Persistent Architecture

Sustainability

Compared to a lifespan of 50 years on average, a building lifespan of 80 years reduces environmental impact by 29%, 100 years by 38%, and 120 years by 44%, all in relation to a lifespan of 50 years.

Collective city

In almost all European cities there are large palaces, building complexes, or agglomerations that constitute whole pieces of the city and **whose function now is no longer the original one.** When one visits a monument of this type, for example the Palazzo della Ragione in Padua, one is always surprised by a series of questions intimately associated with it. In particular, one is struck by **the multiplicity of functions that a building of this type can contain over time and how these functions are entirely independent of the form**. At the same time, it is precisely the form that impresses us; we live it and experience it, and in turn it structures the city.

Aldo Rossi, 1966

ALDO
ROSSI
01.06
29.09

01. Research

02. Site

03. Design

01. Research

Four case-studies

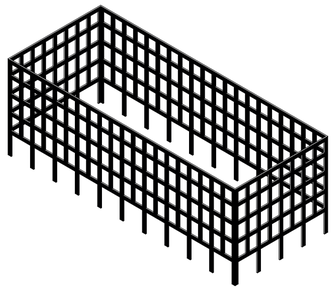
St. Jobsveem

Brooklyn Army Terminal

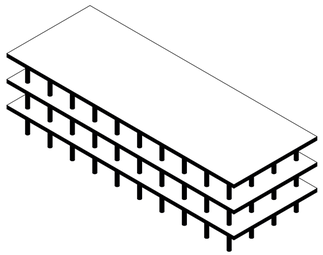
‘t Karregat

Nederlandsch Sportpark

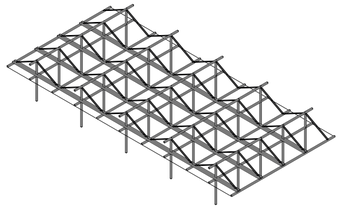
Four *frameworks*



Shell



Skeleton



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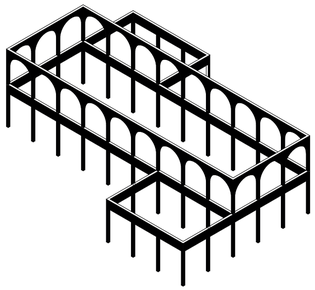


Agora

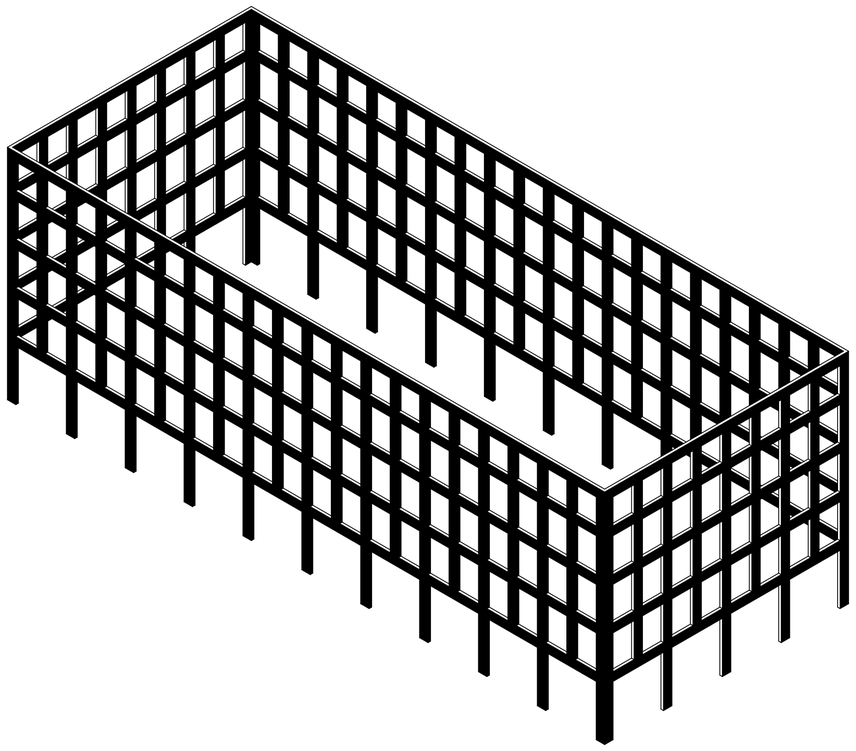
What essential characteristics contribute to the ability of a building to remain effective over time?

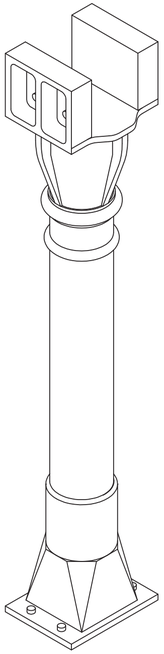
1. Technical fitness

2. Architectural articulation

3. Narrative

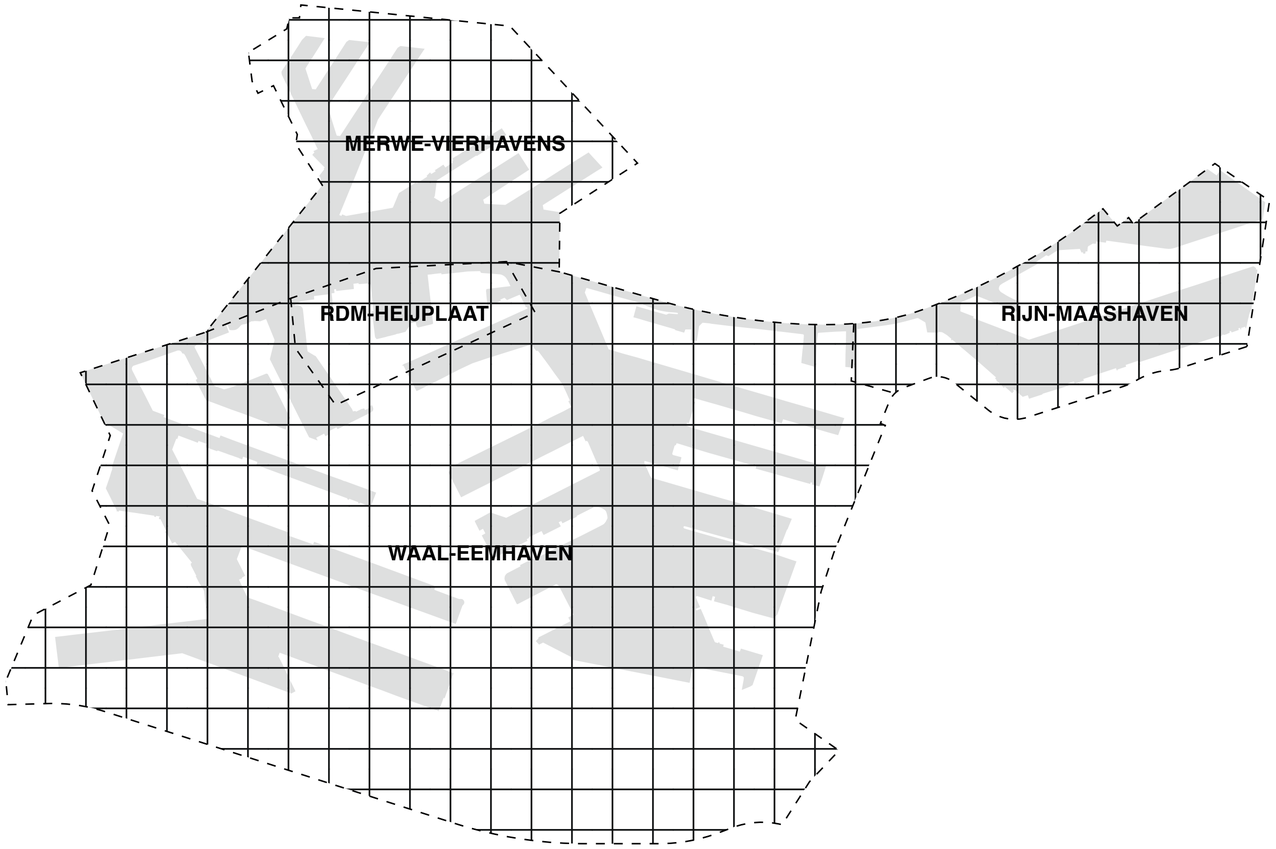
St. Jobsveem





S JOB I

02. Site


MERWE-VIERHAVENS
RDM-HEIJPLAAT
RIJN-MAASHAVEN
WAAL-EEMHAVEN

Development of new city district

3400-5000 housing units

200.000–288.000 m^2 workspace

Ambition

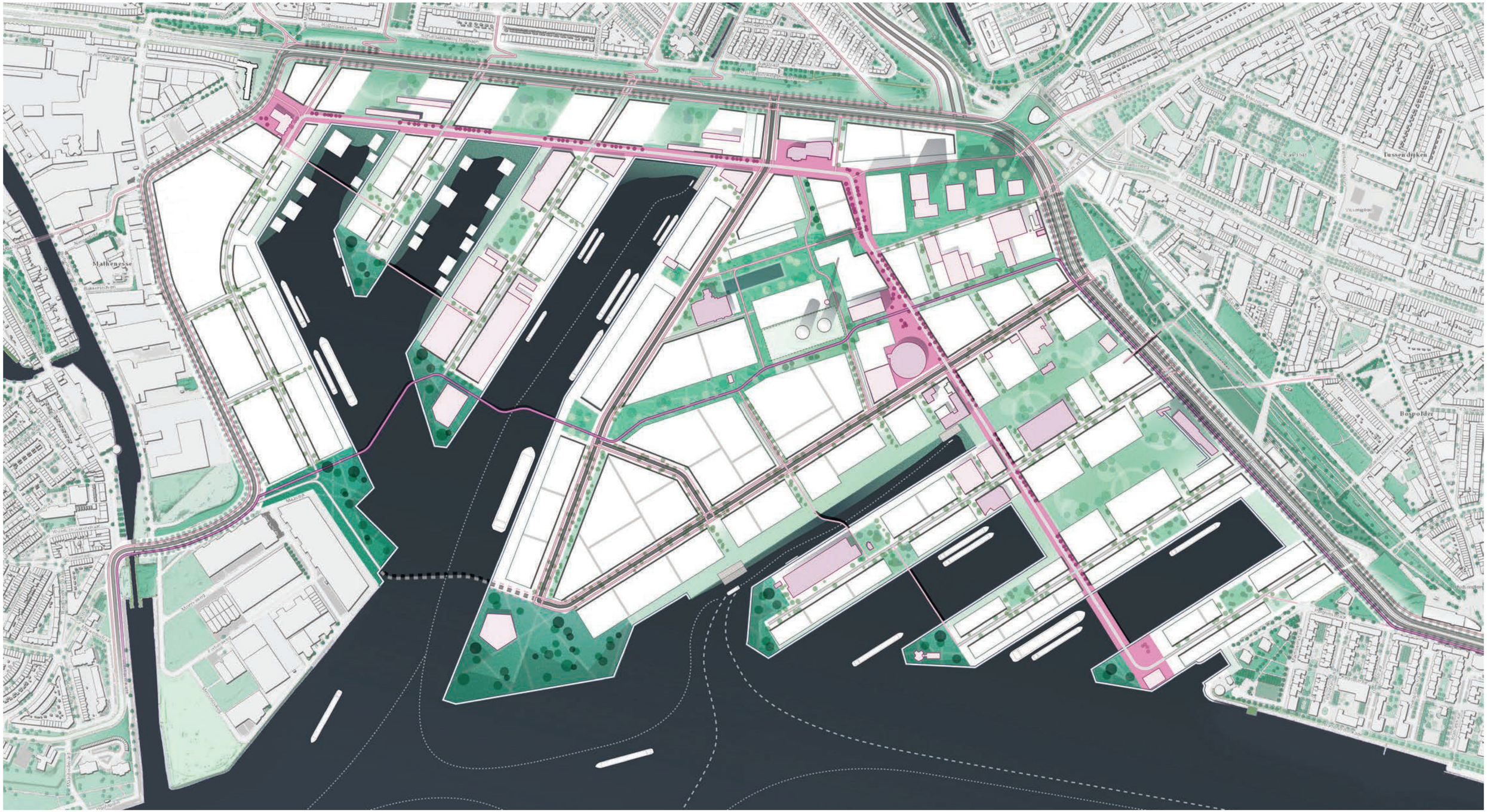
Creating a mixed environment combining both living and working

AVL
MUNDO

RS
EXIT
FTC

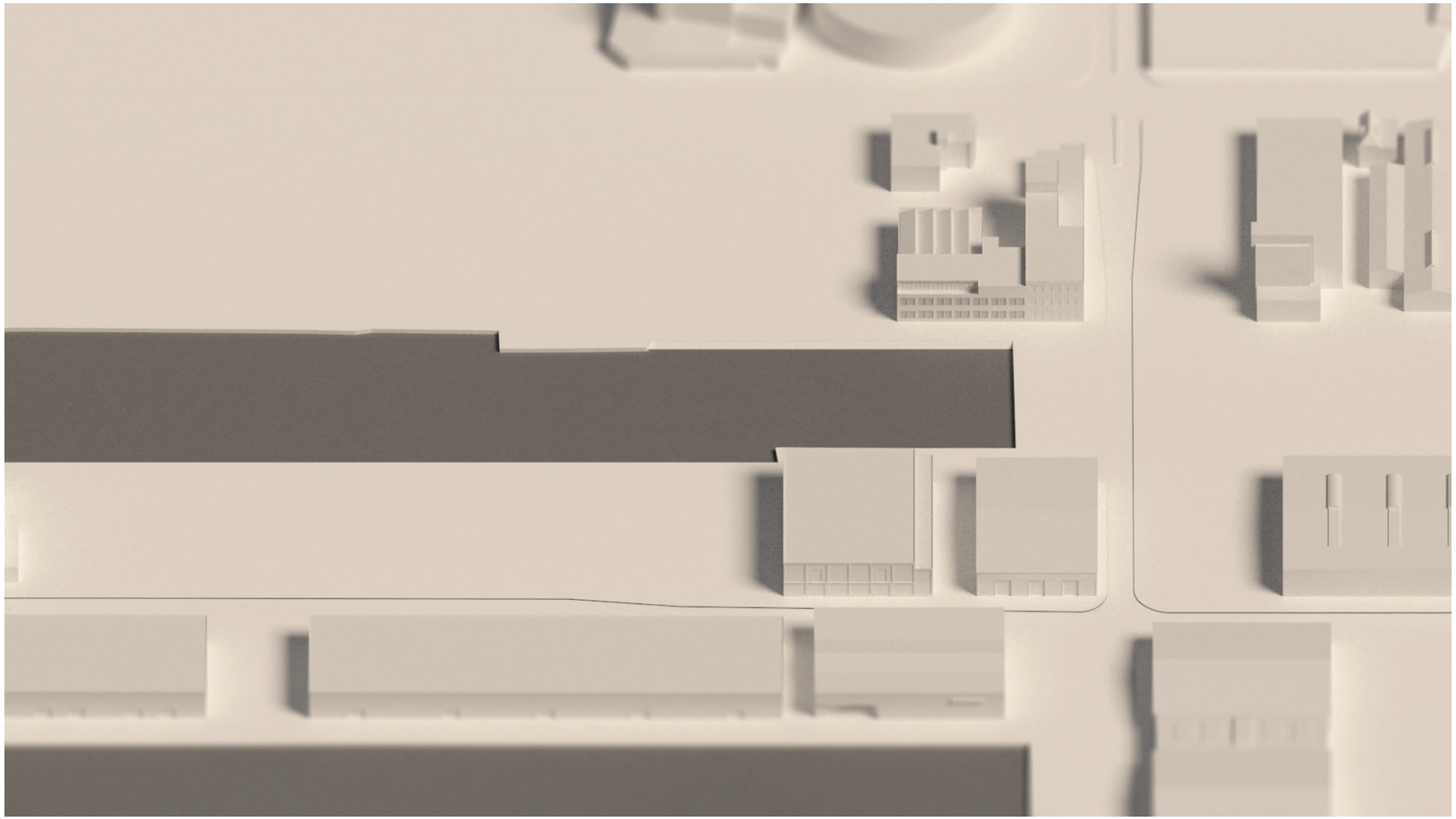
Challenges

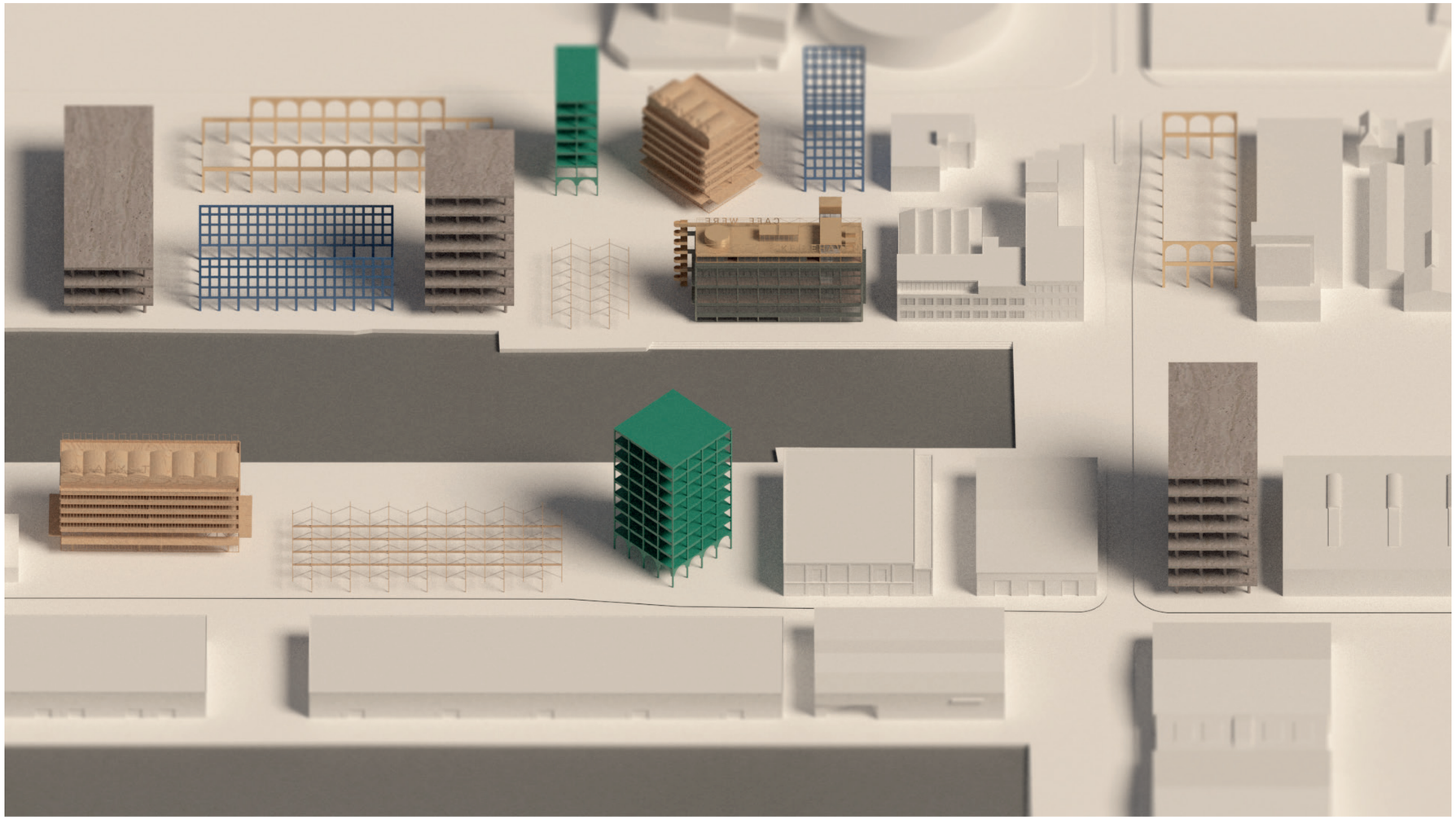
1. Pollution currently restricts a residential programme
2. Present state of the area: industrial site (no amenities)
3. Preserving current residents & identity

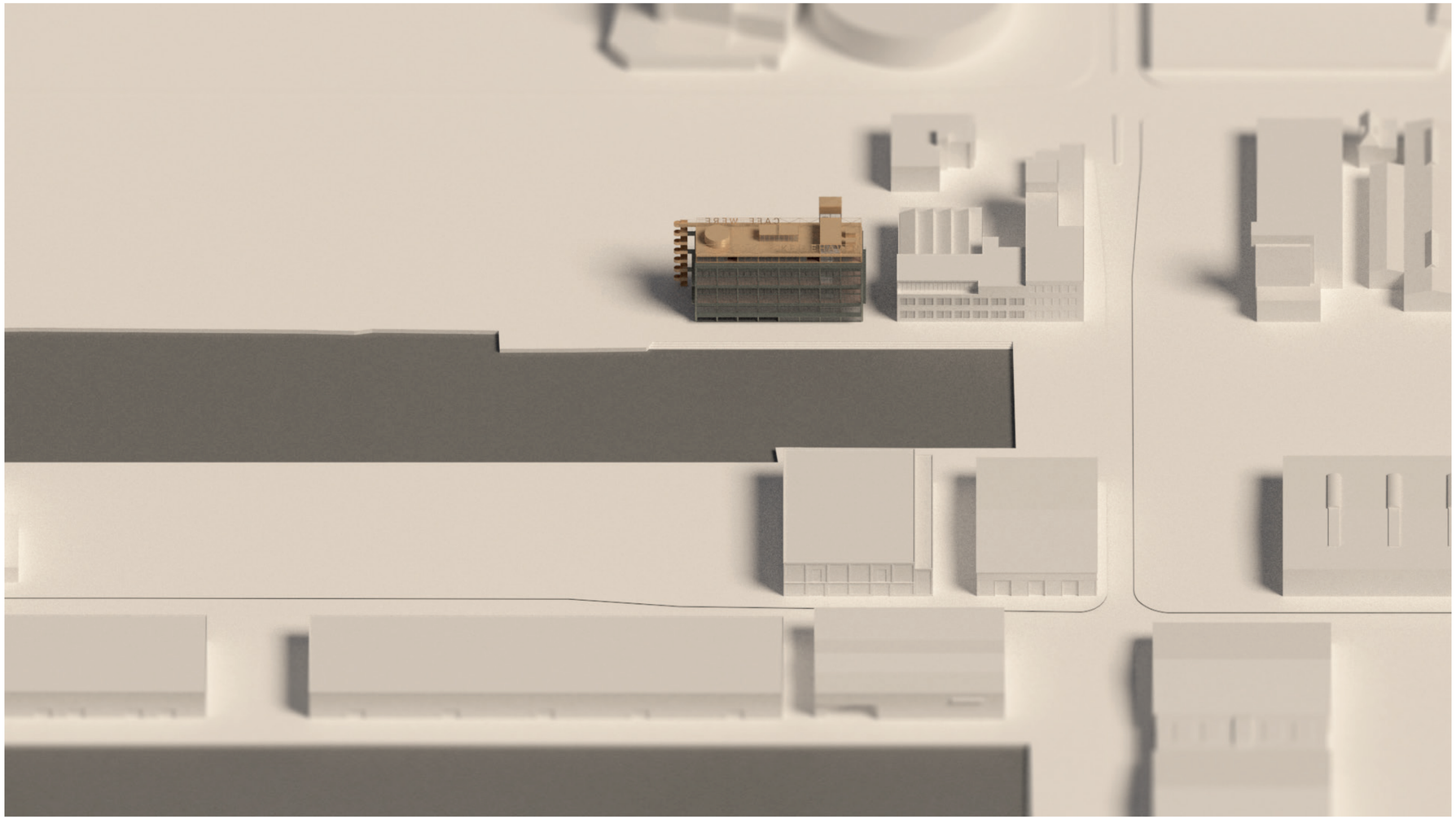

Mathenesse
Tussendijken
Bospolder

Flexibility on plan urban scale

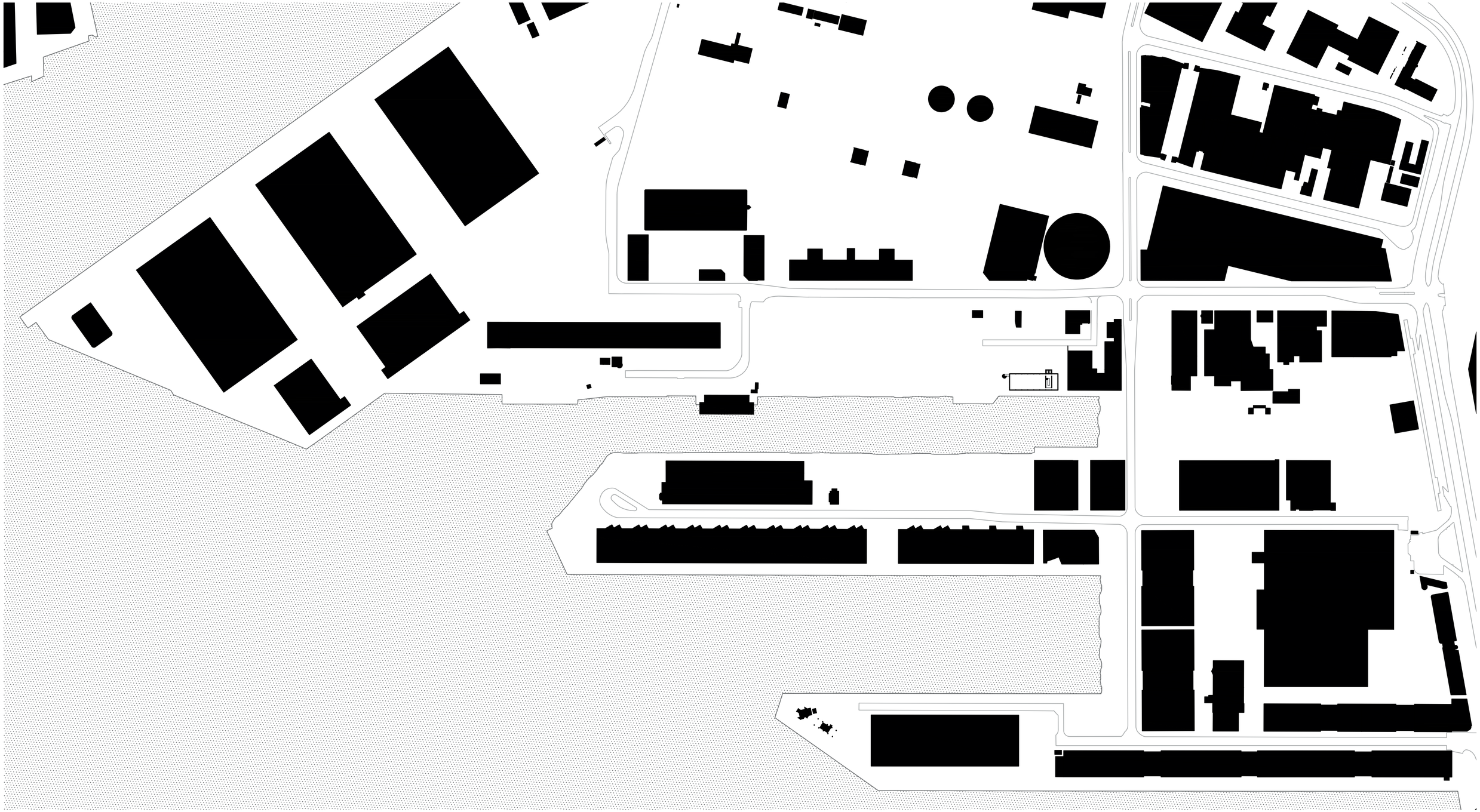
Flexibility on building scale

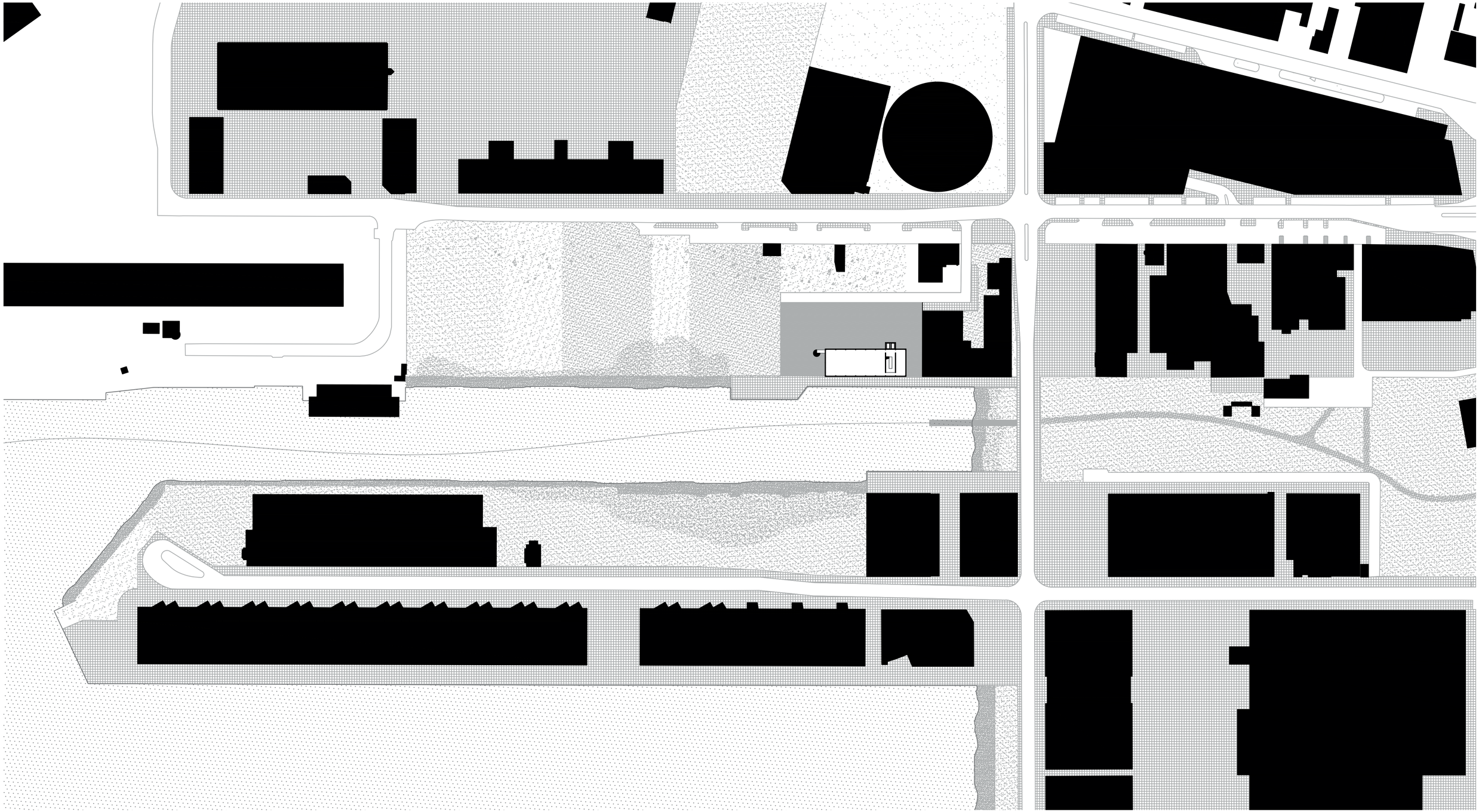




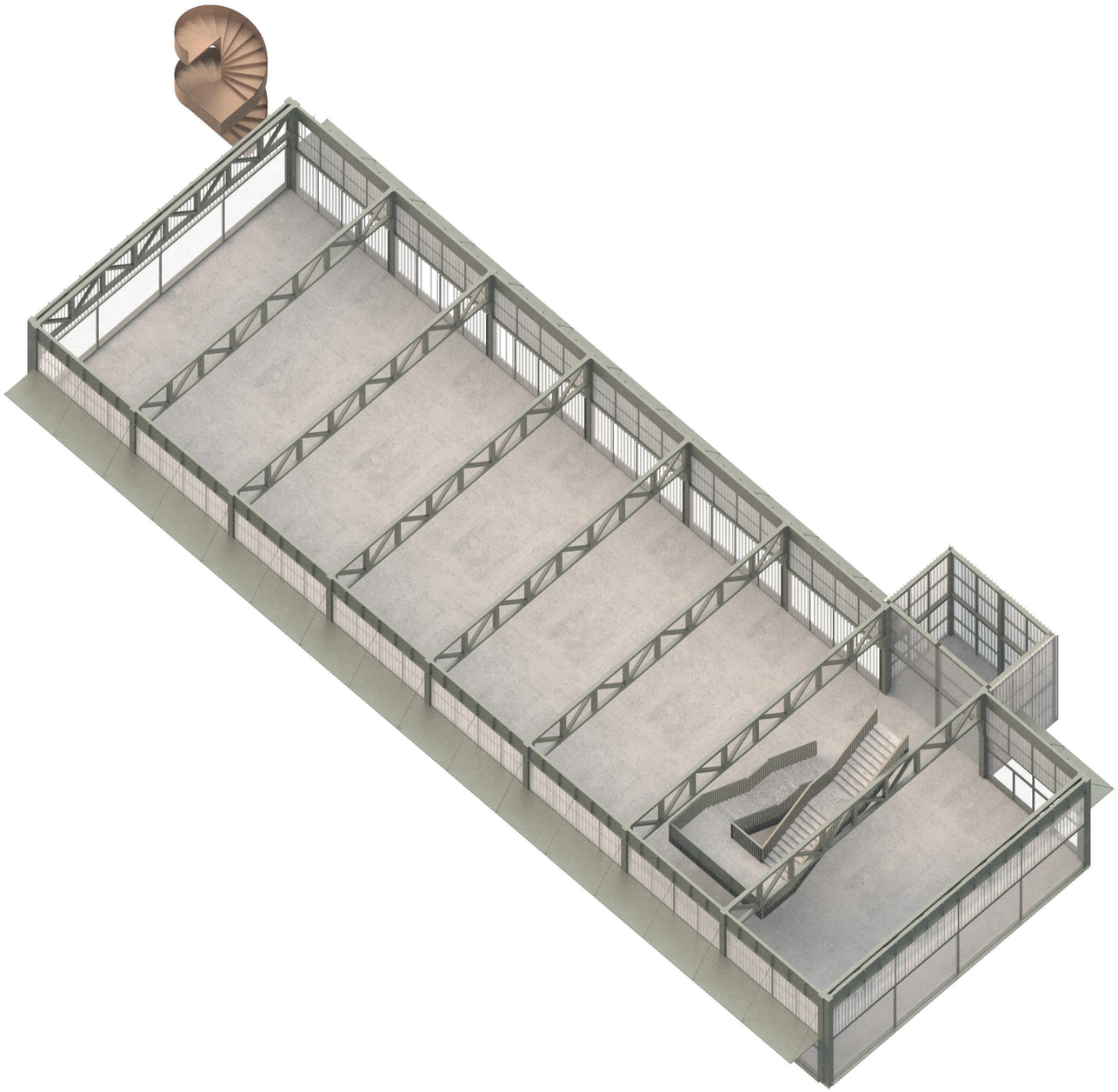


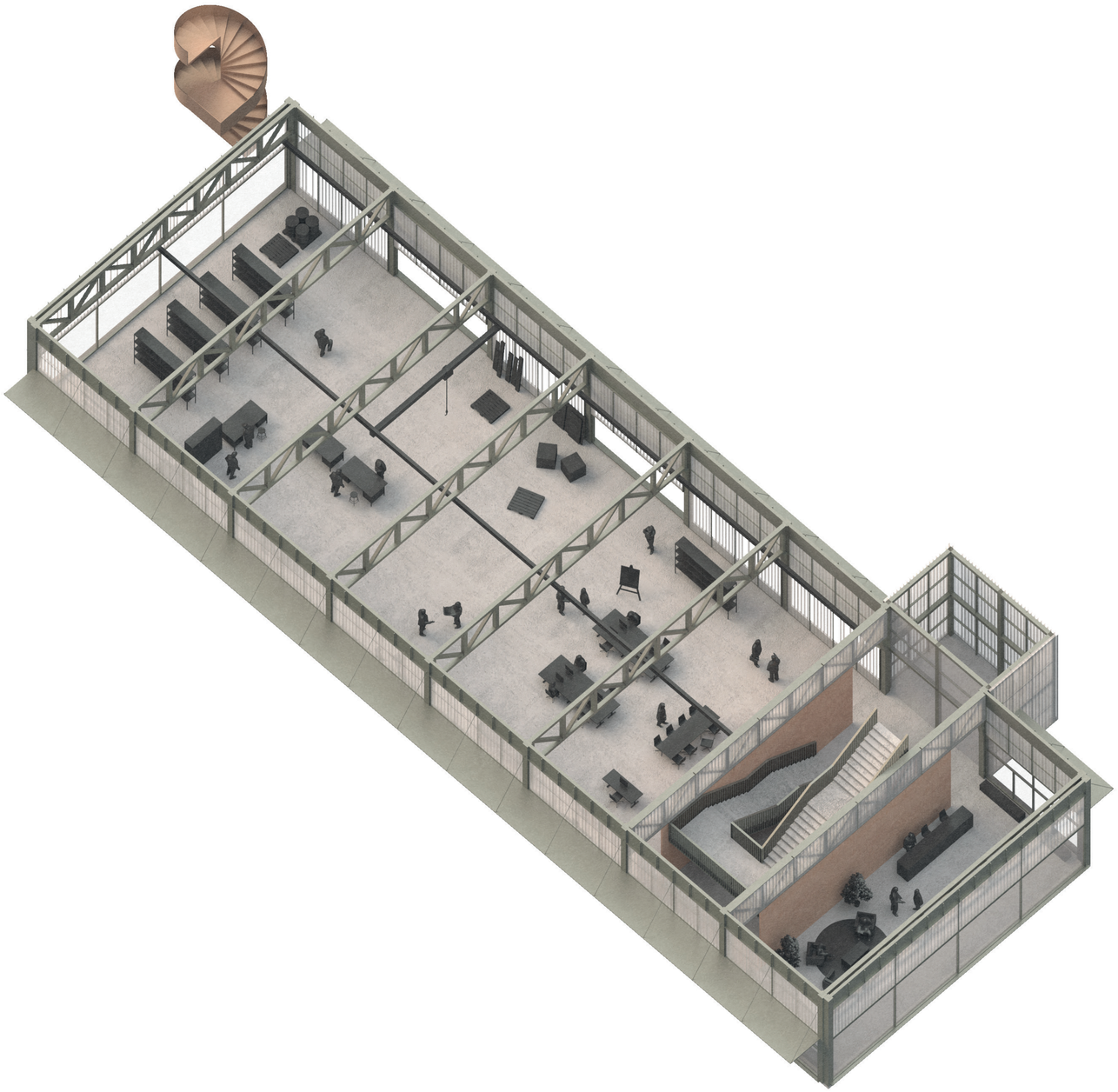
03. Design

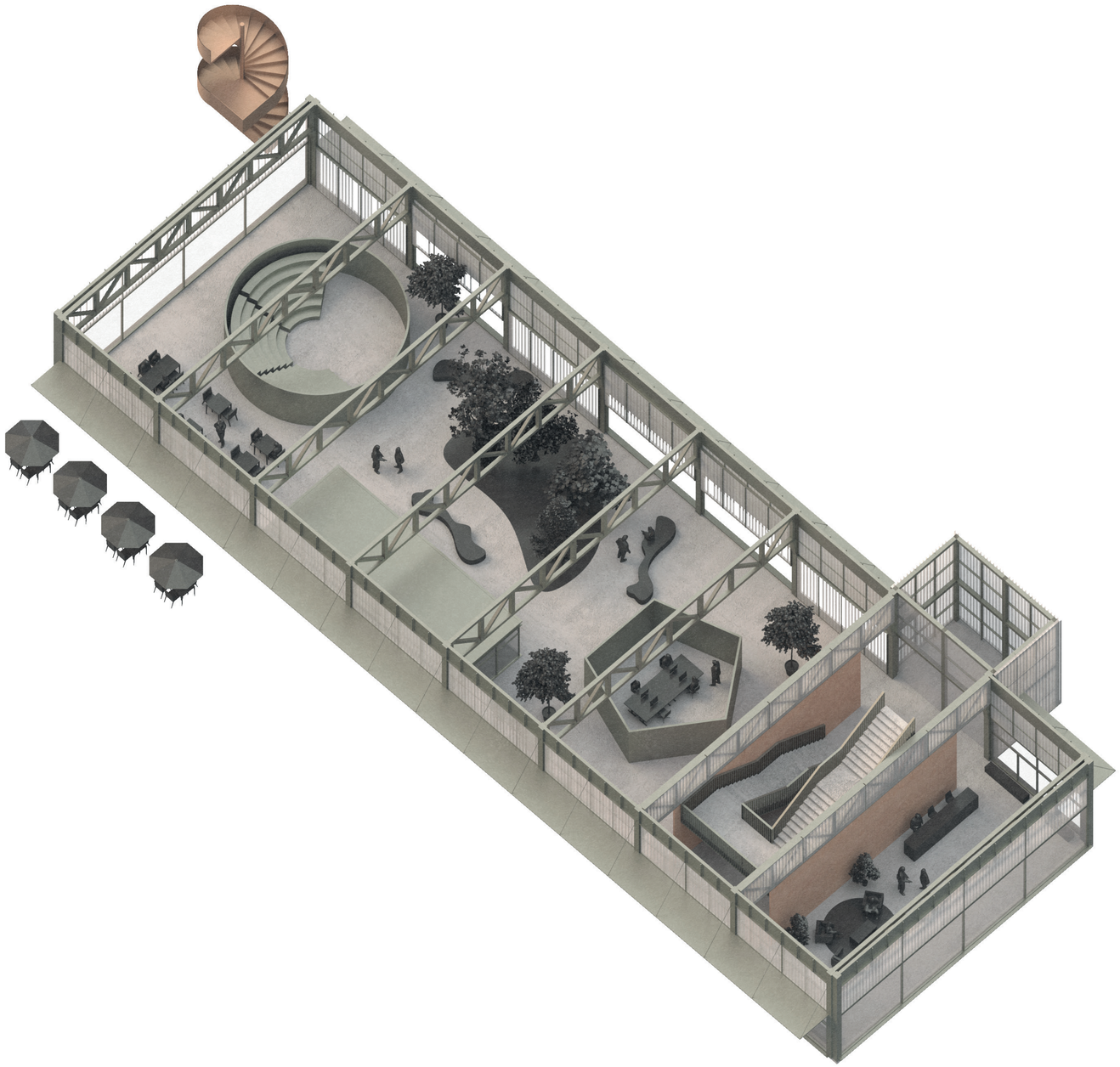


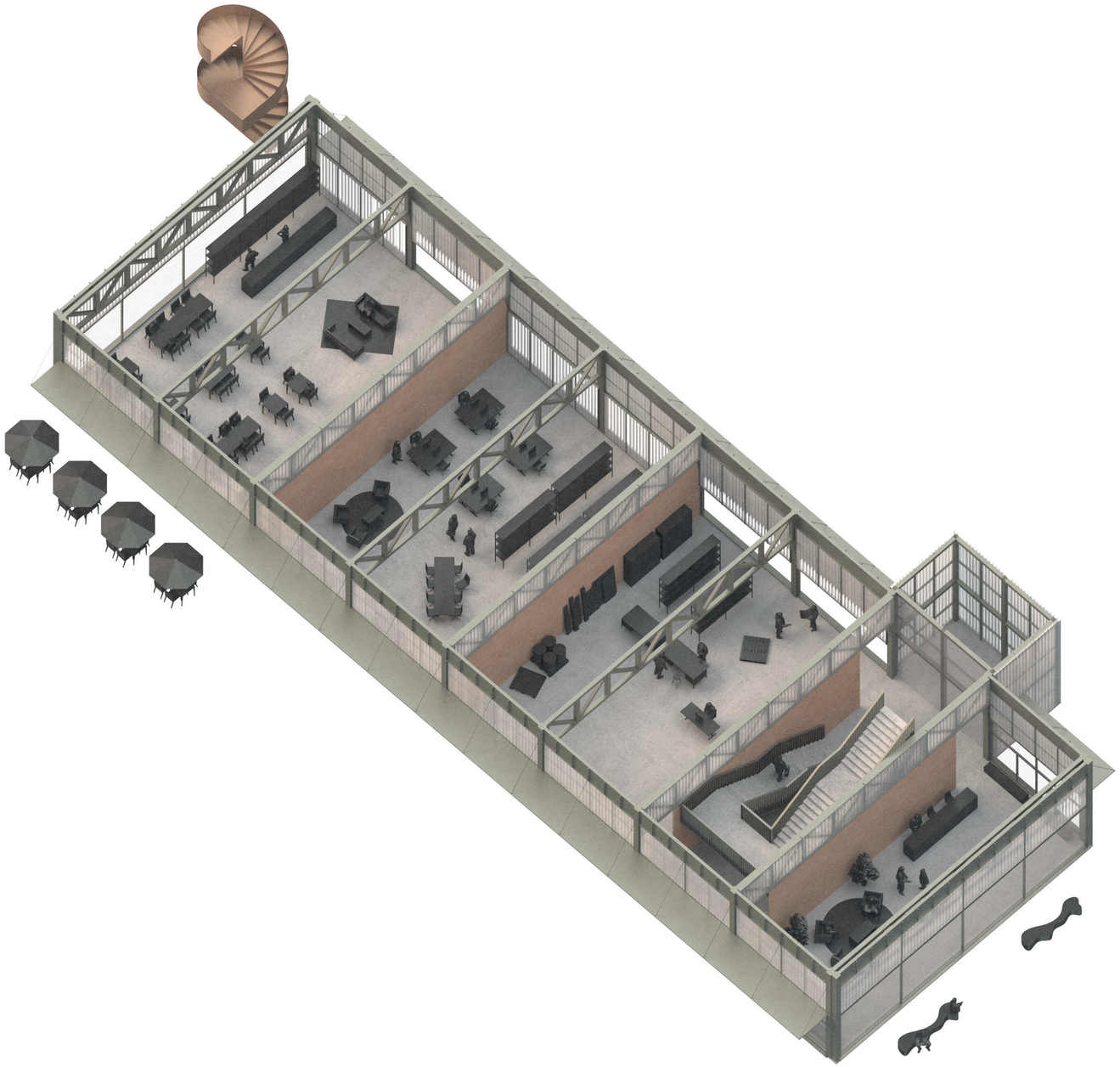


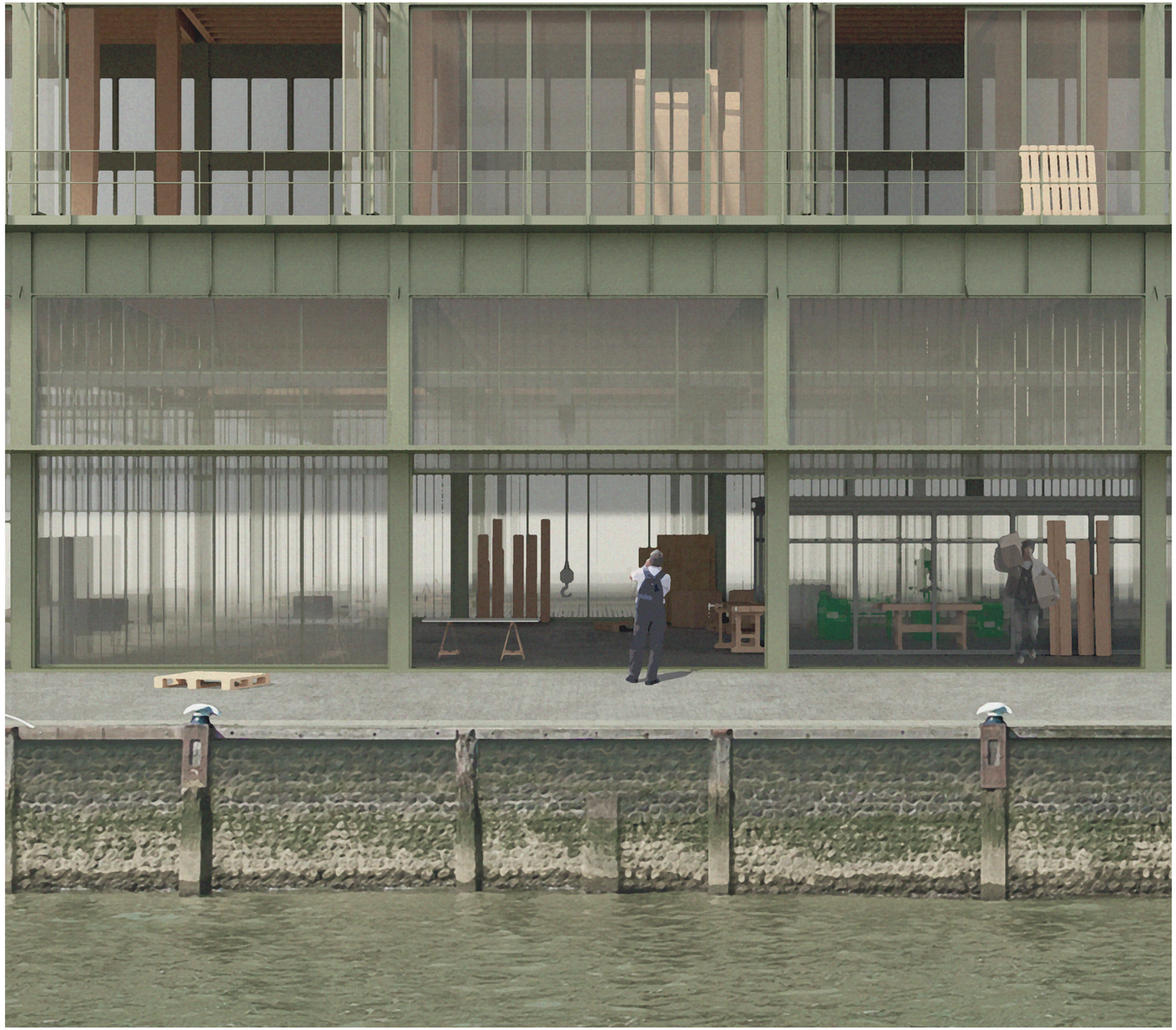
KEILERHALLEN

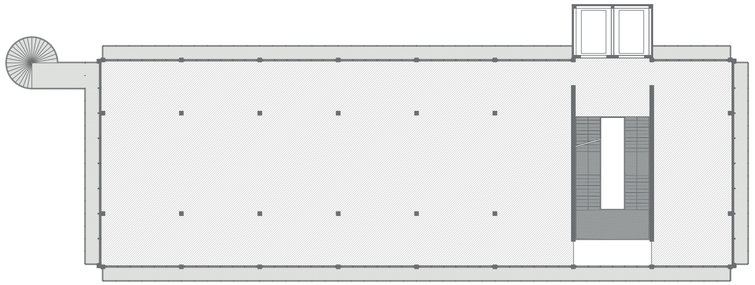












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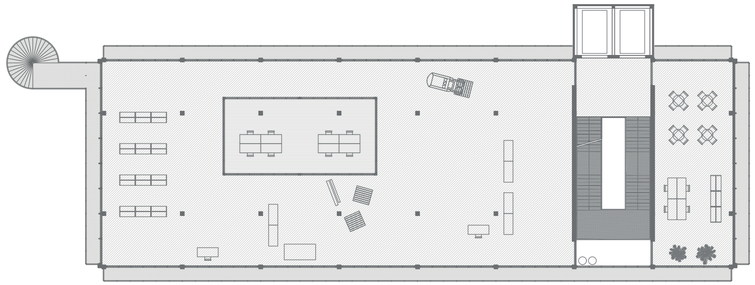
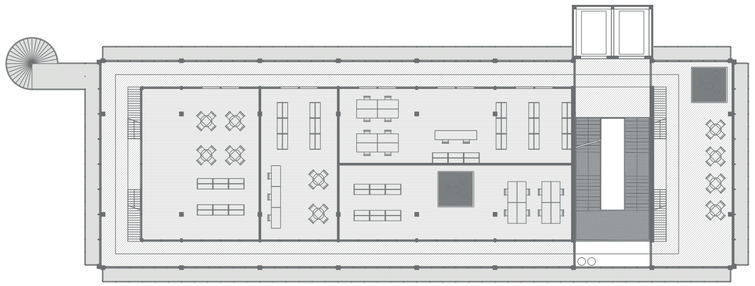


Workshop



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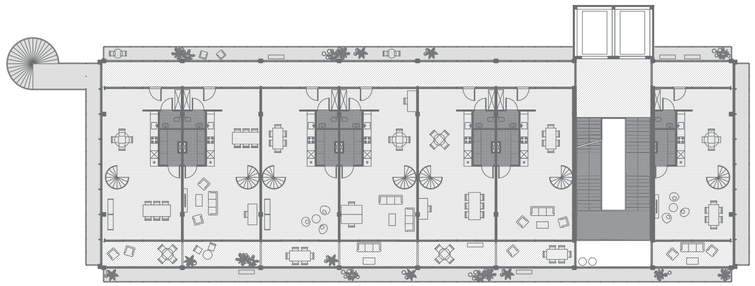

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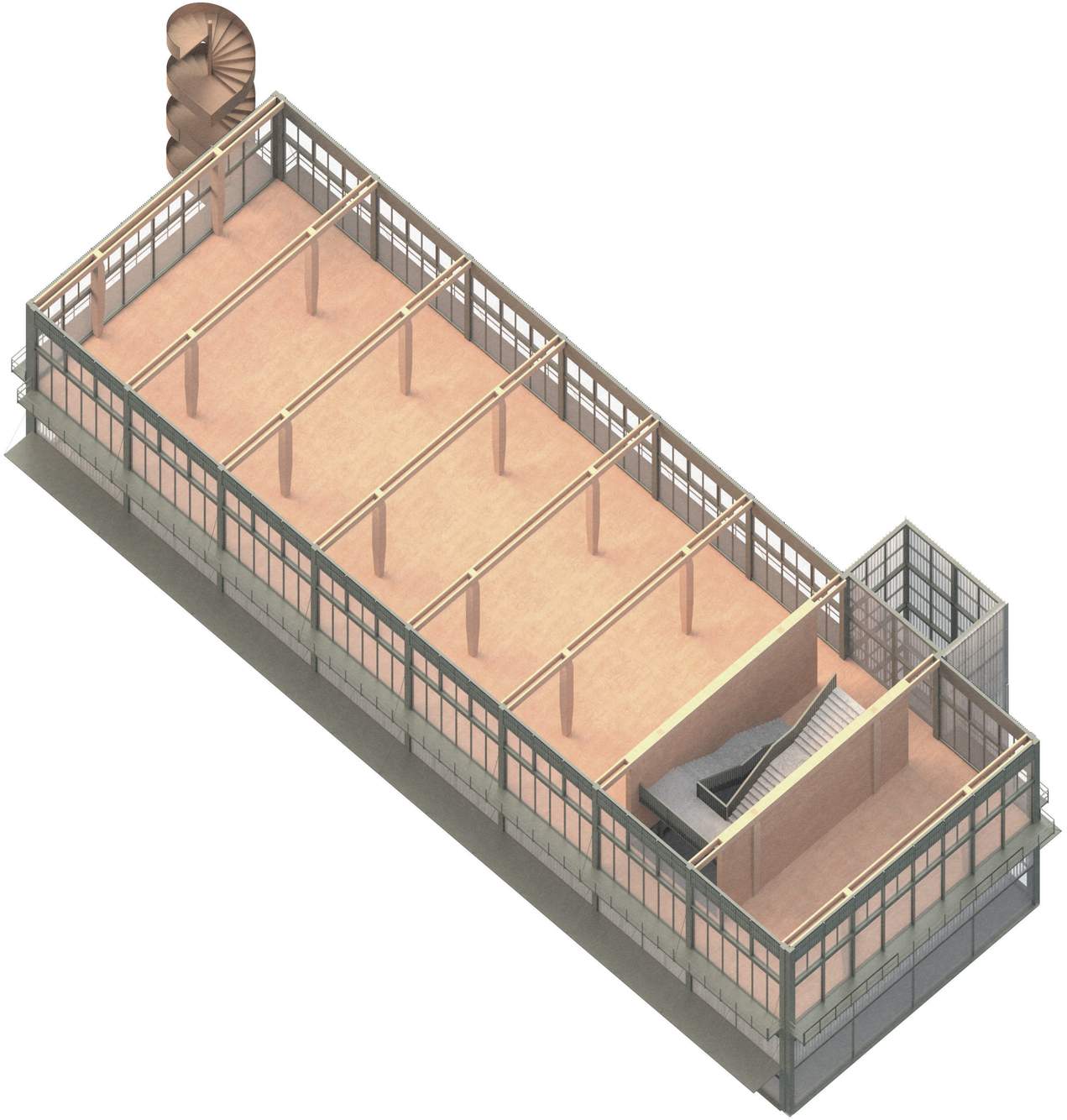

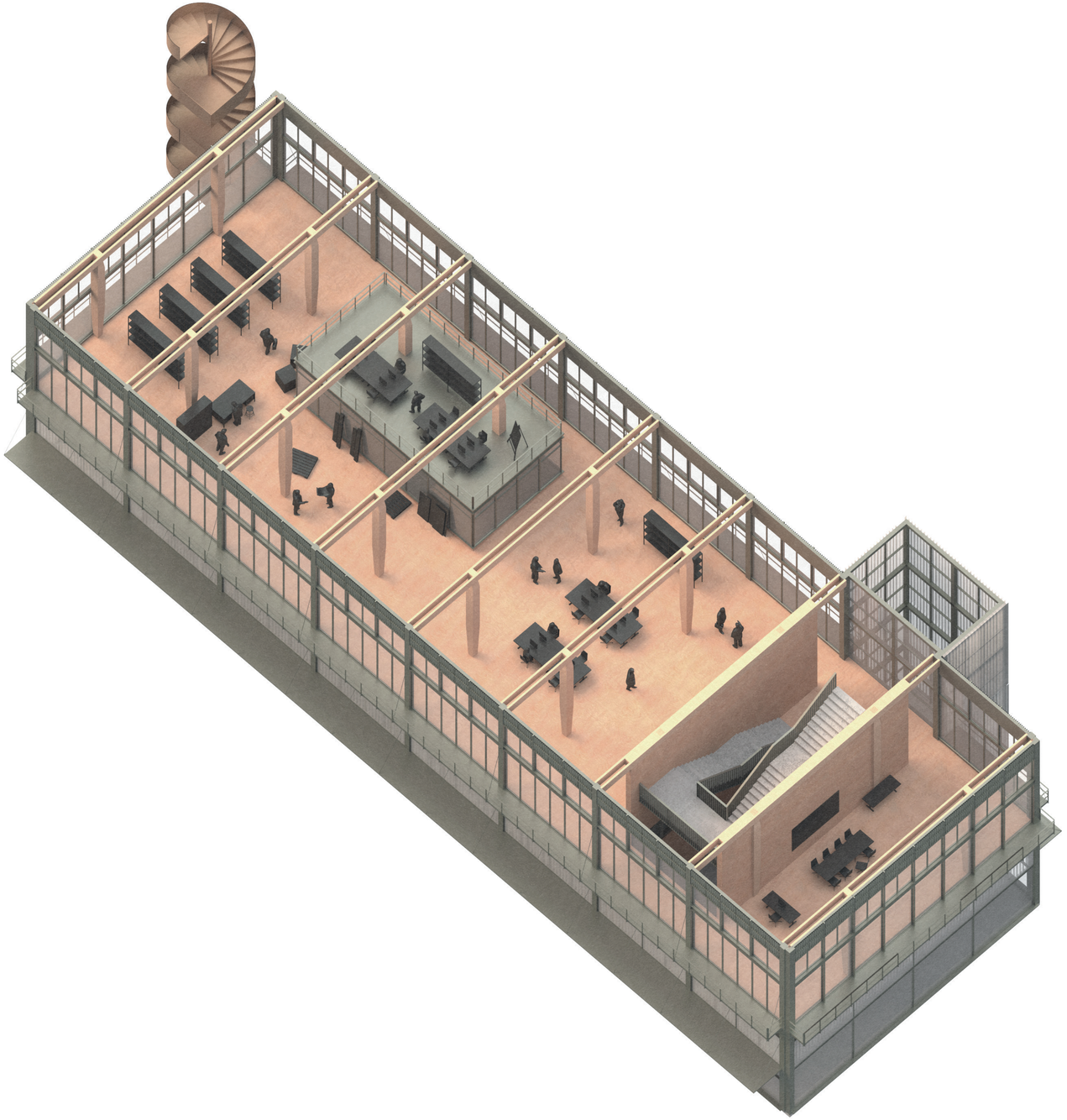

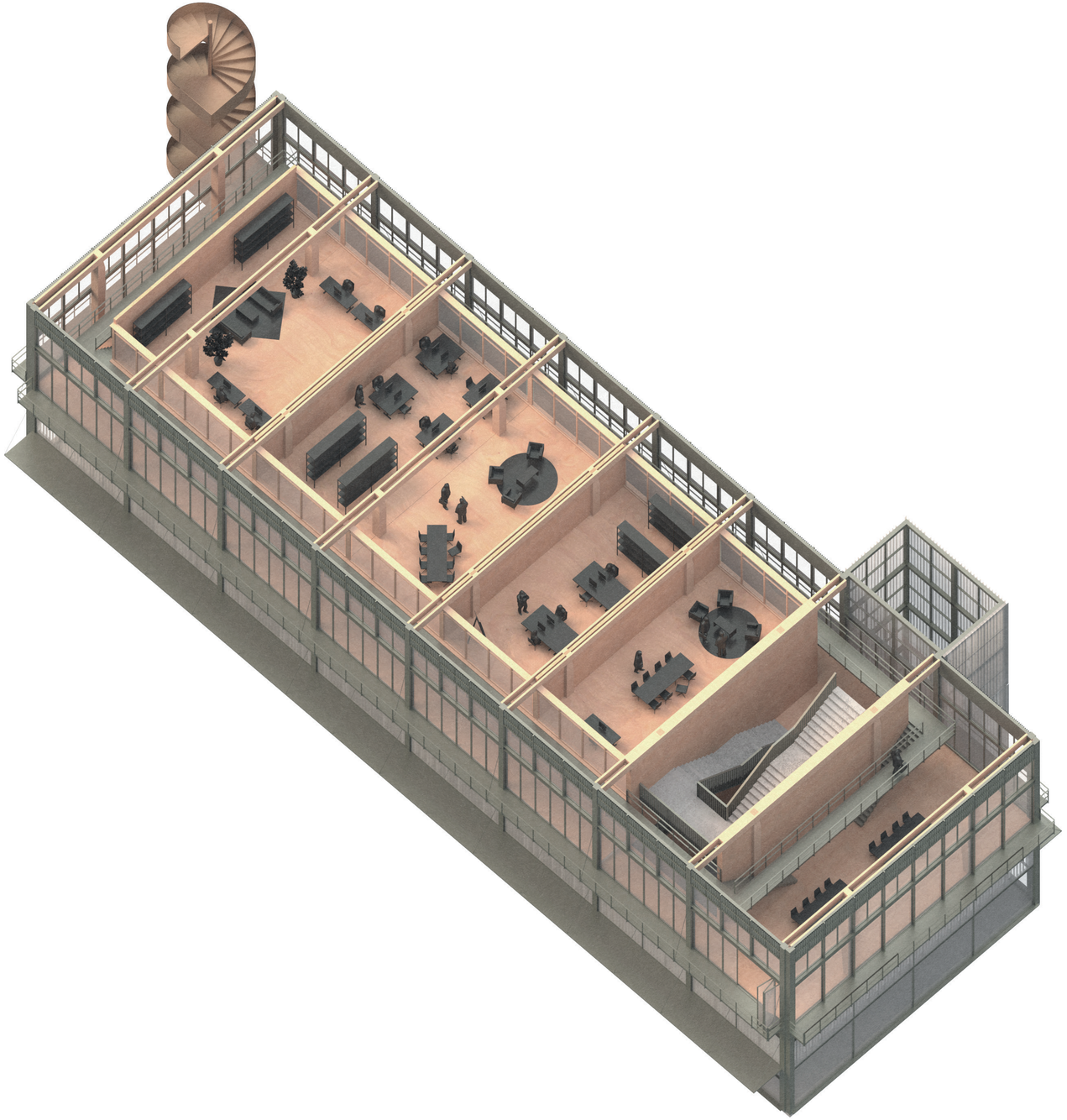

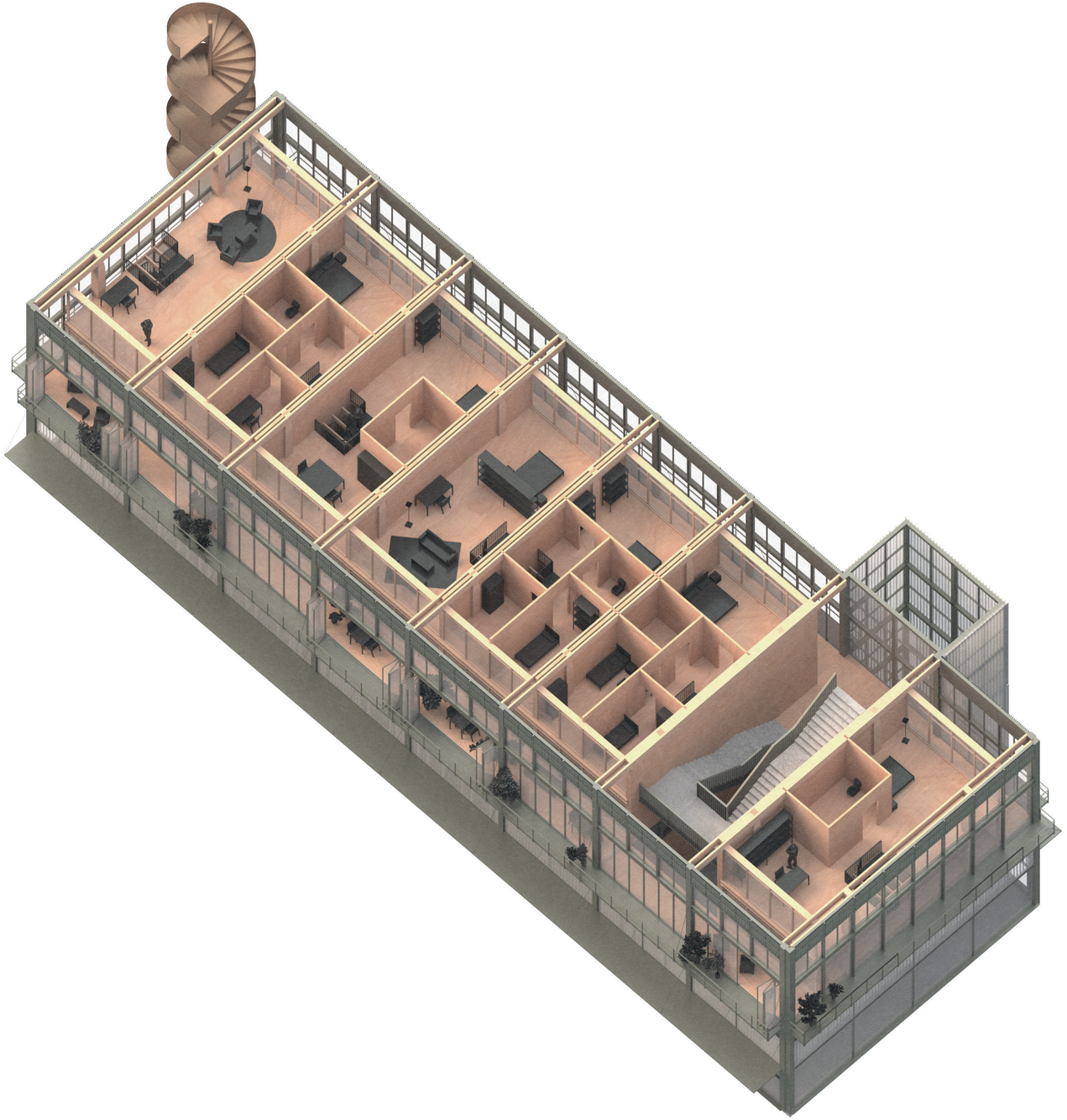

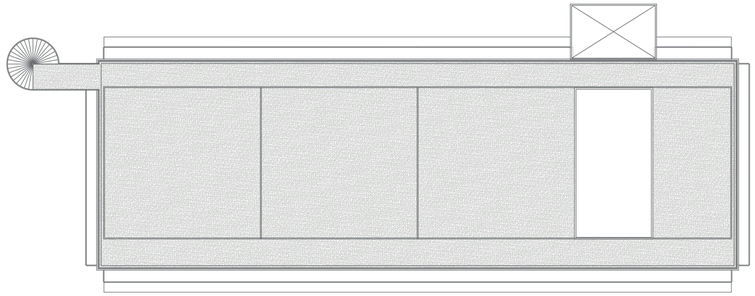

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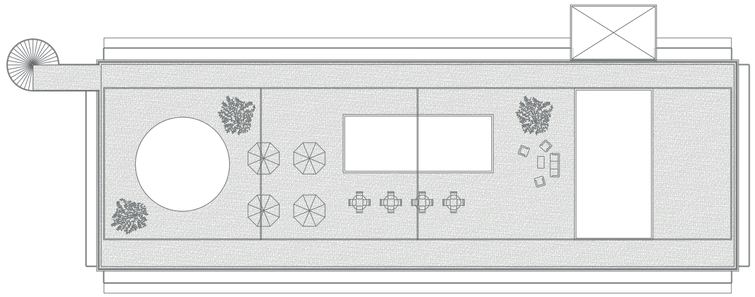
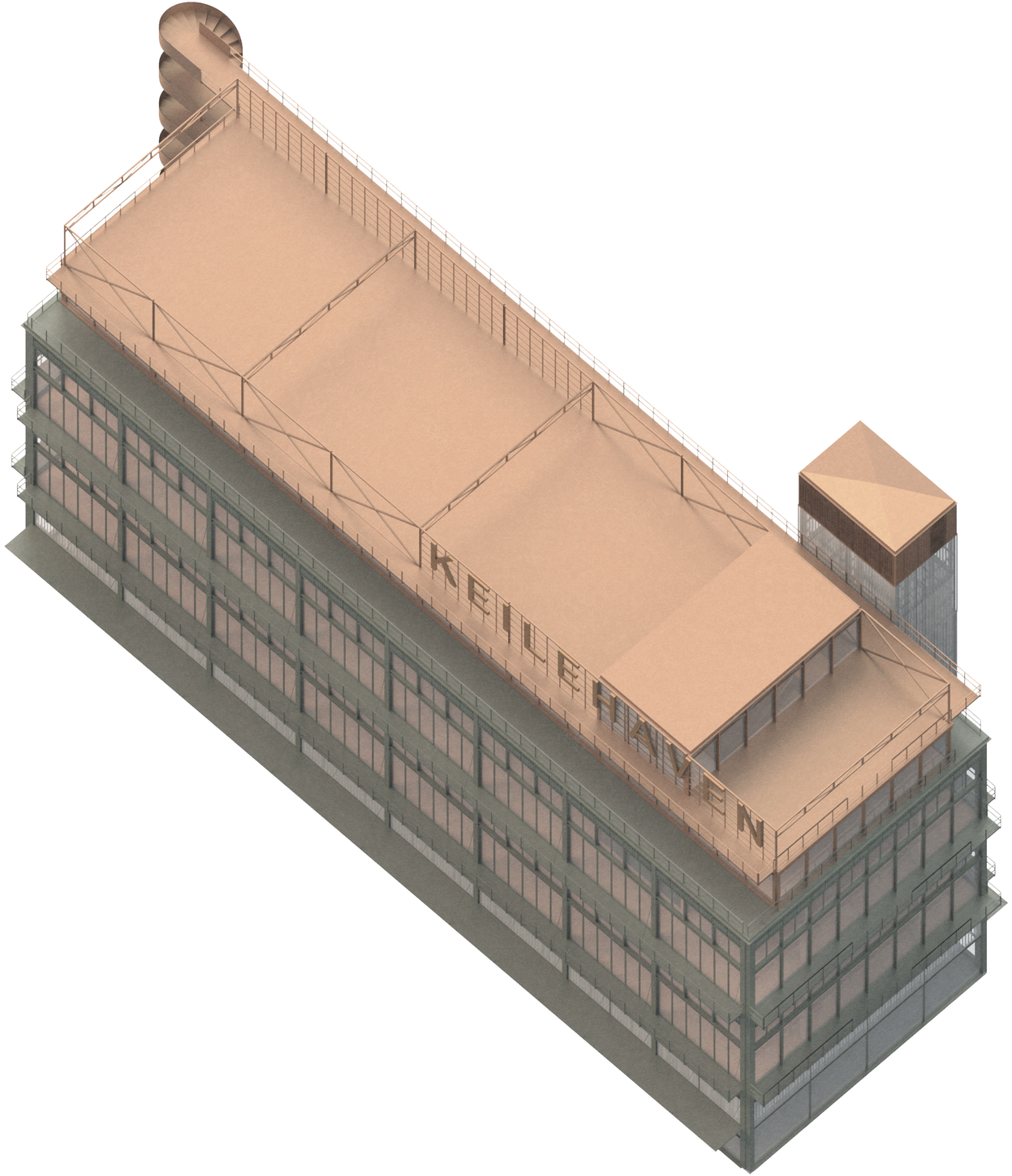


Polyvalent use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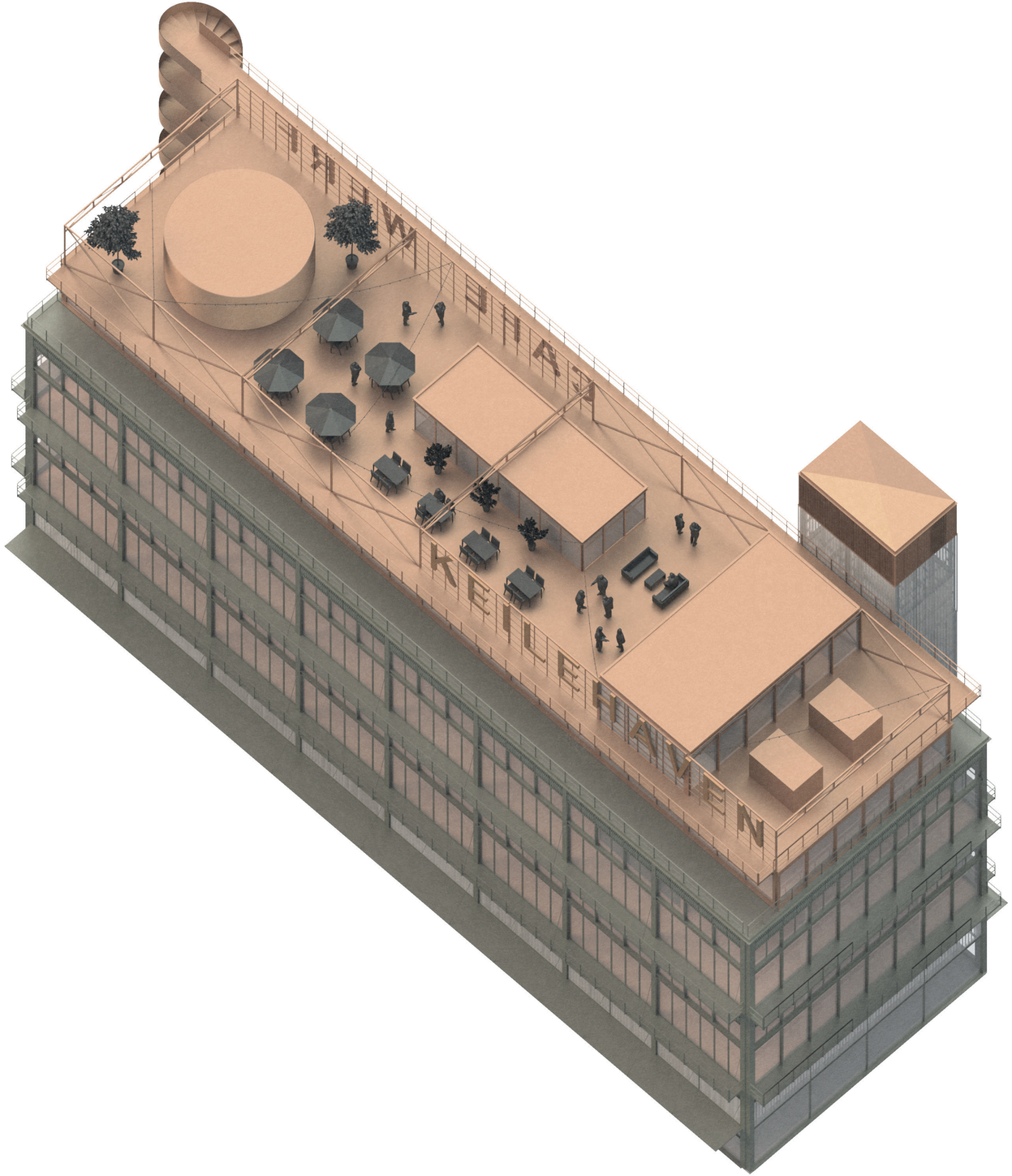
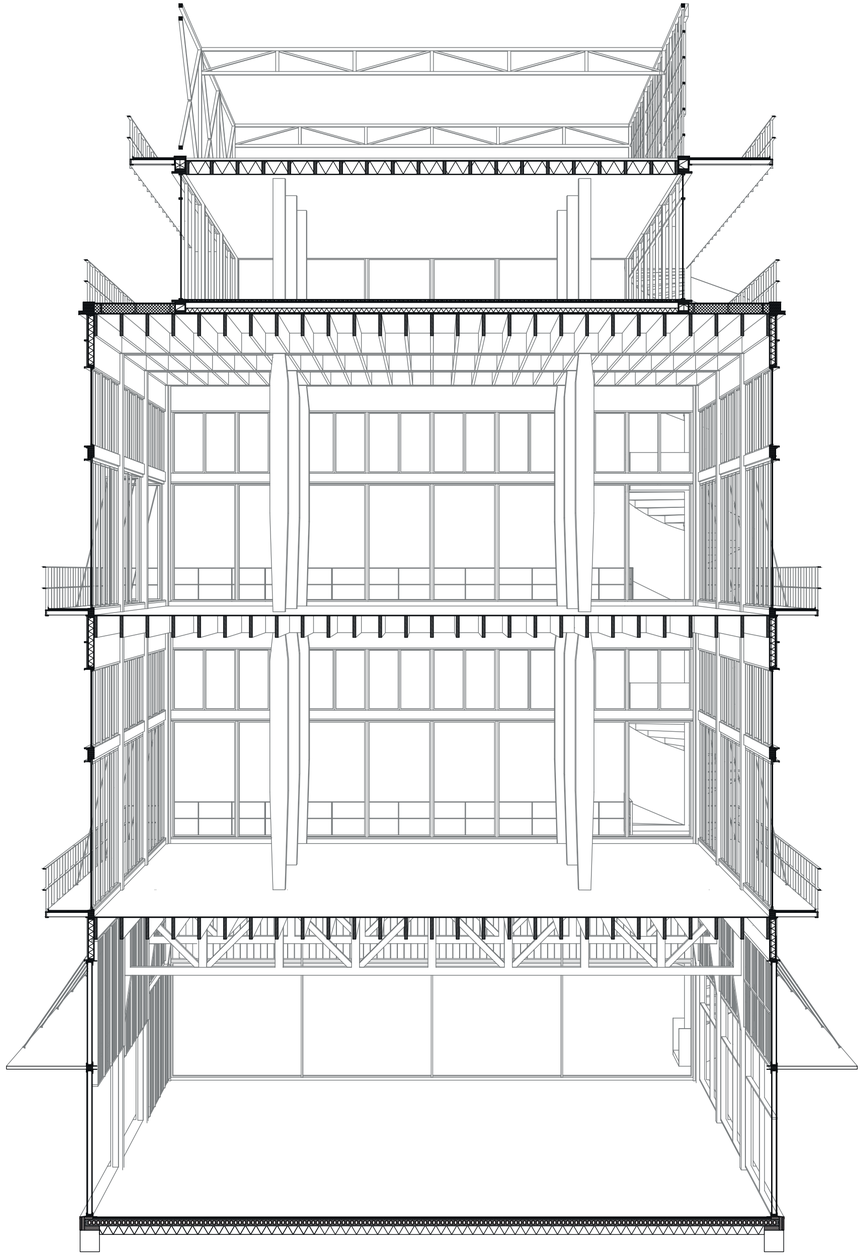
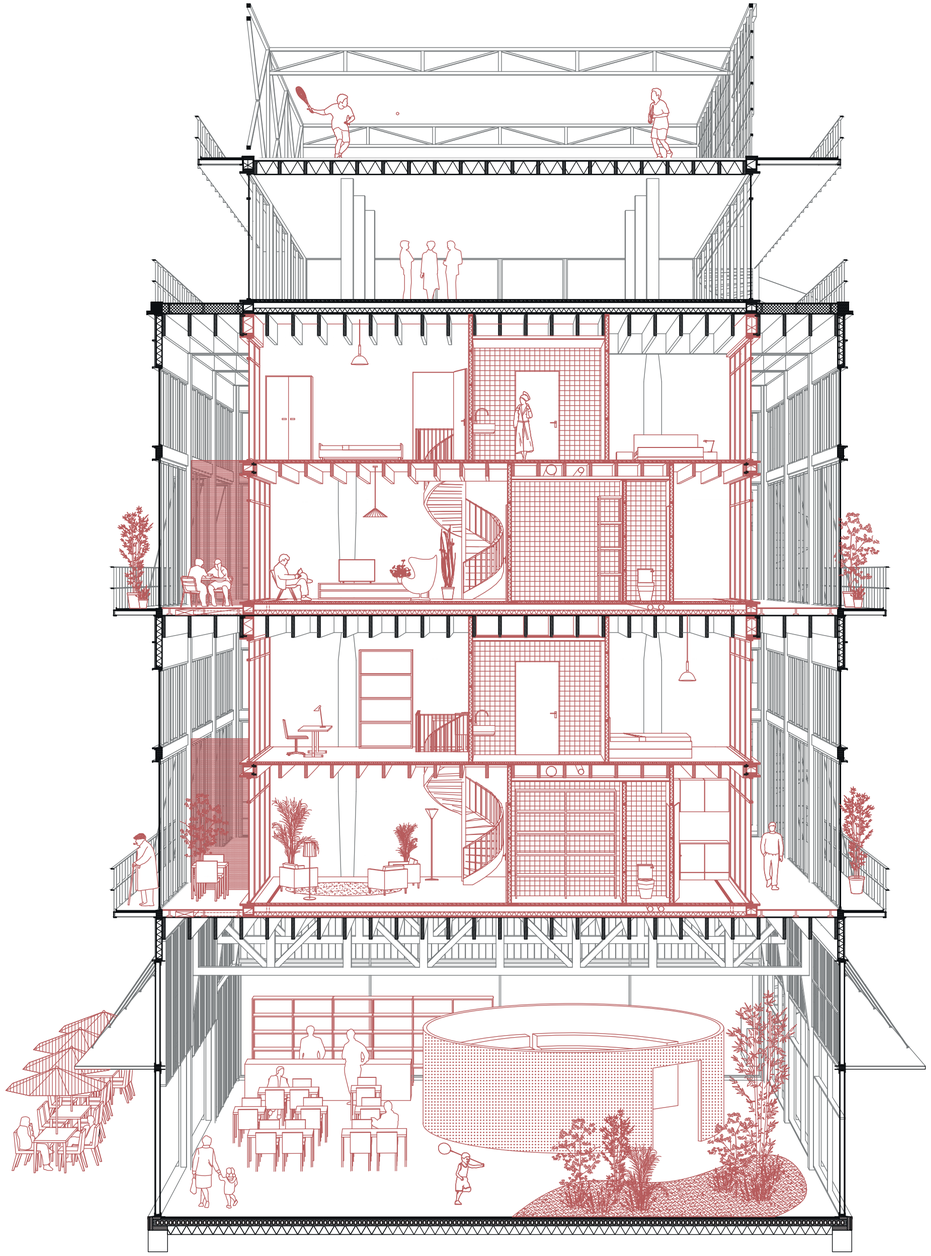
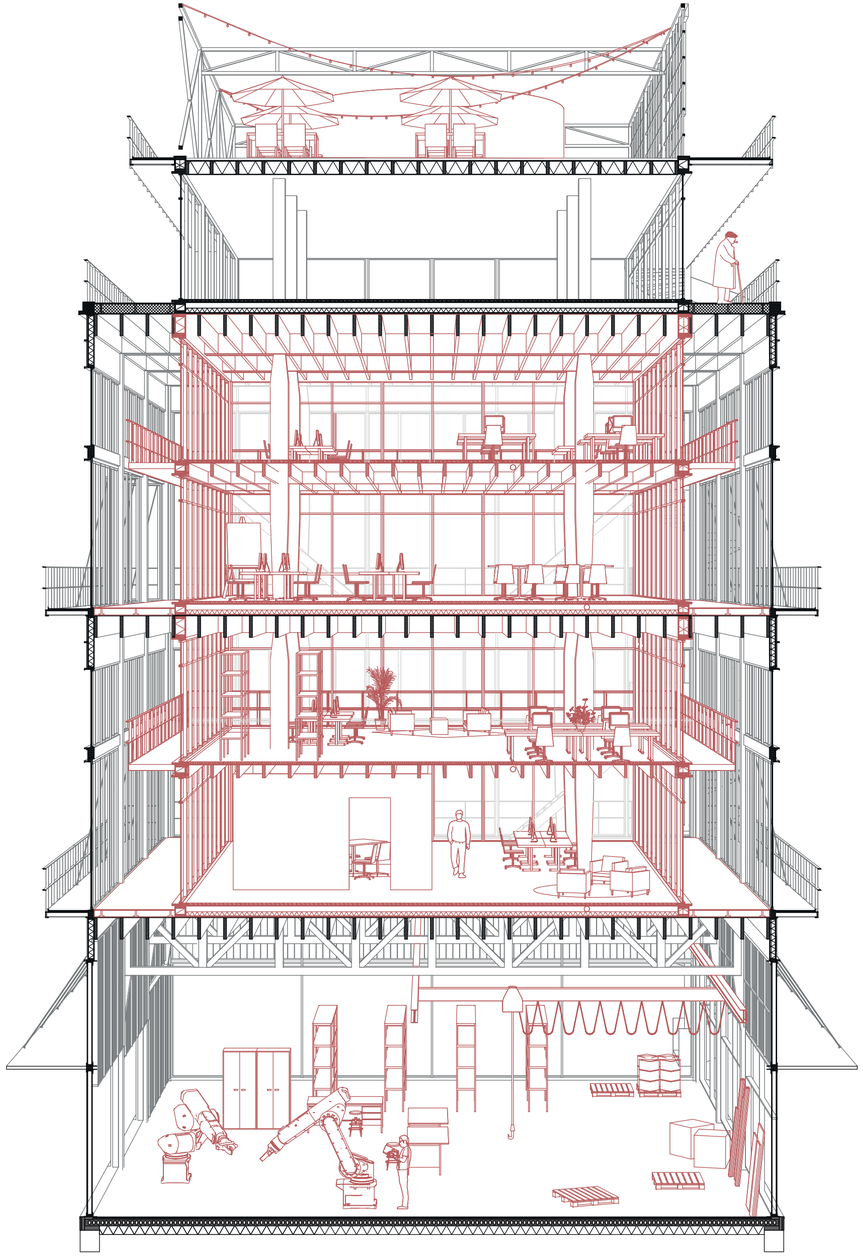
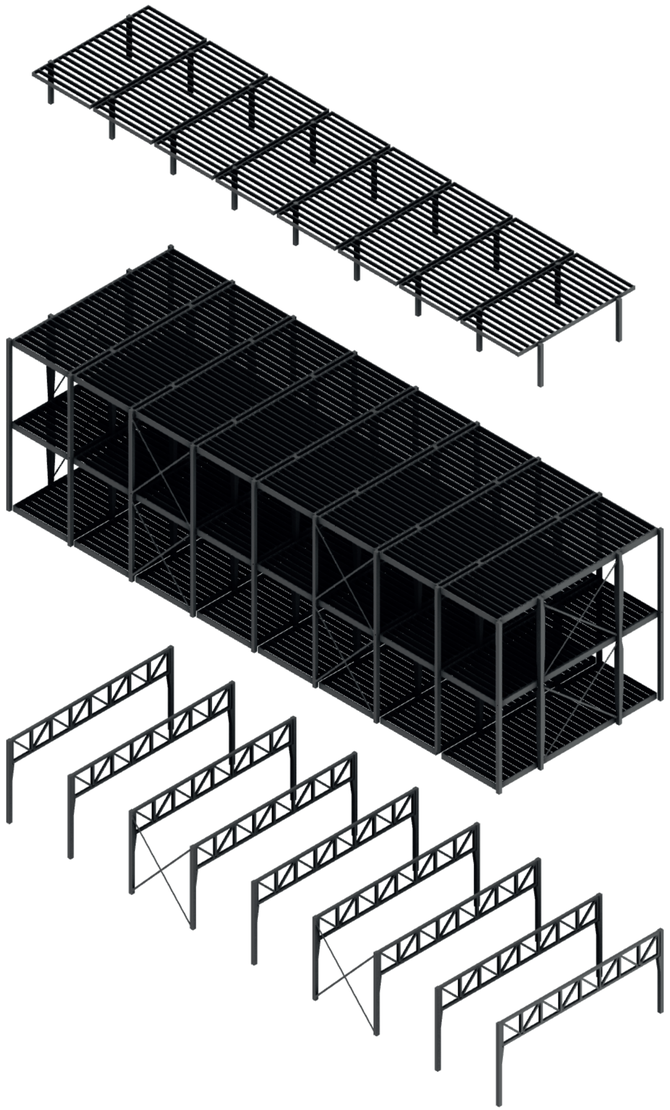

NIEUW
NIAT
KEILEHAVEN

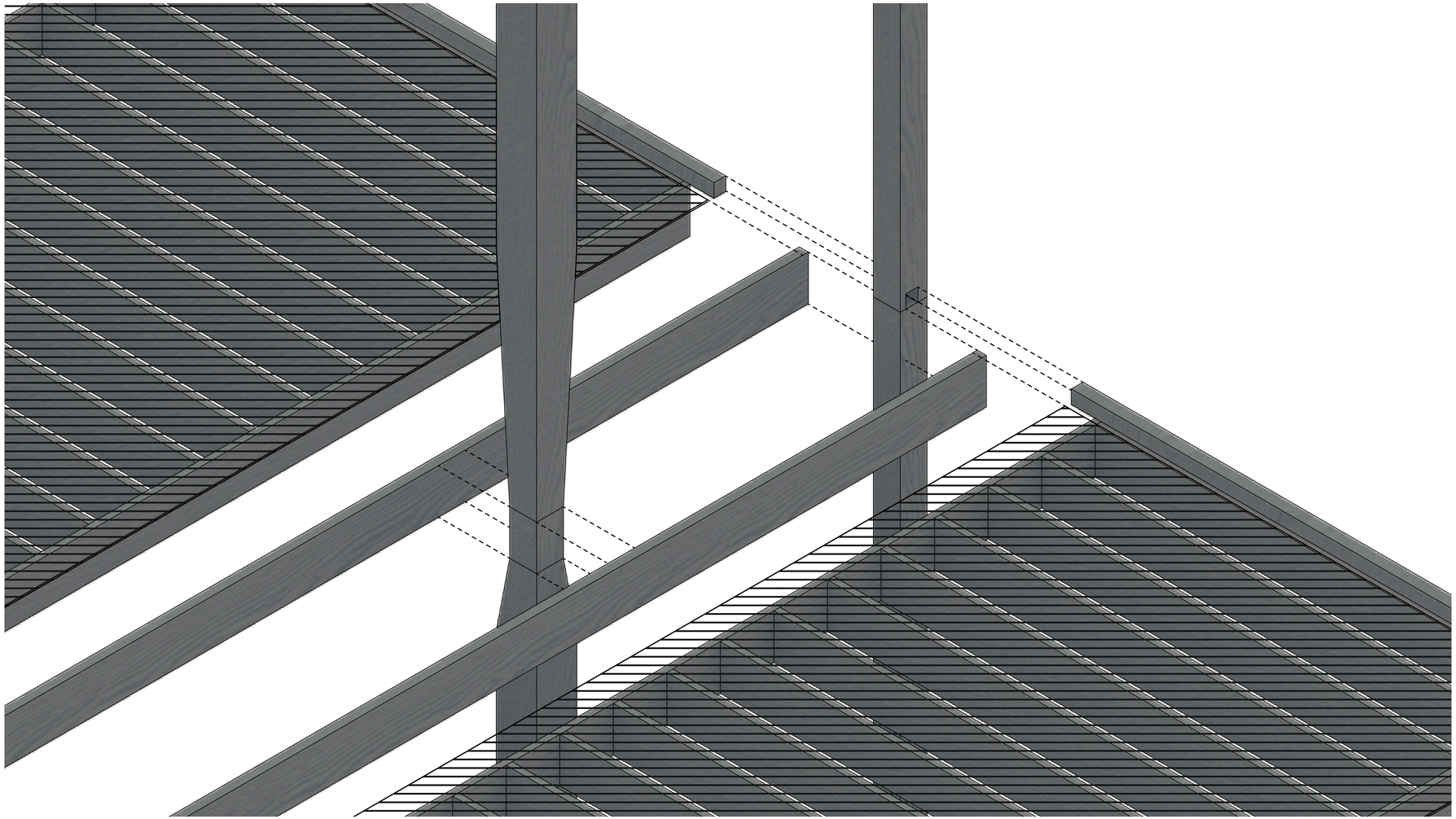


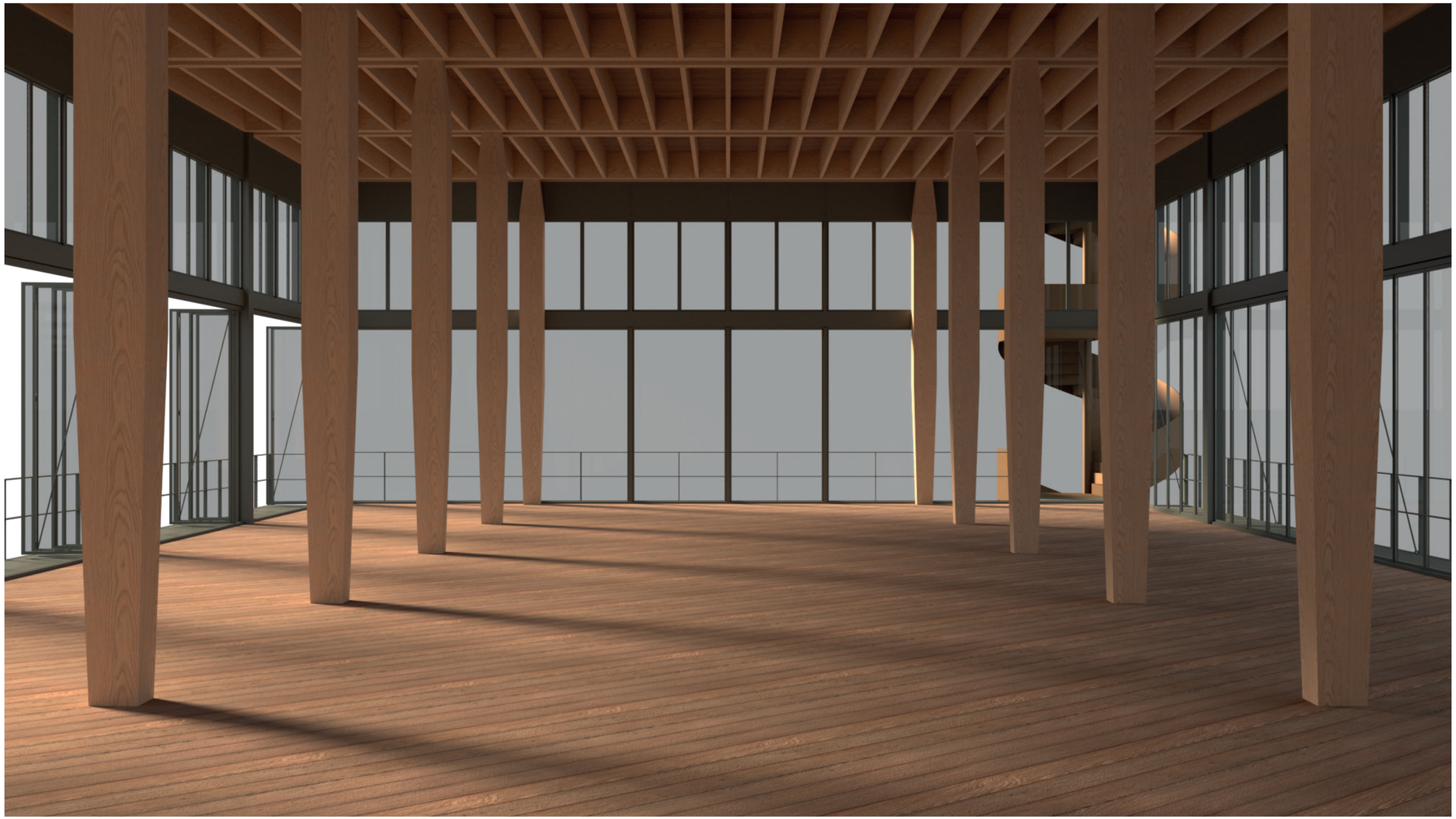


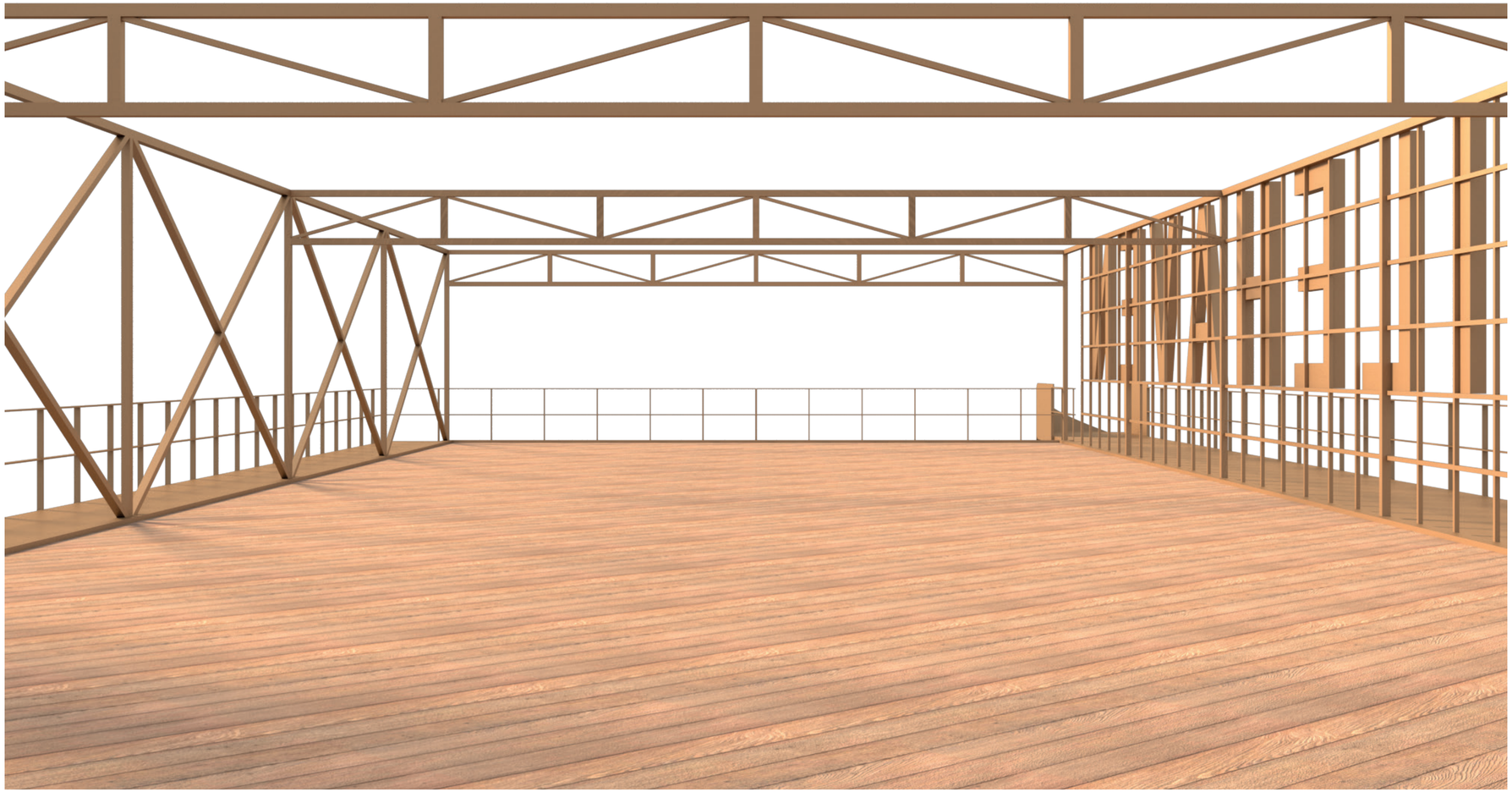


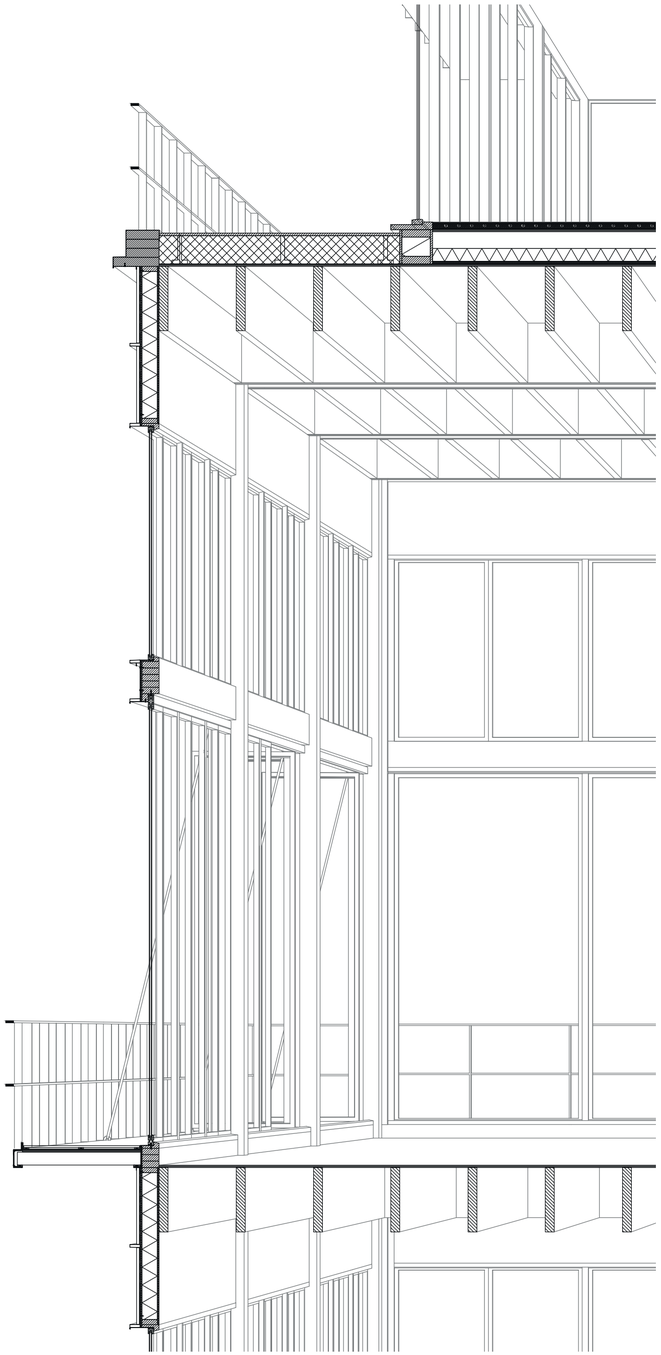
Technical fitness

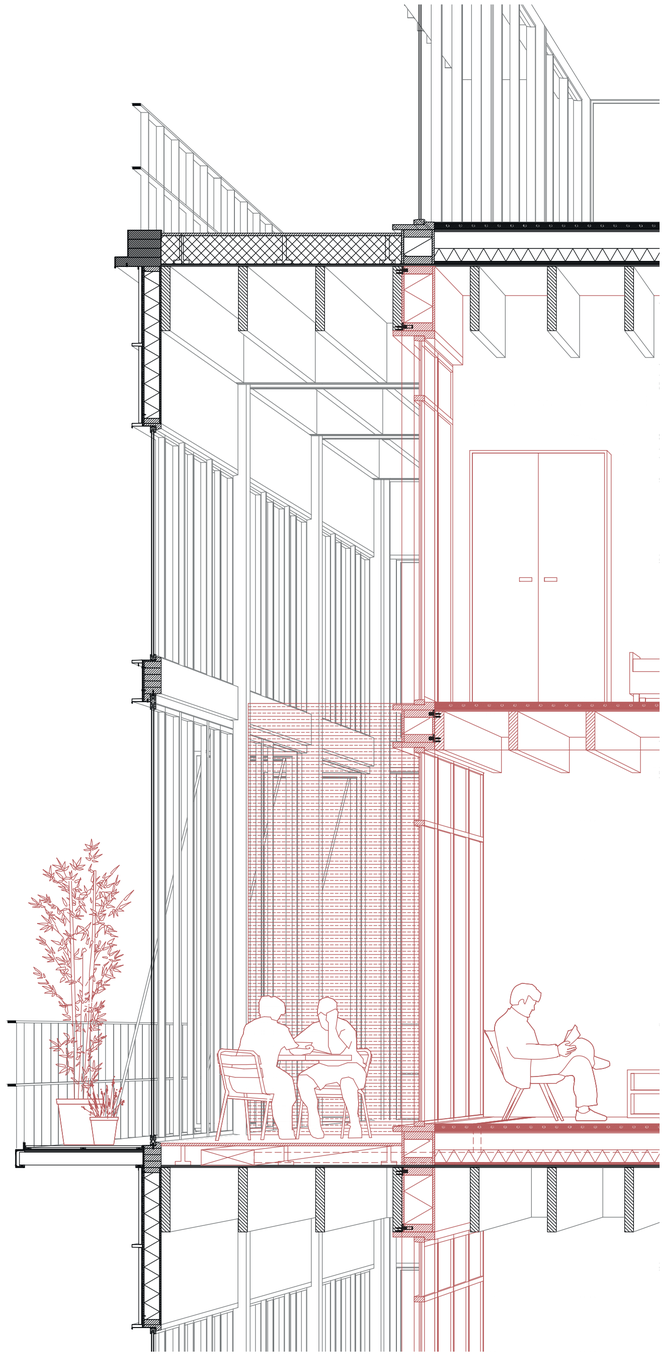


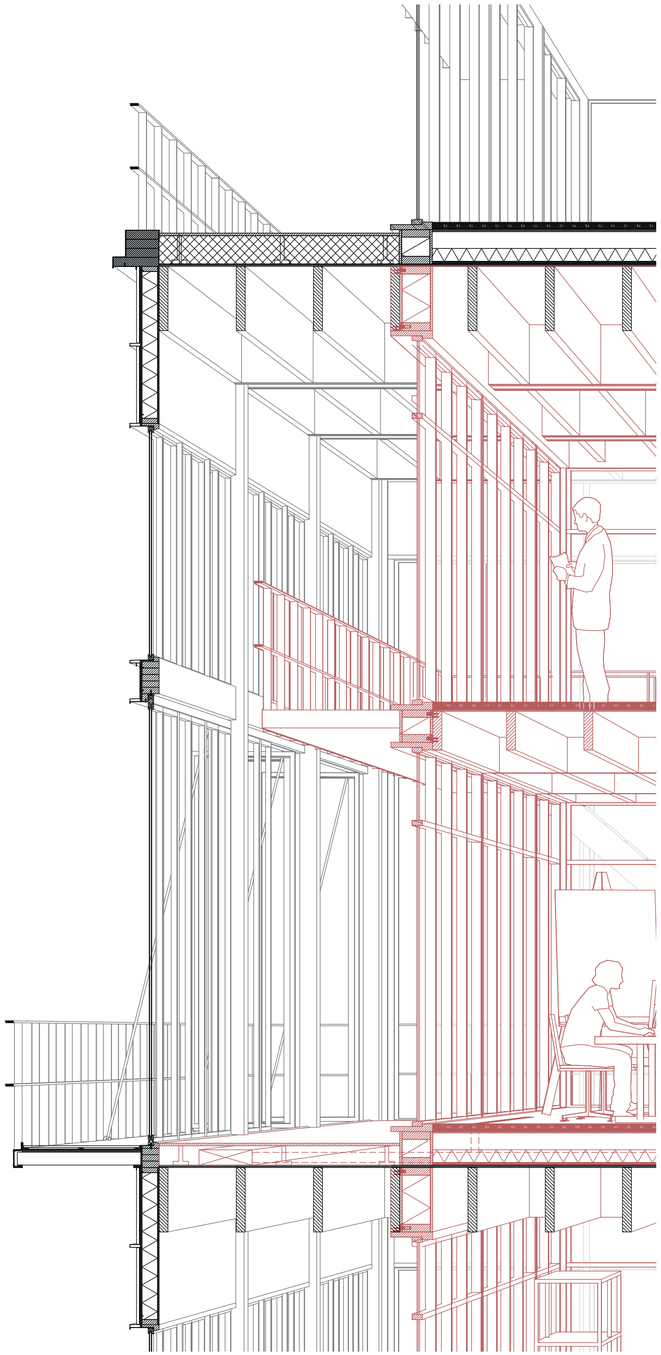




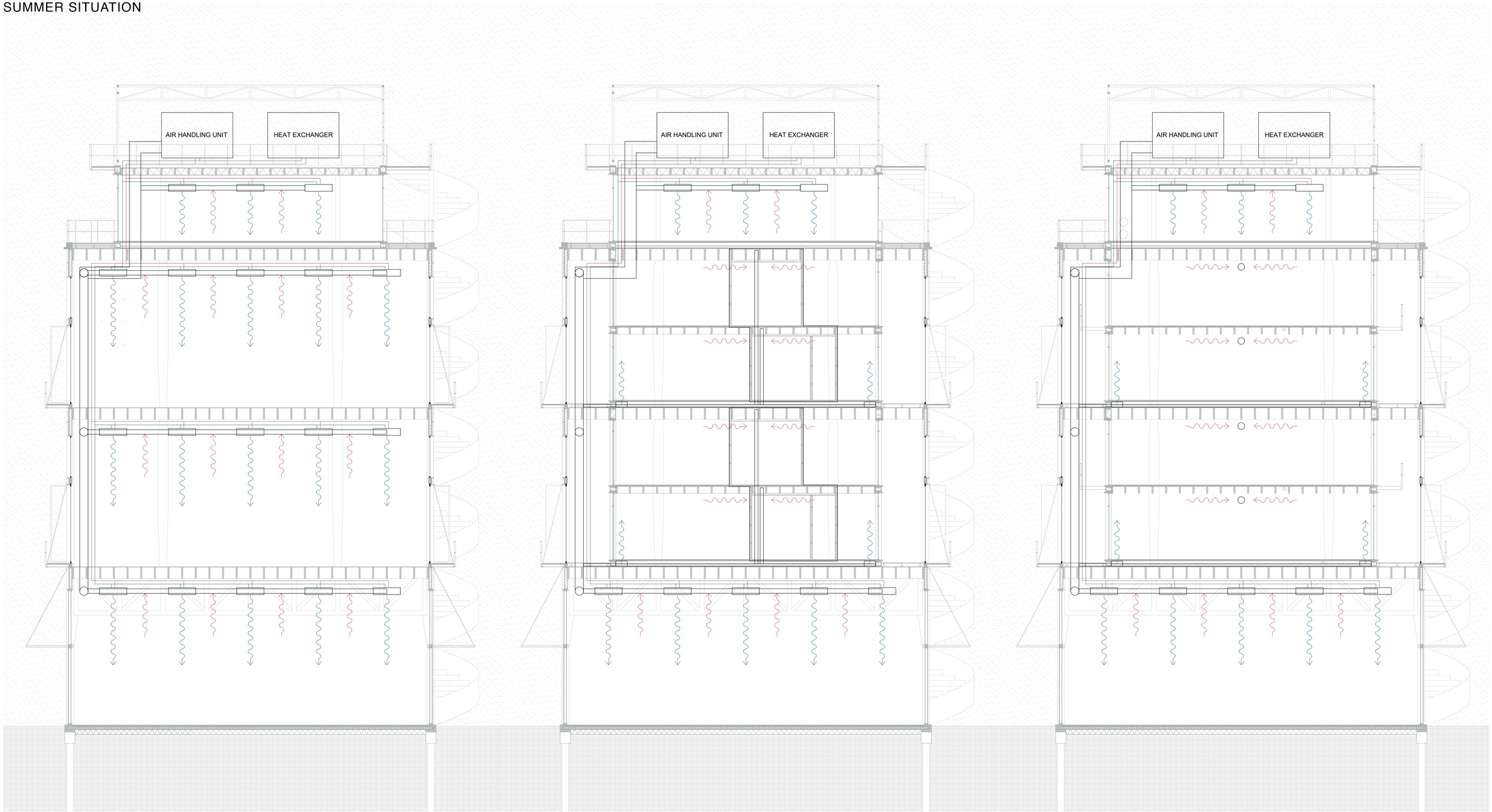




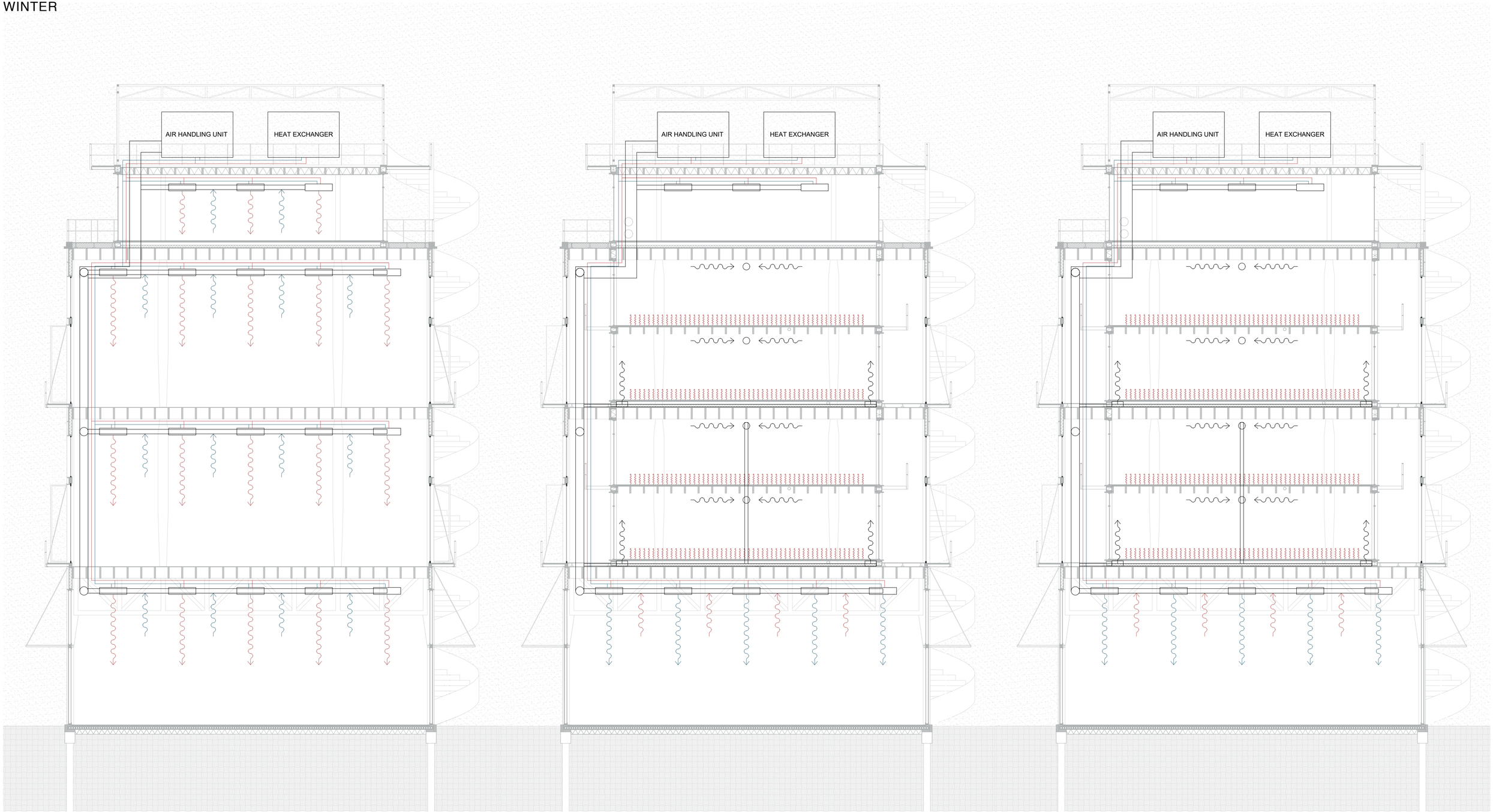


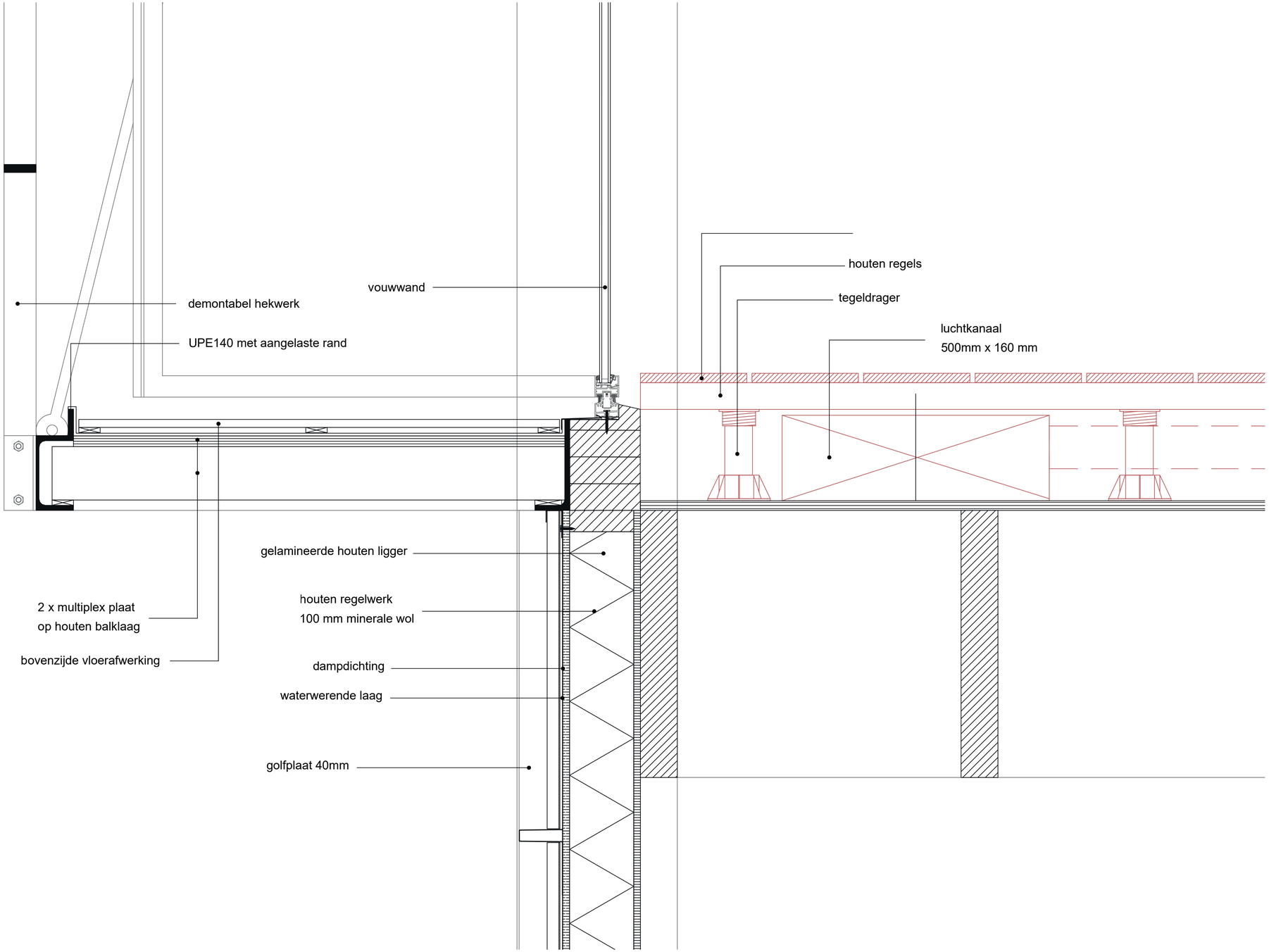


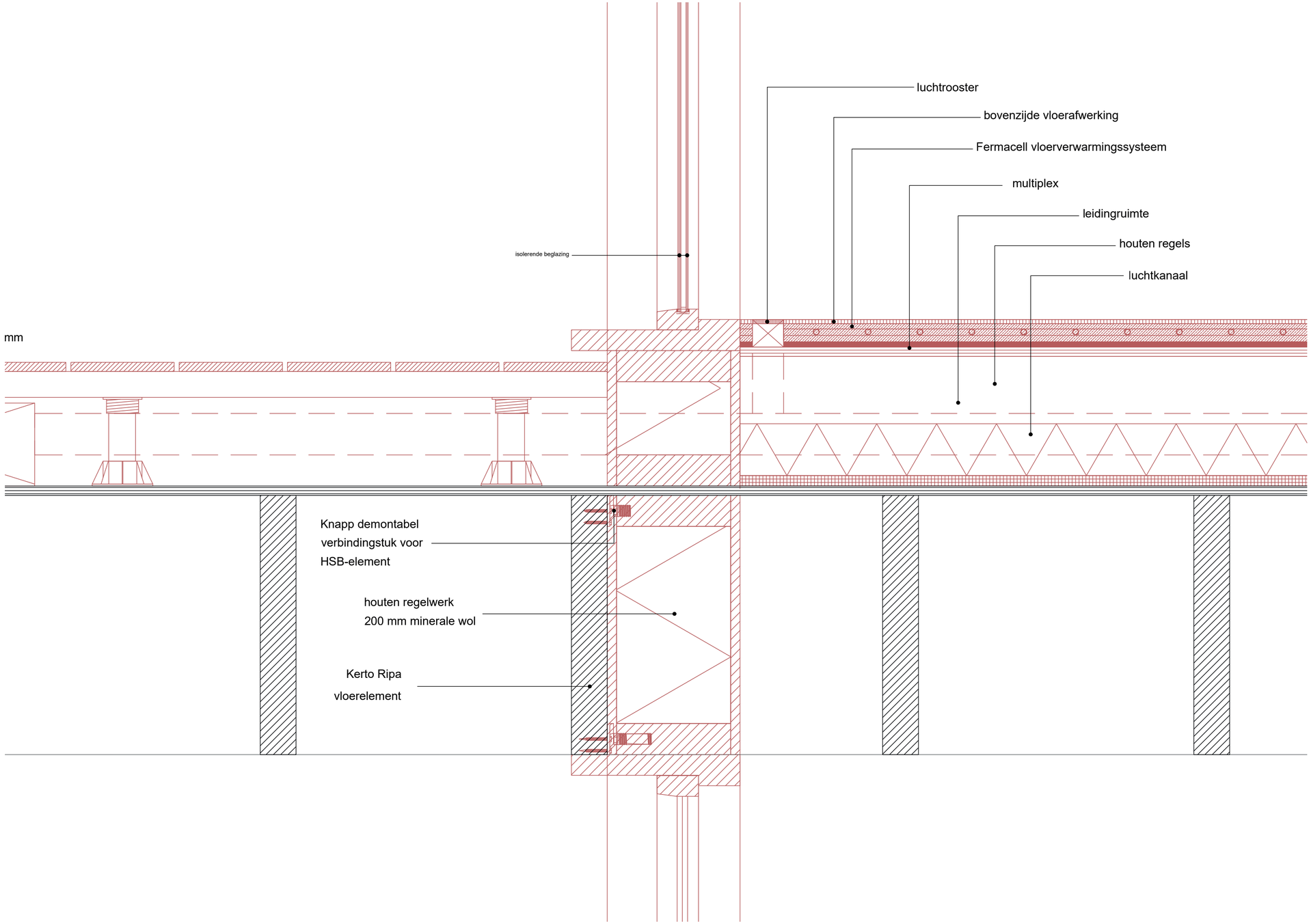
SUMMER SITUATION

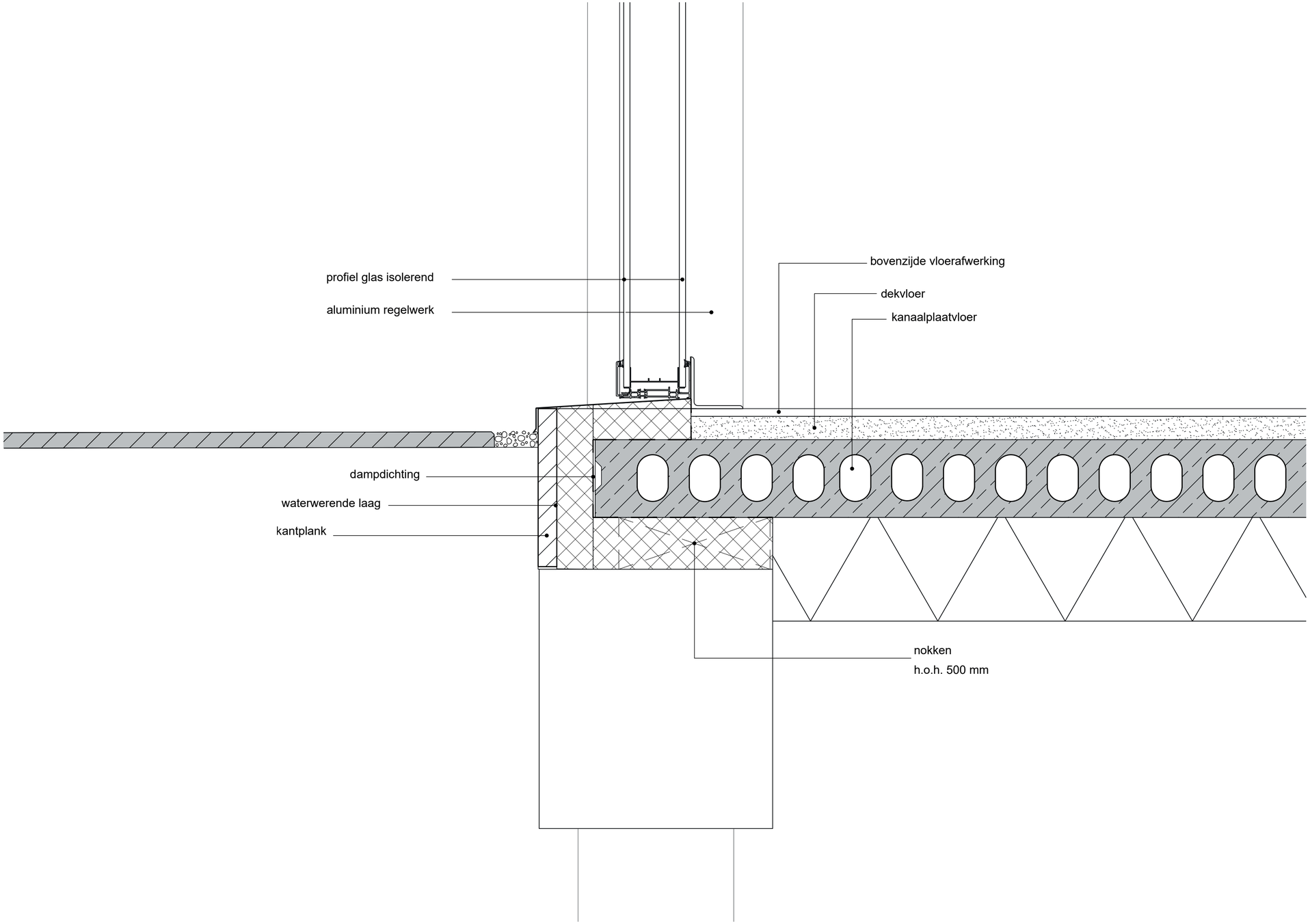


WINTER


AIR HANDLING UNIT
HEAT EXCHANGER
AIR HANDLING UNIT
HEAT EXCHANGER
AIR HANDLING UNIT
HEAT EXCHANGER


houten regels
tegeldrager
luchtkanaal
500mm x 160 mm
vouwwand
demontabel hekwerk
UPE140 met aangelaste rand
gelamineerde houten ligger
houten regelwerk
100 mm minerale wol
2 x multiplex plaat
op houten balklaag
bovenzijde vloerafwerking
dampdichting
waterwerende laag
golfplaat 40mm

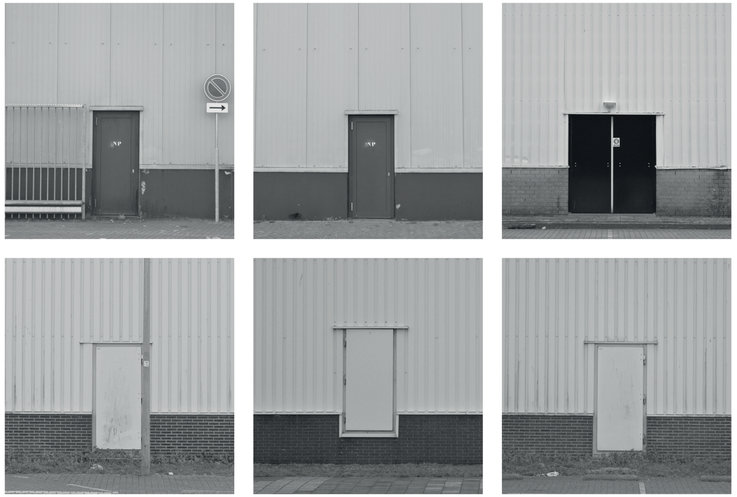

luchtrooster
bovenzijde vloerafwerking
Fermacell vloerverwarmingssysteem
multiplex
leidingruimte
houten regels
luchtkanaal
isolerende beglazing
mm
Knapp demontabel
verbindingstuk voor
HSB-element
houten regelwerk
200 mm minerale wol
Kerto Ripa
vloerelement


profiel glas isolerend
aluminium regelwerk
bovenzijde vloerafwerking
dekvloer
kanaalplaatvloer
dampdichting
waterwerende laag
kantplank
nokken
h.o.h. 500 mm

Architectural articulation

2

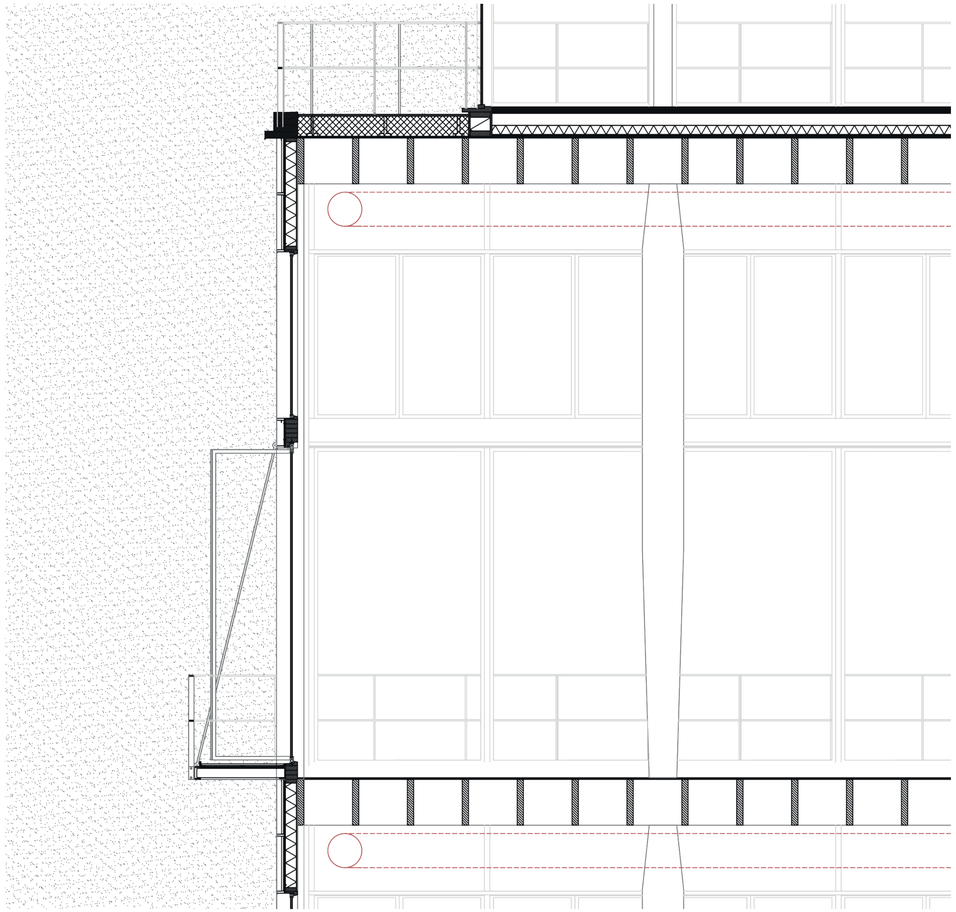
Vopak

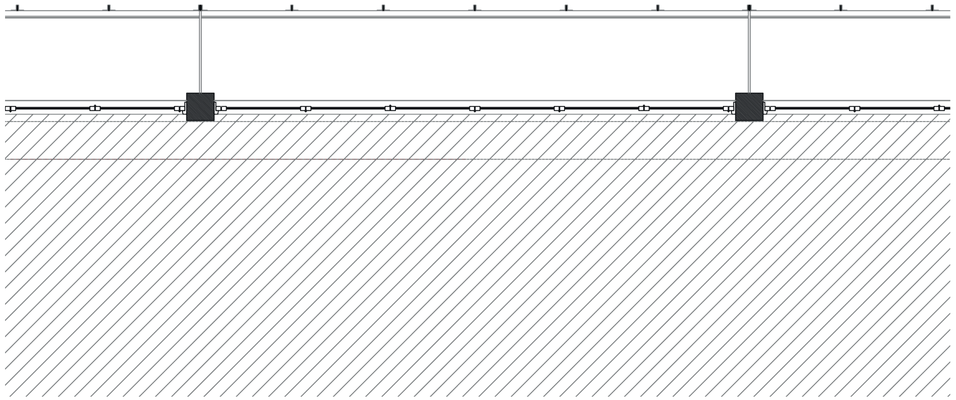


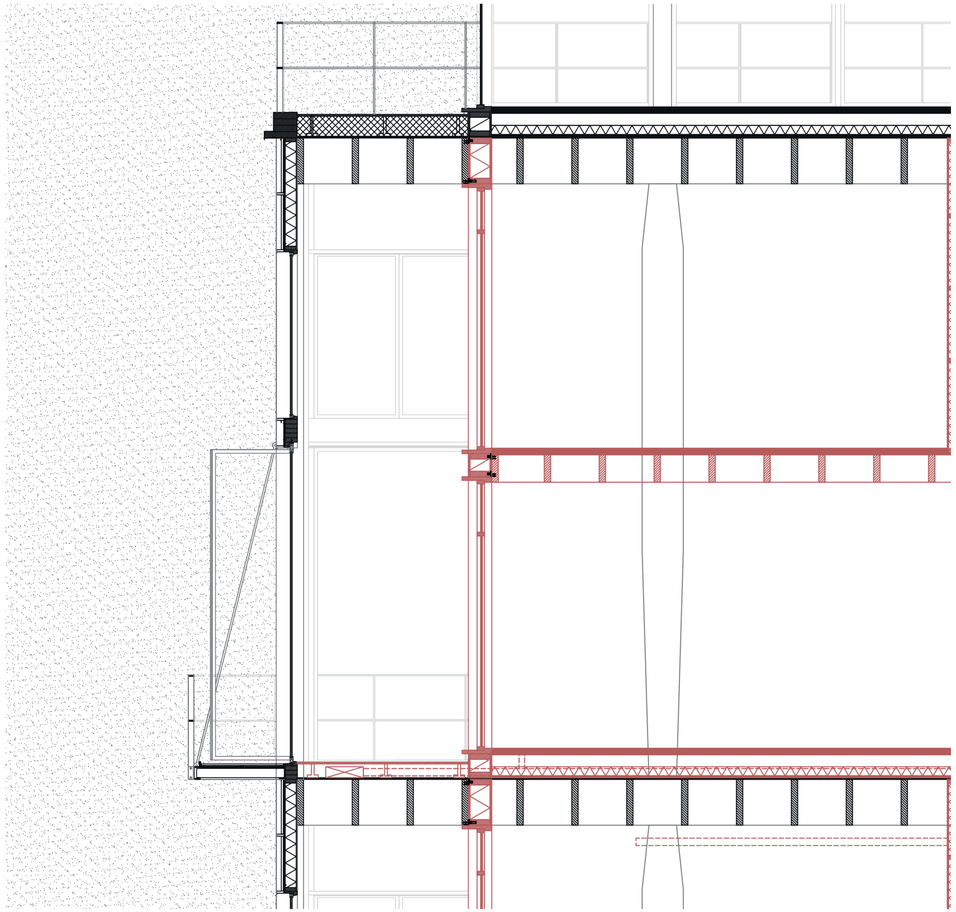
ALL TRANSPORT ROTTERDAM
VDV
VDV
WELL DONE IS BETTER THAN WELL SAID

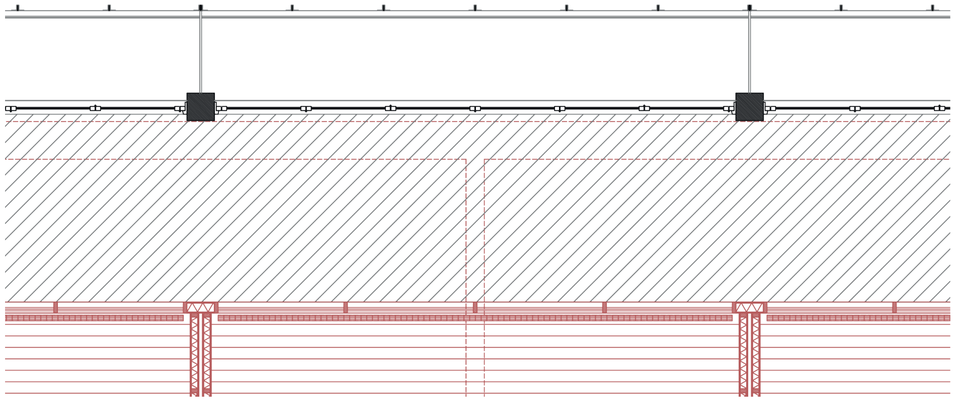
CITY
DREAMS

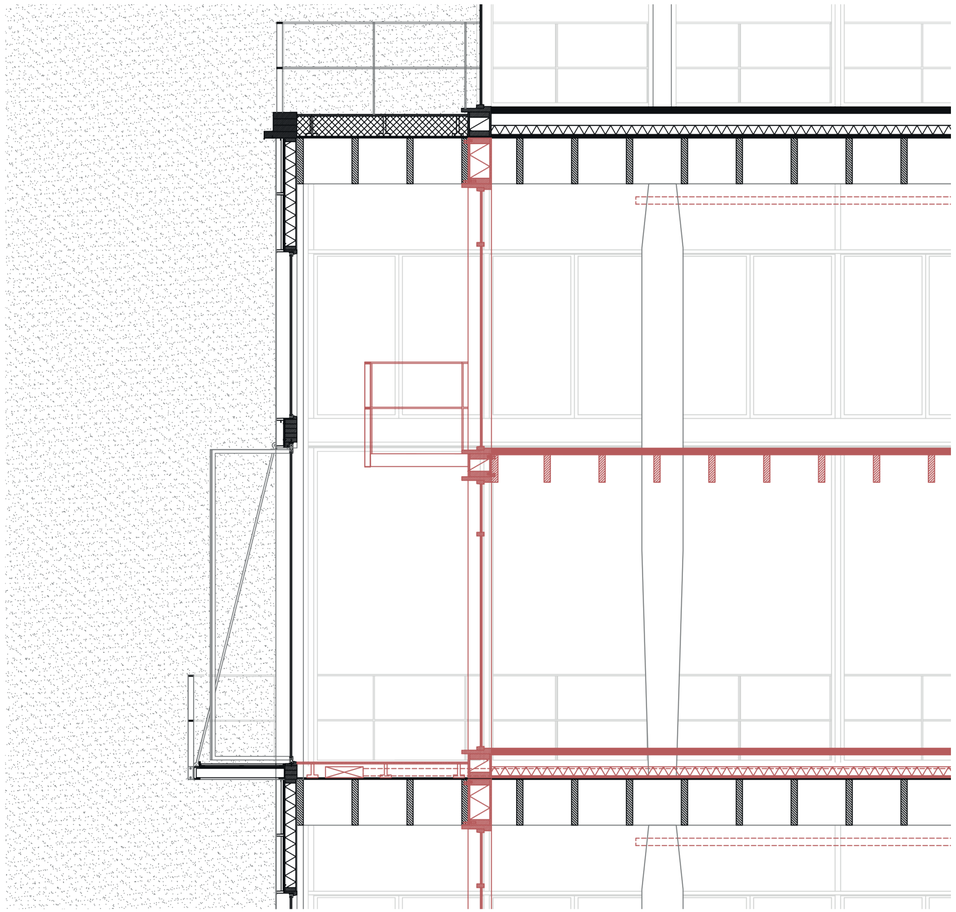
KEILEHAVEN

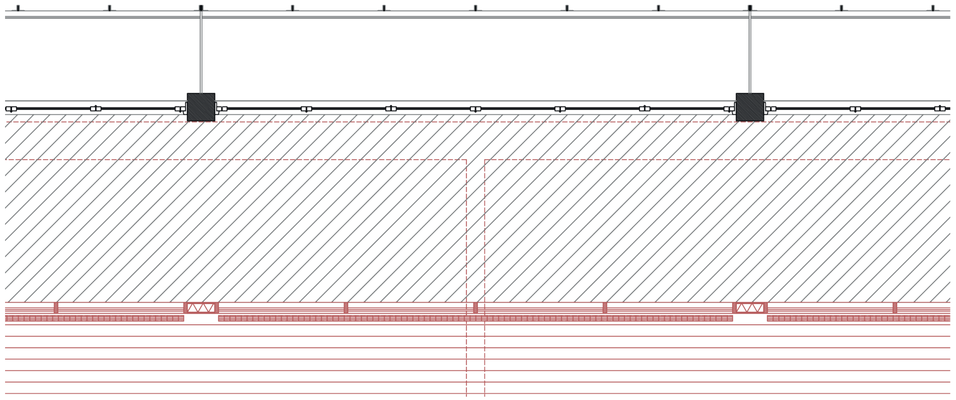












KEILEHAVEN

KEILEHAVEN
TAXI
HG

Reflection

Seperable entity

Spatial relation

Pattern relation

VITA

Seperable entity

Spatial relation

Pattern relation

Seperable entity

Spatial relation

Pattern relation