



AR3AP100 | Public Building  
THE NEW MUSEUM: Re-wiring the Art + City

Graduation Report

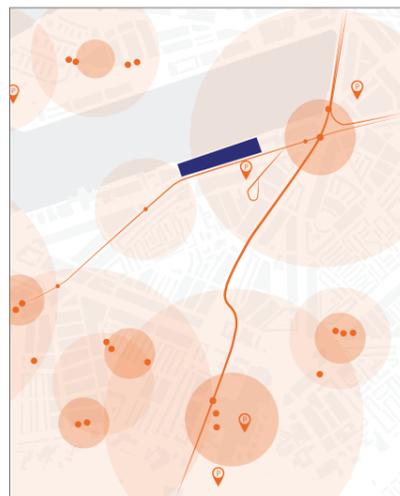
Başak Günalp  
5091888

Assessors:  
Paul Kuitenbrouwer  
Sjap Holst  
Sang Lee  
Marjolein Spaans

**final design**



Transportation Connection - all layers



Radius of transportation performance



### Mobility & Inclusivity of Rotterdam South - Tarwewijk



Outsider



Young Local



Local kid



Elderly Local

Outsider

Young Local

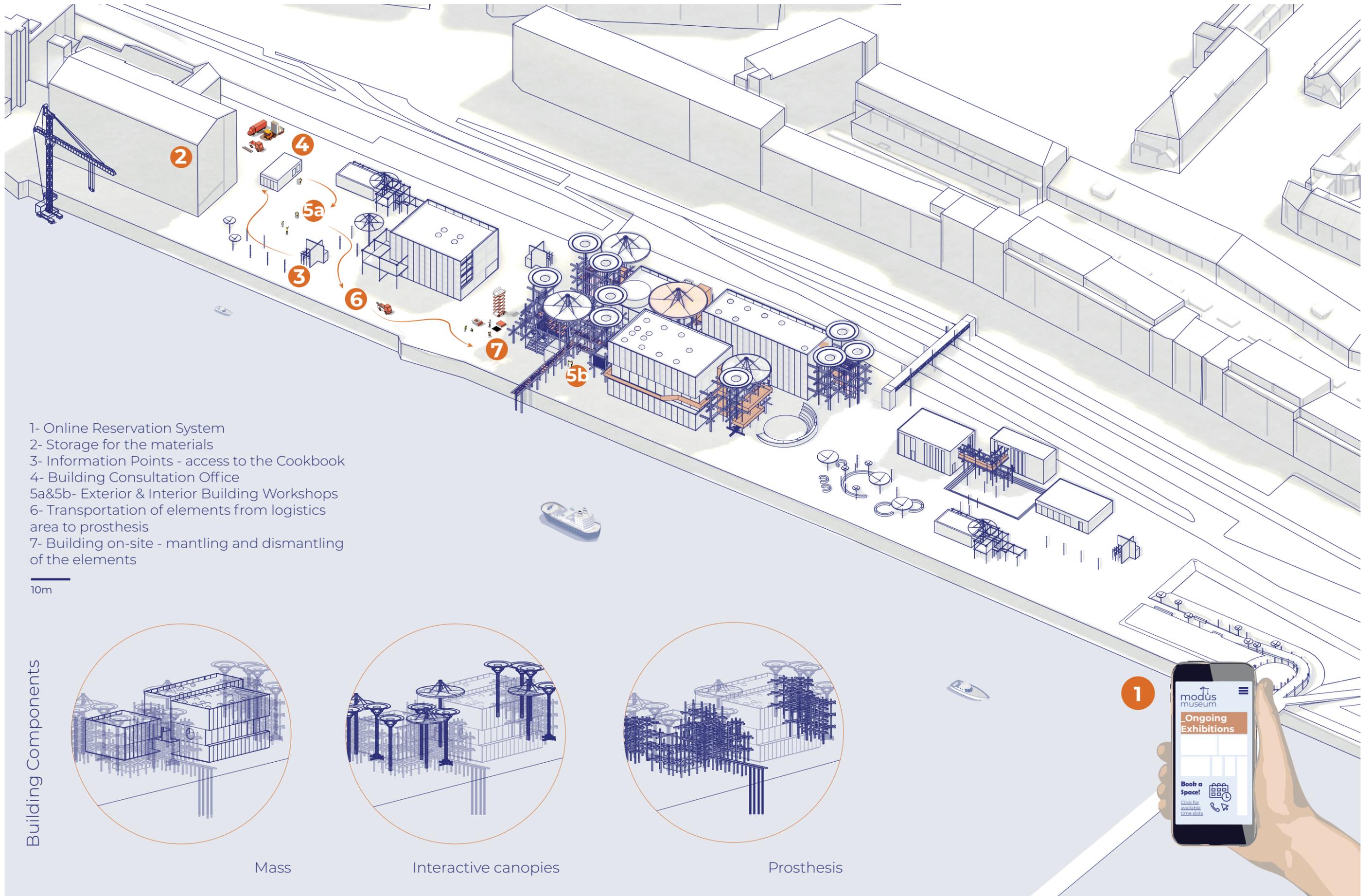


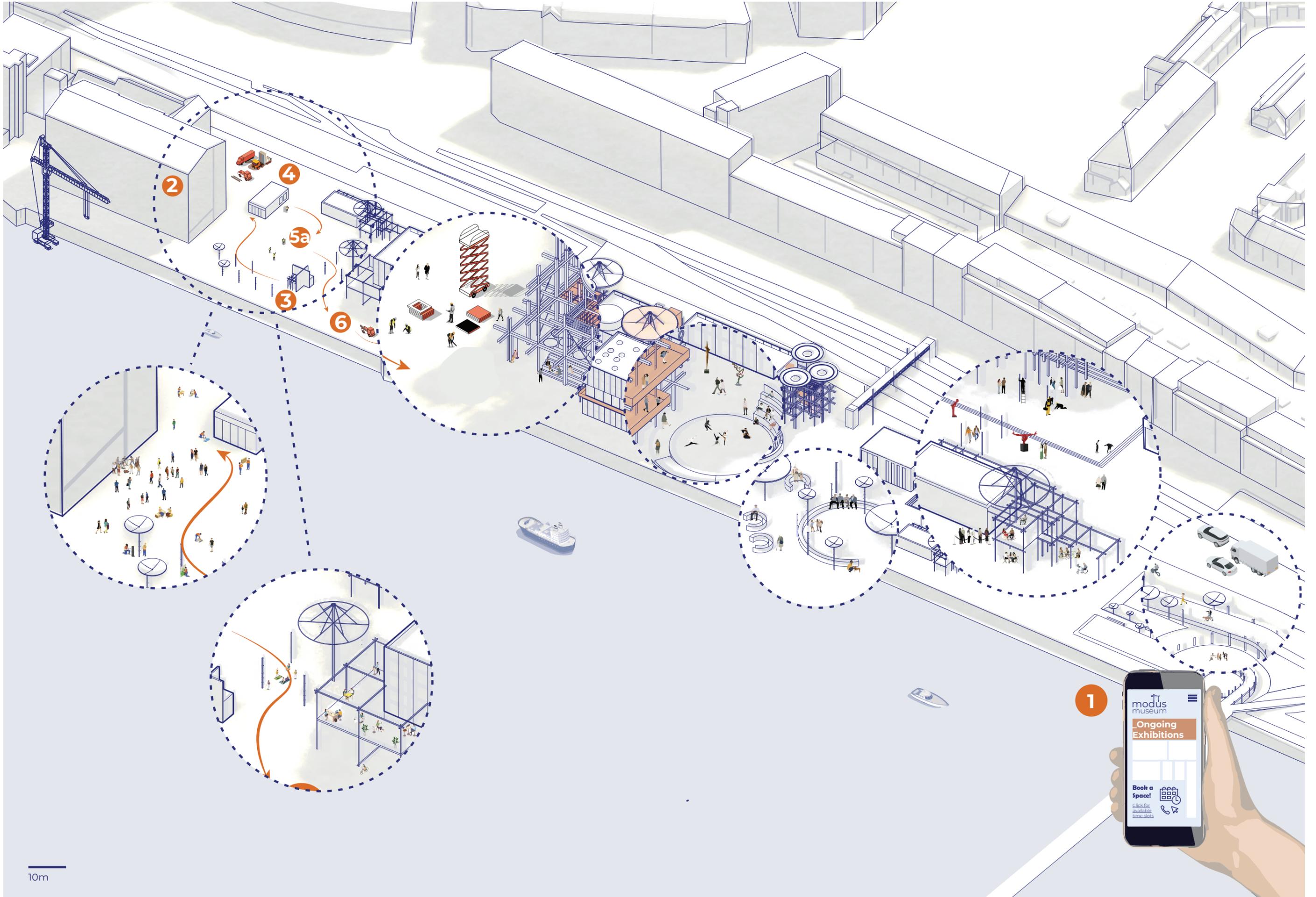
Local kid

Elderly Local

### Psychogeography Maps - Different User Profiles

### User Guide - How to read the site as a visitor



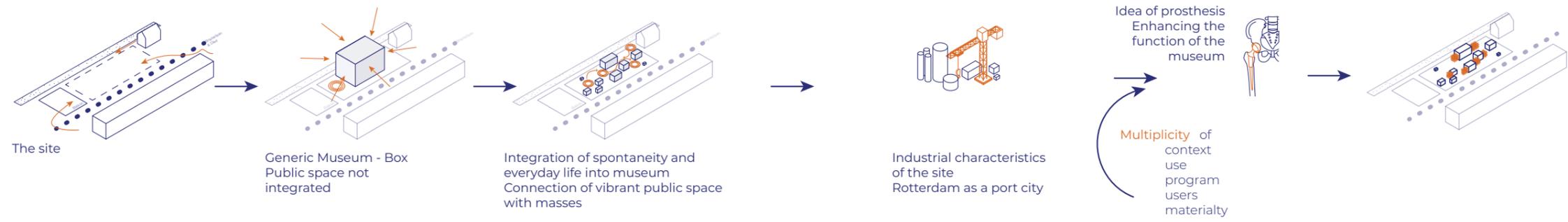


10m

1



# Concept Diagram



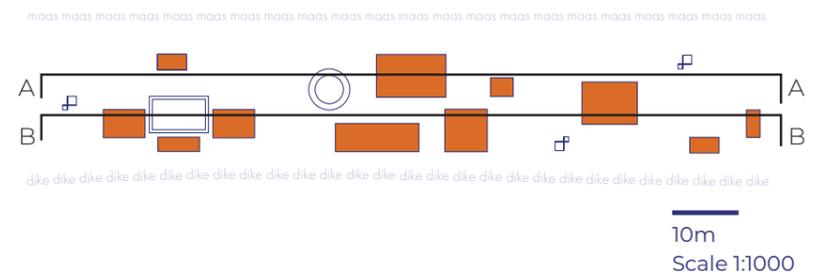


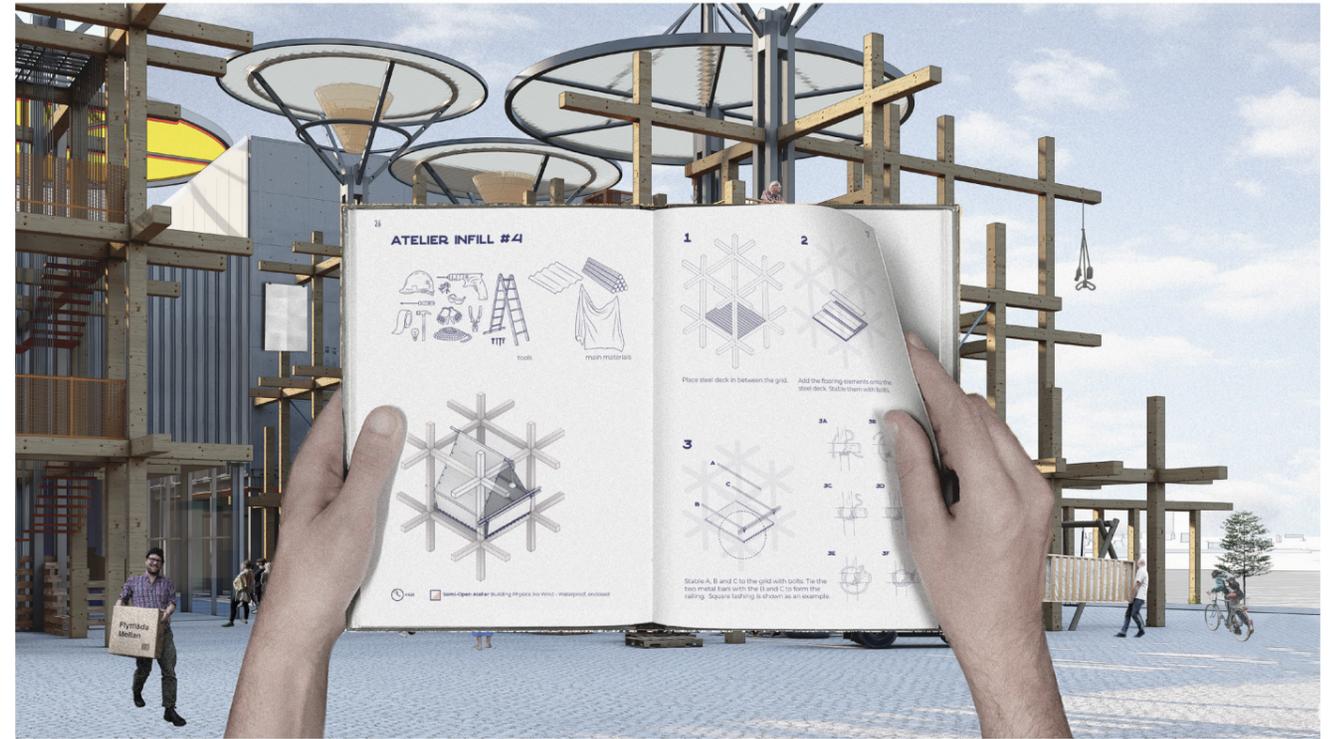


Section AA



Section BB





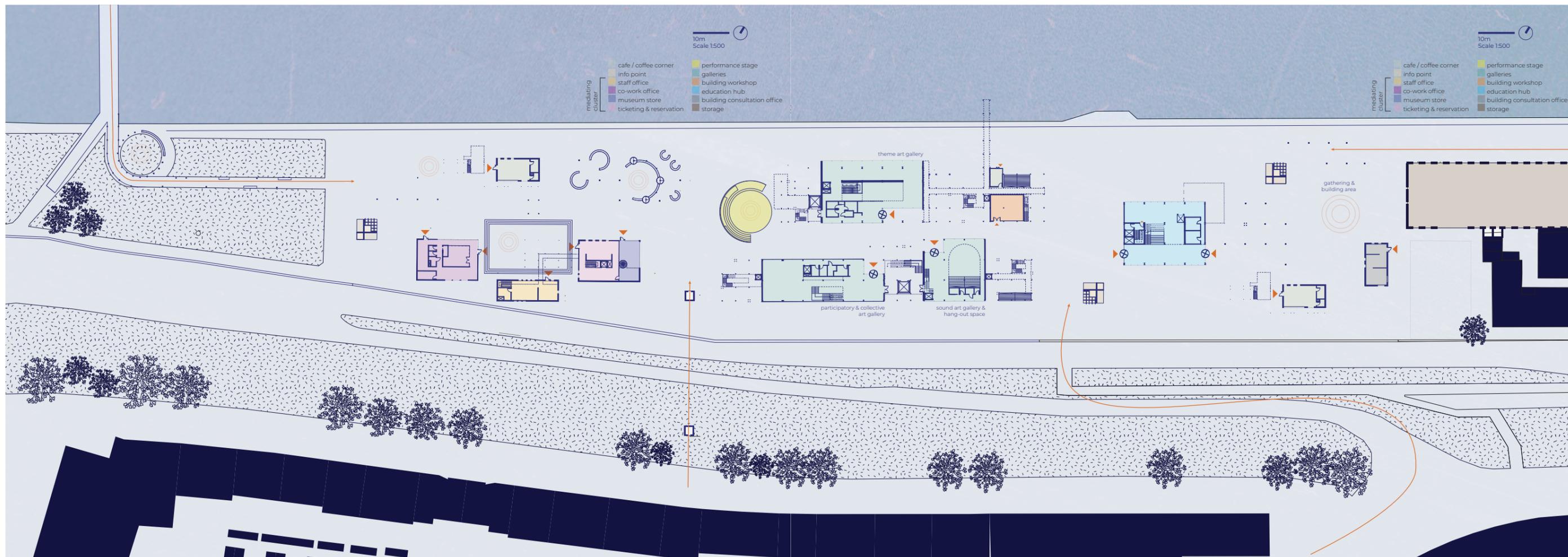
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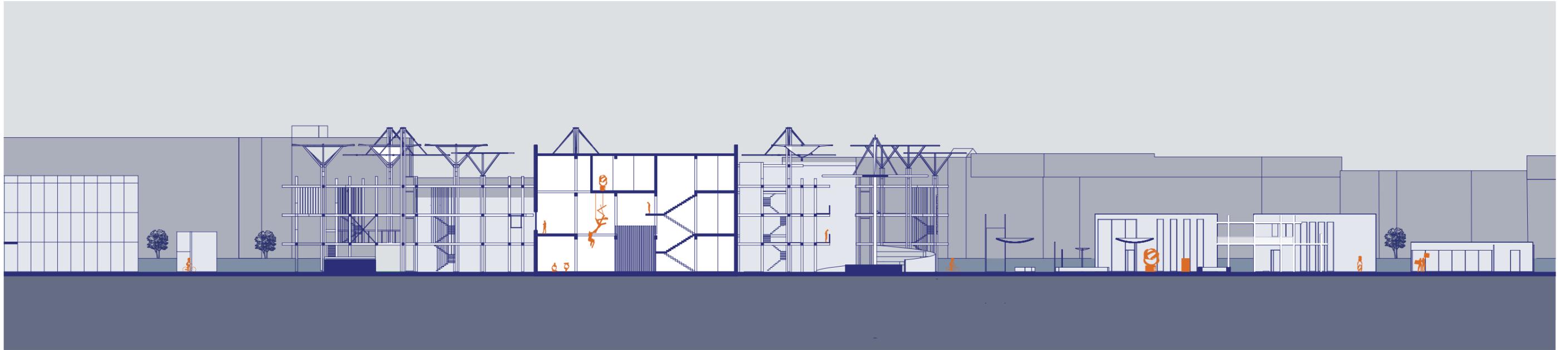


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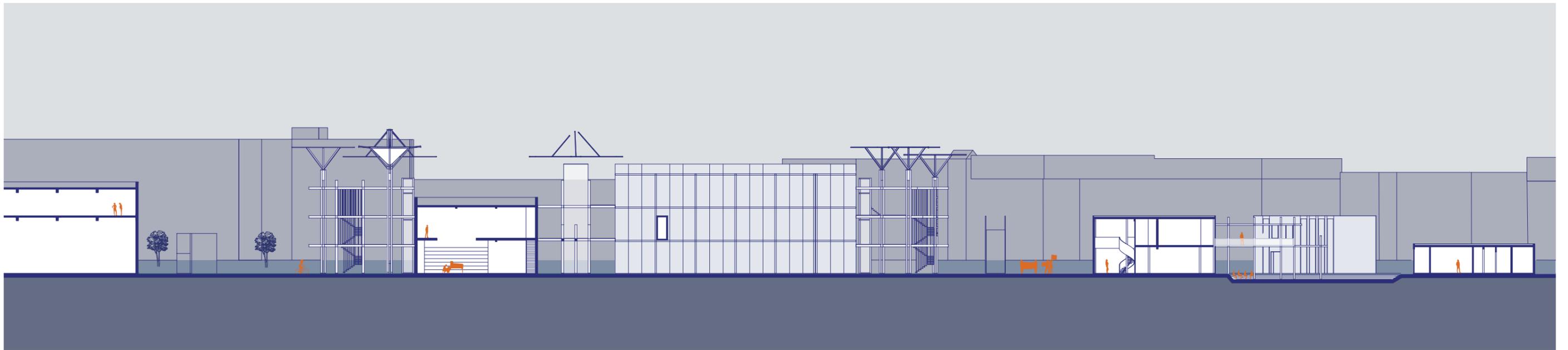


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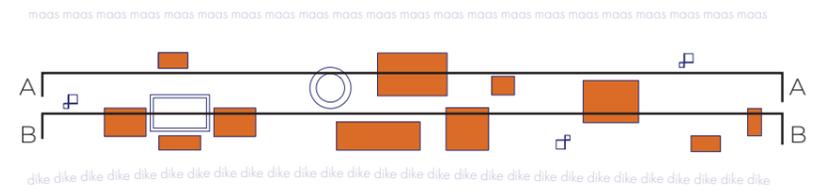




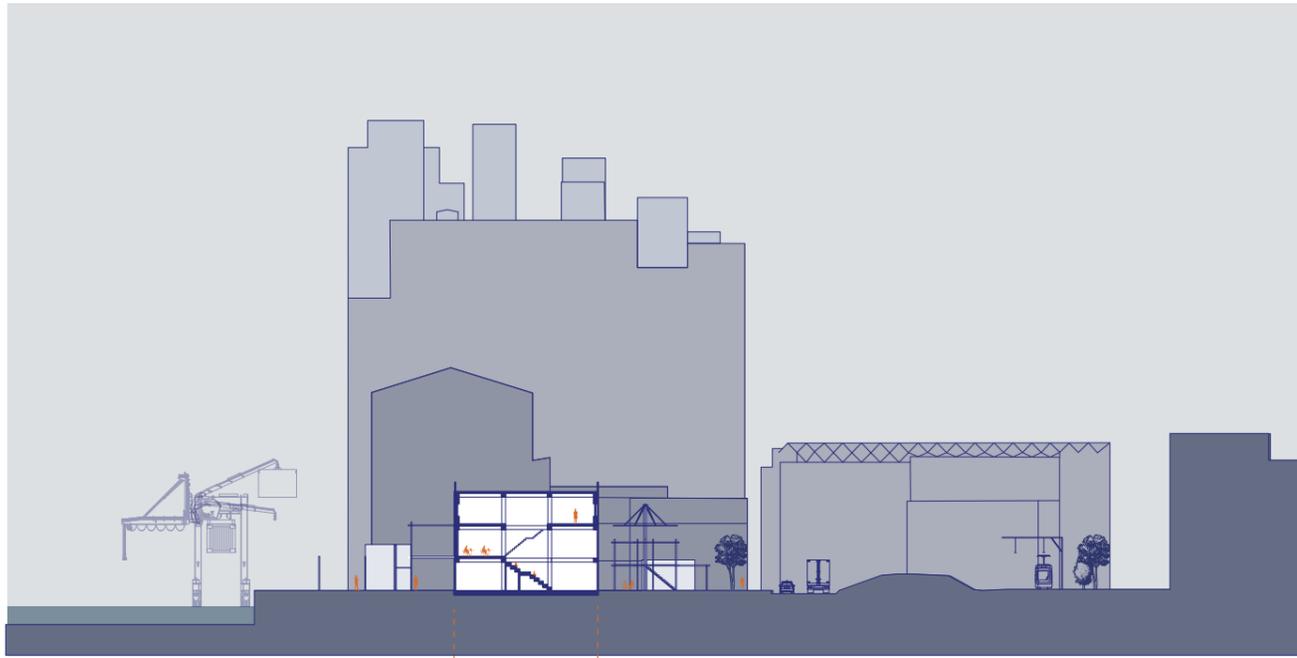
Section AA



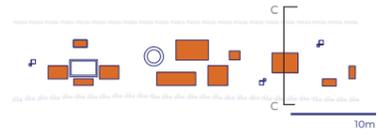
Section BB



10m  
Scale 1:500

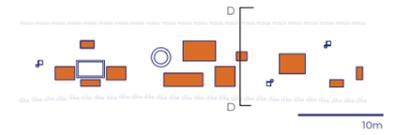


Education Hub



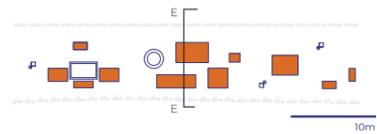
Cafe Building Workshop

Building Space



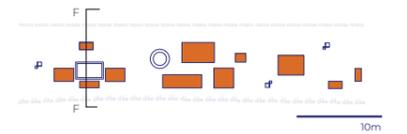
Theme Art Gallery

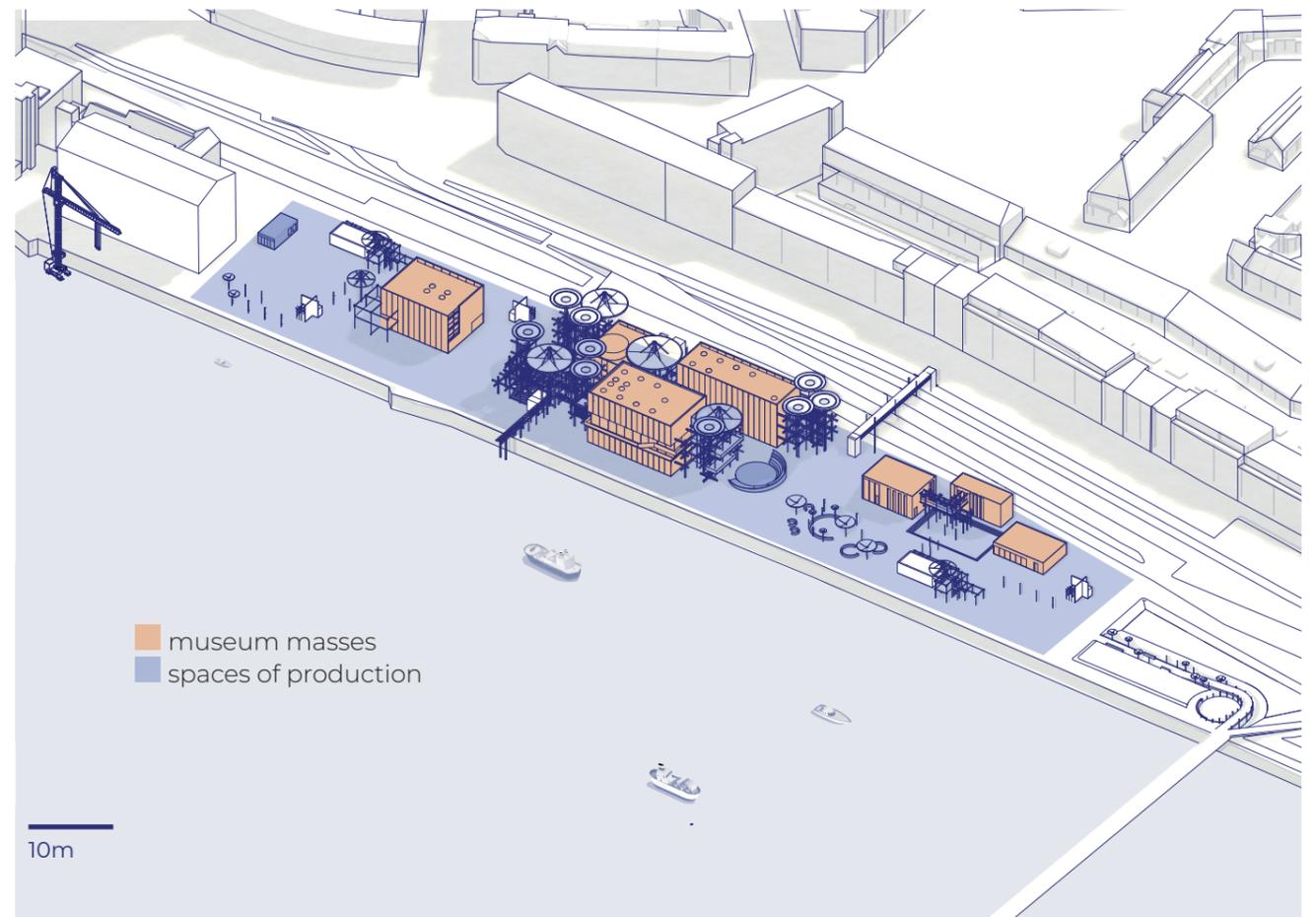
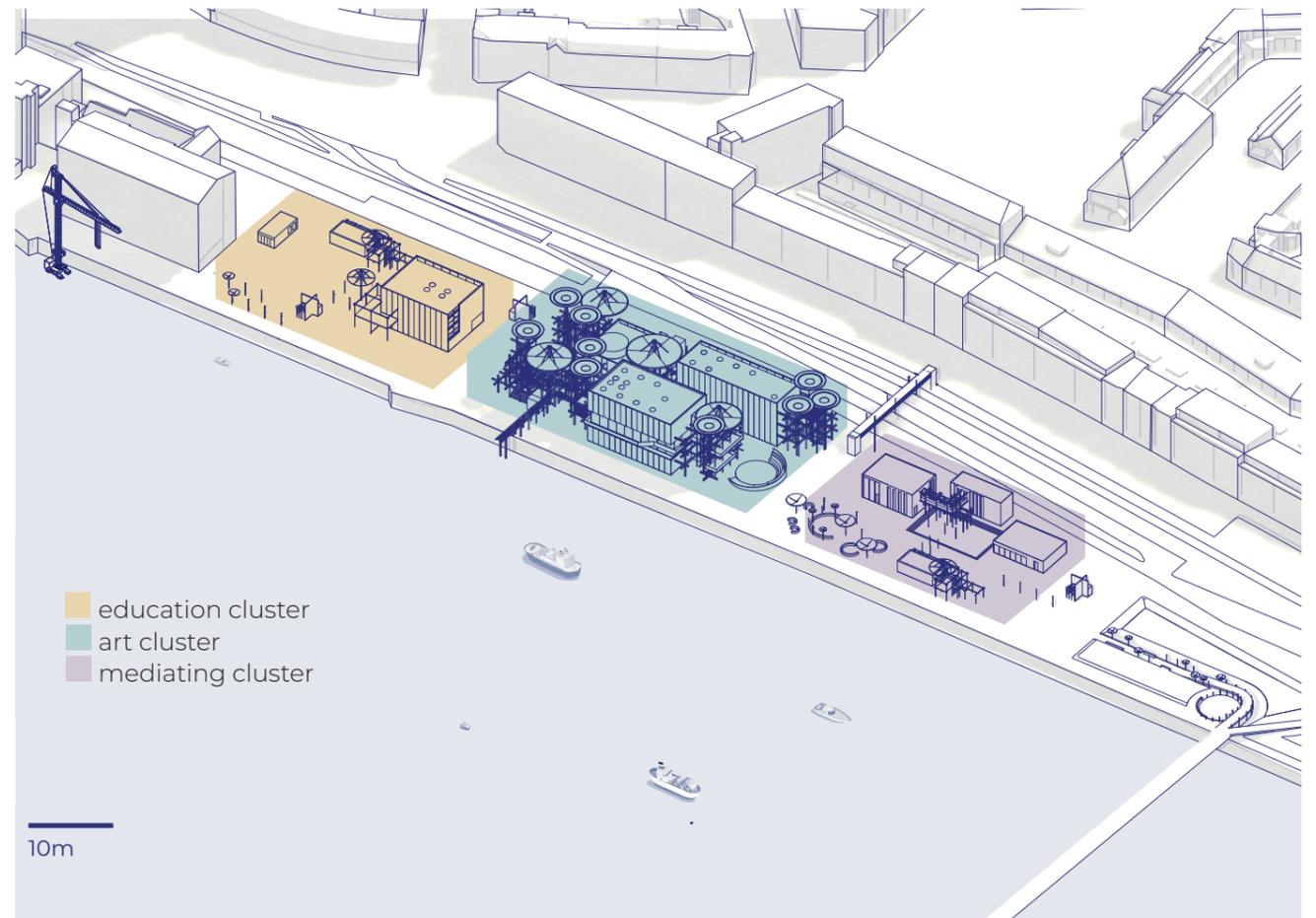
Participatory & Collective Art Gallery



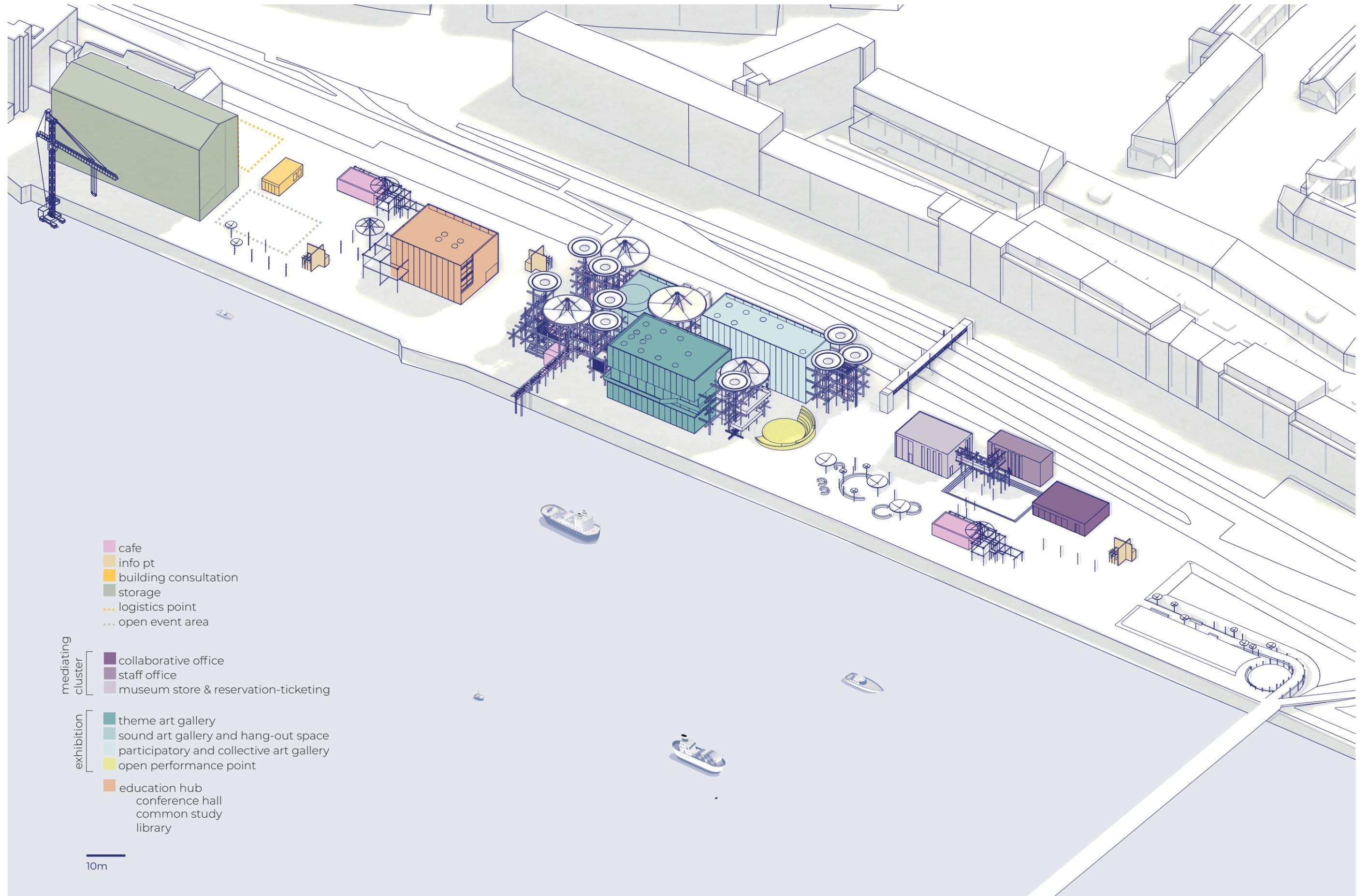
Cafe Exterior Art Route Sunken Plaza Staff Office

Mediating Cluster



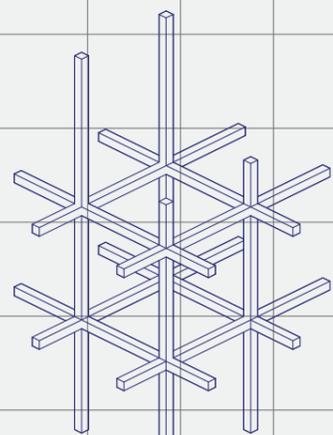


# Program

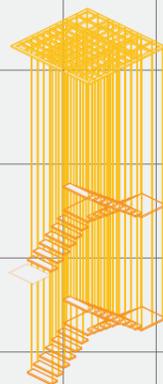


Formal Structures

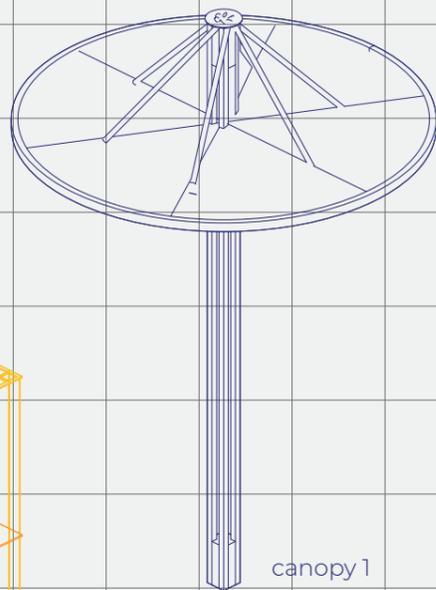
Informal Structures



partial prosthesis



stairs

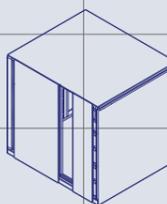
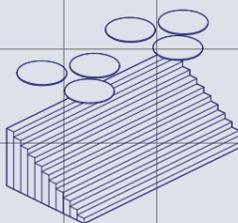


canopy 1

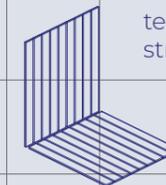
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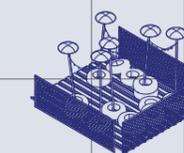
interactive stairs



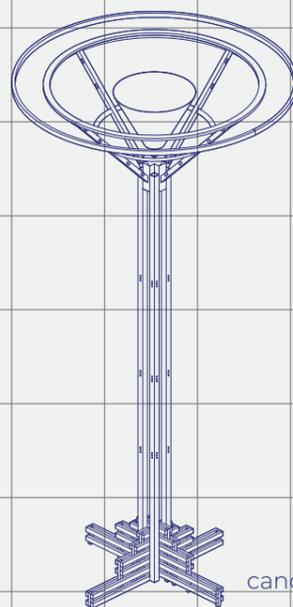
atelier type



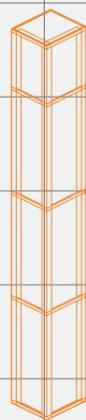
terrace structure



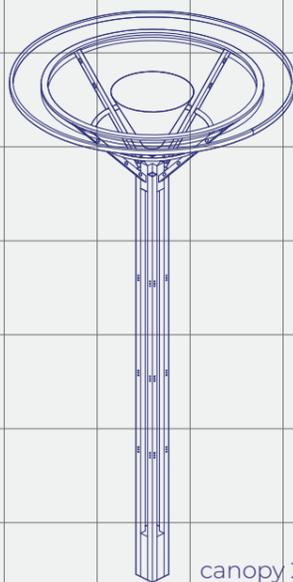
atelier type



canopy 2 with seating



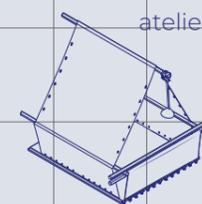
vertical circulation



canopy 2



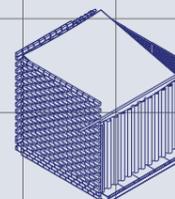
hoisting beam & "touw en blok"



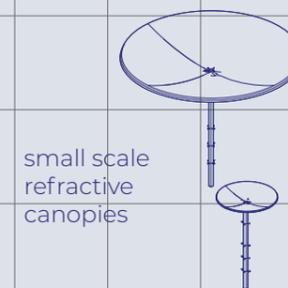
atelier type



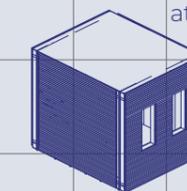
exterior exhibition frame



atelier type



small scale refractive canopies



atelier type

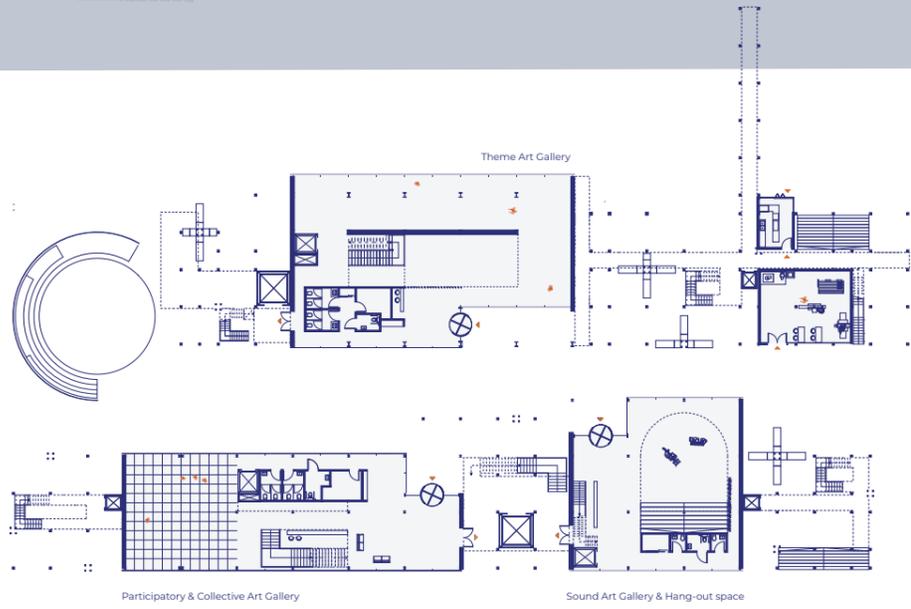
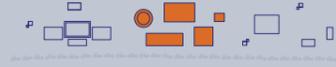


10m



*Theme Art Gallery – Interior*

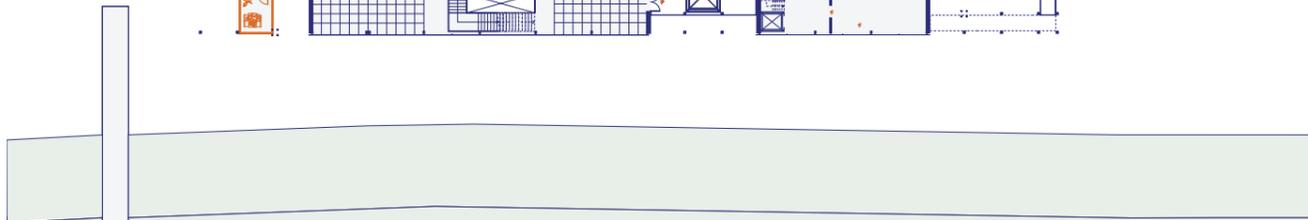
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Scale 1:300  
Ground Floor Plan



Participatory & Collective Art Gallery      Theme Art Gallery      Sound Art Gallery & Hang-out space



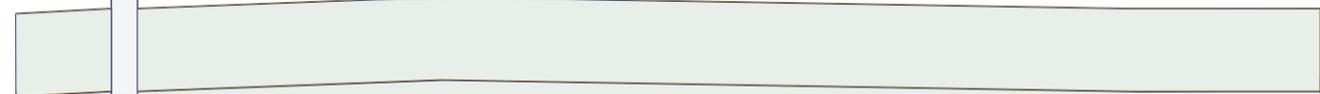
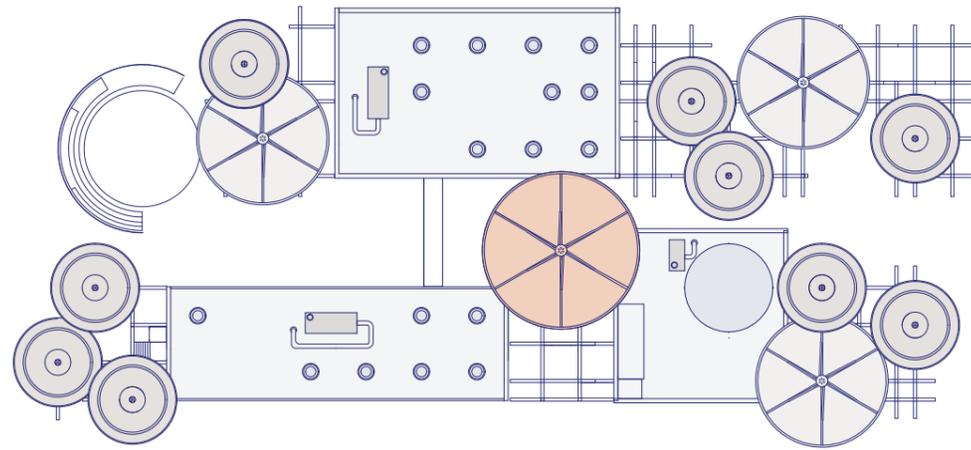
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First Floor Plan



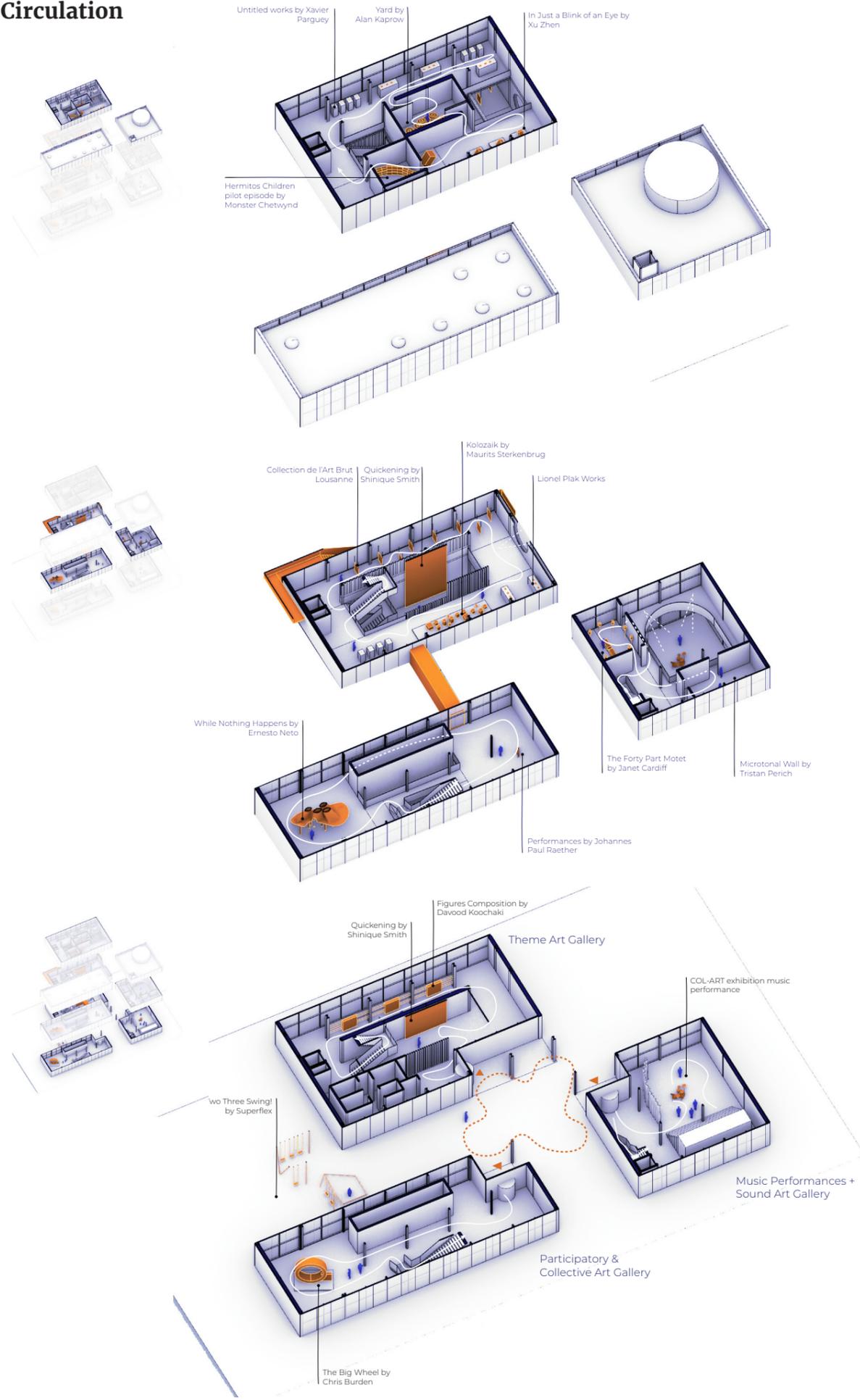
10m  
Scale 1:300  
Second Floor Plan



10m  
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Roof Plan

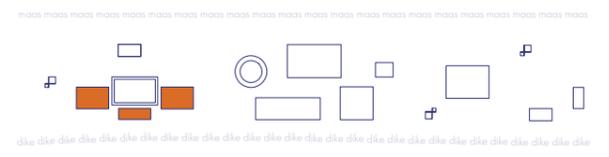


# Circulation



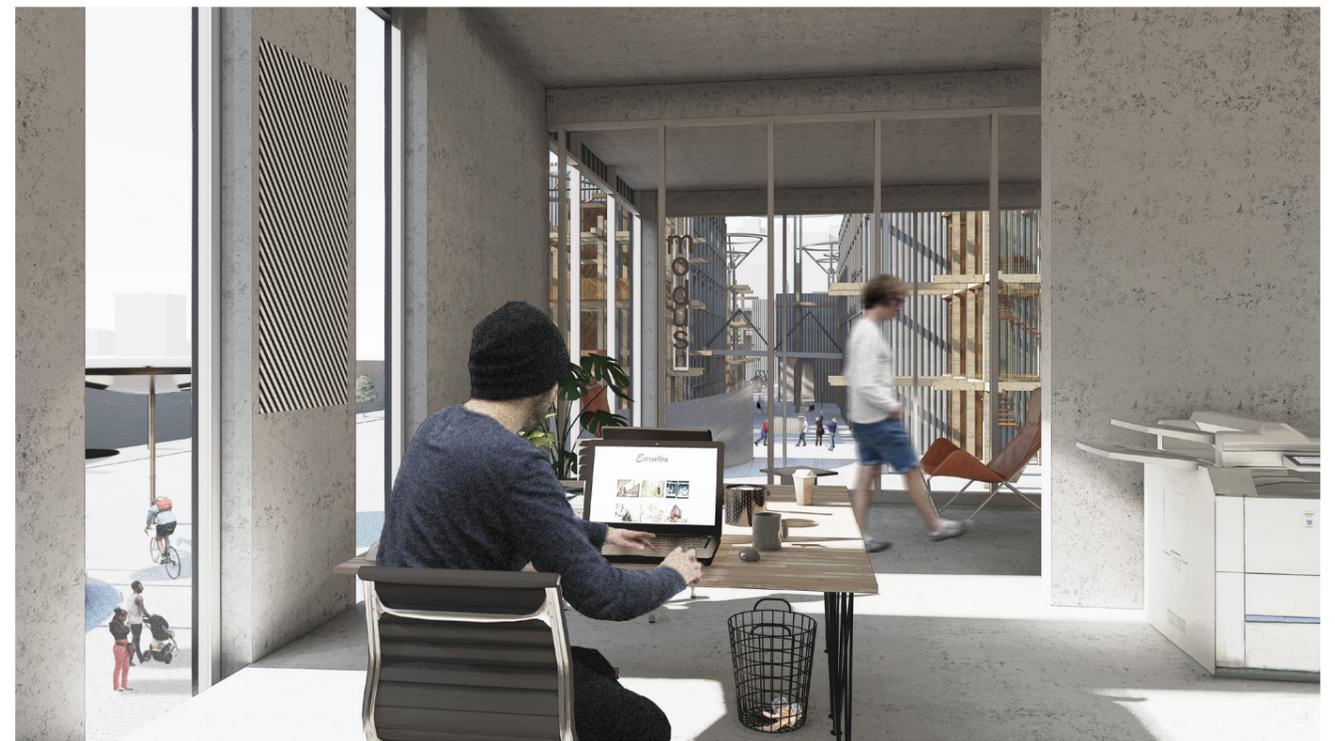
## Mediating Cluster

- meeting room
- co-work office
- staff office
- museum store
- ticketing & reservation
- head office
- entrance
- emergency exit





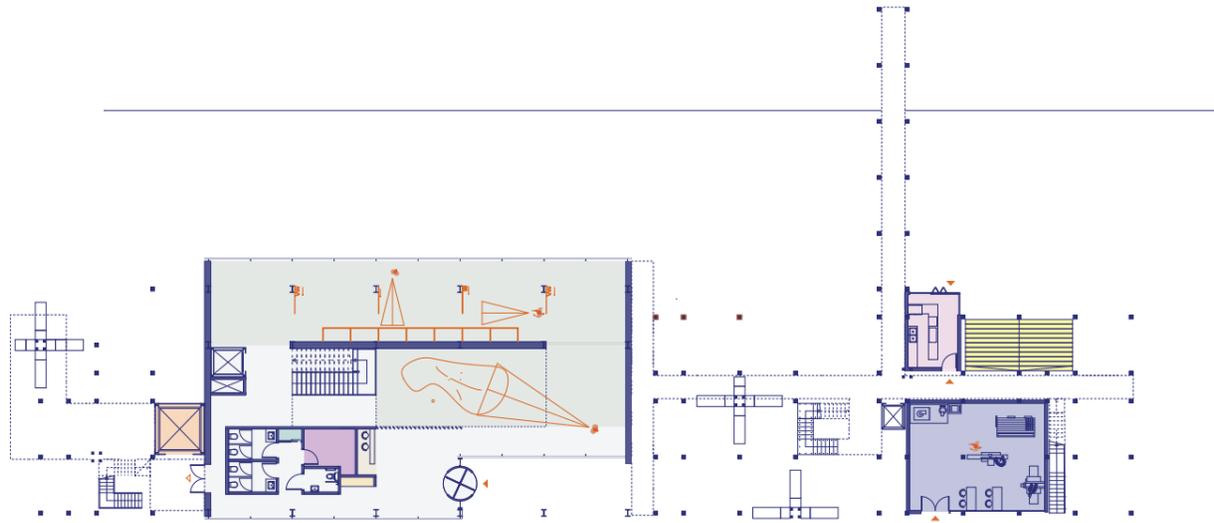
Cafe - Interior



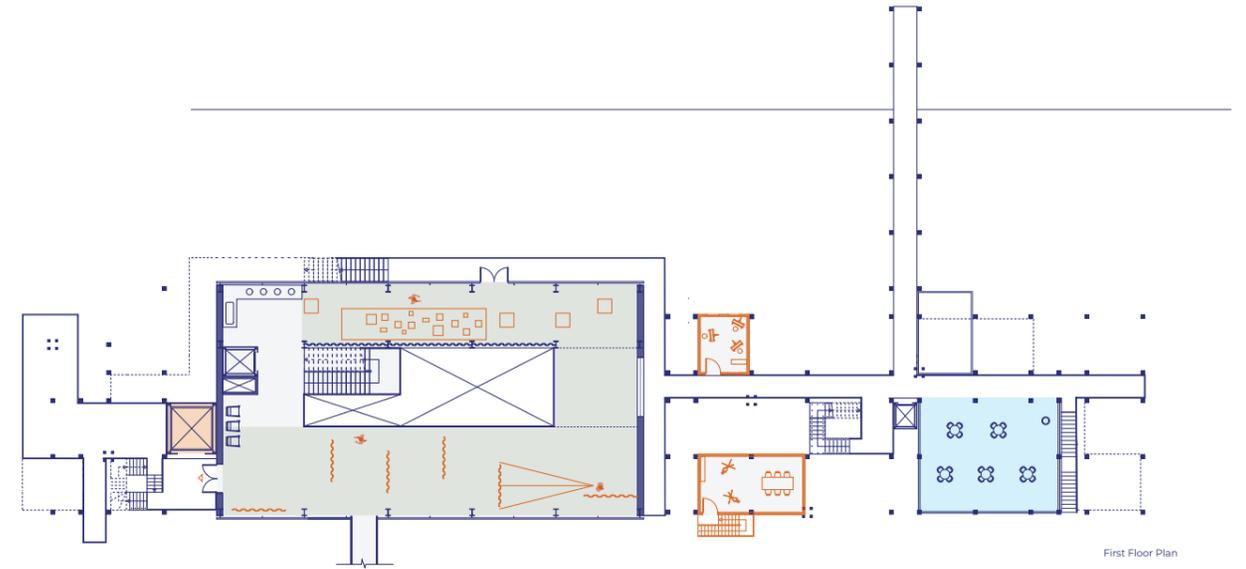
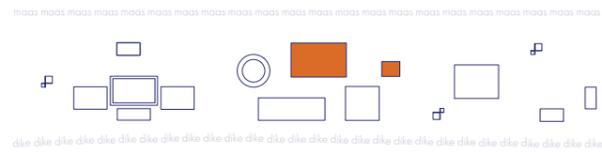
Collaborative Office - Interior

# Theme Art Gallery

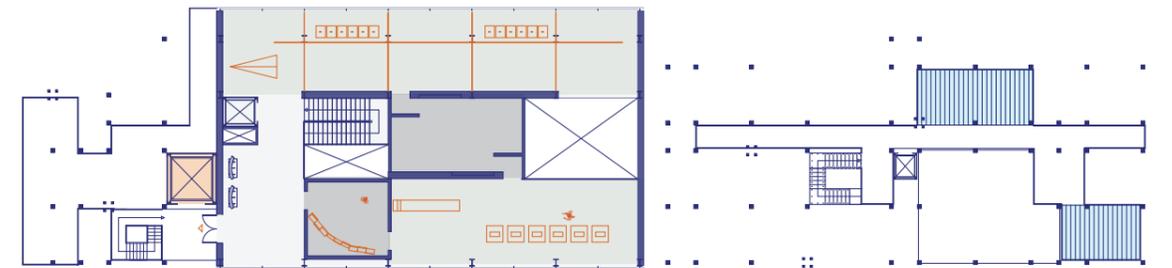
- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- black box
- entrance
- emergency exit



Ground Floor Plan



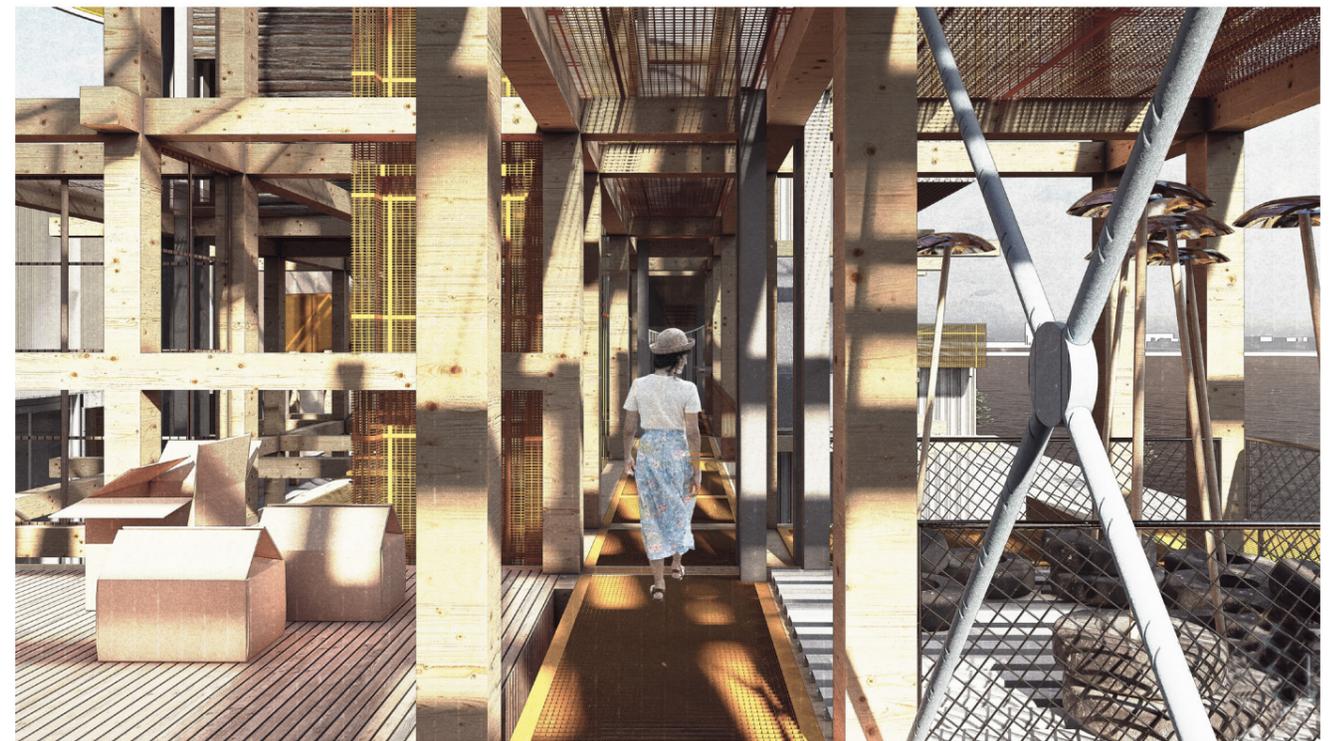
First Floor Plan



Second Floor Plan



*Theme Art Gallery | The Threshold - Interior*



*Prosthesis | Production Space*



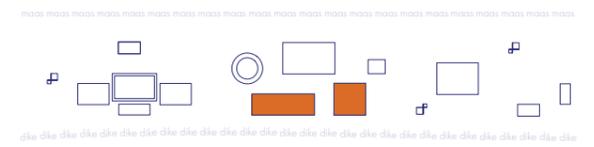
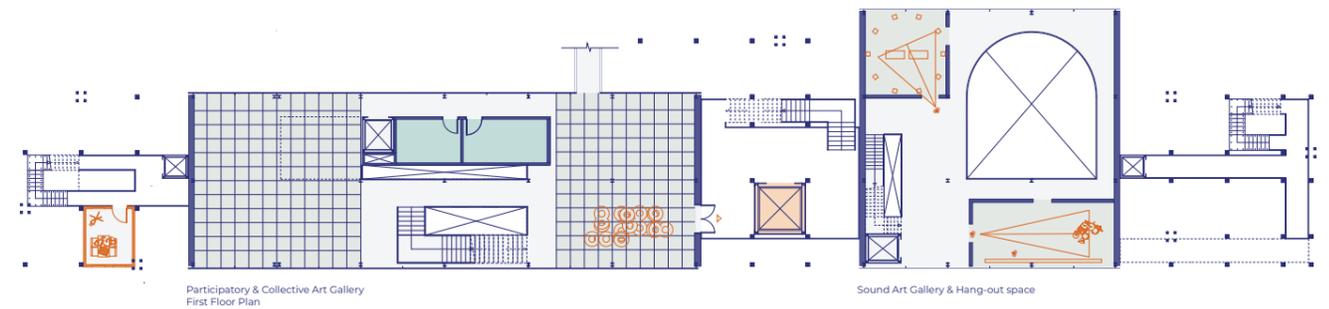
Music Performances and Sound Art Gallery - Exterior



Participatory and Collective Art Gallery - Exterior

Participatory & Collective Art Gallery | Sound Art Gallery & Hang-out Space

- gallery
- info point
- lockers
- mechanical room
- building workshop
- ateliers
- coffee corner
- interaction stairs
- storage
- service elevators
- terrace
- performance stage
- ▶ entrance
- ▶ emergency exit

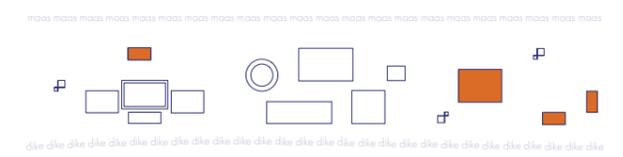
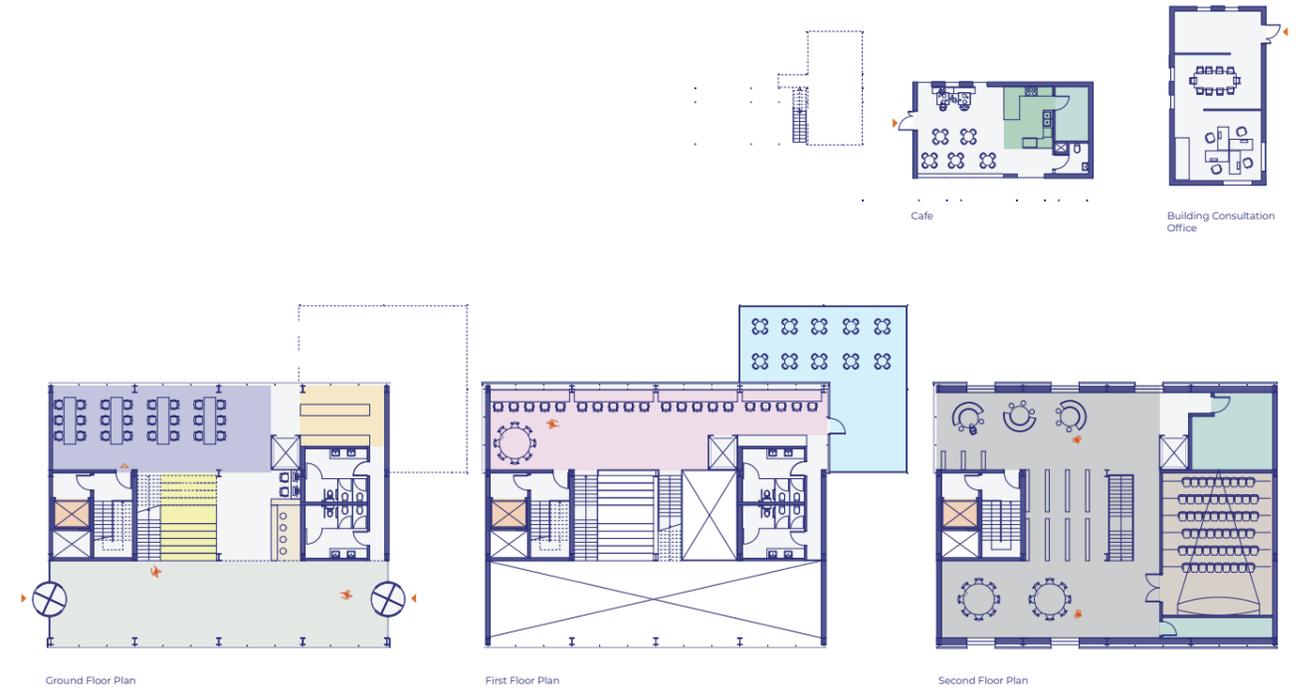


### Education Hub | Cafe | Building Consultation Office

- lobby
  - info point
  - lockers
  - mechanical room
  - lecture room
  - study space
  - interaction stairs
  - storage
  - service elevators
  - terrace
  - library
  - conference hall
  - kitchen
- entrance
  - emergency exit



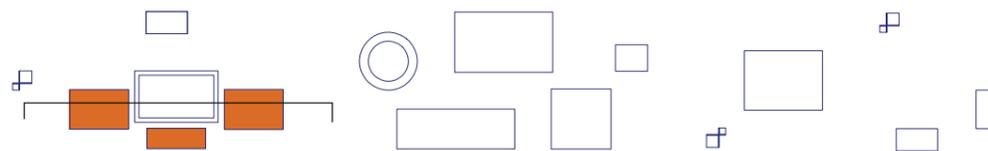
Education Hub







maas maas



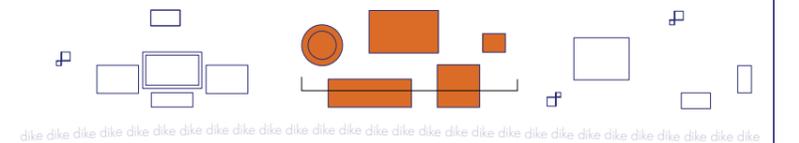
dike dike

10m  
Scale 1:200





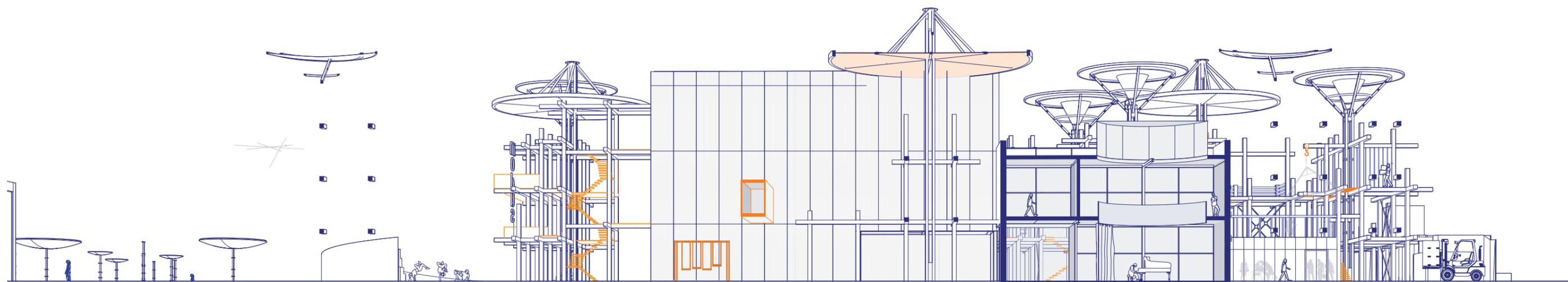
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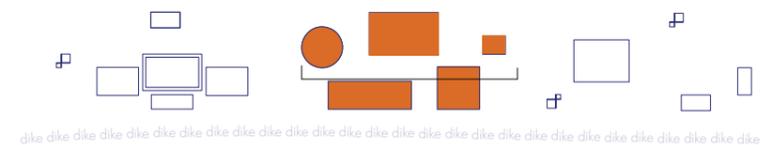
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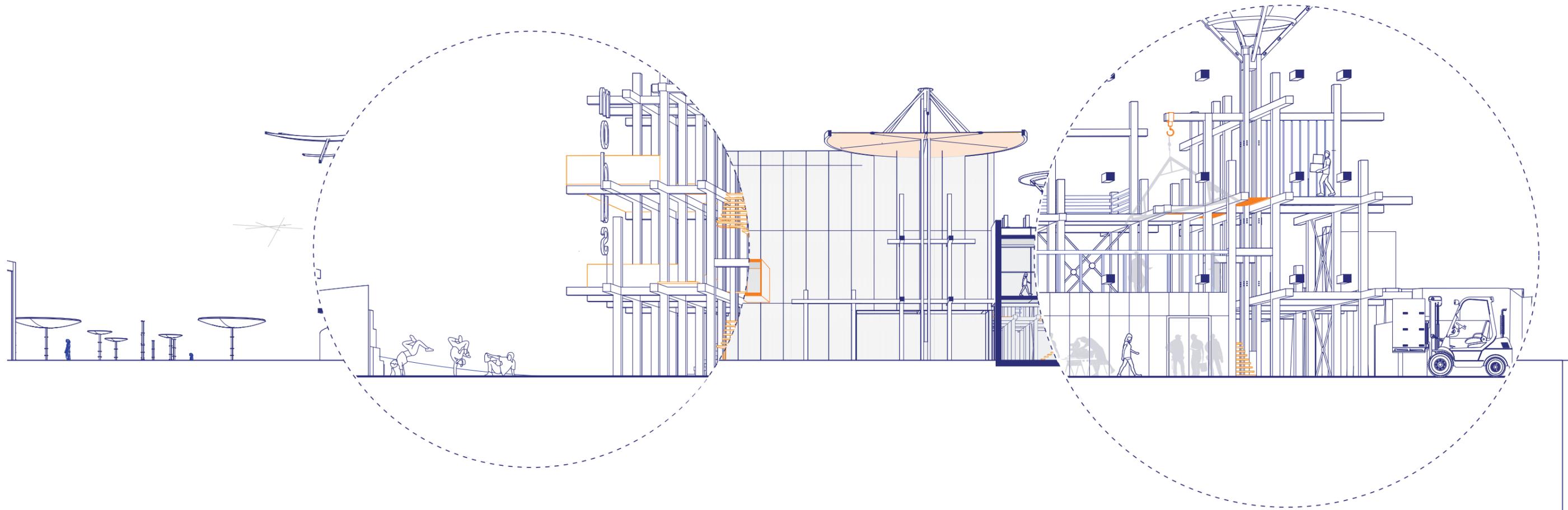


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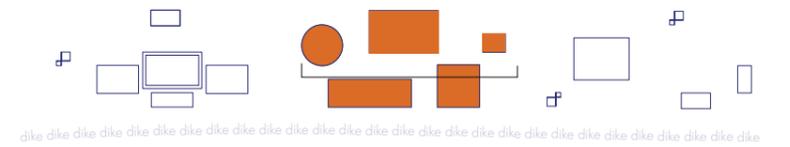


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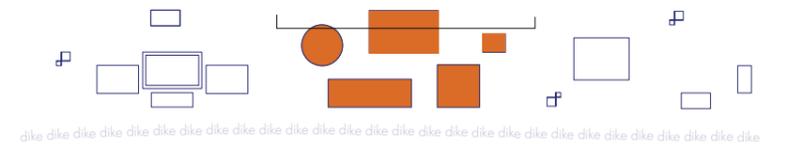
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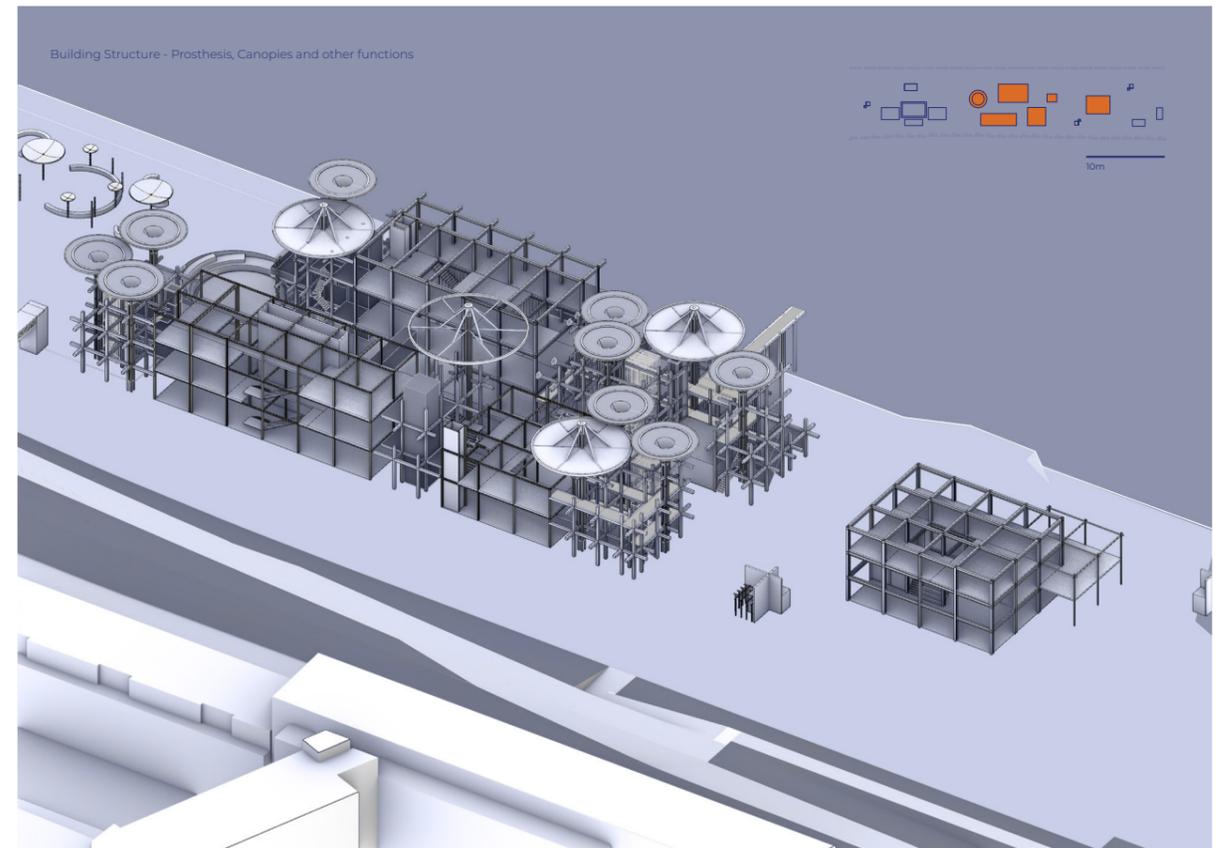
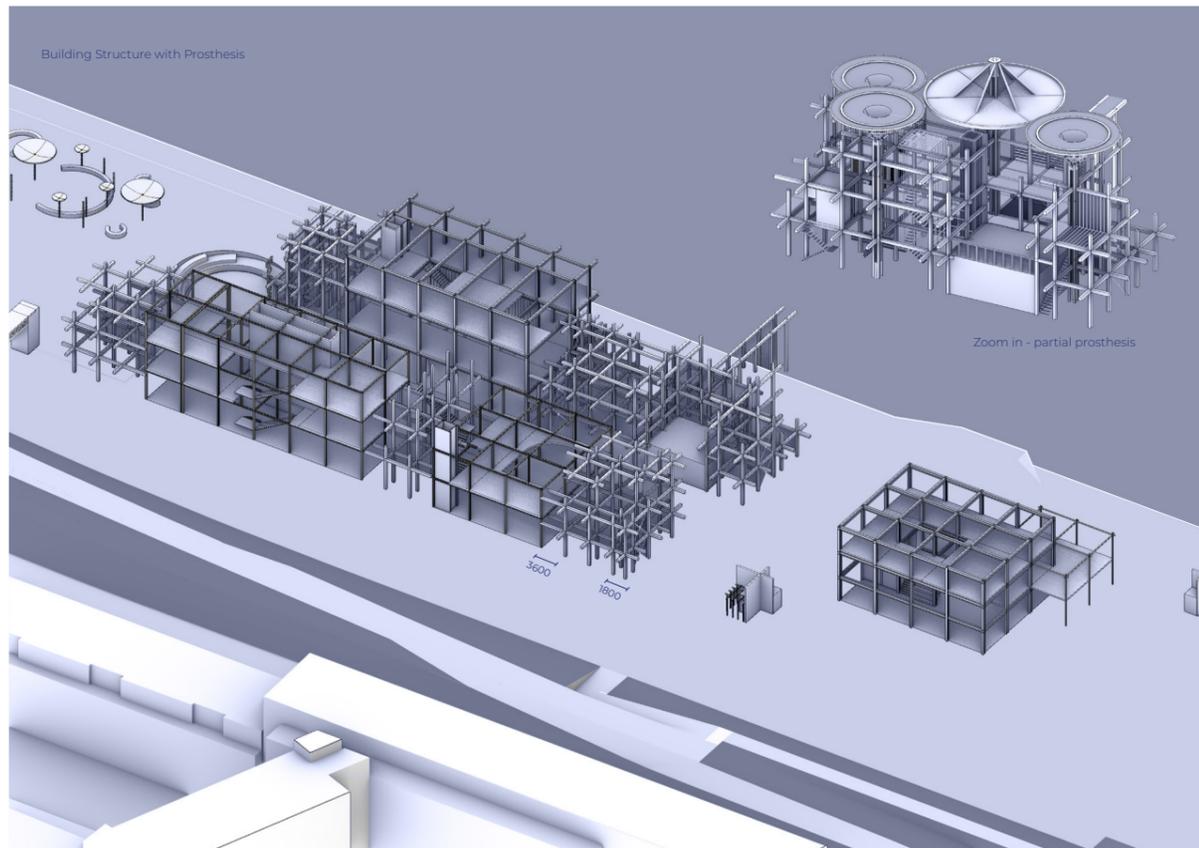
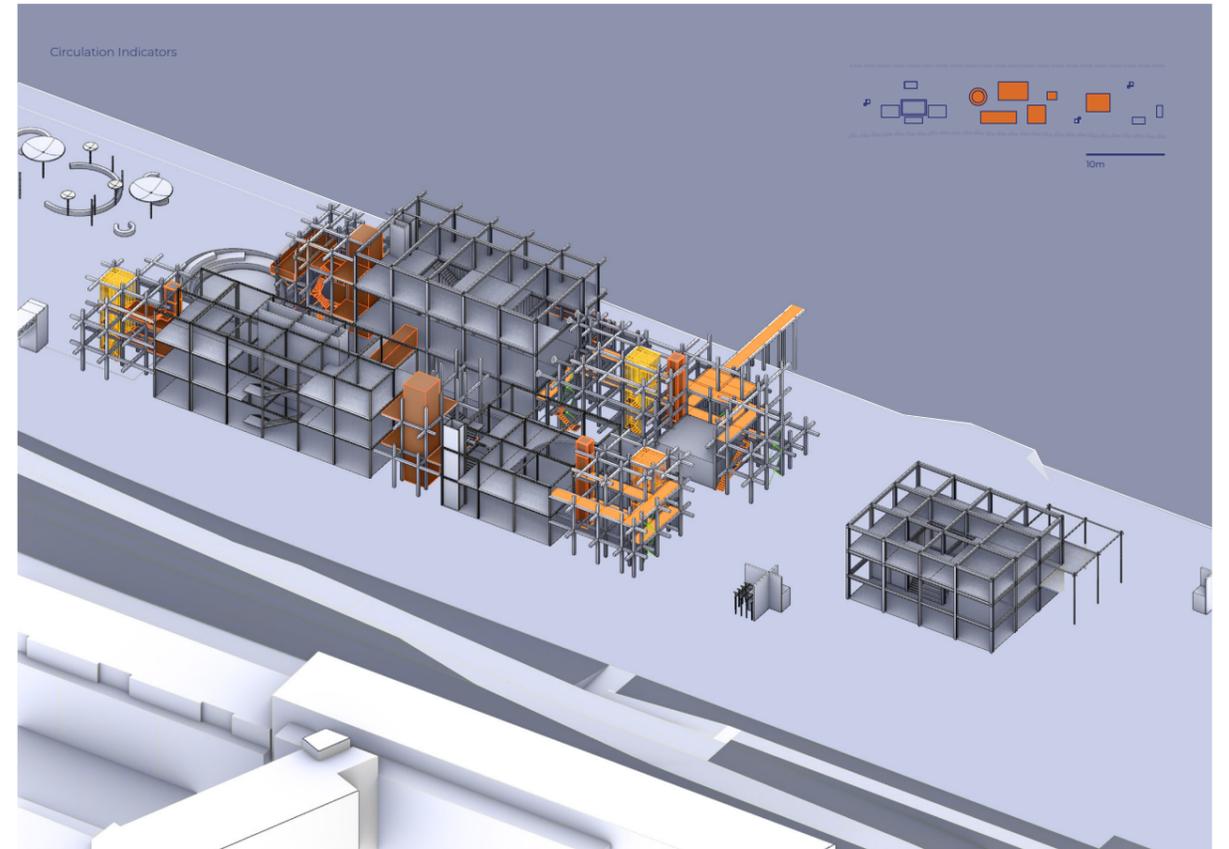
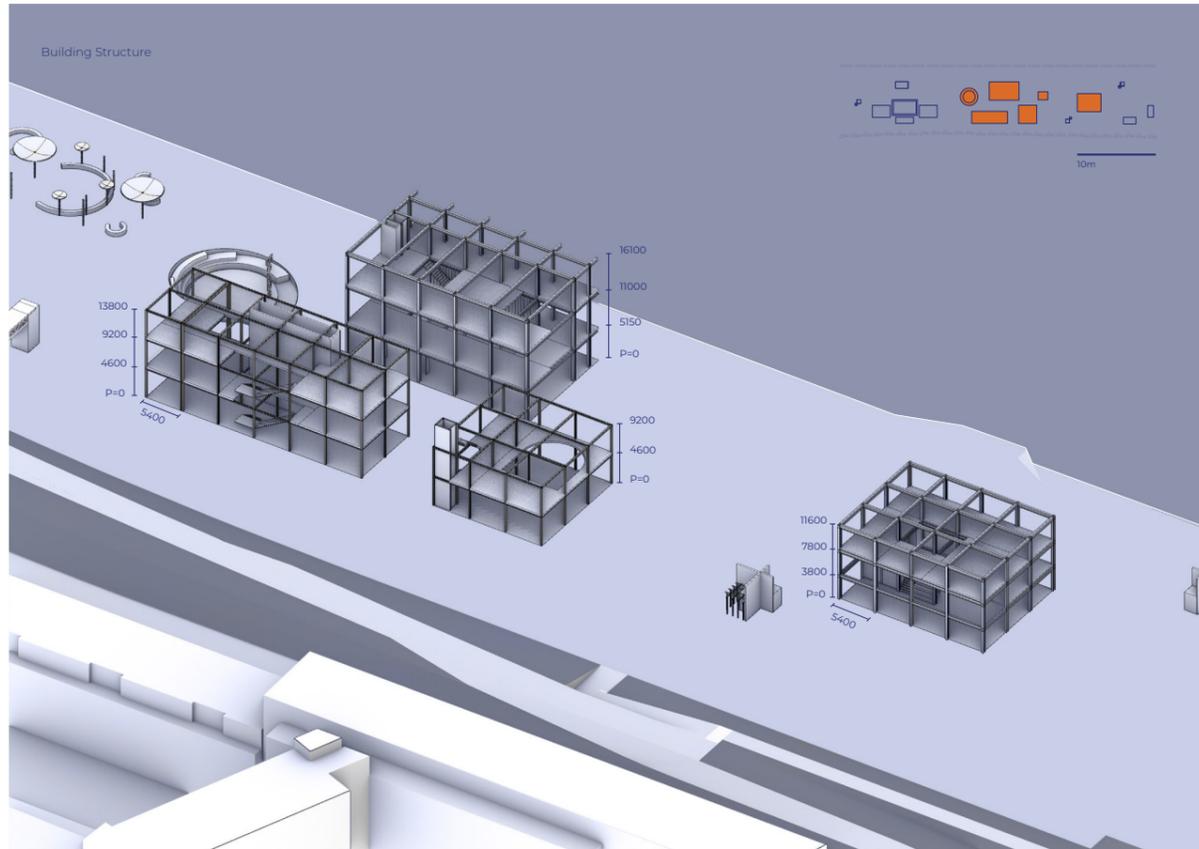
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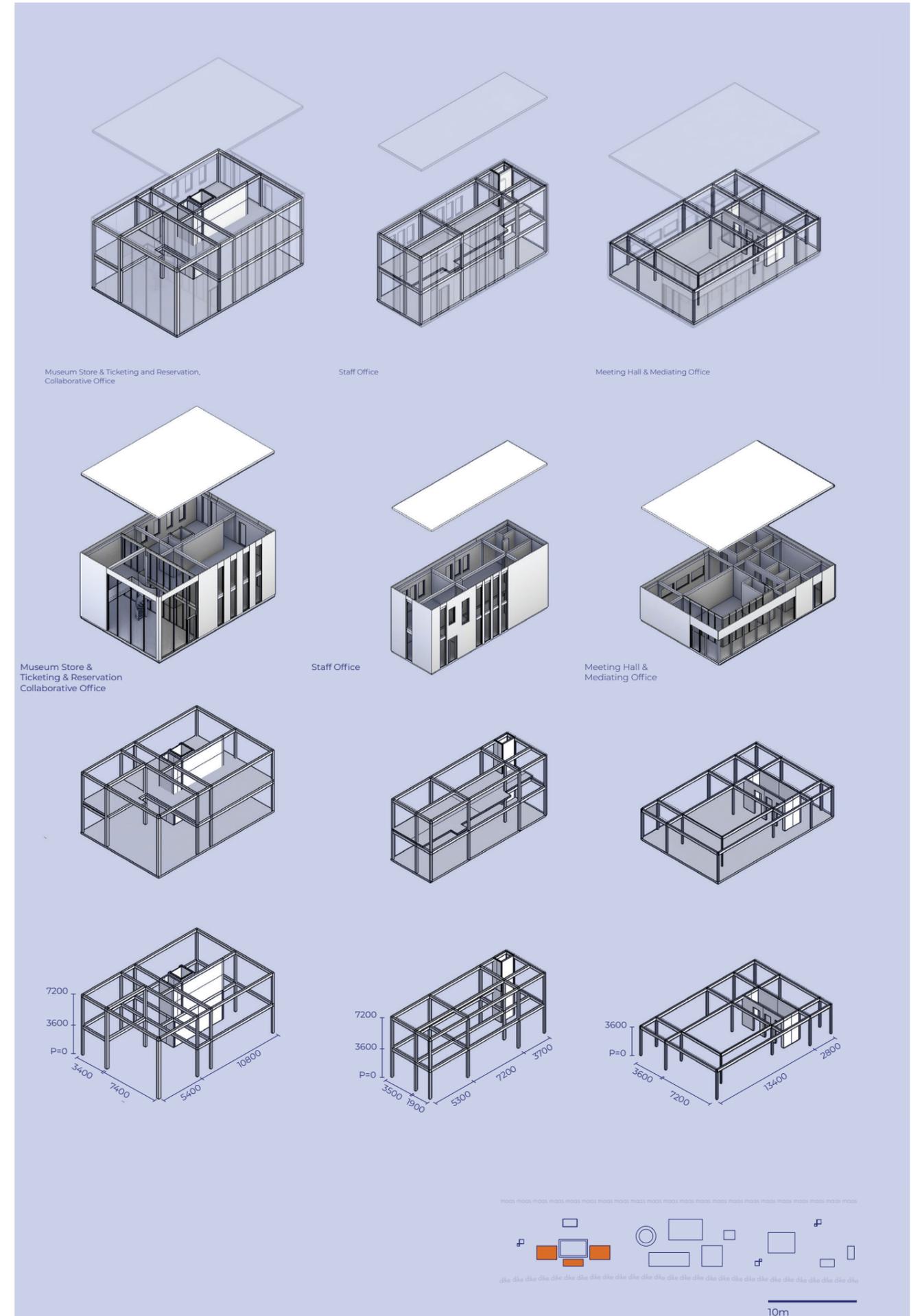
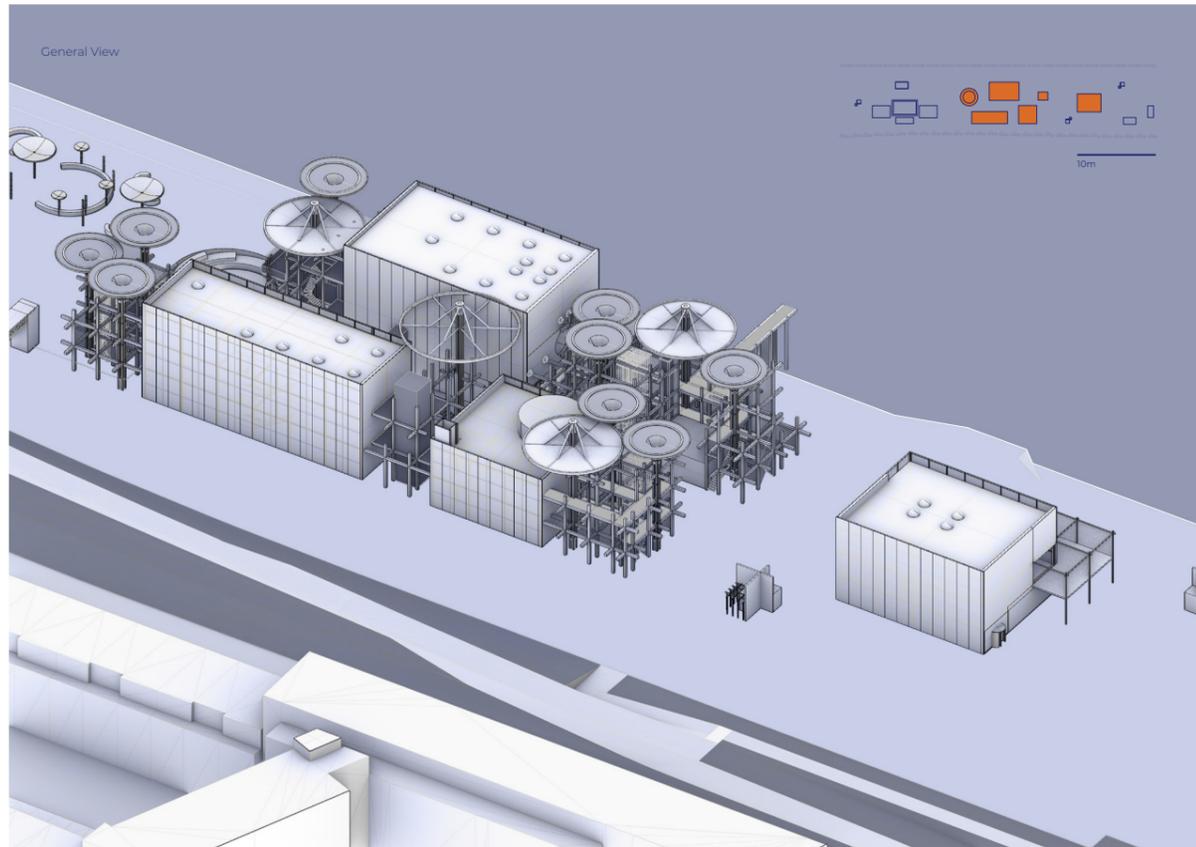
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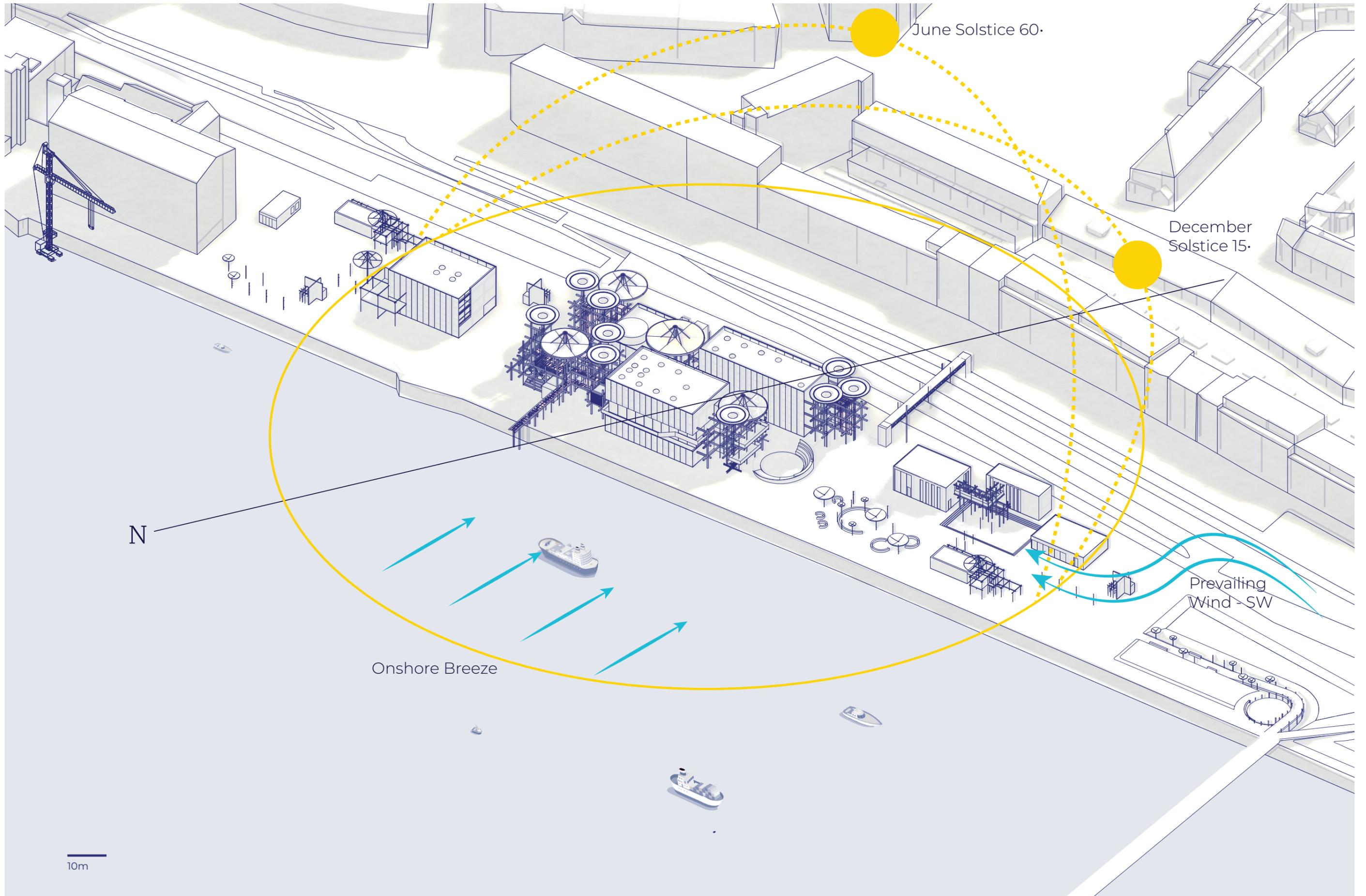
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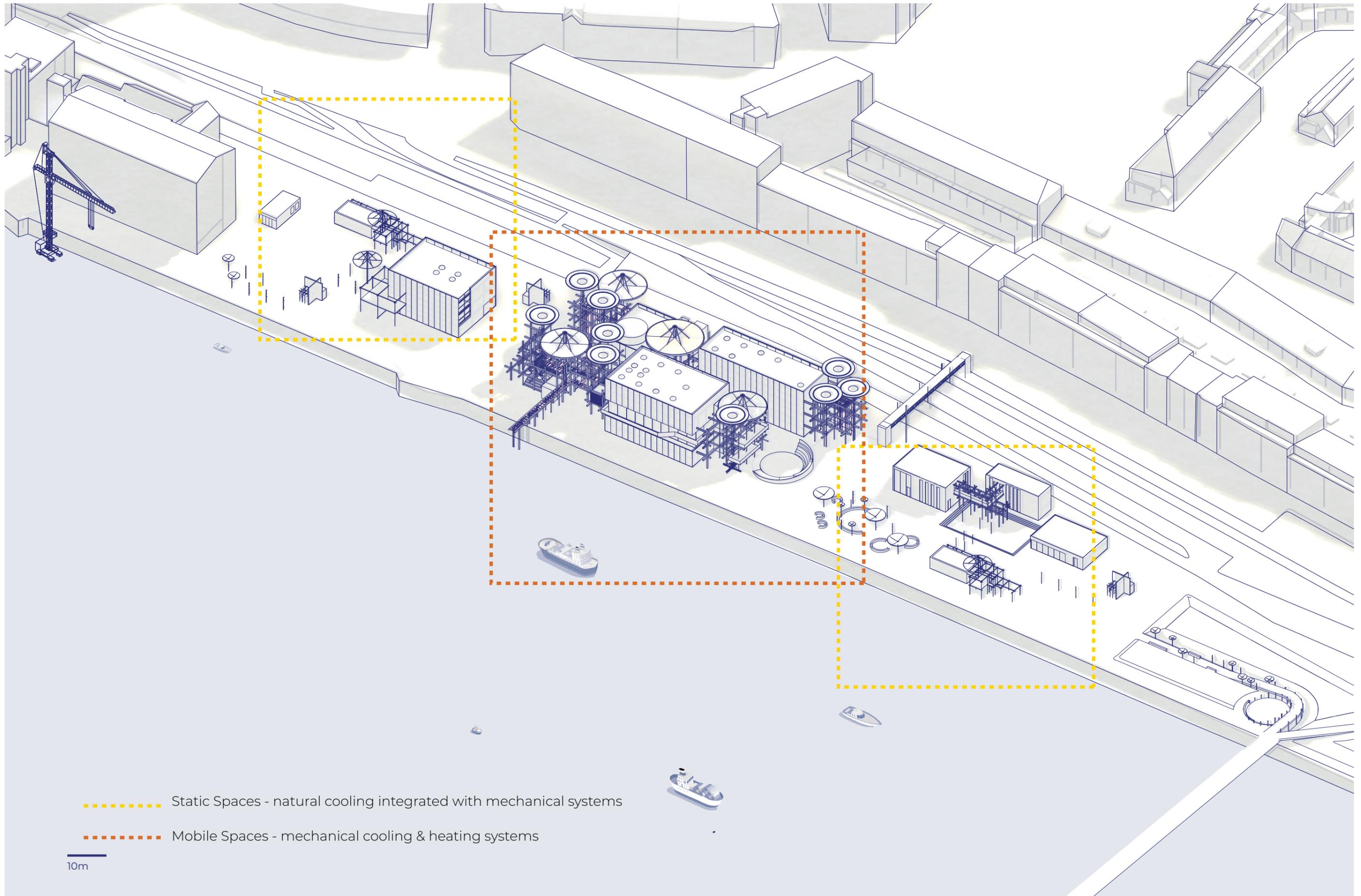
# Building Structure Elements & Sequence

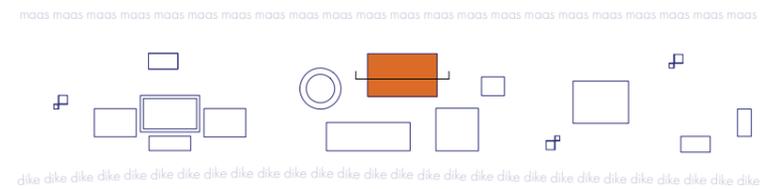
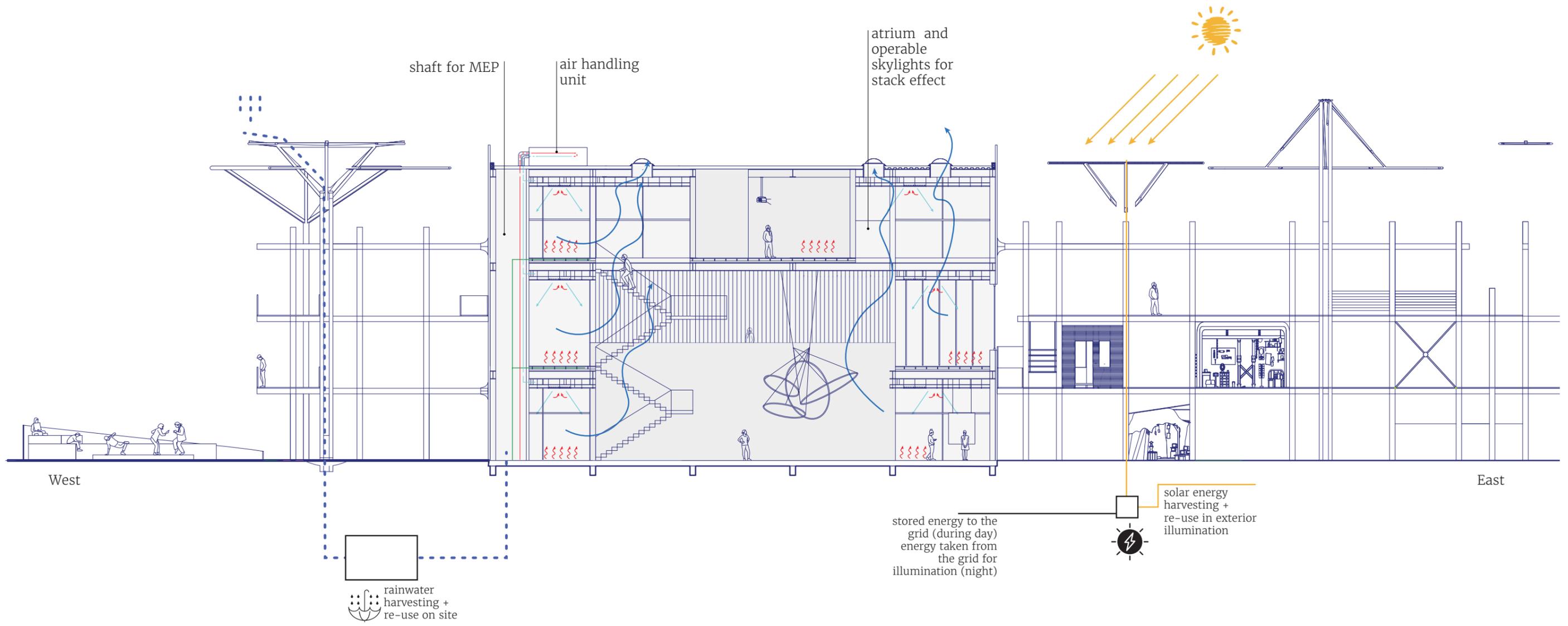


# Building Structure Elements & Sequence



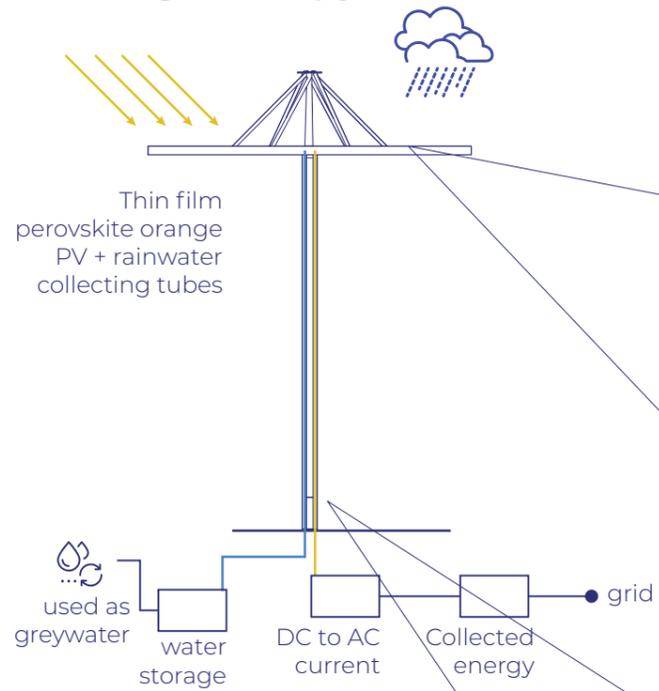




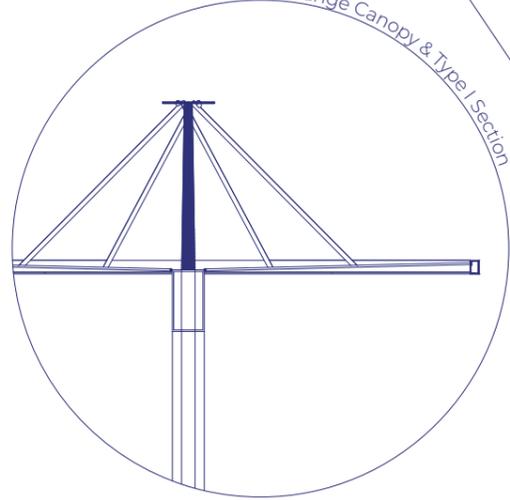


10m  
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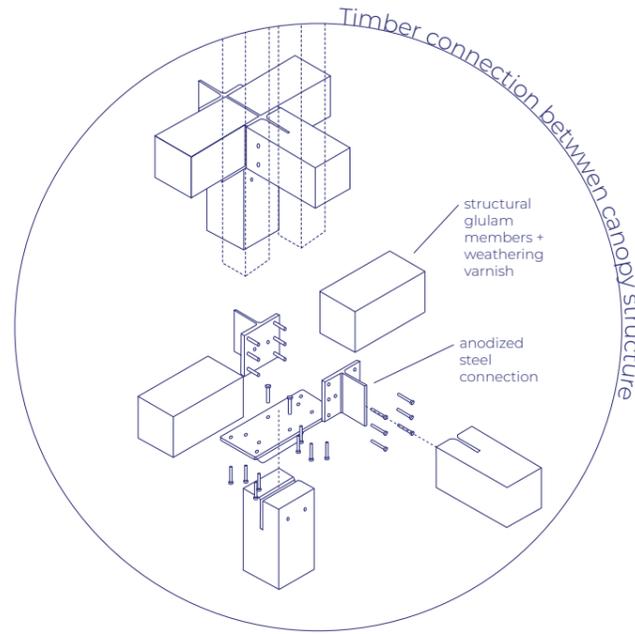
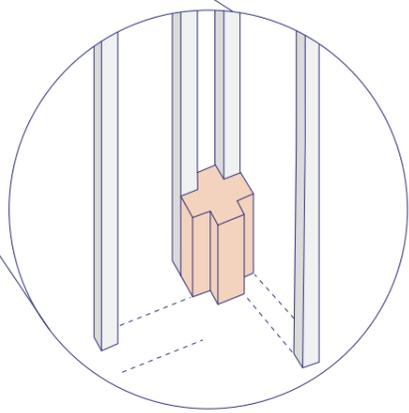
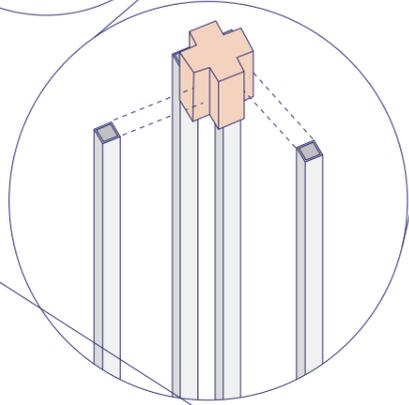
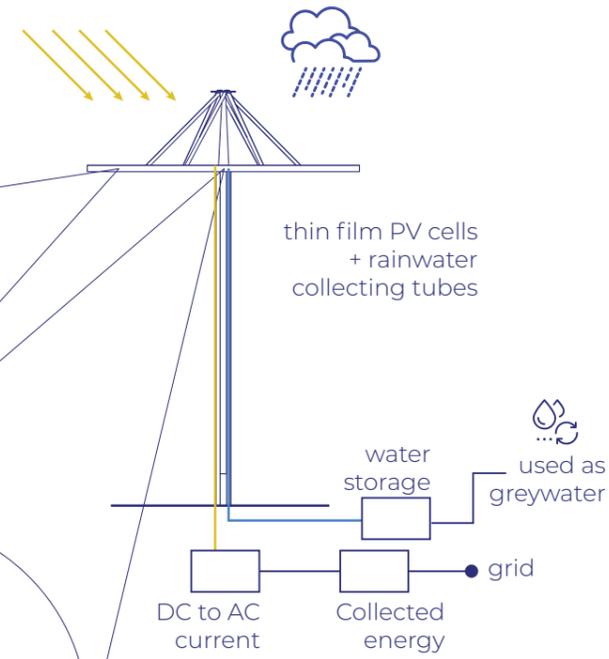
### Orange Canopy



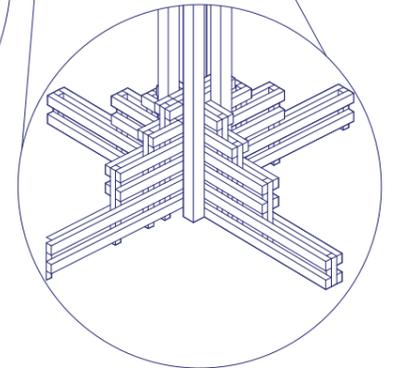
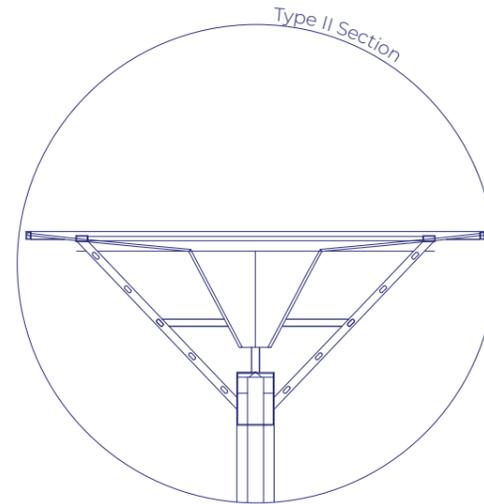
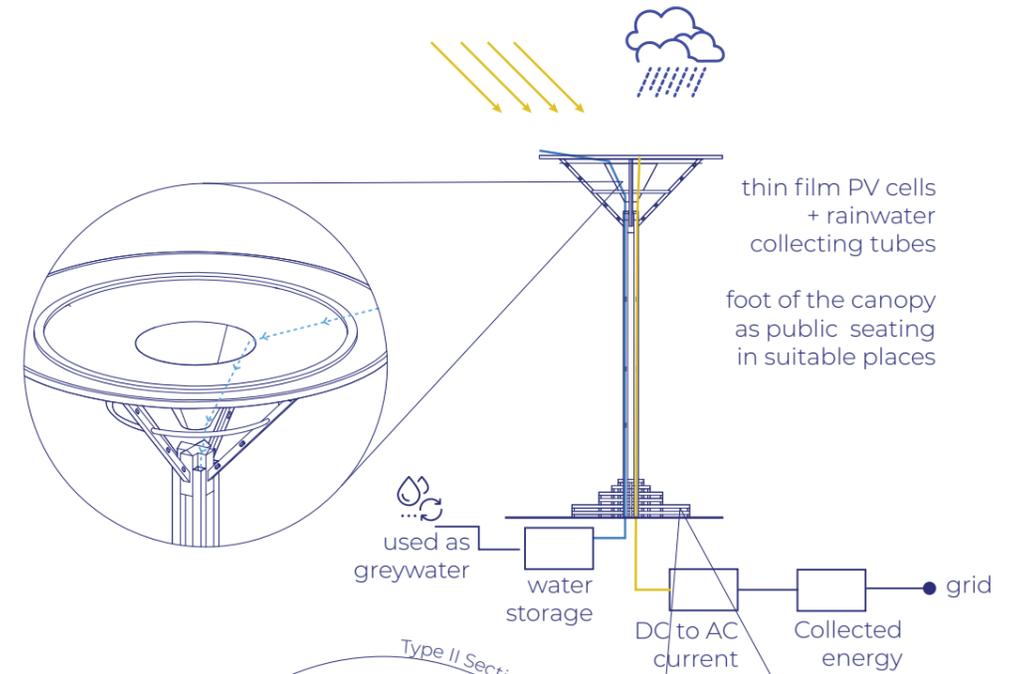
Orange Canopy & Type I Section



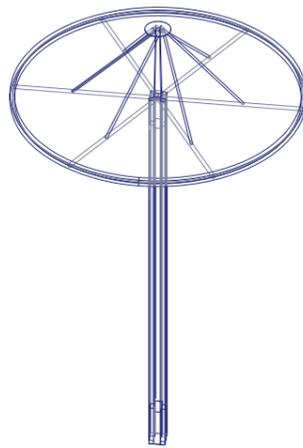
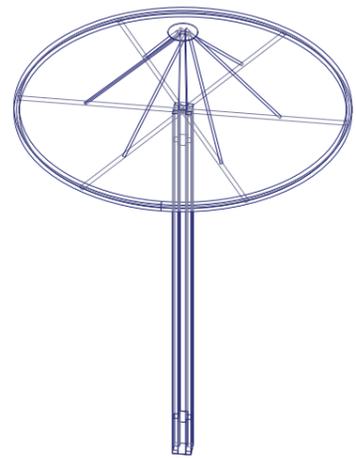
### Type I



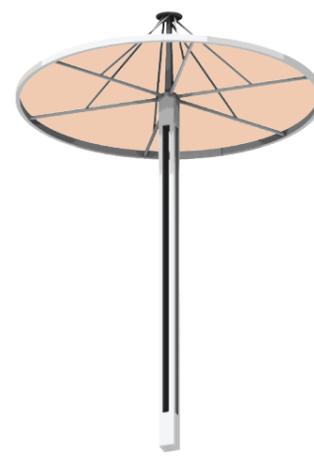
### Type II

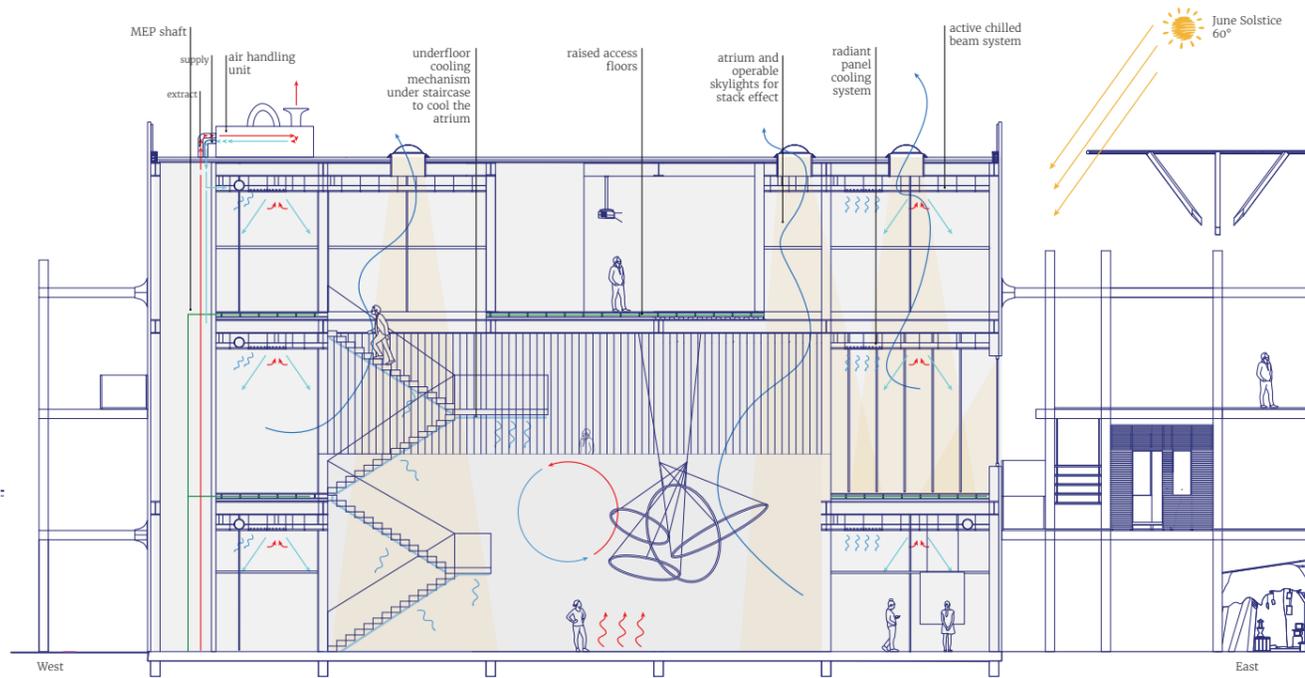


Orange Canopy, Type I, Type II  
Top Perspective

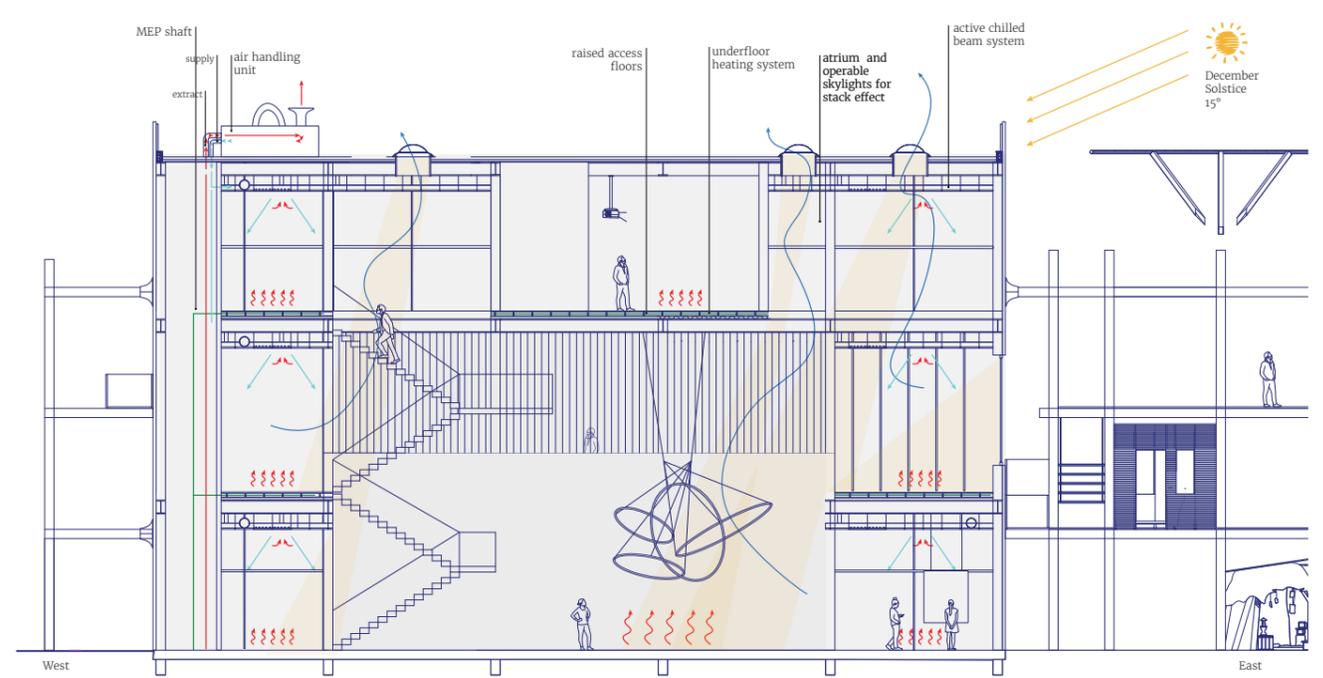
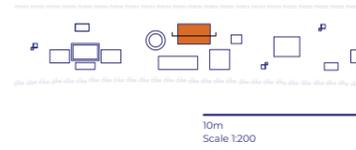


Orange Canopy, Type I, Type II  
Experience  
Bottom Perspective

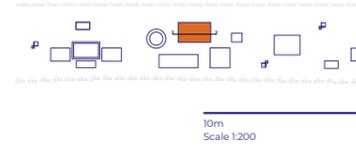


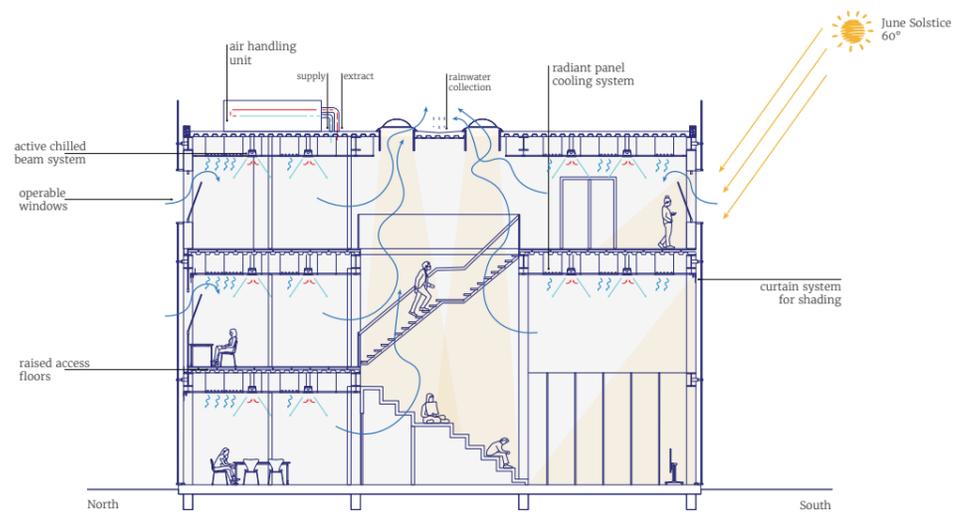


Summer: stack effect with the atrium  
 radiant panel cooling system on exposed ceiling  
 supported with active chilled beam system  
 operable skylight to exhaust warm air

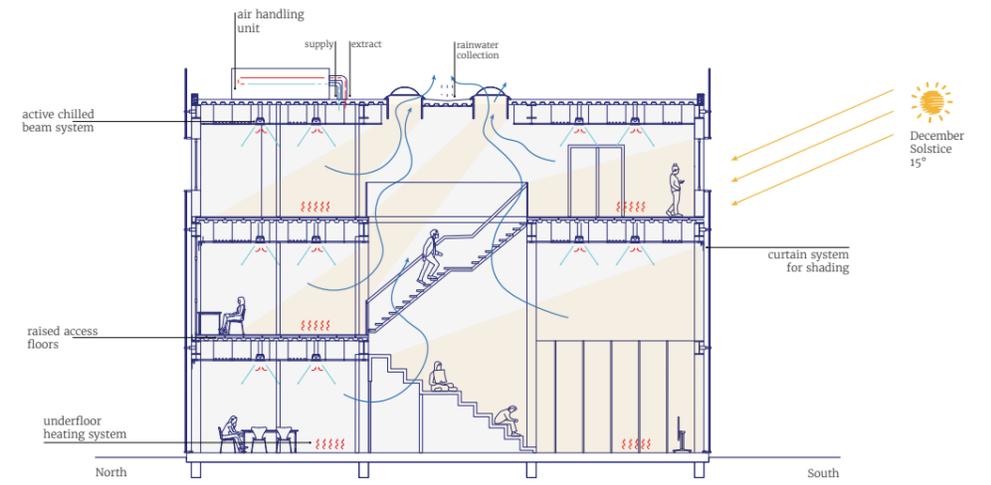
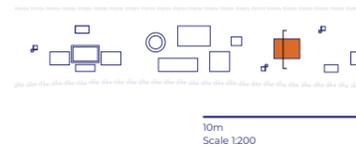


Winter: energy accumulation and radiation to interior  
 max insulation  
 stack effect with the atrium

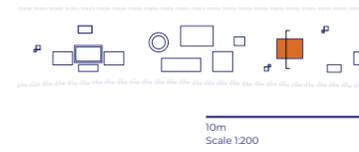




Summer: cross ventilation and natural ventilation  
stack effect with the atrium  
radiant panel cooling system on the exposed  
ceiling supported with active chilled beam  
system



Winter: energy accumulation and radiation to interior  
max insulation  
stack effect with the atrium





A- drainage channel with galvanised steel grating, 129mm x 80mm

B- 150mm computer floor system  
-demountable and adjustable-, integrated underfloor heating and cooling system, 200 mm precast hollow core slab, 180 mm EPS insulation wrapped in membrane

C- 60 mm translucent polycarbonate panel, 54x108mm steel profile with aluminum anchor

D- adjustable suspended grid ceiling

E- active chilled beam system integrated with the air handling unit

F- 15mm lightweight fiber reinforced concrete panels

G- transparent corrugated plastic sheet

H- stainless steel grating stairs system with orange finish

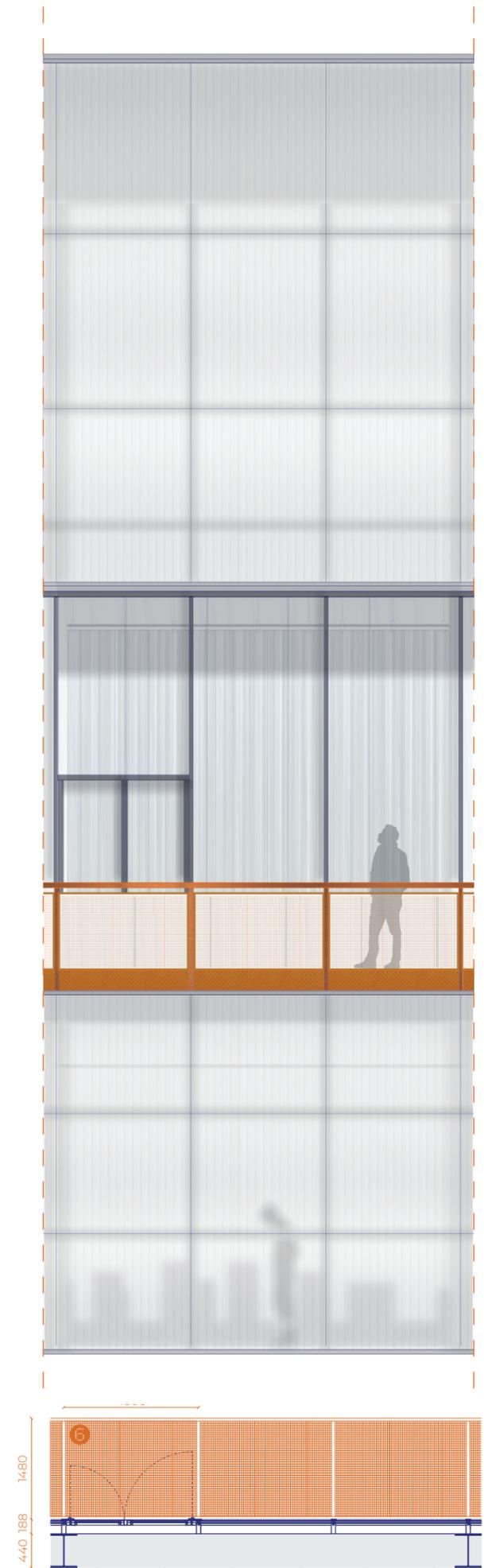
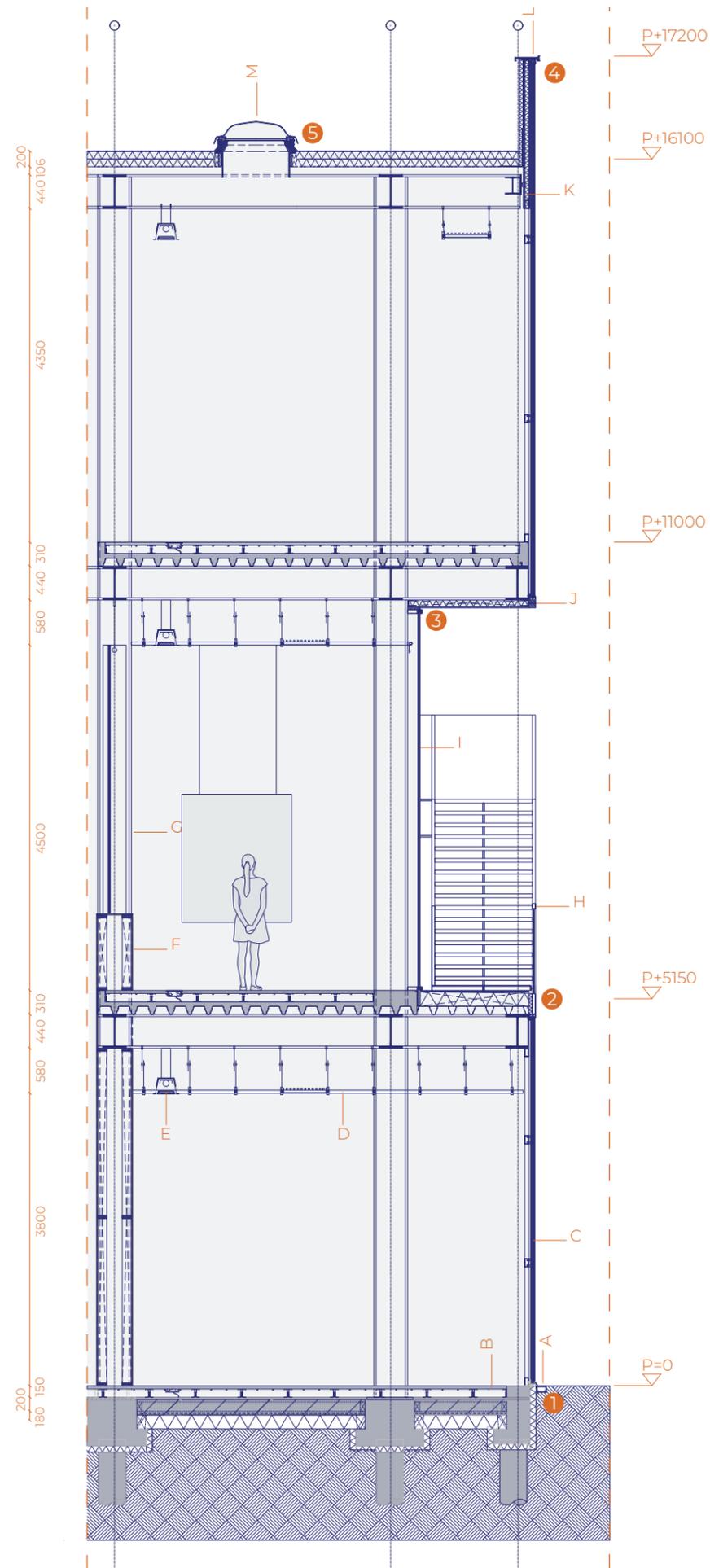
I- curtain wall system with double glazing, 188mm

J- insulated ceiling system with timber cladding -insulation is wrapped in membrane-, aluminum cladding under the polycarbonate panel profile

K- steel parapet framing filled with insulation, plywood applied on both sides

L- aluminum parapet capping

M- operable skylight system, Ø 1000mm







**final reflection**

Başak Günalp  
5091888

The study of the thesis and the whole research starts with an impromptu visit to the site. After acknowledging the character of the site which is highly quotidian and industrial at the same time, the intuition as an architect was to involve these characteristics of the neighbourhood on the body of the new museum. When the question “how the new museum should be” is thought, the immediate answer becomes “by physically integrating everybody on the process of production by first acknowledging the process of production not only in the field of arts, but also on the curation and administration.” Now is the time that people are more integrated with museums due to having easy online access. However, the physicality of this integration is lacking. When we go to a museum, everything is either planned as a choreography from start to end or the atmosphere is so polished and finished the participants feel intimidated before engaging with the artworks and the spaces. Therefore, a museum which brings the quotidian activities both interior and exterior while giving space to spontaneity is aimed throughout the process. In my opinion, the generic museum idea lacks the process of production which might be a tool to empathize with the place of muse instead of just consuming the amenities of the place. Therefore art becomes not only a product of consumption but also a product of productions with materials at hand which aims a sustainable and collaborative neighborhood that tends to build and create when necessary. With this idea and the observations made at the site the question arose:

*To what extent spontaneity can be a tool for an architect to reinvent the generic design process by integrating public collaboration instead of being totally in control and how this can be reflected on a “new” museum?*

To answer this question was challenging in the beginning, because spontaneity does not have a concrete solution or a definition. However, I came across a book called *the Dome Cookbook* by Steve Baer which investigates how to build ad-hoc domes and the book became my inspiration and the origin of the analogy of the project, by constructing a solid method for both the research and the design process. As the main method I used the analogy of a cookbook, which starts with “setting up the table” where table is the simplest form of collaboration that unfolds spontaneous public choreographies as my manifesto demonstrates. (for manifesto see below). Then a “recipe” is needed which allows interpretations yet gives a direction. On the idea of the new museum, all the gallery spaces and public spaces have “a recipe” instead of concrete rules, which makes it possible to engage various activities with a bottom-up approach. This spontaneous approach became the main approach throughout the research, in contrast to planning everything, assuming everything will be in control by disregarding the human nature. The approach gave an insight and a whole new perspective for the research and urged me to work on a bottom-up approach –also in model making and designing-. This is also reflected on the model making and sketches during the research, by using the hand as a tool of design with its flaws and imperfections. The last part is “the Cookbook” of the project, which is an assembly of possibilities throughout the museum for the users and the participants of the project.

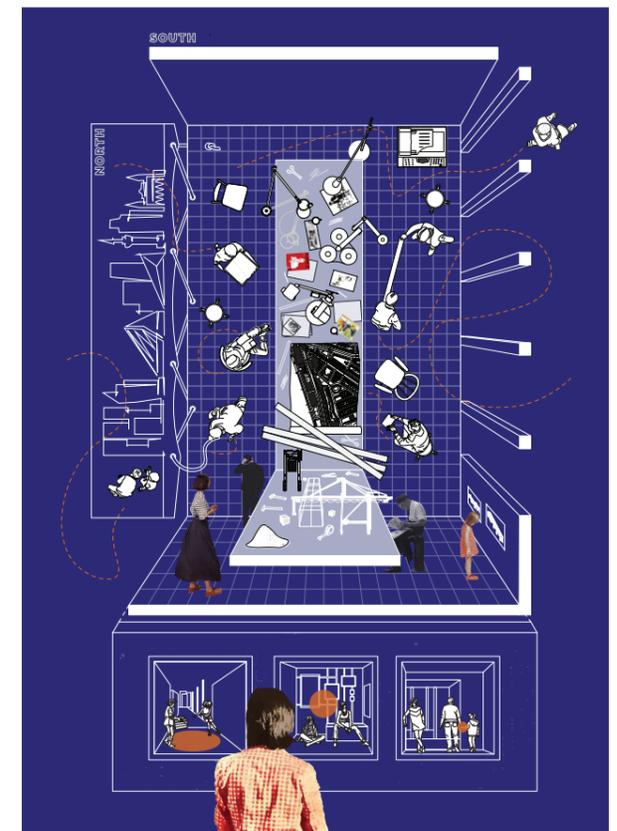
The feedback of the mentors on P2 and P3 was fruitful to develop the project and they pointed out the possible scenarios, the method of curation and how to put the spontaneity on an architectural work which is not often the case. Also, they asked how and where

do I place the “table” that I am setting, which I kept asking to myself repeatedly on the design process in order not to deviate from the concept while dealing with the blue-print side of the design, which creates the contrast with the spontaneity. However, the method of observation fed me throughout the whole process by not only looking spontaneity in architecture but also in daily life. In addition, I was told I was lacking in showing the theme multiplicity clearly in the project which led me to look into the theme in a more clear way by taking the definition of multiplicity from one of Nathalie de Vries’s interviews about the topic.

*Multiplicity in architecture aims to give buildings and building elements properties that make them less singular in function, more productive, more transformative and resilient. How can museums promote multiplicity in artistic positions and contexts and engage the public more meaningfully beyond branding?*

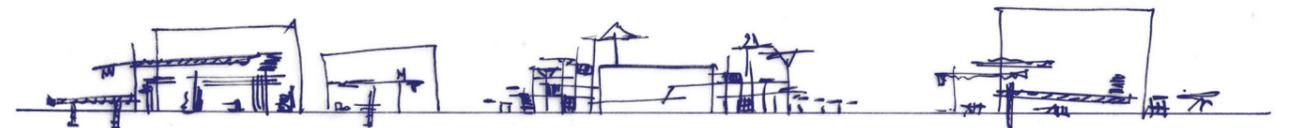
With this approach I have decided that in the project functions are not always defined, or if defined, they give an opportunity for the structure to grow according to the demand and add another function if required by the user or the community. As Daan Roosegaarde said “Instead of determining human behavior or allowing it to be determined by the drawings of a brilliant architect, space should evolve and change accordance with the social and cultural context and their needs.”. Therefore the design draws upon spontaneous world and relies on the ad-hoc and local elements which constitutes the museum to allow the participant to detect the context and the sense of collaboration. The prosthesis, organization of the building clusters and the cookbook provide directions, allowing for the introduction of spontaneous interventions. Through a flexible design, the museum can be continuously transformed and reconfigured to accommodate variety of modes of productions and events also in relation to seasons.

Finally, the project is an opportunity for me to question the tools of an architect, especially when designing a program which is highly based on human interaction, encounters and creativity. And not to forget, creativity is never planned or programmed: it is spontaneous. Therefore I recognized that the research and design benefits from a polytechnic approach which uses multiplicity of techniques and tools from the discipline of architecture and art. This also showed that a reversed approach towards architecture (bottom-up vs top-down) provides abundant possibilities of impromptu application, which should be adopted on our field. By enhancing the value of the unplanned or the “unplannable”, I believe that we can accept our incapacity as designers to control every aspect of the project.



manifesto- setting up the table

## appendix 1: Details



A- drainage channel with galvanised steel grating, 129mm x 80mm

B- 150mm computer floor system -demountable and adjustable-, integrated underfloor heating and cooling system, 200 mm precast hollow core slab, 180 mm EPS insulation wrapped in membrane

C- 60 mm translucent polycarbonate panel, 54x108mm steel profile with aluminum anchor

D- adjustable suspended grid ceiling

E- active chilled beam system integrated with the air handling unit

F- 15mm lightweight fiber reinforced concrete panels

G- transparent corrugated plastic sheet

H- stainless steel grating stairs system with orange finish

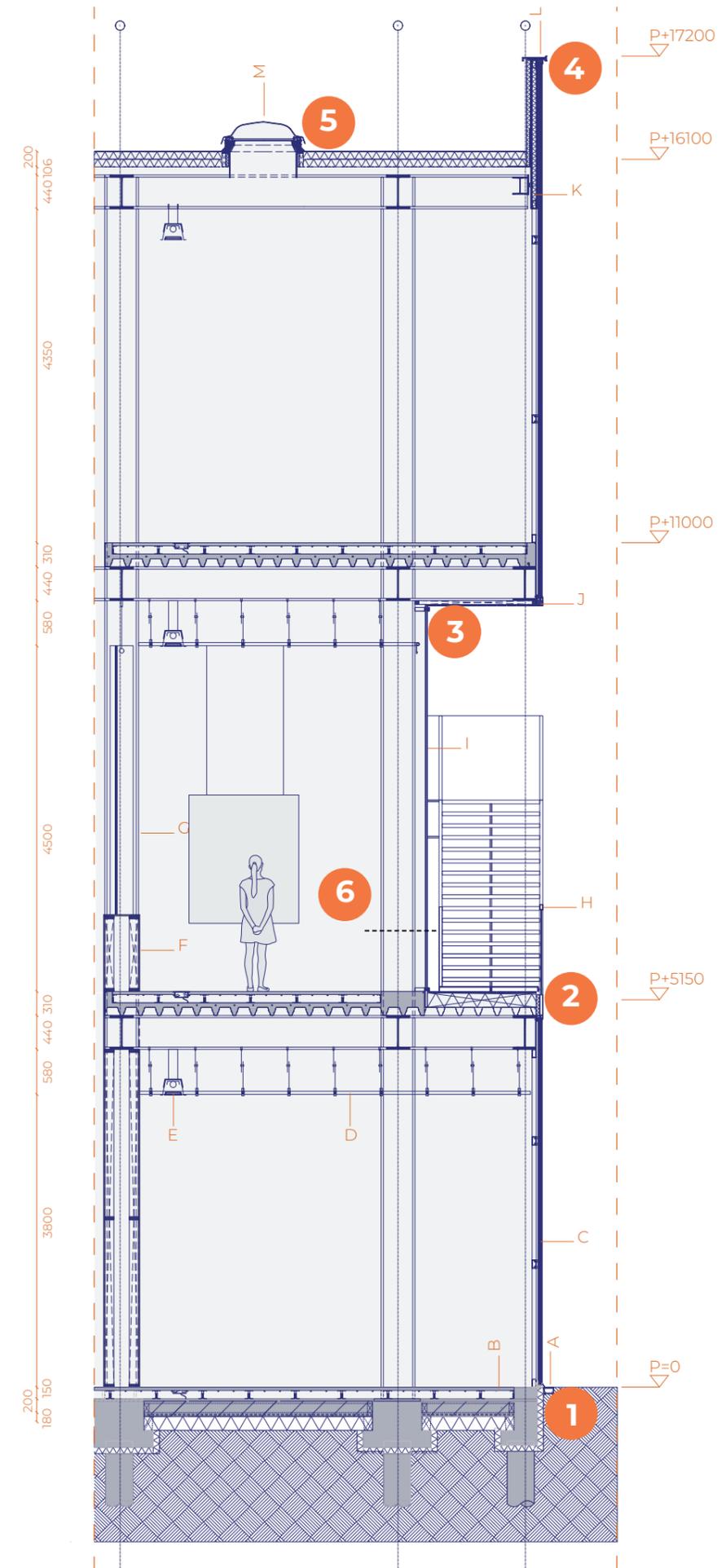
I- curtain wall system with double glazing, 188mm

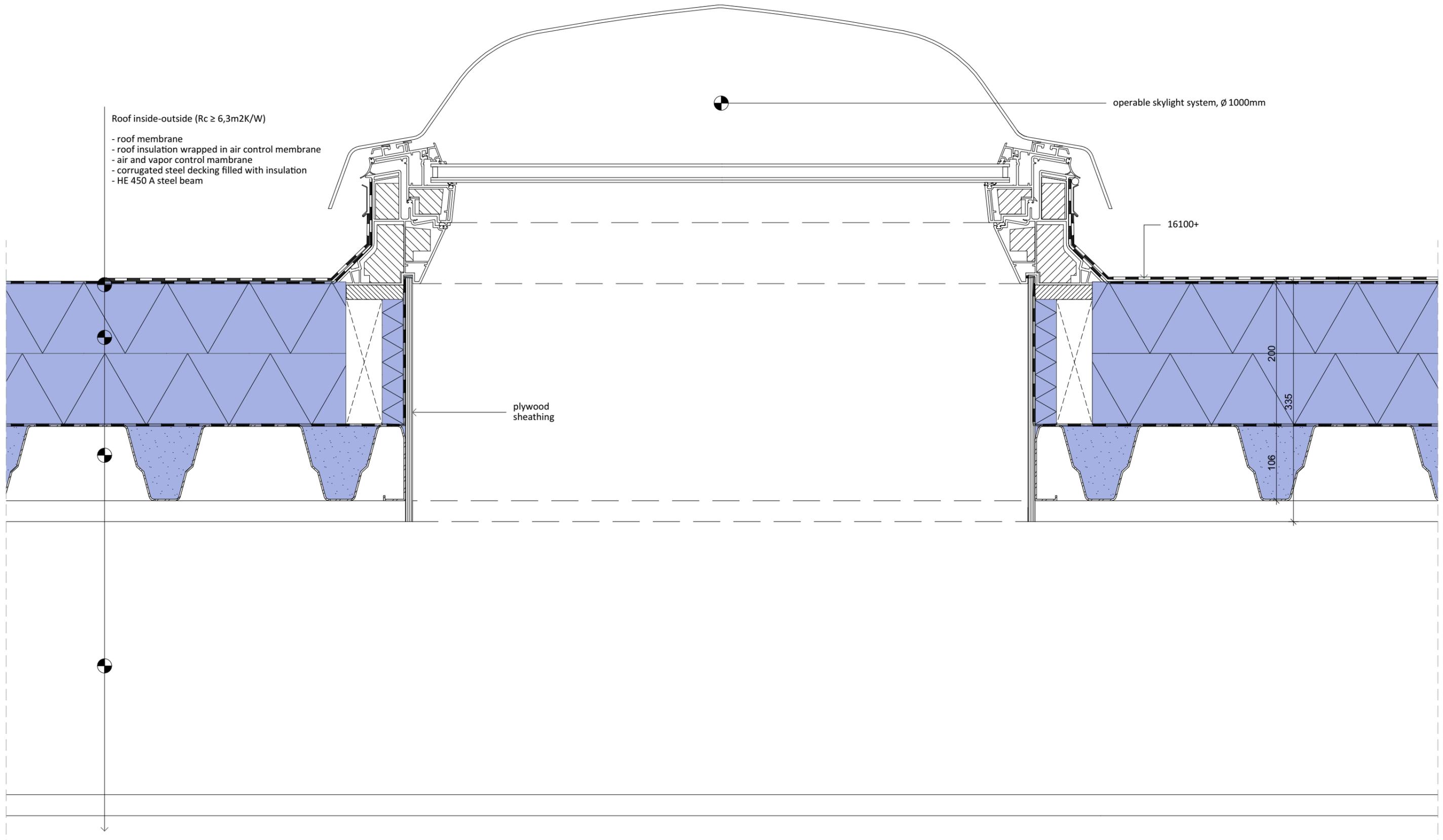
J- insulated ceiling system with timber cladding -insulation is wrapped in membrane-, aluminum cladding under the polycarbonate panel profile

K- steel parapet framing filled with insulation, plywood applied on both sides

L- aluminum parapet capping

M- operable skylight system, Ø 1000mm





Roof inside-outside ( $R_c \geq 6,3m^2K/W$ )

- roof membrane
- roof insulation wrapped in air control membrane
- air and vapor control membrane
- corrugated steel decking filled with insulation
- HE 450 A steel beam

operable skylight system,  $\varnothing 1000mm$

16100+

plywood sheathing

200

335

106

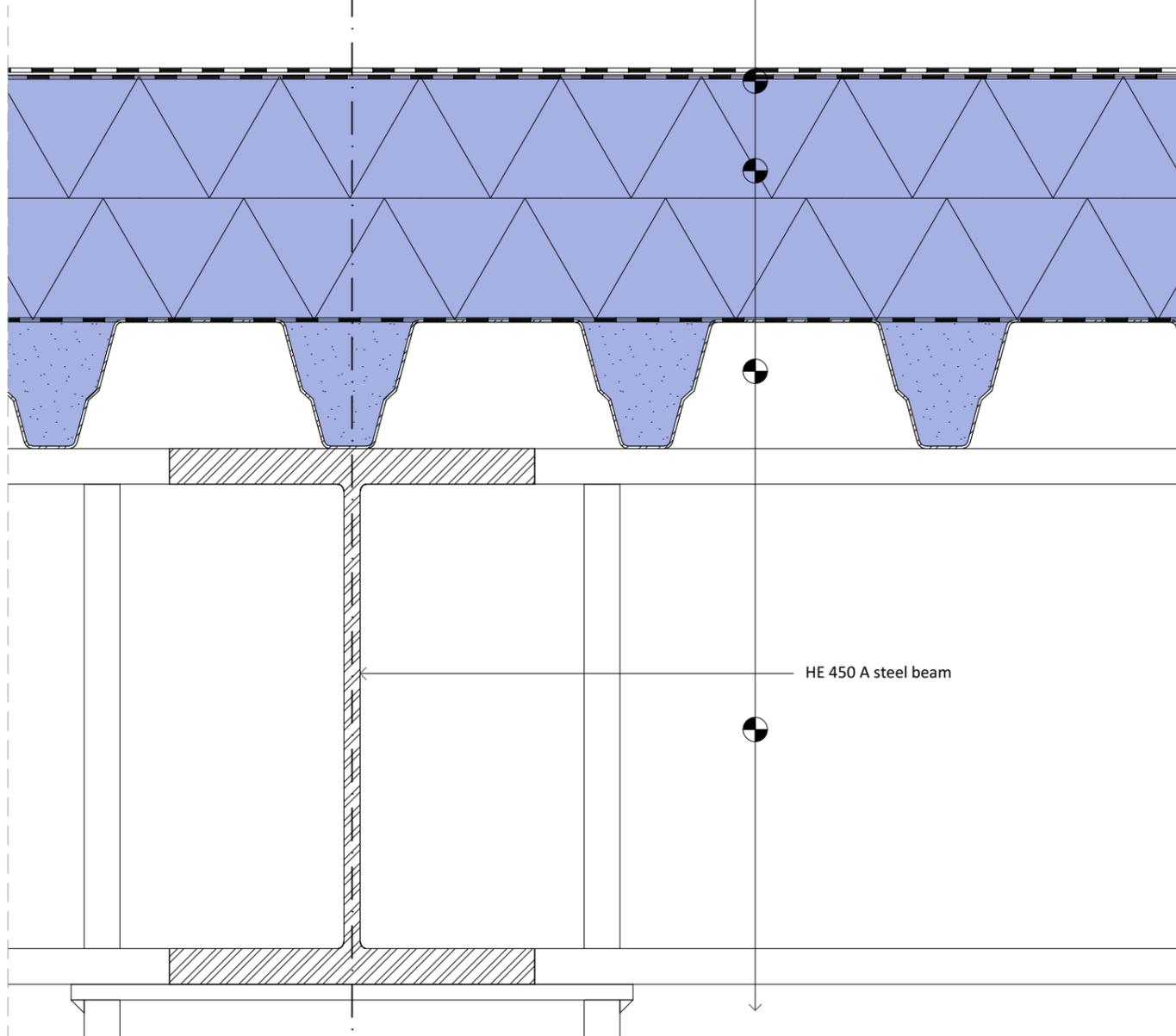
2

2

Roof inside-outside ( $R_c \geq 6,3m^2K/W$ )

- roof membrane
- roof insulation wrapped in air control membrane
- air and vapor control mambrane
- corrugated steel decking filled with insulation
- HE 450 A steel beam

HE 450 A steel beam



1

17200+

16100+

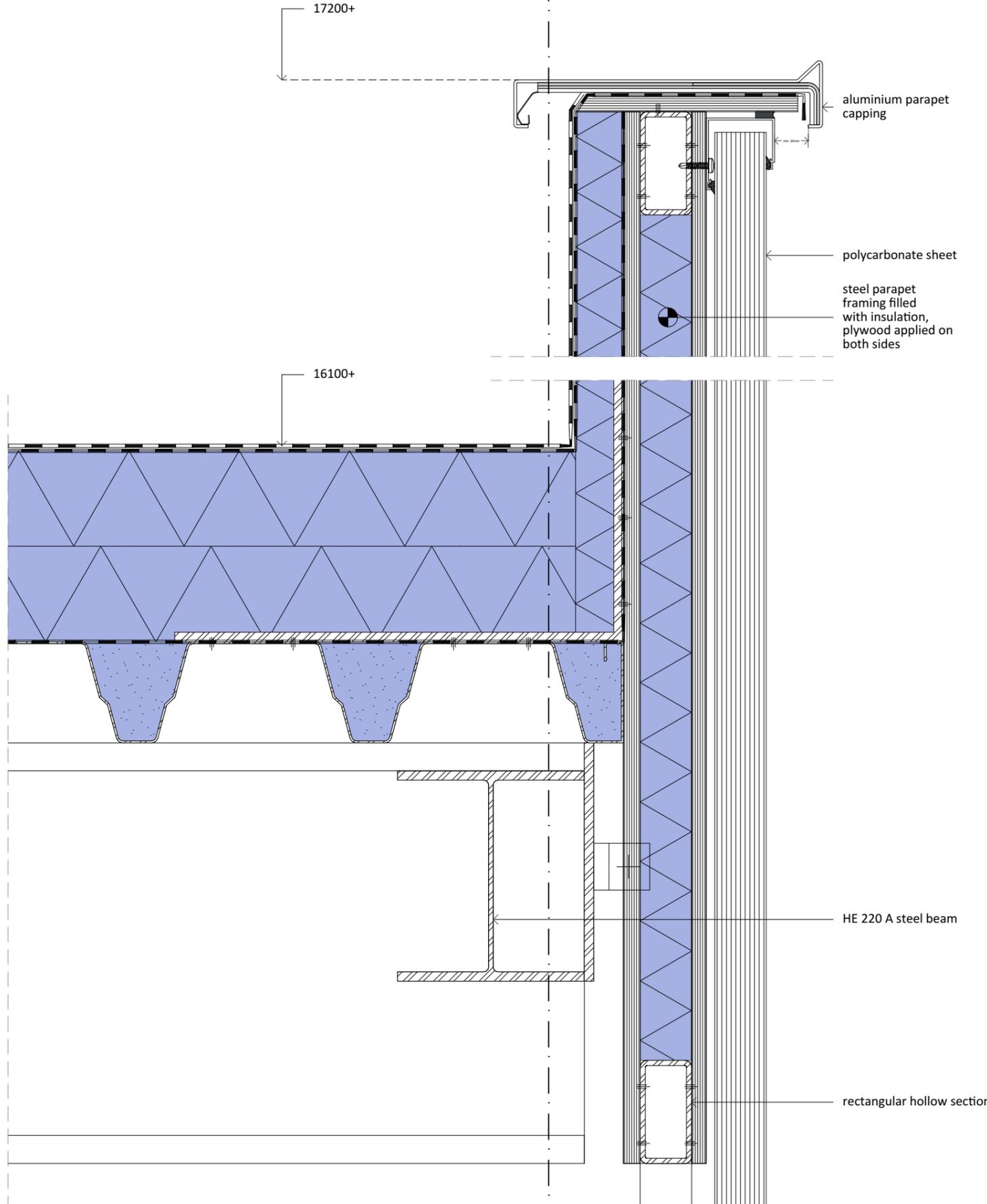
aluminium parapet capping

polycarbonate sheet

steel parapet framing filled with insulation, plywood applied on both sides

HE 220 A steel beam

rectangular hollow section



3

Floor inside-outside ( $R_c \geq 3,7m^2K/W$ )

- raised access floor system, 150mm
- corrugated steel decking filled with concrete, 165mm
- HE 450 A steel beam
- insulated ceiling system with timber cladding (insulation is wrapped in membrane)

underfloor heating system

11000+

rectangular hollow section

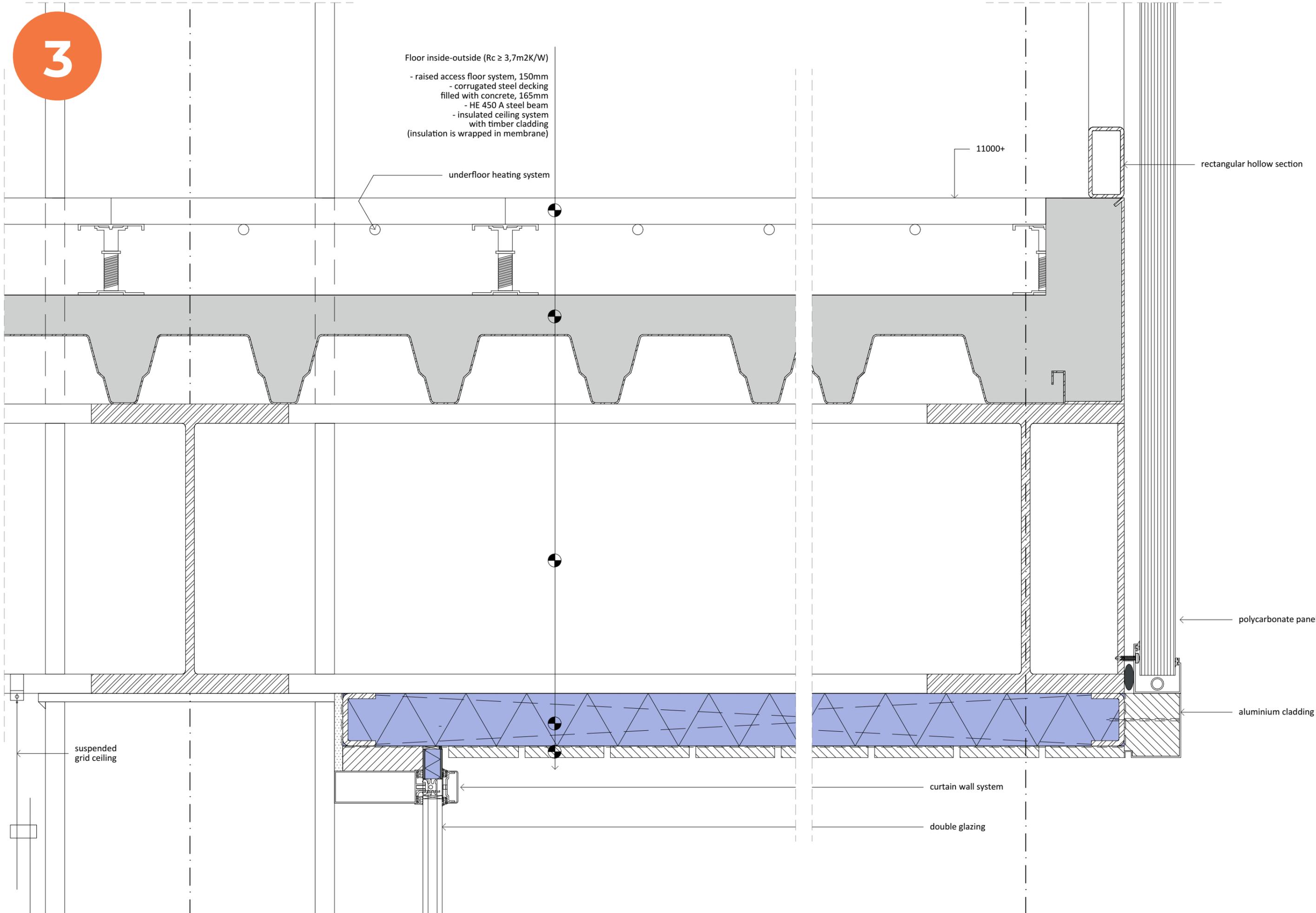
polycarbonate panel

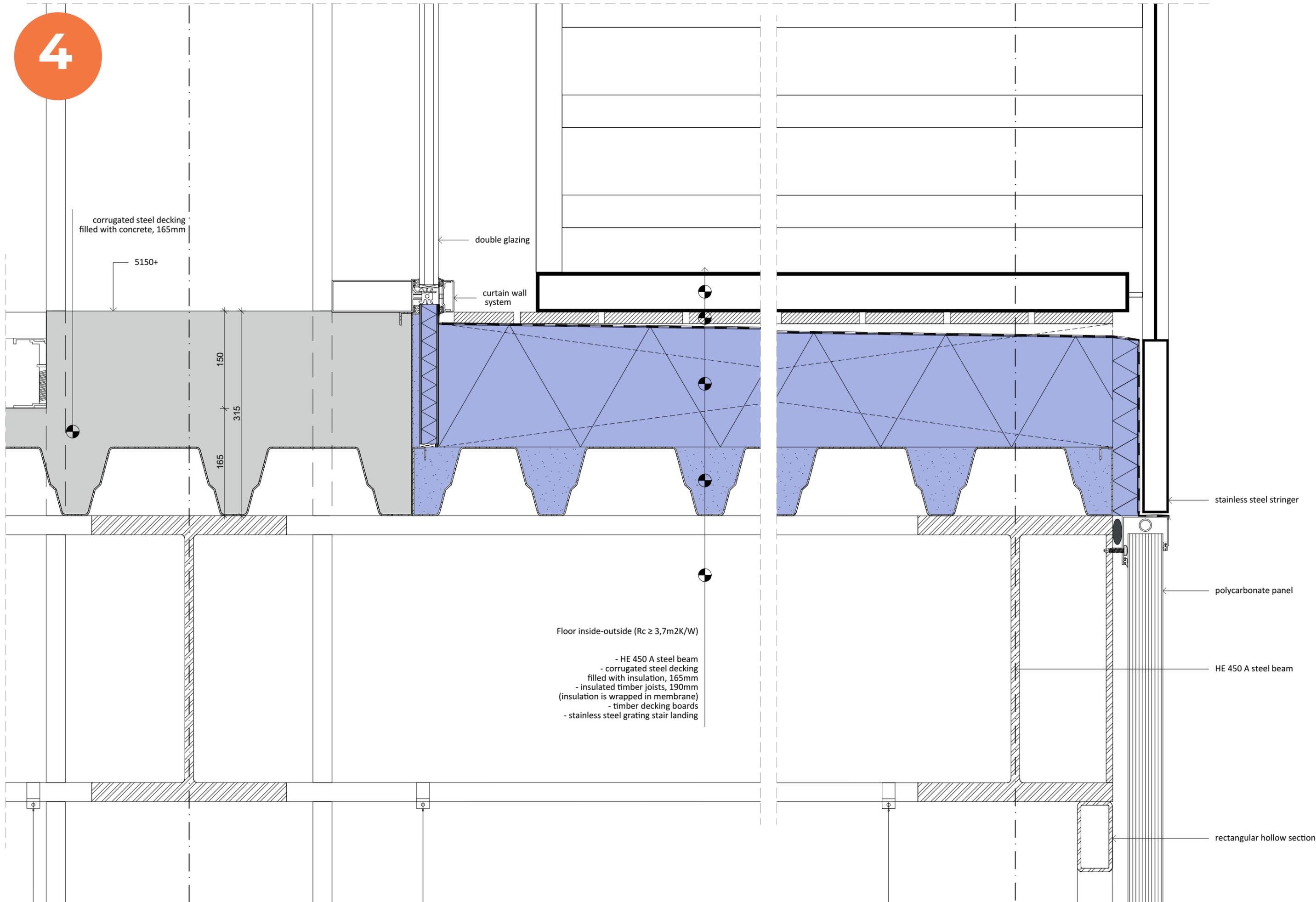
aluminium cladding

suspended grid ceiling

curtain wall system

double glazing



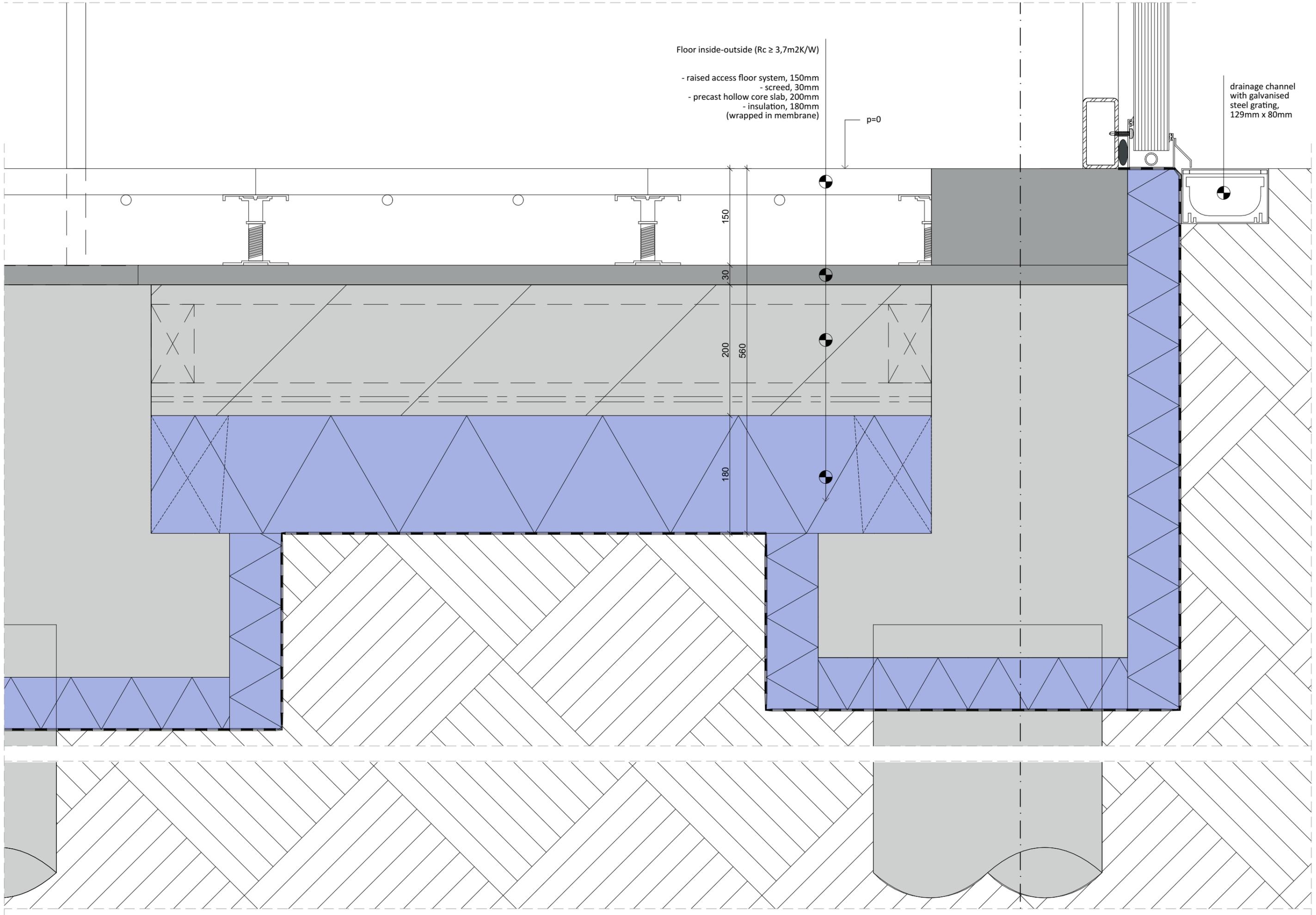


Floor inside-outside ( $R_c \geq 3,7m^2K/W$ )

- raised access floor system, 150mm
- screed, 30mm
- precast hollow core slab, 200mm
- insulation, 180mm (wrapped in membrane)

p=0

drainage channel with galvanised steel grating, 129mm x 80mm



6

D

1.45

1.800

5.400 (between D and E)

188

curtain wall system

timber decking boards

double doors with double glazing

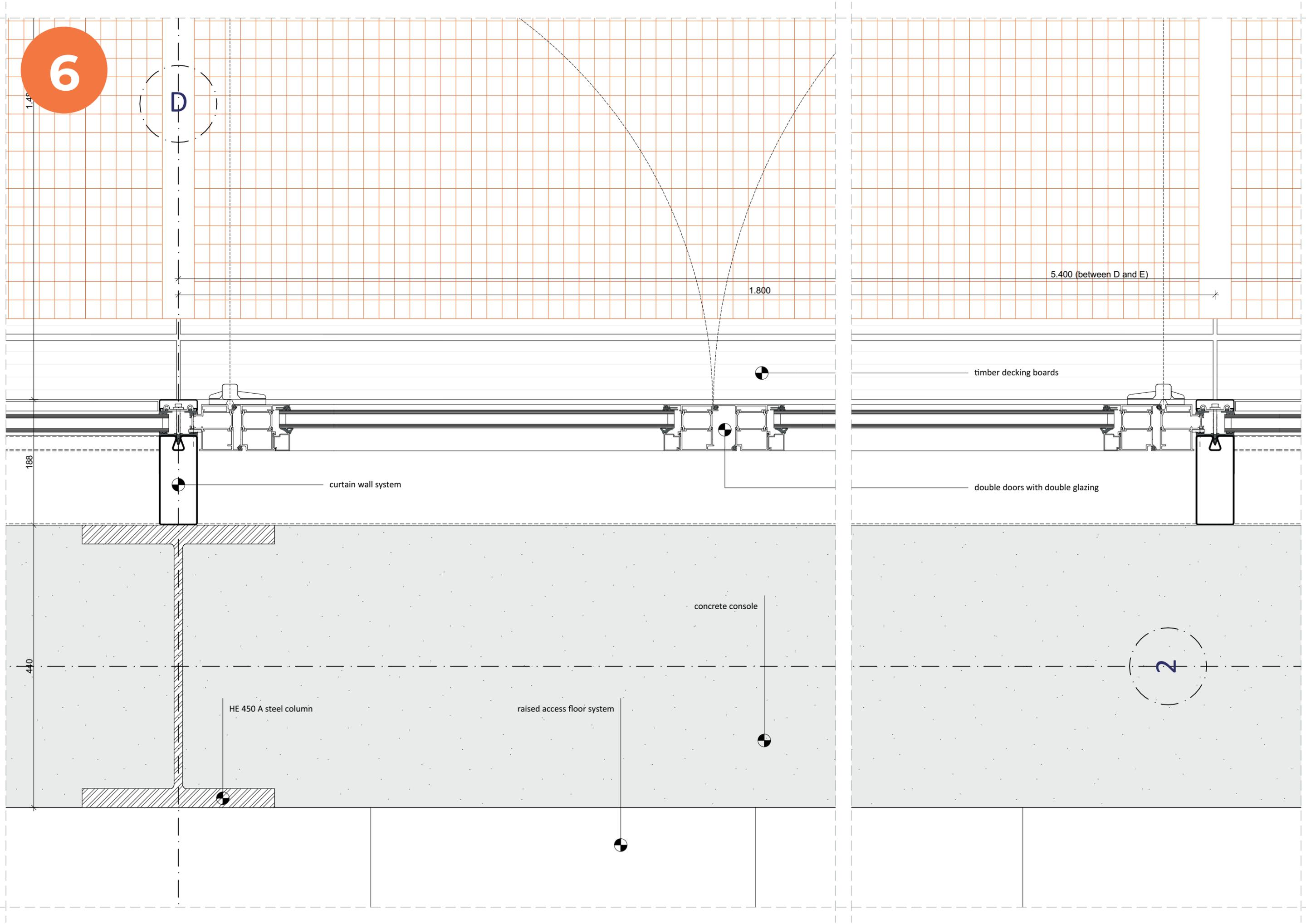
440

HE 450 A steel column

concrete console

raised access floor system

2

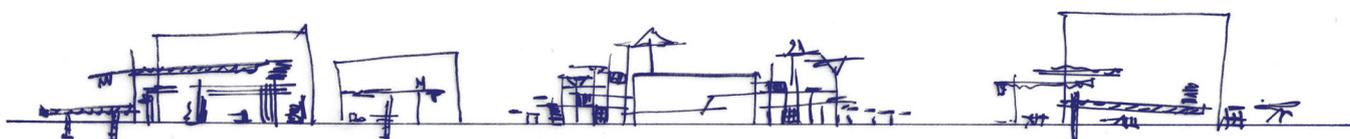


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The End.