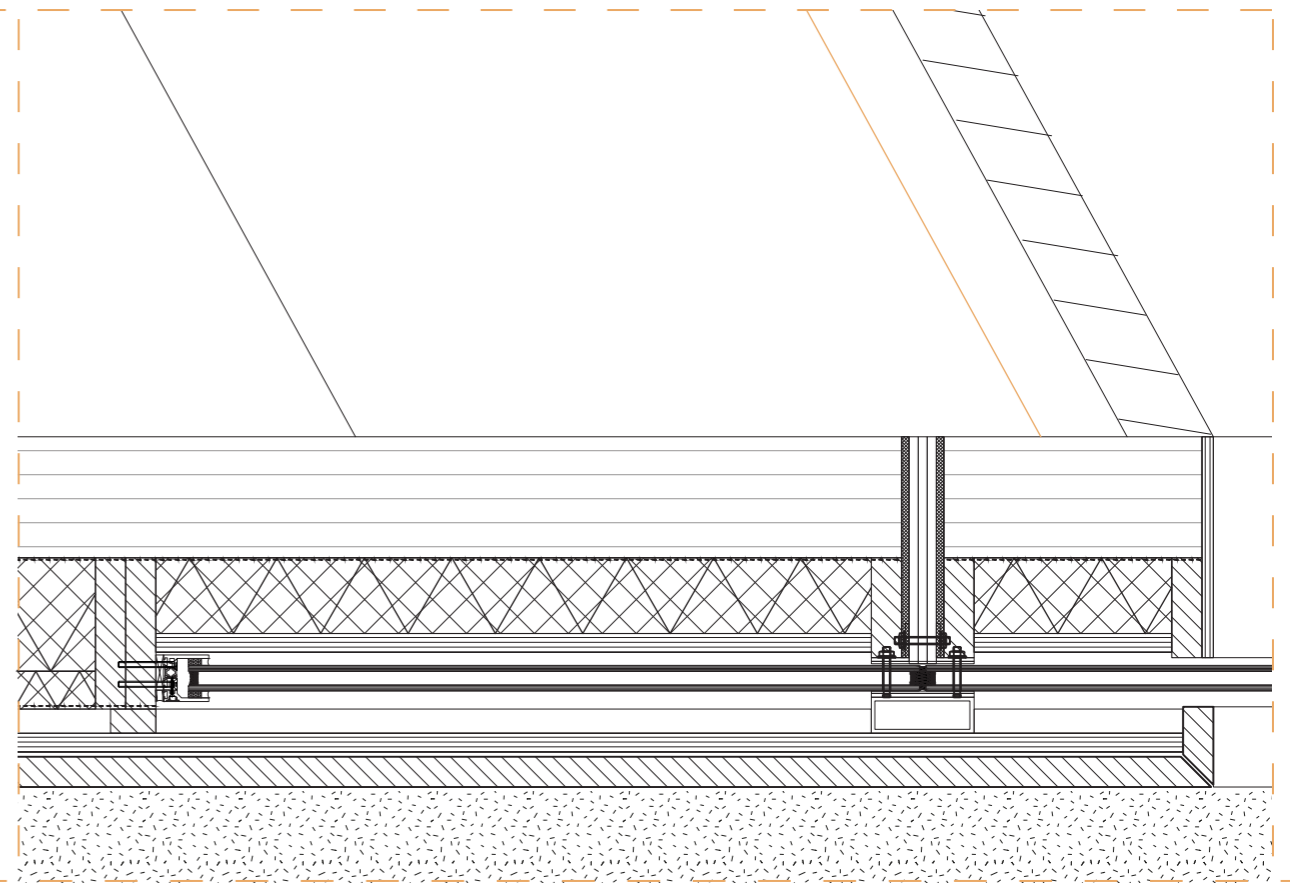
detail 06
groundfloor

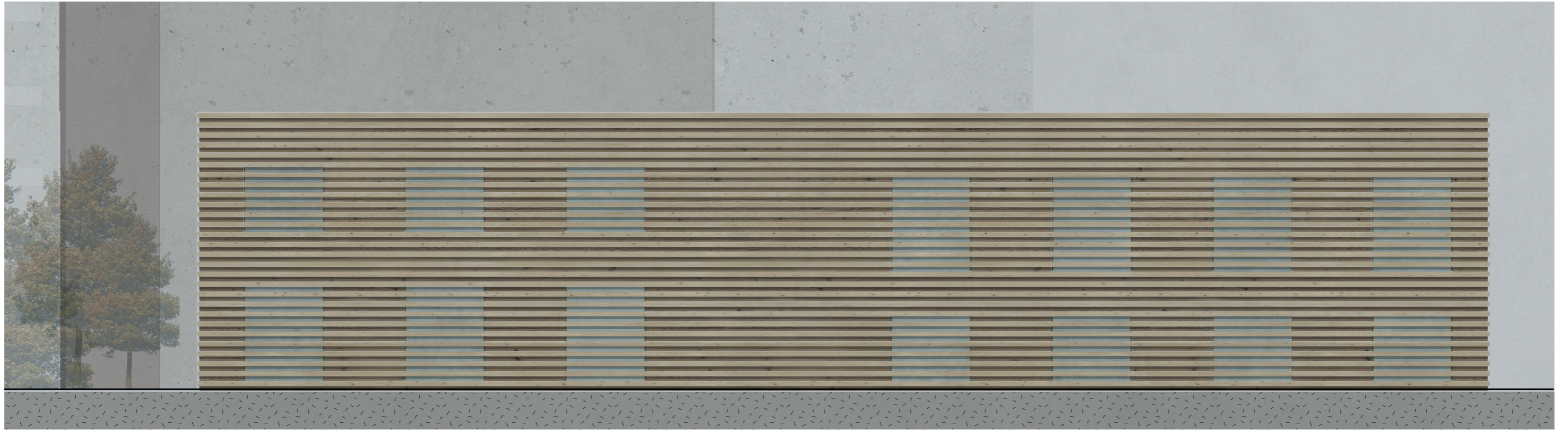


detail 07
roof

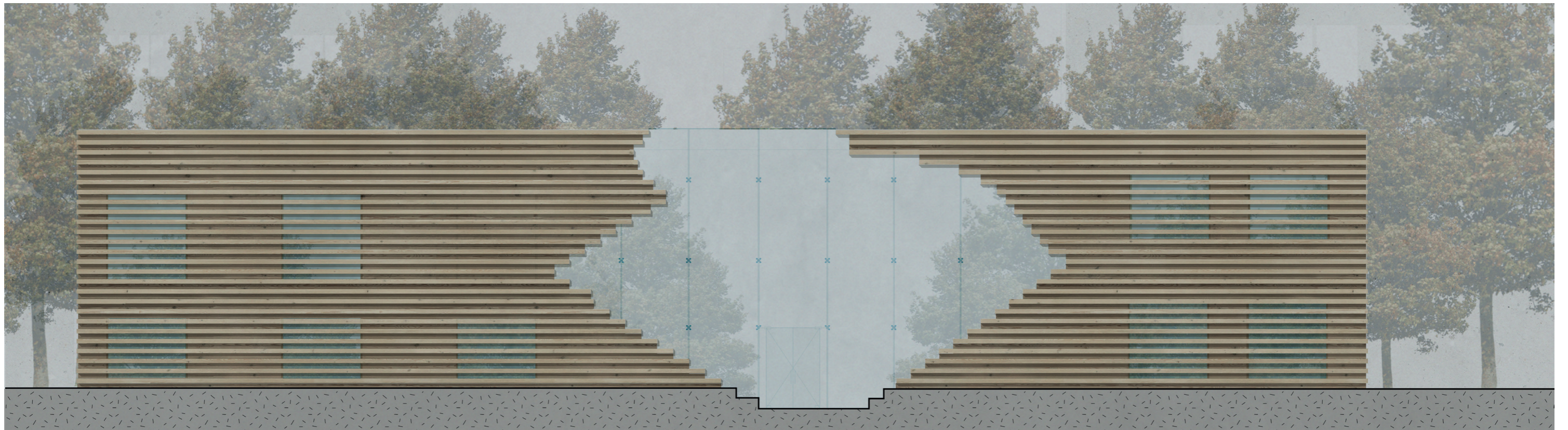


detail 08
facade
(horizontal)

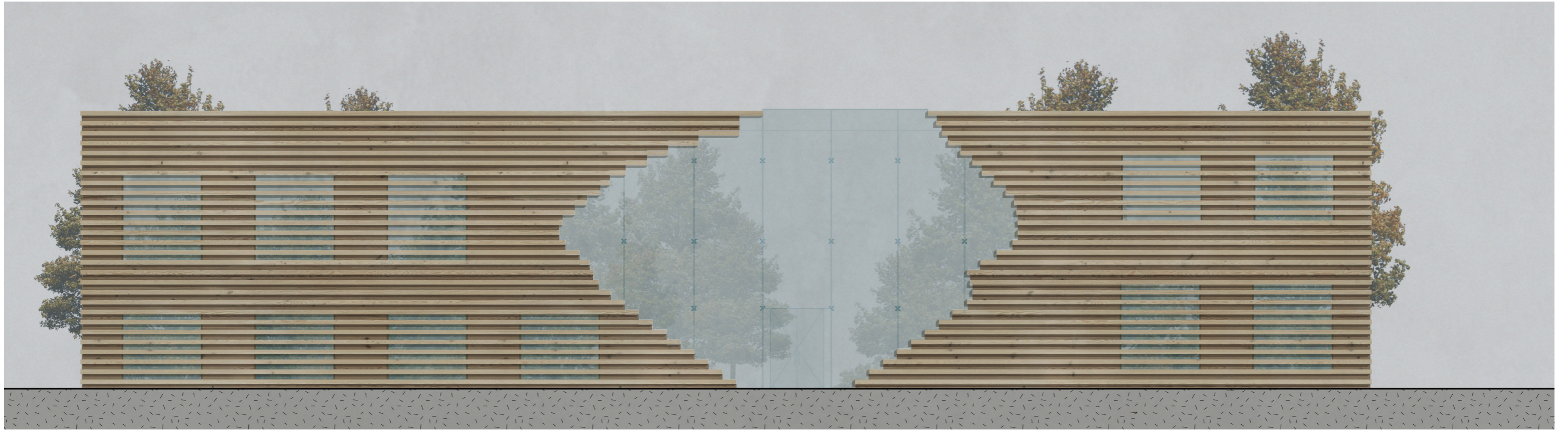




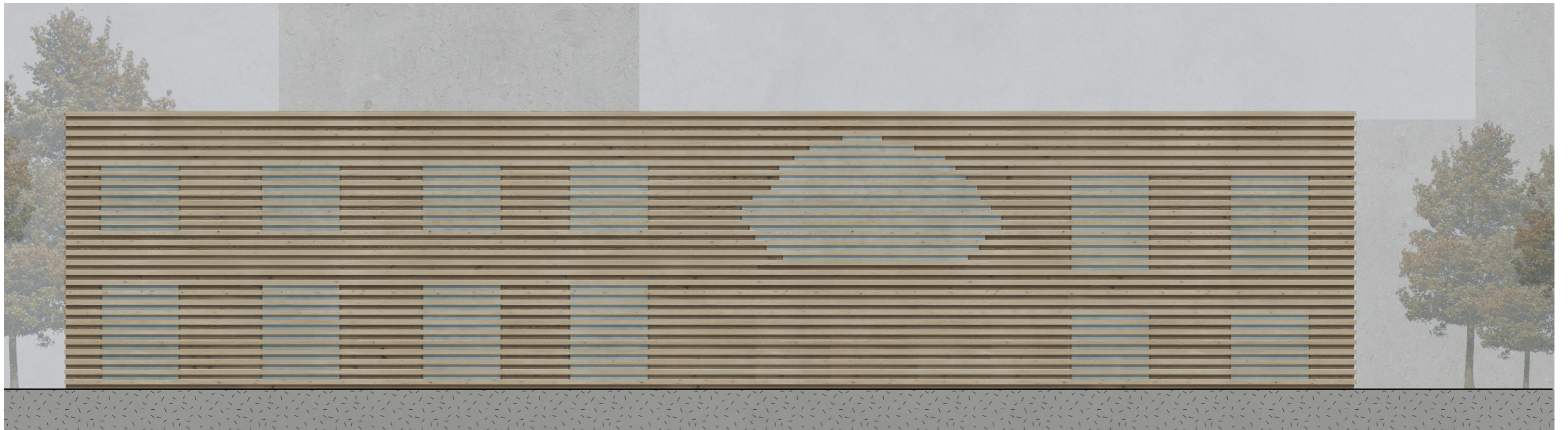
North Elevation



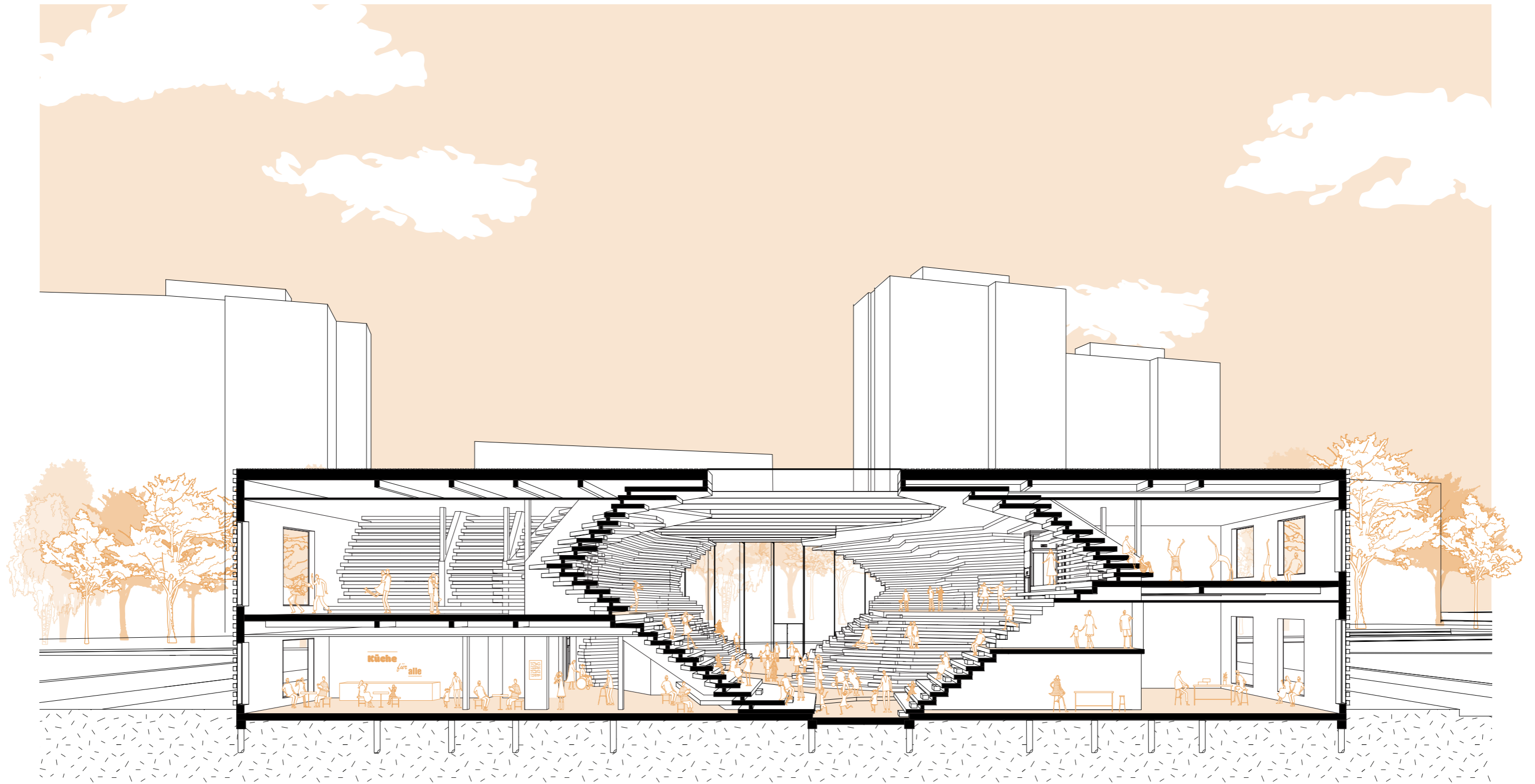
East Elevation

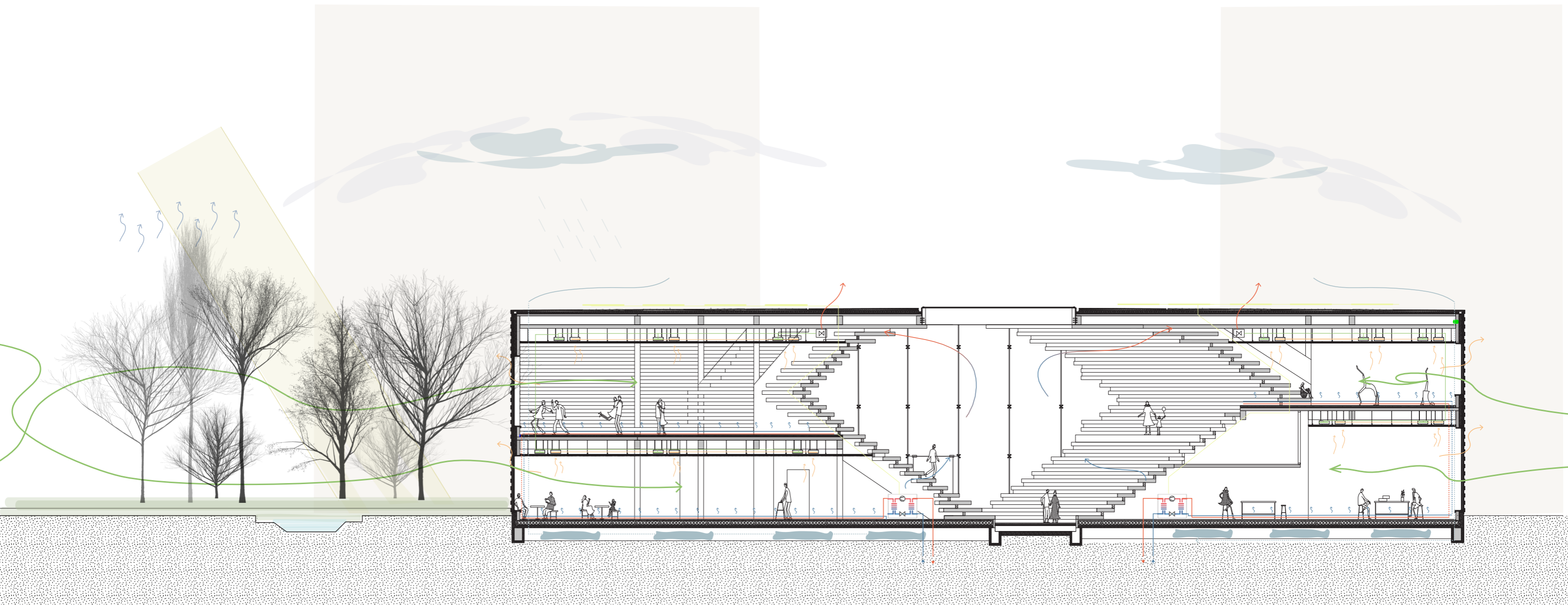


West Elevation

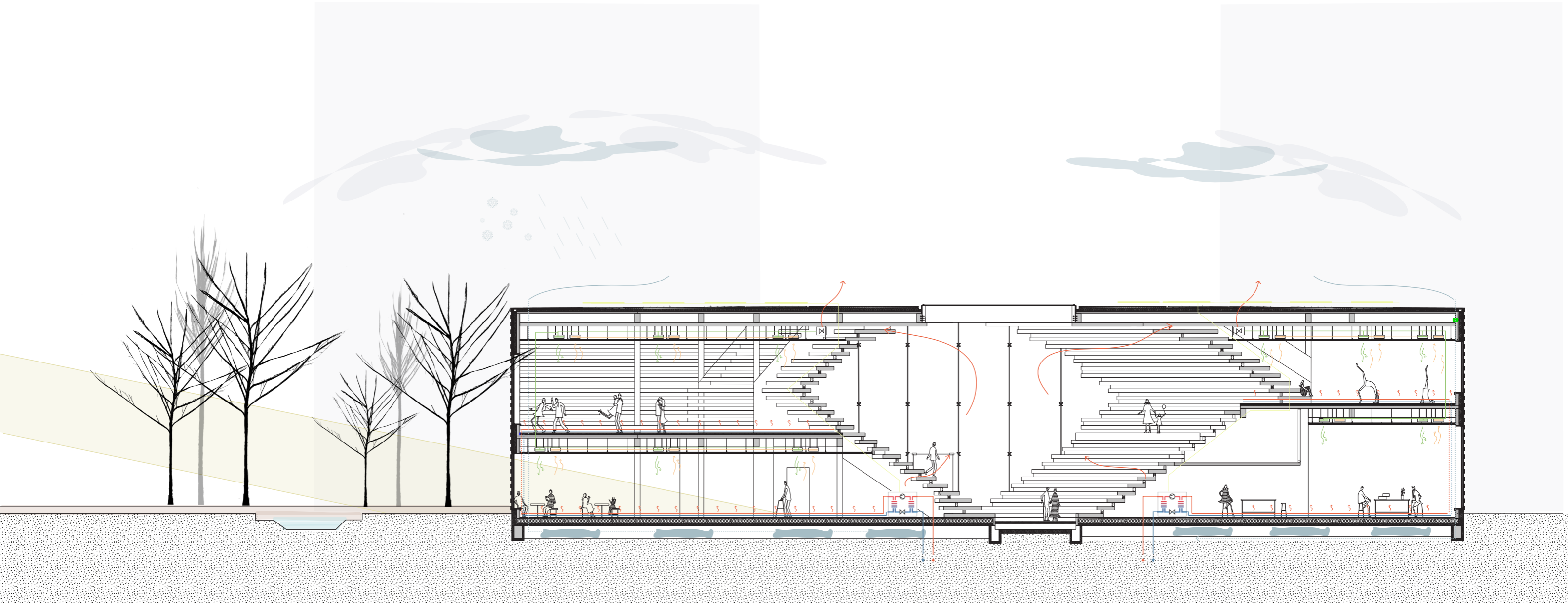


South Elevation

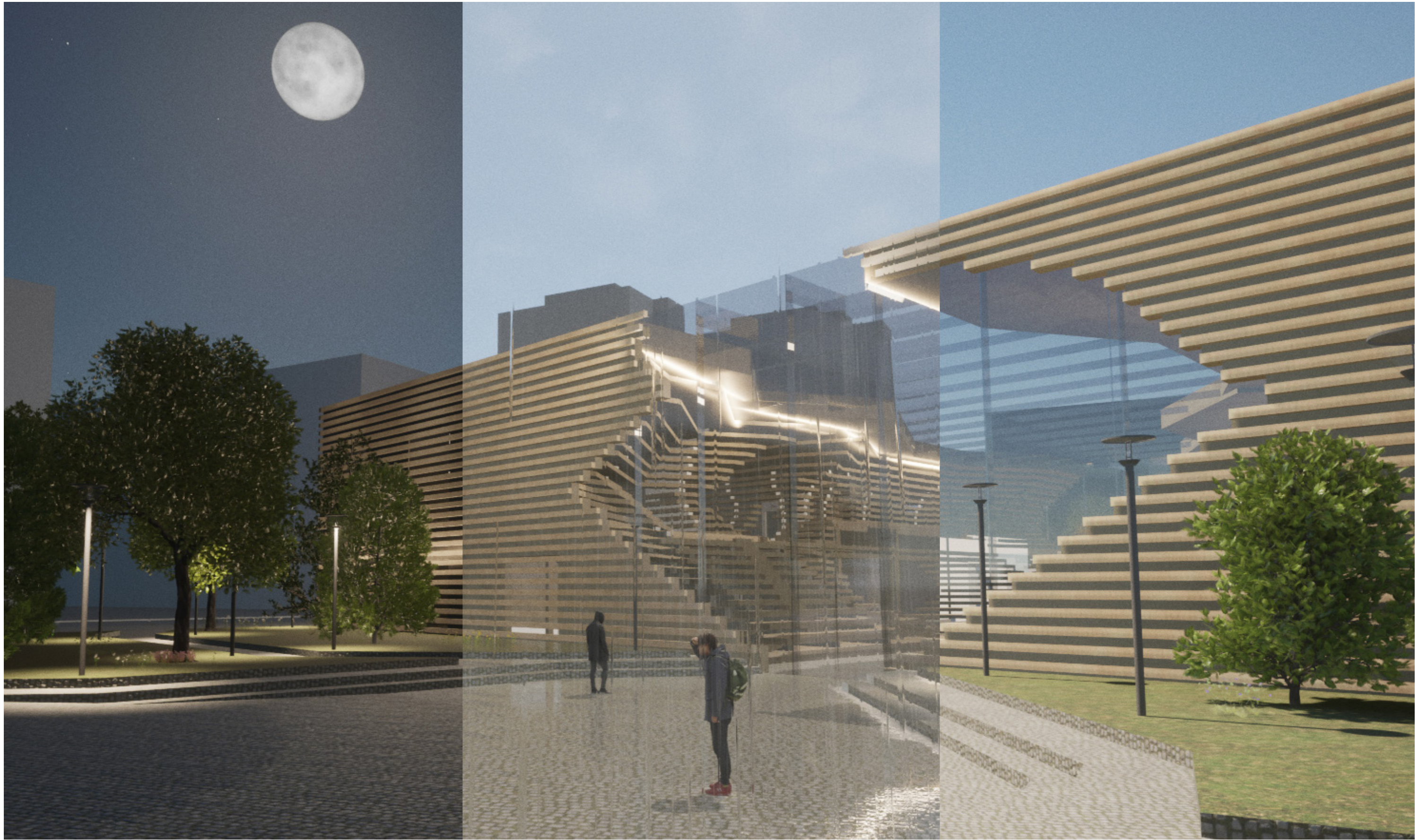




climate section summer



climate section winter



THANK YOU