

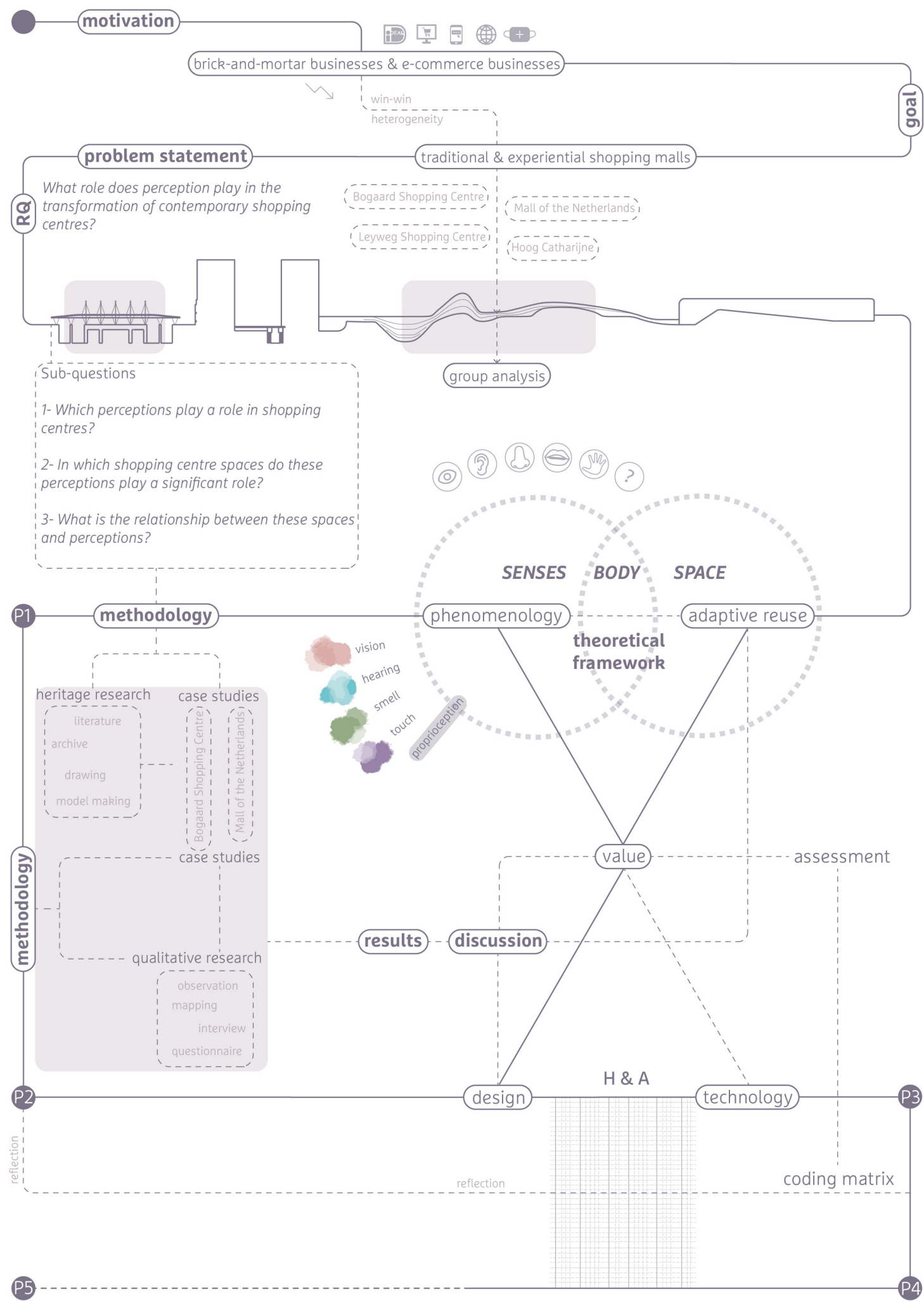


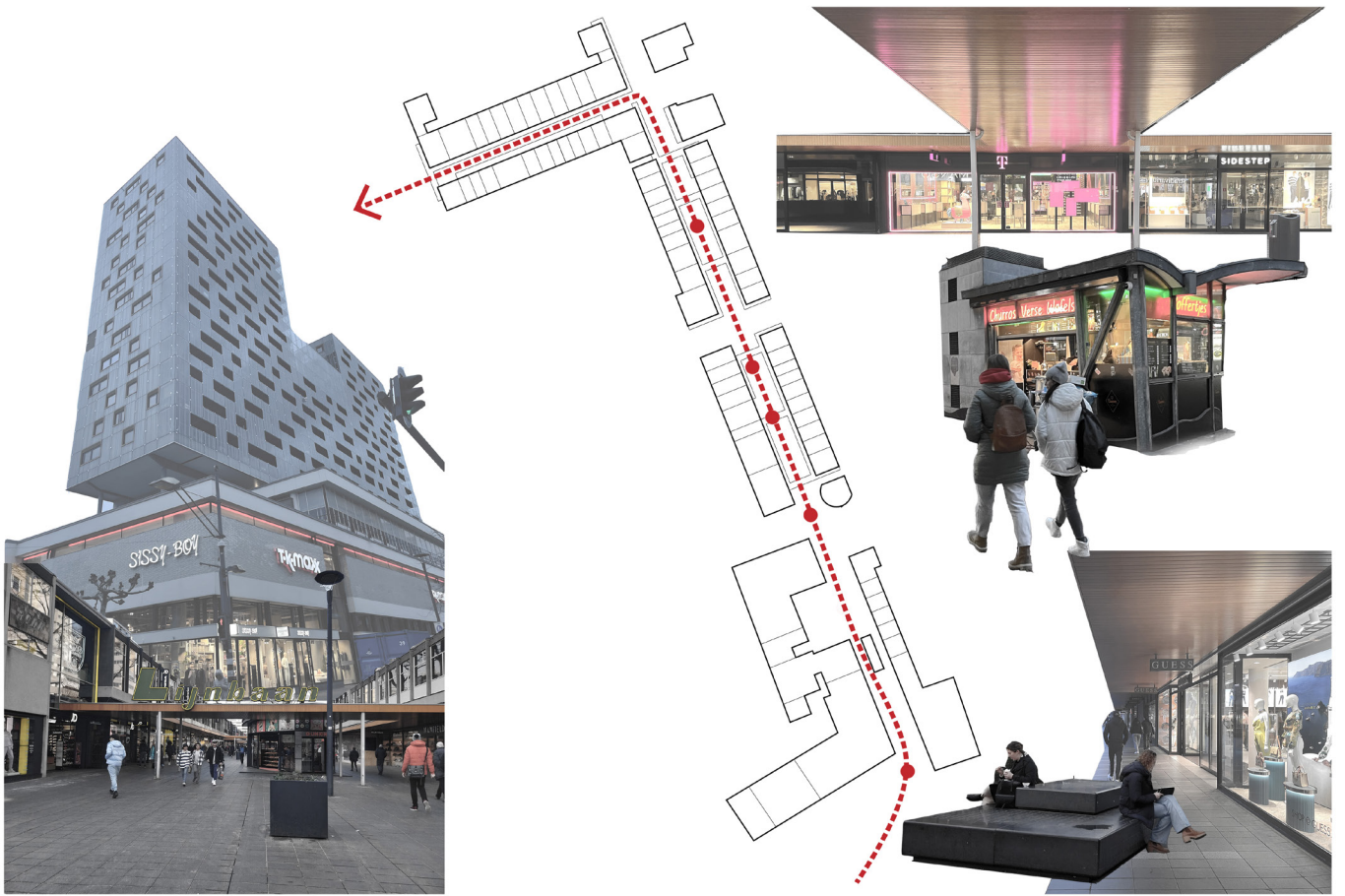
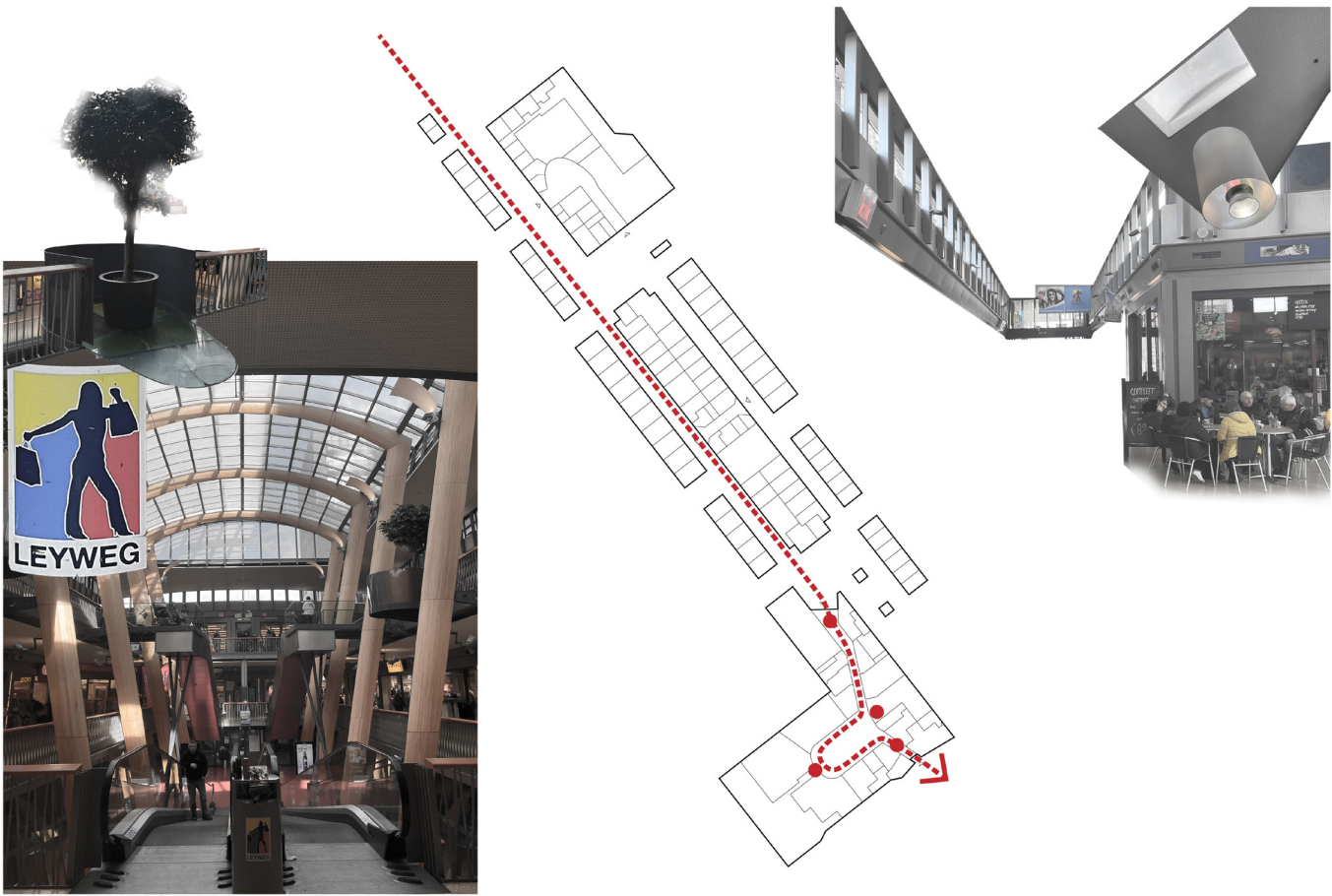
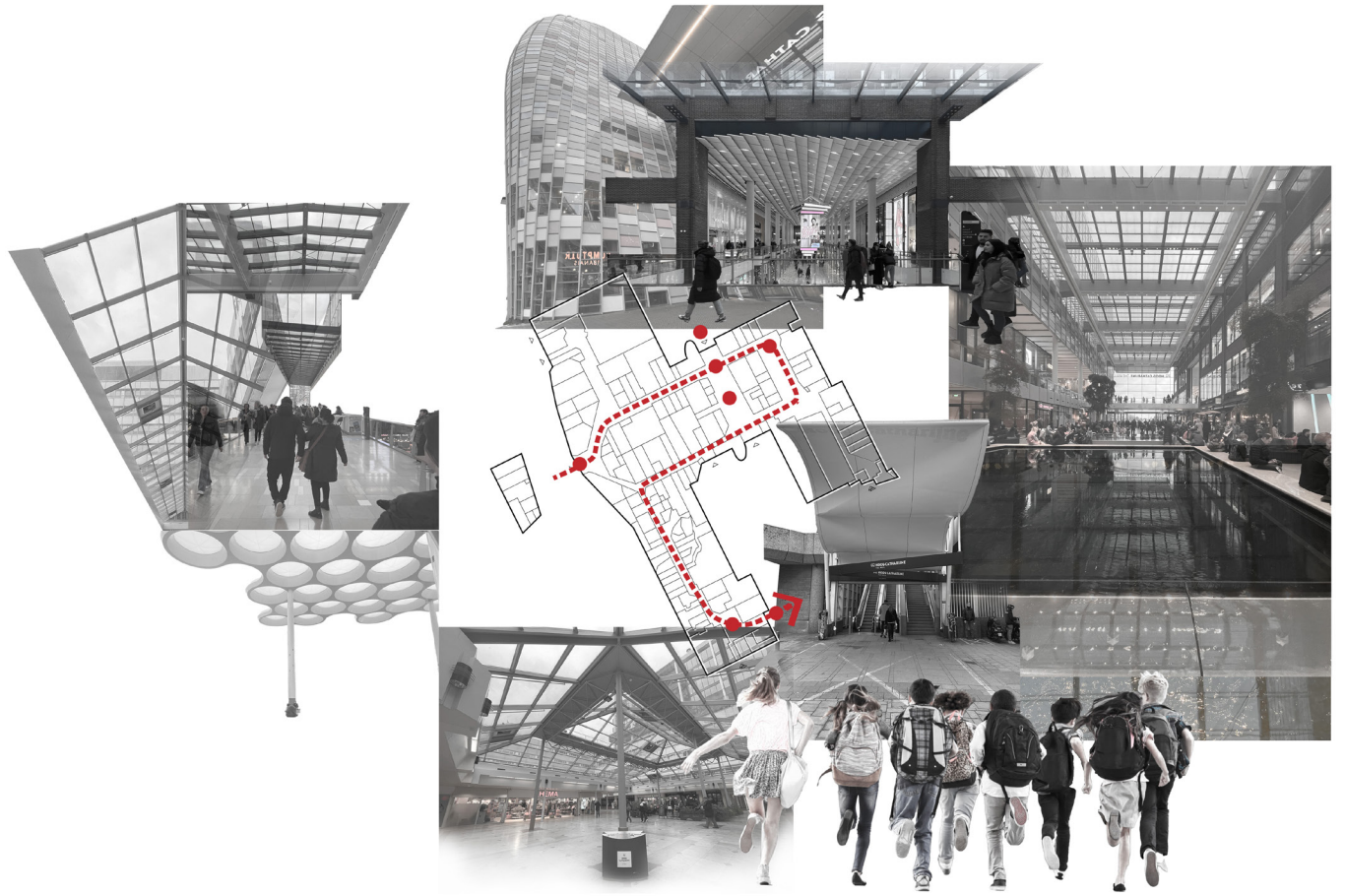
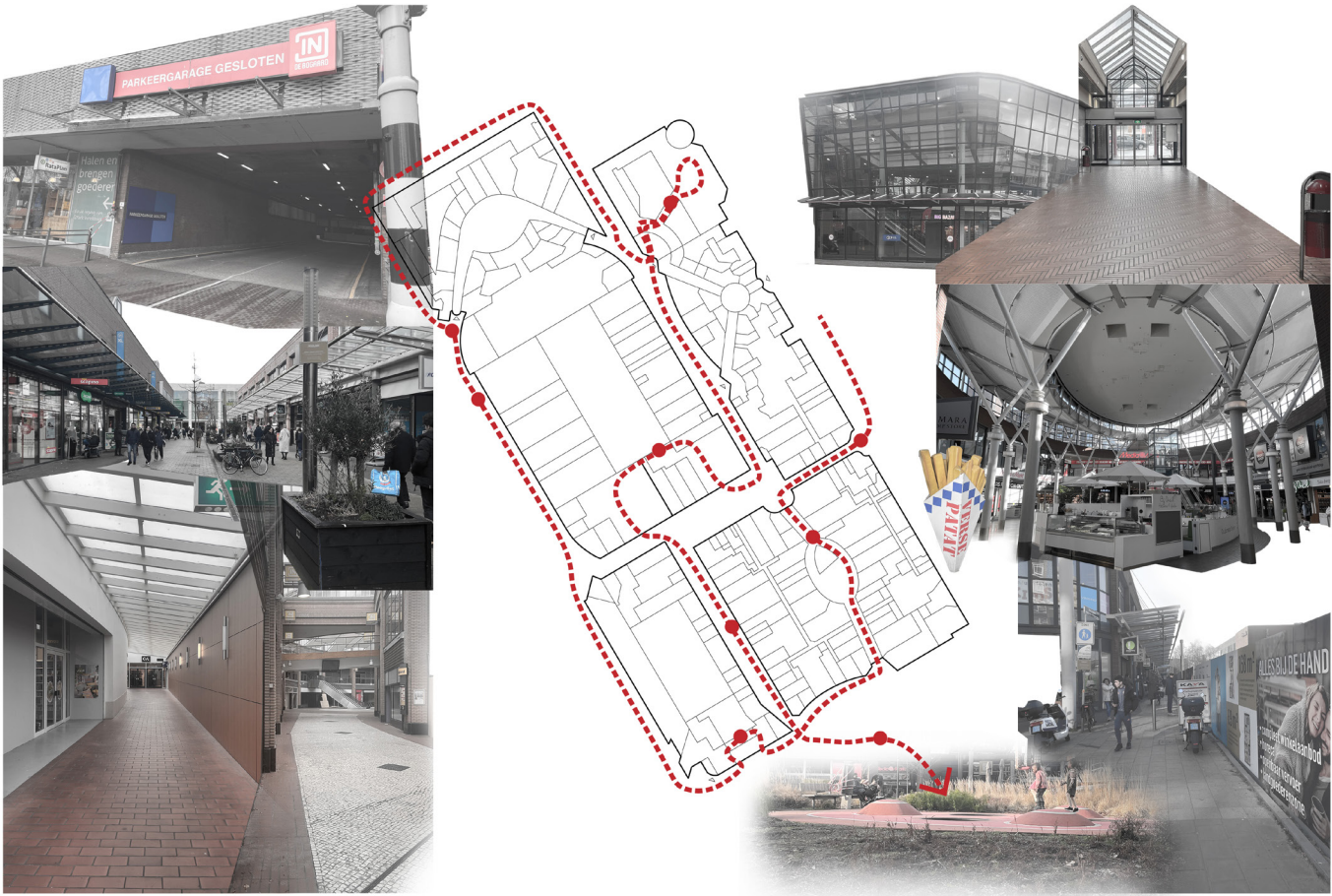
Multi-Sensory Experience Social Centre

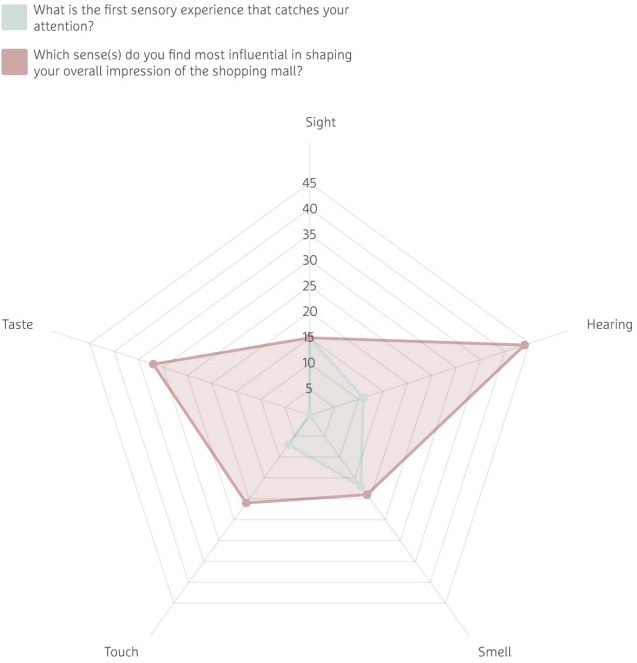
Chuanlin Gao
5541026

Tutors
Lidy Meijers (Design Tutor)
Anet Meijer (Building Technology Tutor)
Federica Marulo (Research Tutor)
Wido Quist (Research Tutor)

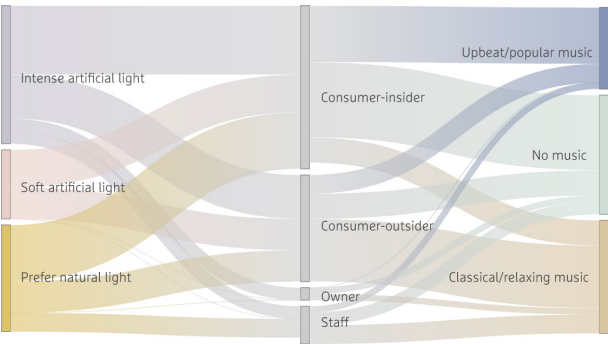
RESEARCH



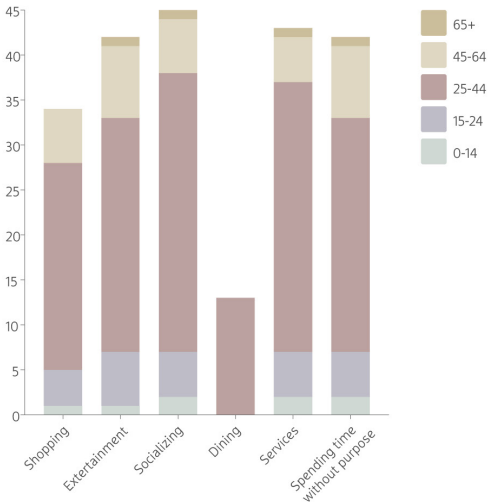




The relationship between different groups and sight & hearing



What is your main purpose for visiting the mall?



Supermarkets

Albert Heijn XL
Big Bazar
Hoogvliet Supermarkt

Health and Wellness

Basic Fit
Etos
Holland & Barrett
Kruidvat

Electronics and Appliances

GSM Paradise
Media Markt
Ringfoto Ben Hofland
T-Mobile Shop
Vodafone & Ziggo

Specialty Shops

ANWB winkel
Action
Bruna Bookshop
De Kruidenmix
Eye Wish
Fresh Bloemen en Planten
Gall & Gall Bogaardplein 22
HEMA
Hozee Tweewielerspecialist
Intertoys
Jamin
Juwelier Goudland
Merx Schoen
Onno Schilperoord IJzerwaren
Pearle
Scholtes Gildeslager
Specsavers
Sport 2000
SoLow
Vishandel Koning

Apparel and Fashion

Adam Brandstore
Aktie Sport
Amara Mode
Beau Belle Schoenmode
Bijou Brigitte
Bristol
C&A
Chicas
De Noten Bar
Duifhuizen tassen & koffers
Enamorada Fashion
Hans Anders Opticien
Hunkemöller
J22
Kaya Textiel
Mooon
MS Mode
Nelson
Ulla Popken
Van Haren
Van Uffelen
Sandwich Store
Scapino
Zeeman XL

Food and Beverage

Bij Oma.nl
Bram Ladage
Café Harvey's Inn
De Beren
Het Broodhuys
ijZvogel
KFC
Kippie
La Fontaine
McDonald's
Meesterbakker Roodenrijs
Oerfriet
Toko Indah
Verse Patat

Office

De Hypotheker Rijswijk
Infocenter
Taco Verbeek Makelaardij
TUI

Beauty and Personal Care

ICI PARIS XL
Kapsalon Janah
Léon Zuidgeest kappers
Parfumerie Douglas
Rituals

Home and Decor

Blokker
Het Lichtparadijs
KO'EX Rijswijk
Kringloopwinkel RataPlan
Woonmode
Xenos

Mall of the Netherlands

Location: Leidschendam, Netherlands

ORIGINAL DESIGN

Architect: -

Area: 70,000 m²

Year: 1971

Vision: Binding and Unifying Previously Decentralised Shops with Continuous Flow

NEW DESIGN

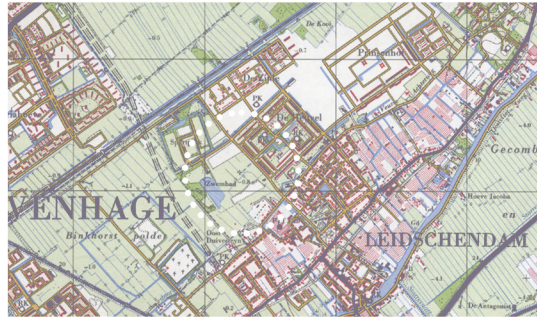
Architect: MVSA Architects

Area: 200,000 m²

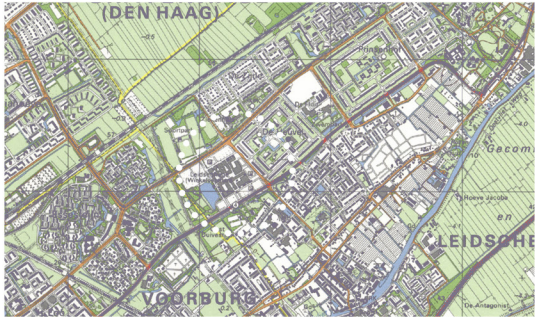
Year: 2019



1971
Leidsenhage shopping
centre opened.



1998
The extension on Liguster
was completed.



2014
The municipality of Leidschendam-Voorburg and owner
Unibail-Rodamco-Westfield signed an agreement on the
future of the Leidsenhage shopping centre.



2017
After elaboration of the plans, the renovation started in the
autumn of 2016. The existing shopping center was demolished
in phases and replaced by a new building.



2021
Completion



Bogaard Shopping Centre

Location: Rijswijk, Netherlands

ORIGINAL DESIGN

Architect: Kuiper, Gouwetor & De Ranitz

Area: 10,000 m²

Year: 1963 - 1999

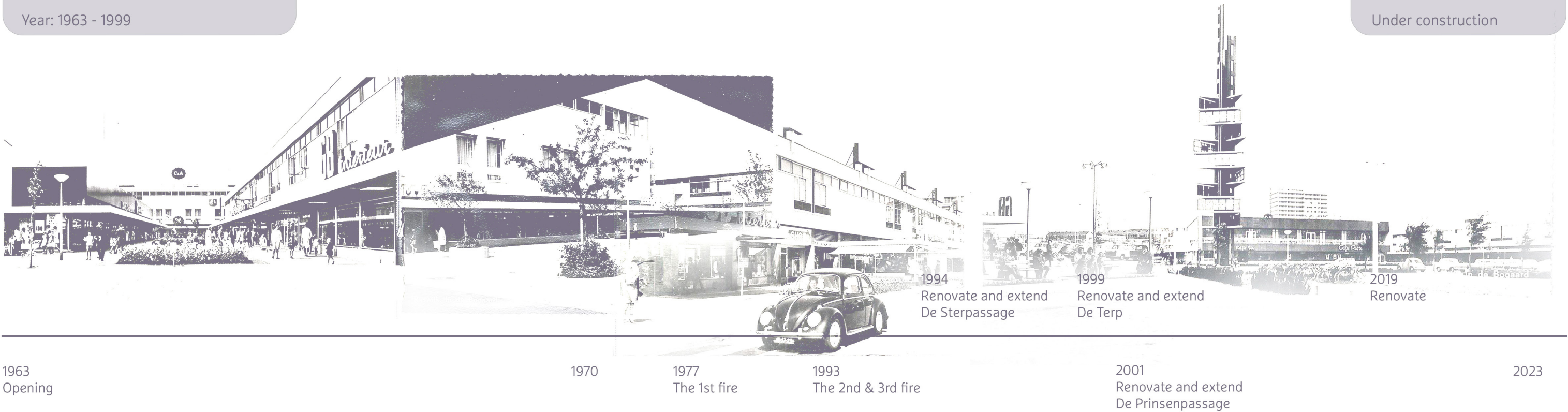
NEW DESIGN

Architect: PosadMaxwan

Area: 90,000 m²

Under construction

Vision: Transforming the Shopping Centre into a Green Town Centre



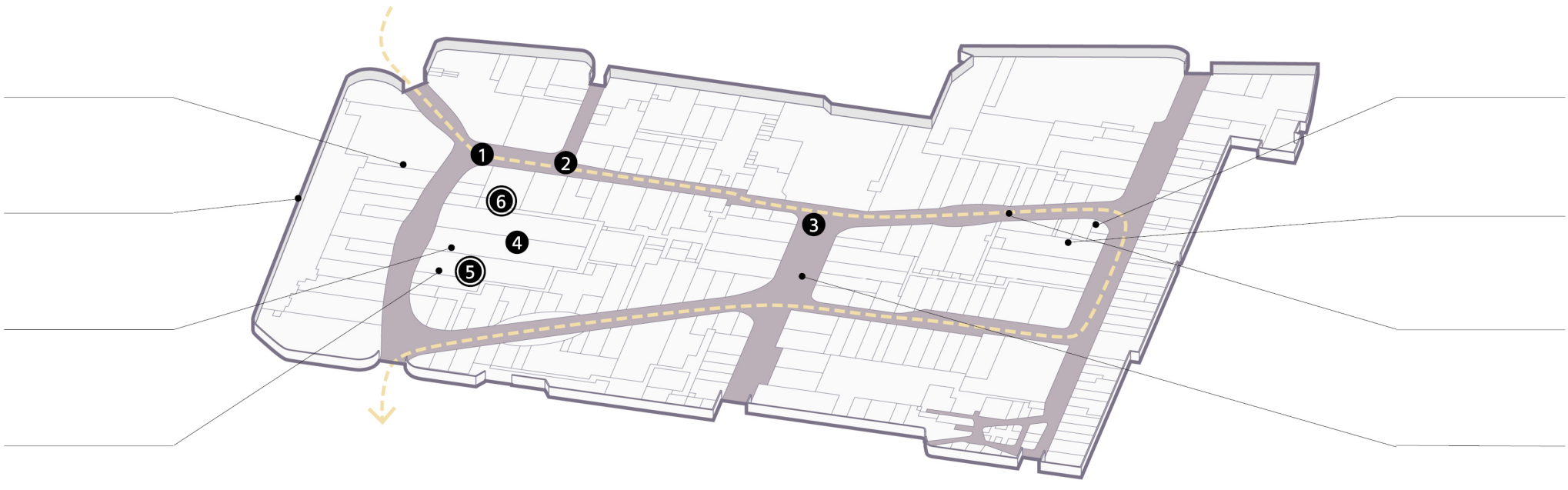
Mall of the Netherlands



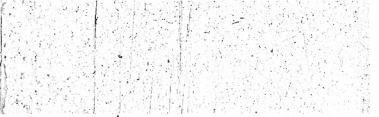
Painted interior walls



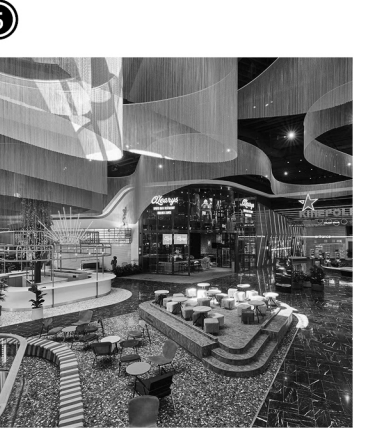
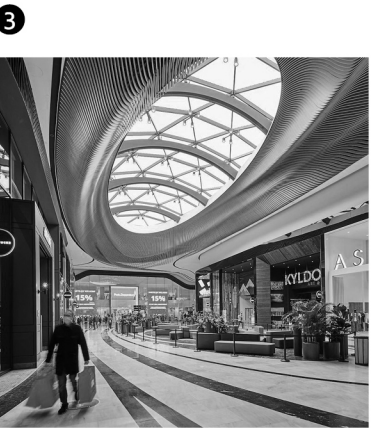
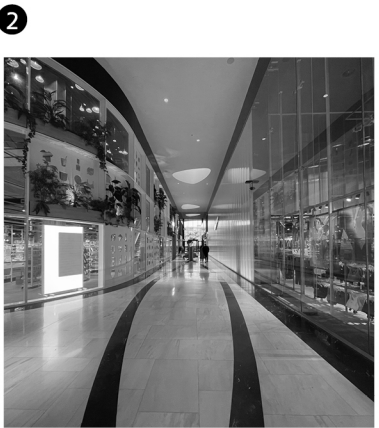
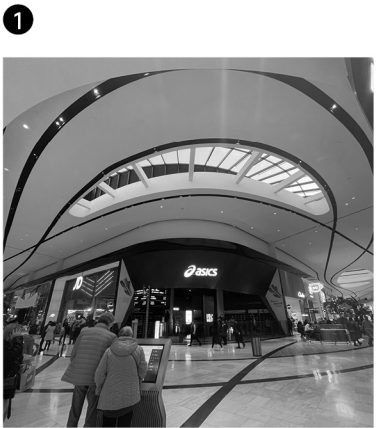
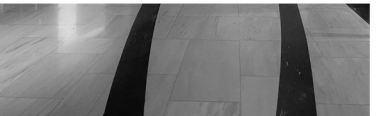
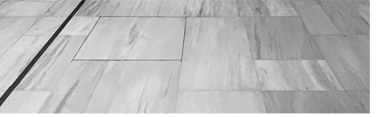
Glass fibre-reinforced micro concrete



Concrete columns



Concrete columns



On-site

Vision	+	+	+	+	.	.
Hearing	+	+	+	.	.	.
Smell	+	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	.	.	.	.	.

Vision	+	+	.	.	.	.
Hearing	+	+	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	+	.	.	.	.
Proprioception	+	+	+	.	.	.

Vision	+	+	+	.	.	.
Hearing	+	+	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	+	+	.	.	.
Proprioception	+	.	.	.	.	.

Vision	+	+	+	.	.	.
Hearing	+	+	.	.	.	.
Smell	+	+	.	.	.	.
Touch	+	.	.	.	.	.
Proprioception	+	.	.	.	.	.

Vision	+	+	.	.	.	.
Hearing	.	.	.	.	.	.
Smell	+	+	+	+	.	.
Touch	+	+	+	.	.	.
Proprioception	.	.	.	.	.	.

Vision	+	+	+	+	+	.
Hearing	+	+	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	.	.	.	.	.
Proprioception	+	.	.	.	.	.

Off-site

Vision	+	+	+	+	+	+
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	.	.	.

Vision	+	+	+	+	+	.
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	+	.	.

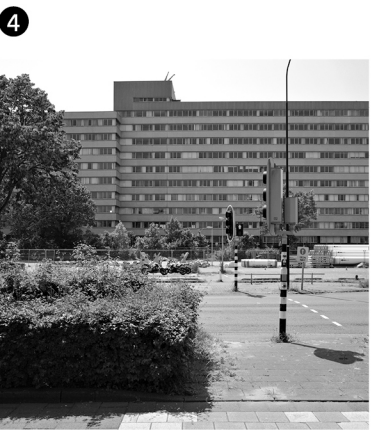
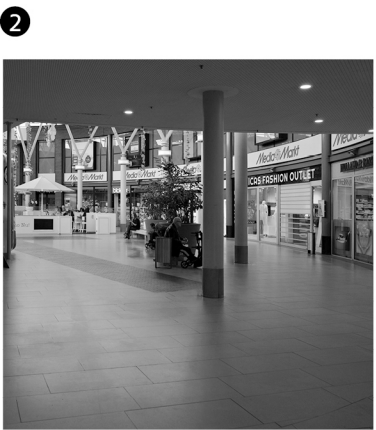
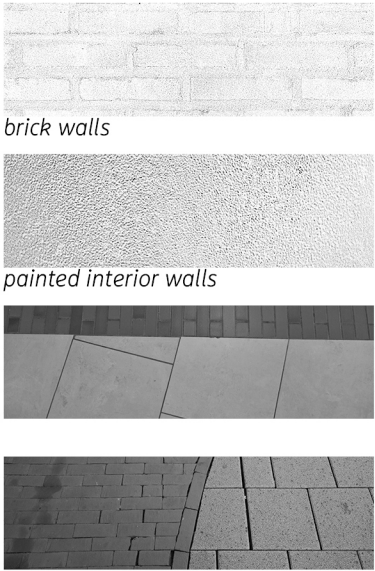
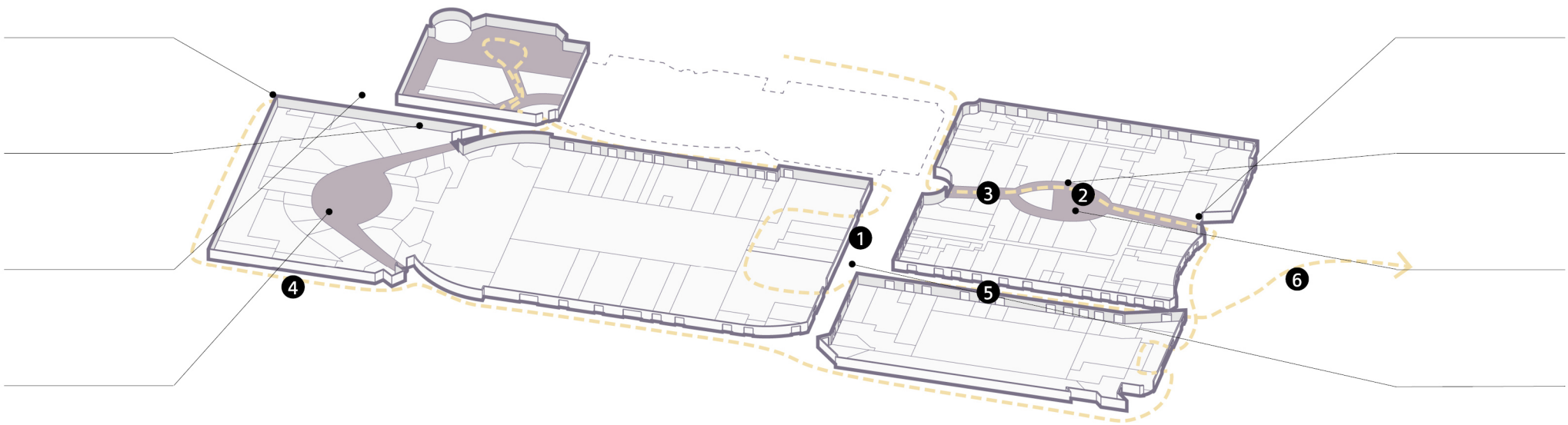
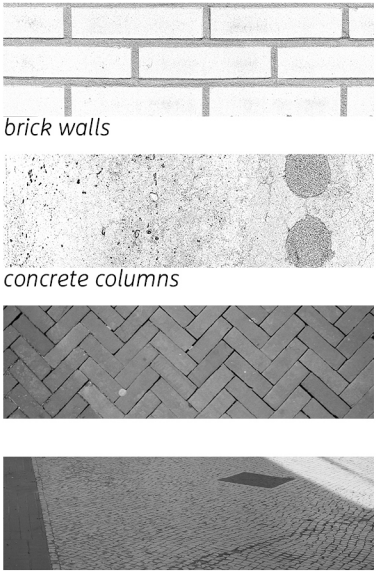
Vision	+	+	+	+	+	.
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	+	.	.

Vision	+	+	+	+	+	+
Hearing	+	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	+	+
Hearing	.	.	.	.	.	.
Smell	+	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	+	.
Hearing	+	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	.	.	.

Bogaard Shopping Centre



On-site

Vision	+	+	+	.	.	.
Hearing	+	+	.	.	.	.
Smell	+	.	.	.	.	.
Touch	+	+	.	.	.	.
Proprioception	+	.	.	.	.	.

Vision	+	+	+	+	.	.
Hearing	+	+	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	.	.
Hearing	+	.	.	.	.	.
Smell	+	+	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	.	.
Hearing	+	+	.	.	.	.
Smell	+	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	.	.	.
Hearing	+	.	.	.	.	.
Smell	+	.	.	.	.	.
Touch	+	+	+	.	.	.
Proprioception	+	.	.	.	.	.

Vision	+	+	+	.	.	.
Hearing	+	.	.	.	.	.
Smell	+	+	.	.	.	.
Touch	+	+	.	.	.	.
Proprioception	+	.	.	.	.	.

Off-site

Vision	+	+	+	+	+	+
Hearing	+	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

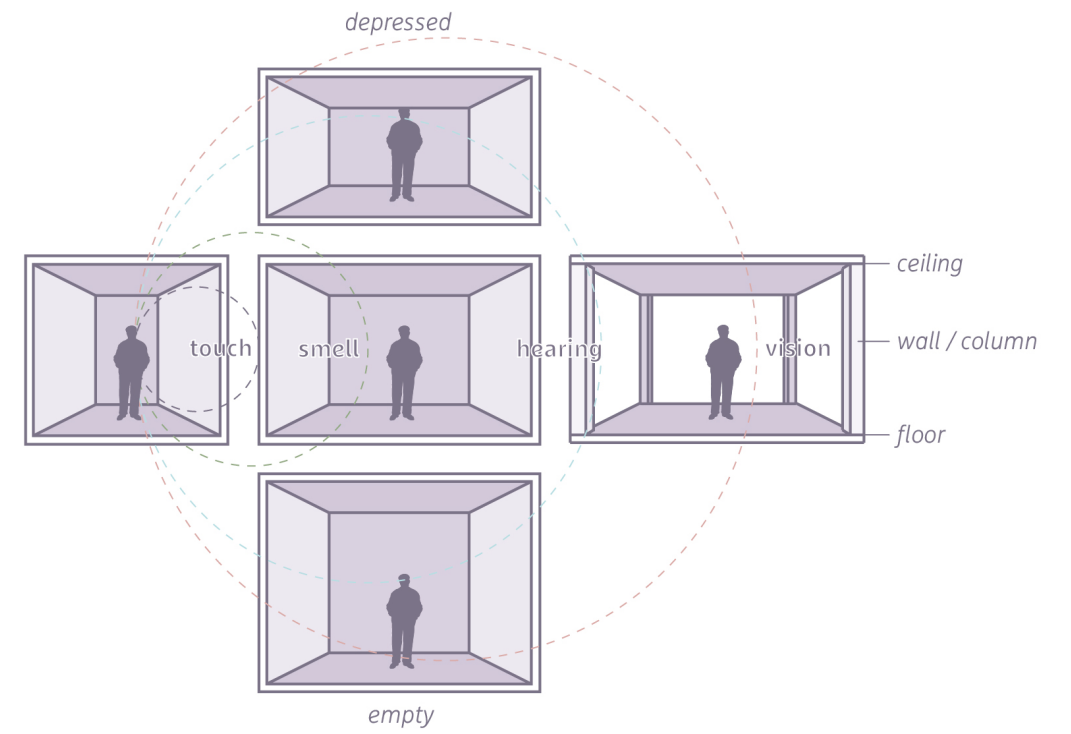
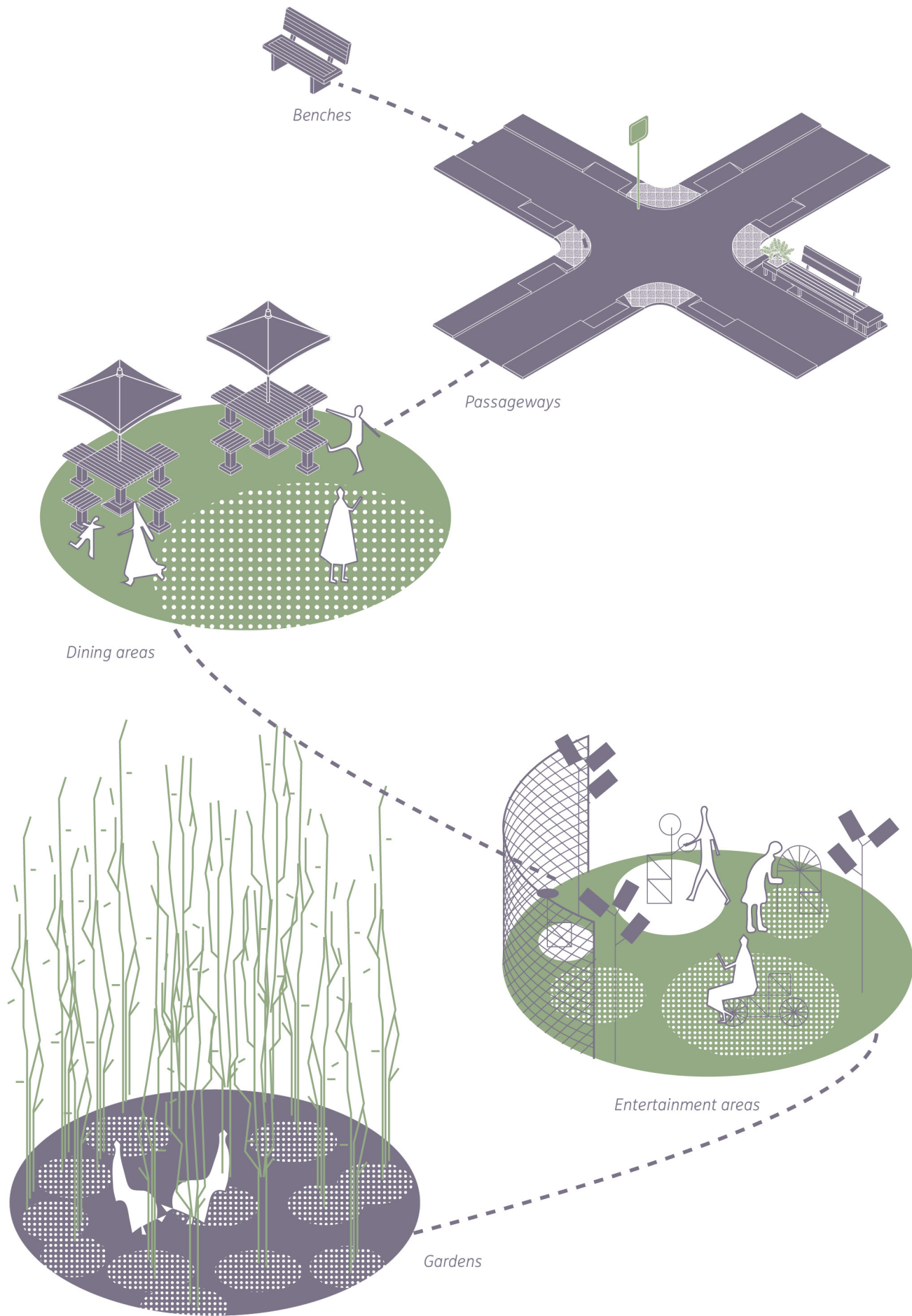
Vision	+	+	+	+	+	.
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	.	.	.	.	.
Proprioception	+	+	+	.	.	.

Vision	+	+	+	+	+	+
Hearing	.	.	.	.	.	.
Smell	+	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	+	+
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	.	.	.

Vision	+	+	+	+	+	+
Hearing	.	.	.	.	.	.
Smell	.	.	.	.	.	.
Touch	+	.	.	.	.	.
Proprioception	+	+	.	.	.	.

Vision	+	+	+	+	.	.
Hearing	.	.	.	.	.	.
Smell	+	.	.	.	.	.
Touch	.	.	.	.	.	.
Proprioception	+	+	+	+	.	.



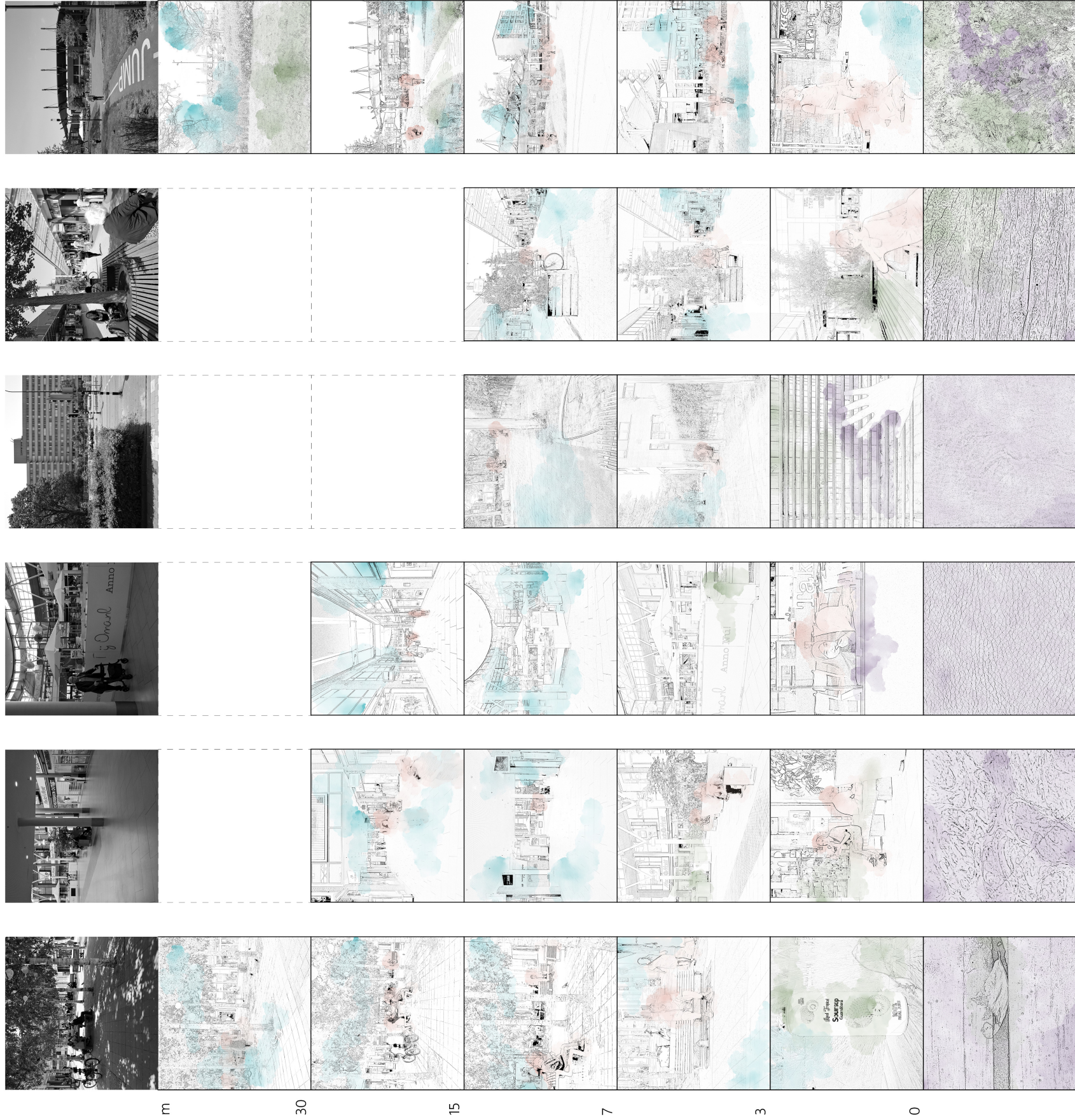
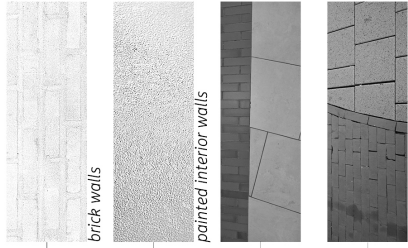
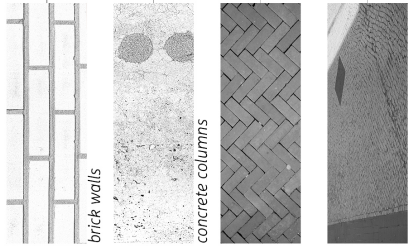
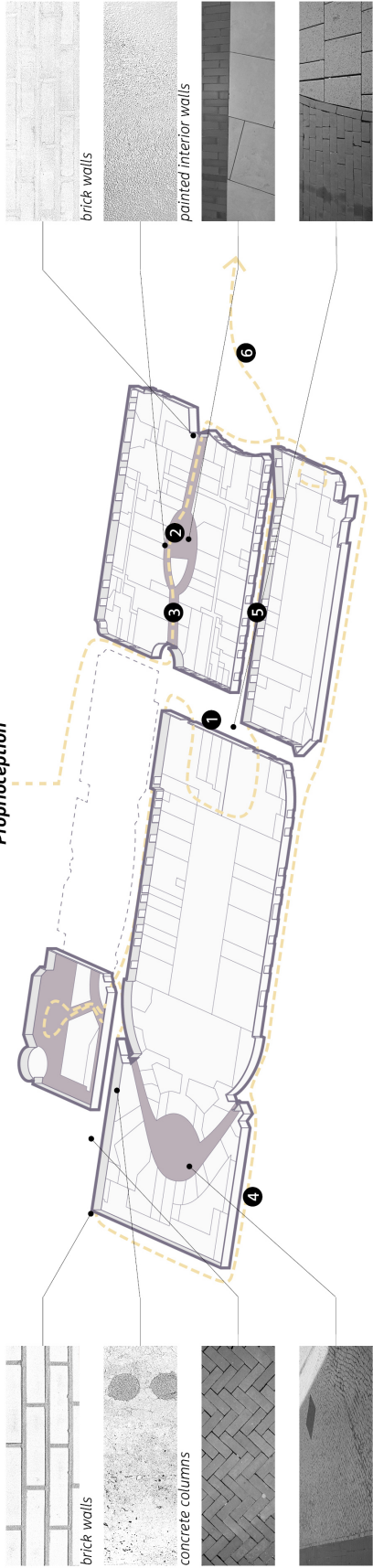
ECOLOGICAL SPIRITUAL ESSENTIAL EXISTENTIAL [COE,1975]	SOCIAL SPIRITUAL EMOTIONAL (IND.) EMOTIONAL (COL.) ALLEGORICAL [SPAB,1877]	ECONOMIC USE NON-USE ENTERTAINMENT ALLEGORICAL [COE,1966]
AGE WORKMANSHIP EXISTENTIAL MATURITY [SPAB,1877]	VALUES OTHER [1877-2005]	POLITICAL EDUCATIONAL MANAGEMENT ENTERTAINMENT SYMBOLIC [ICOMOS,1967]
SCIENTIFIC WORKMANSHIP TECHNOLOGICAL CONCEPTUAL [RIBA,1904]	AESTHETICAL ARTISTIC NOTABLE CONCEPTUAL EVIDENTIAL [SPAB,1877]	HISTORIC EDUCATIONAL HISTORIC-ARTISTIC HISTORIC-CONCEPTUAL SYMBOLIC ARCHAEOLOGICAL [SPAB,1877]

(PEREIRA RODERS, 2007;
SPECKENS, 2010; TARRAFA AND
PEREIRA RODERS, 2011)

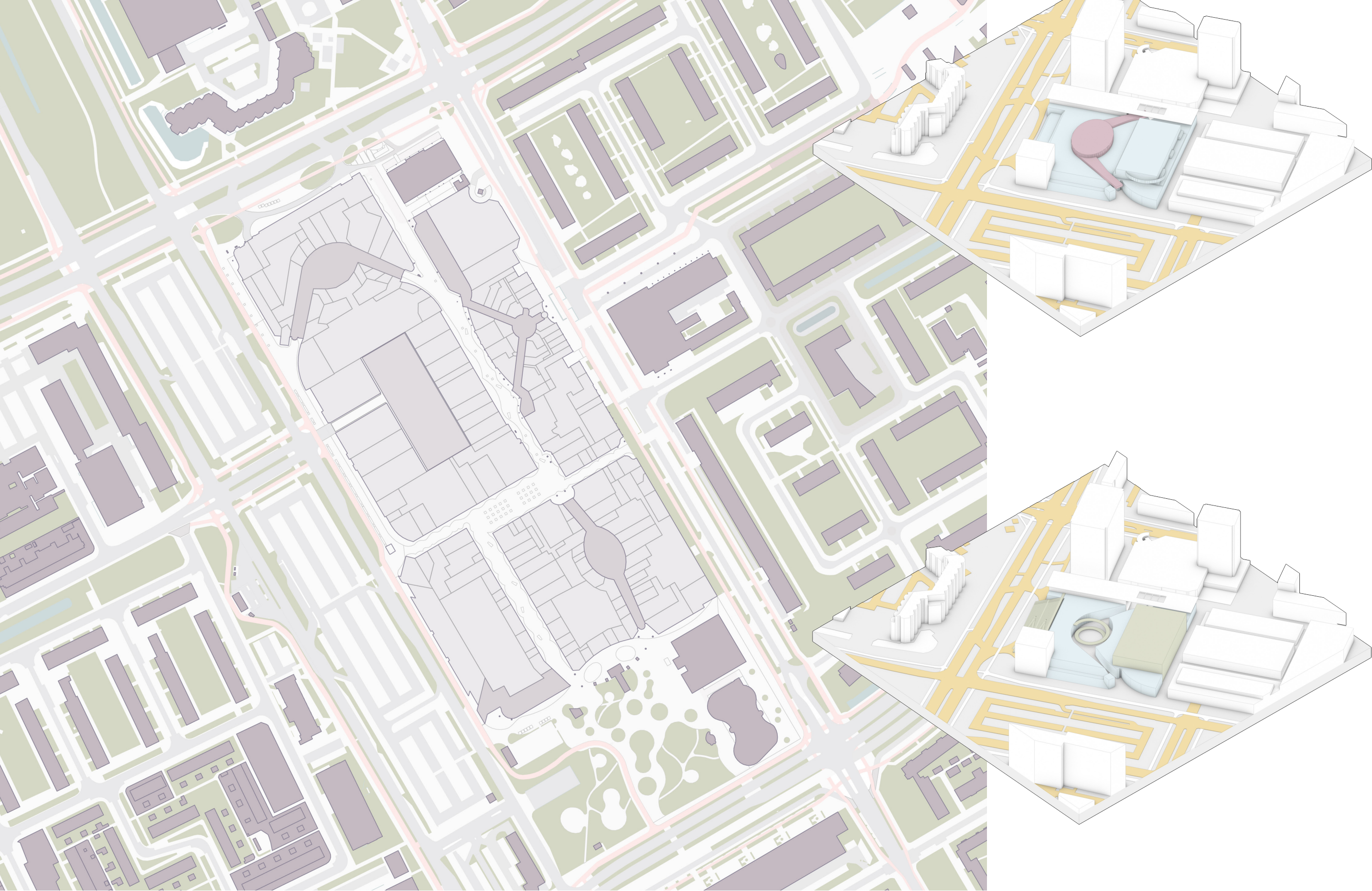
Bogaard Shopping Centre

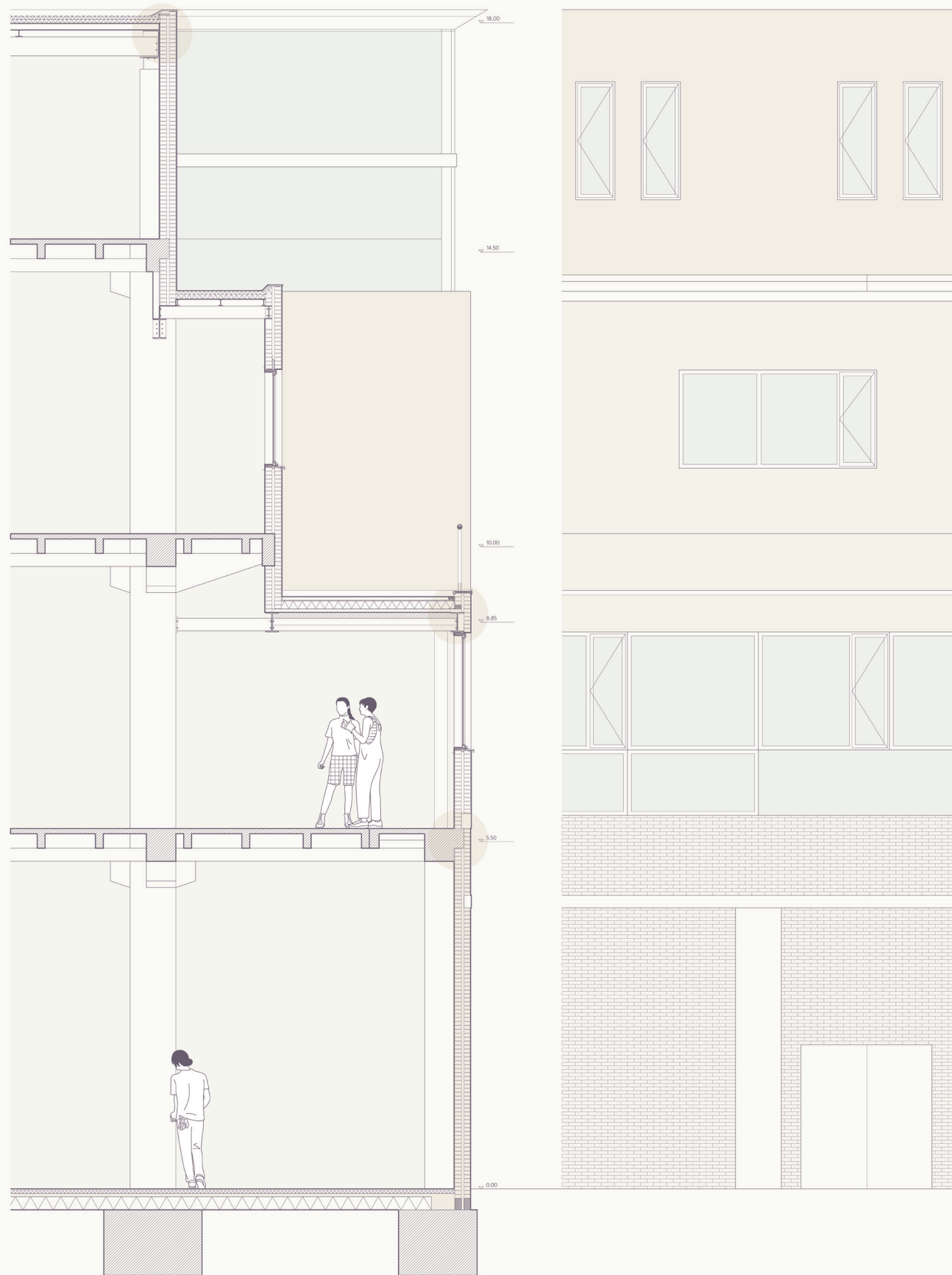
- Vision
- Hearing
- Smell
- Touch

Proprioception

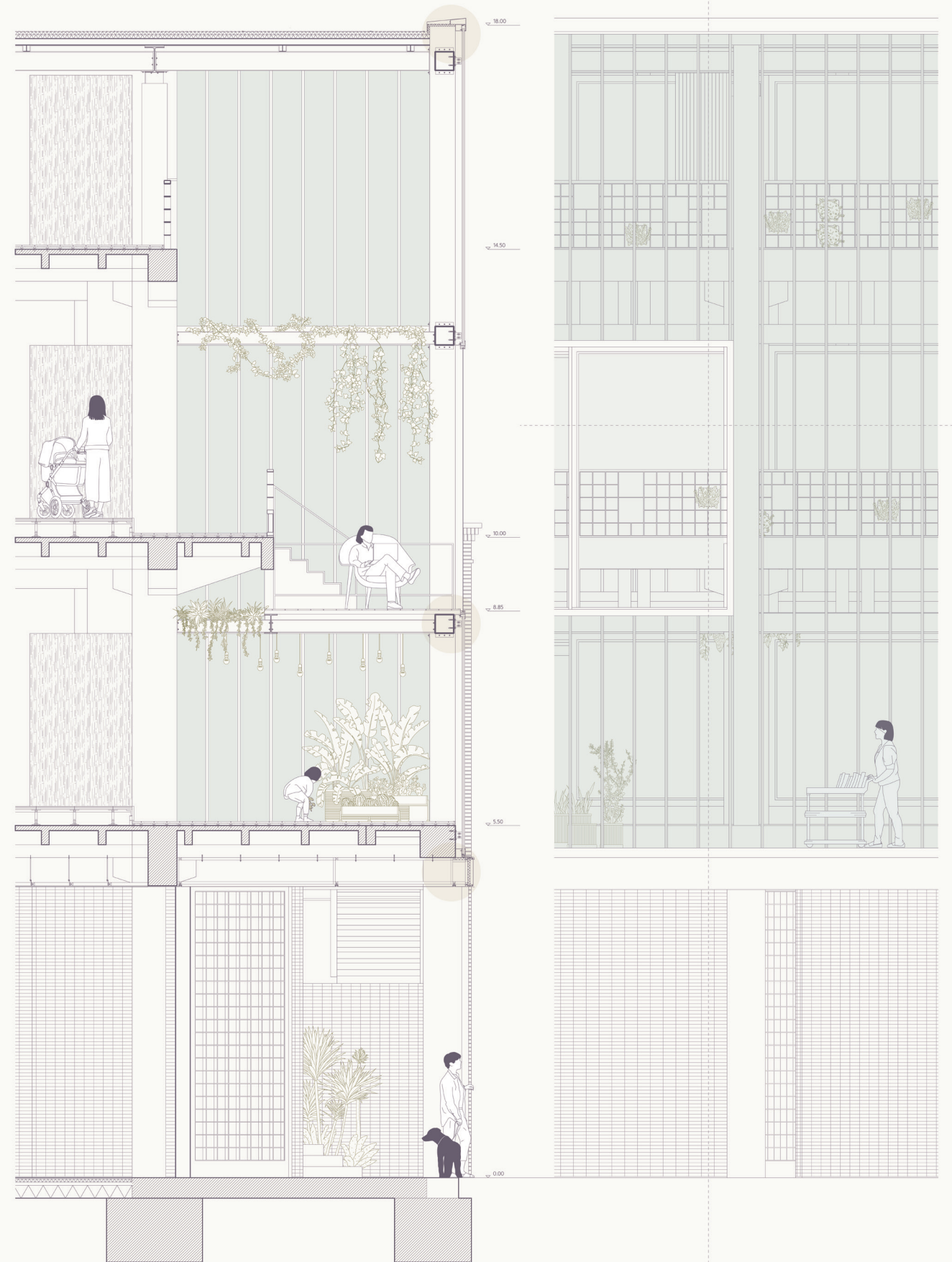


BUILDING TECHNOLOGY

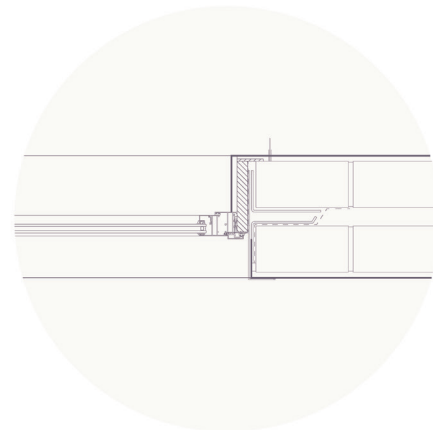
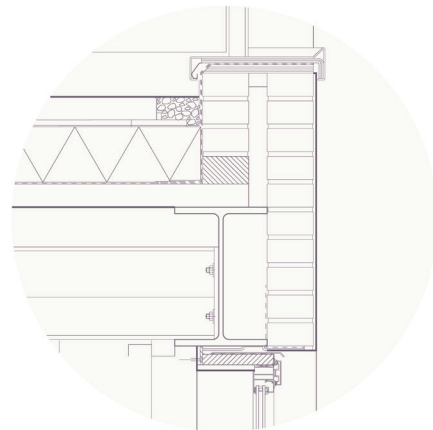
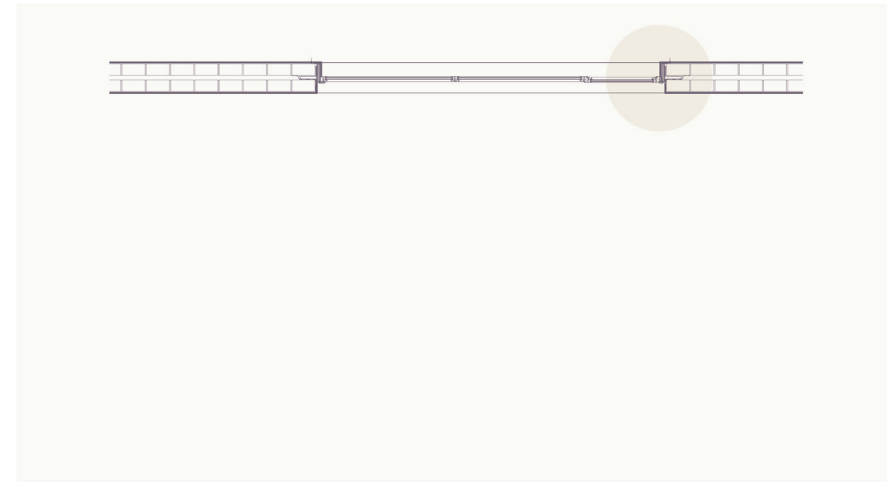
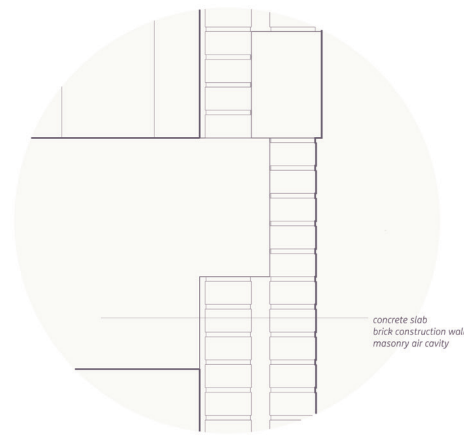
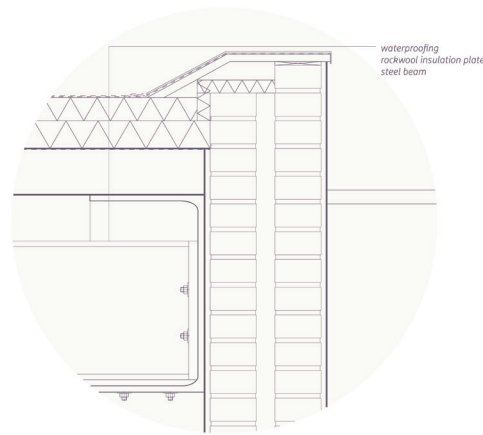




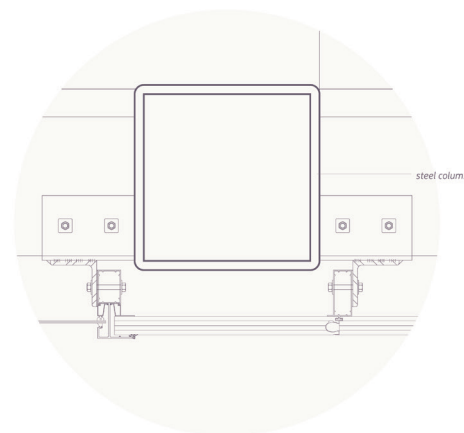
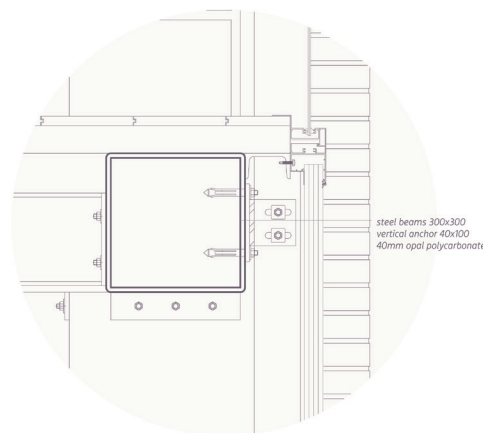
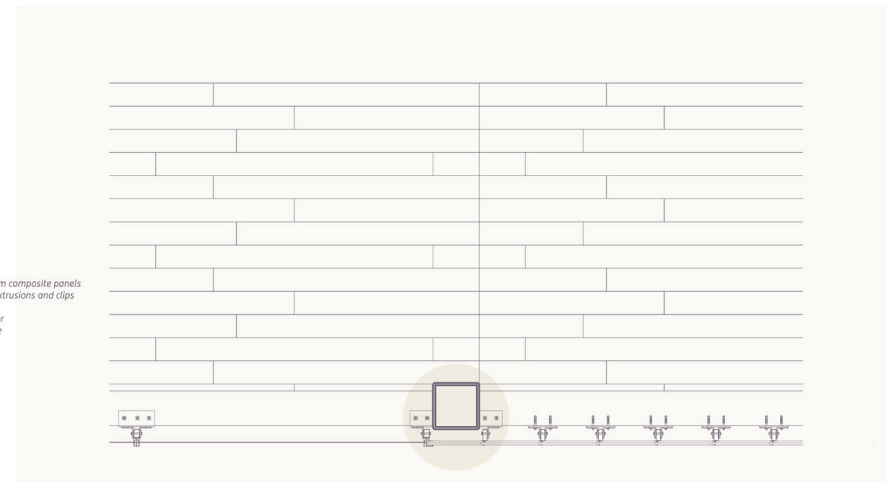
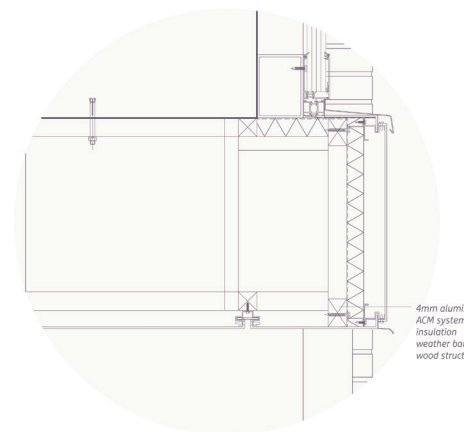
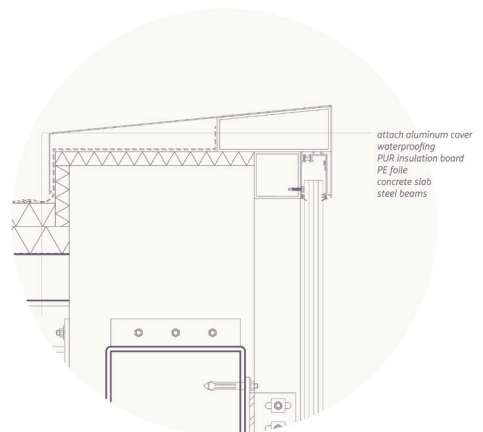
1:20 EXISTING SECTION & ELEVATION



1:20 NEW SECTION & ELEVATION

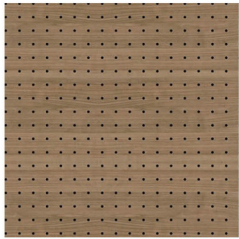


1 : 5 EXISTING SECTION DETAILS

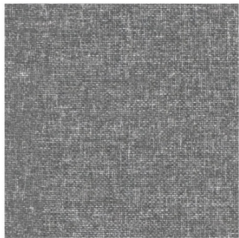


1 : 5 NEW SECTION DETAILS

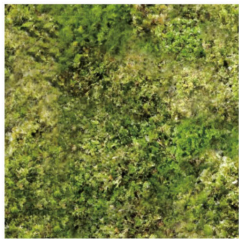
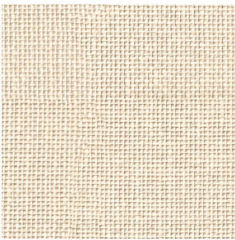
BUILDING TECHNOLOGY



Wood



Fabric



Moss

Positive pressure ventilation system

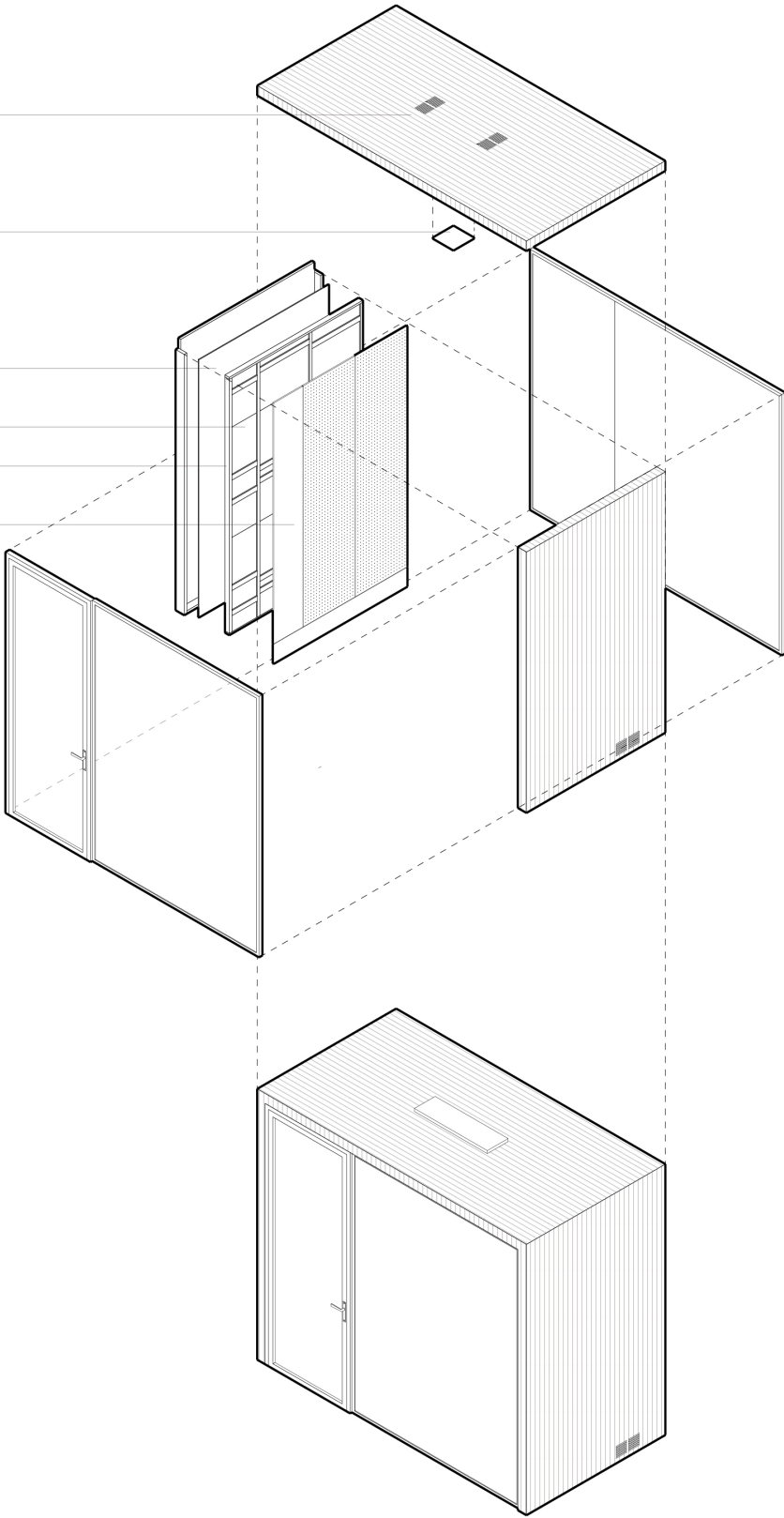
LED lighting

Acoustic felt insulation 8mm

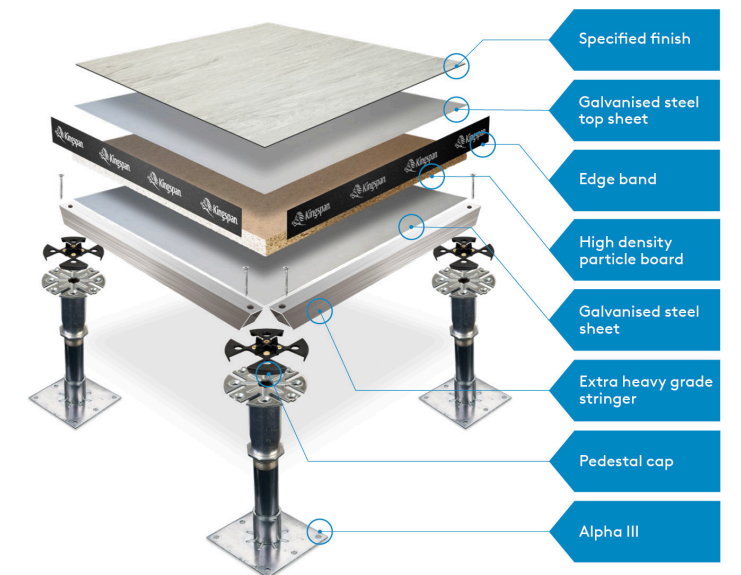
Mineral fibre 40mm

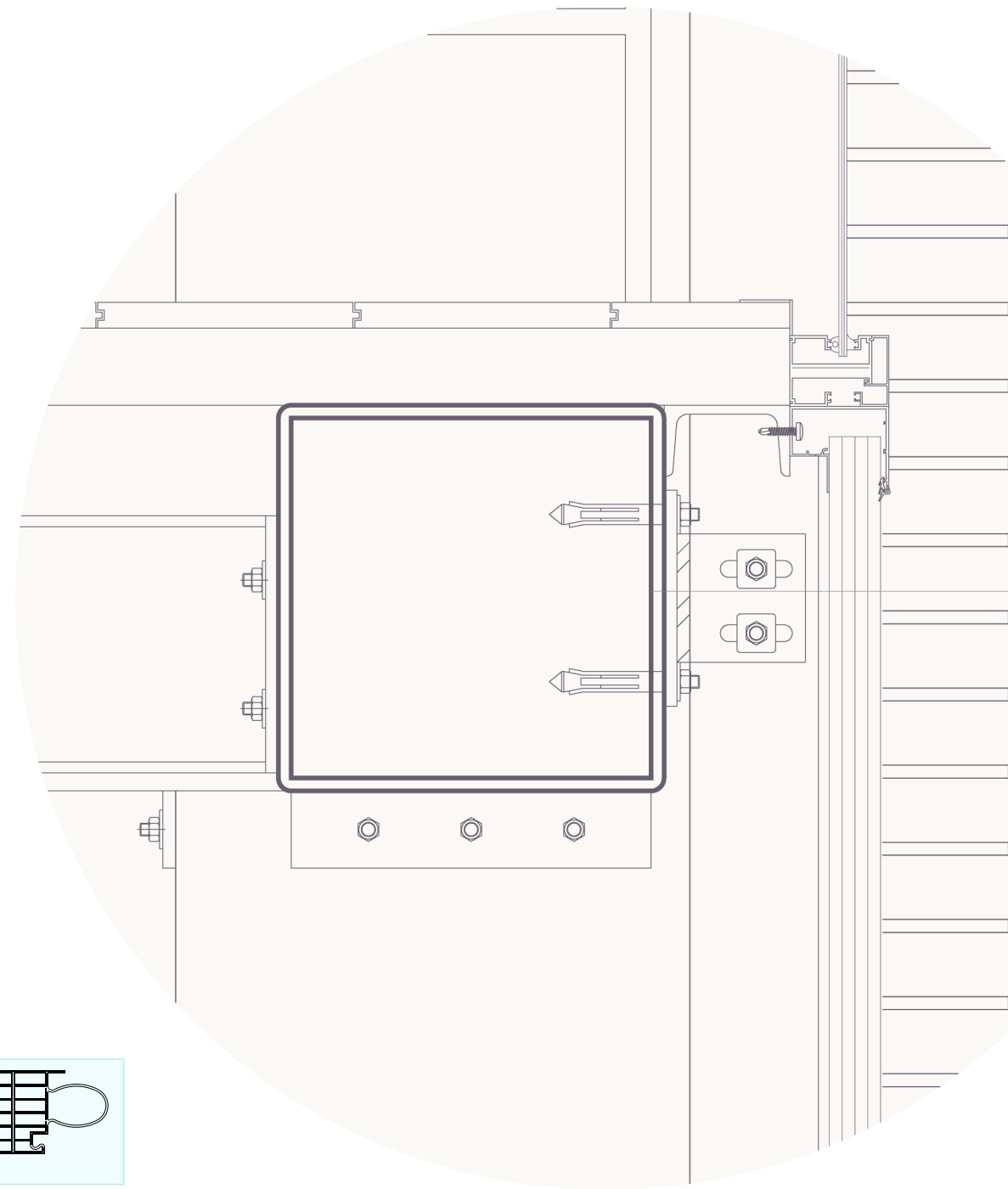
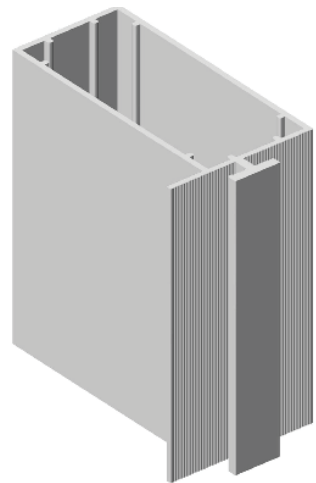
Battens 50mm

Perforated acoustic panels 12mm



RAISED FLOOR

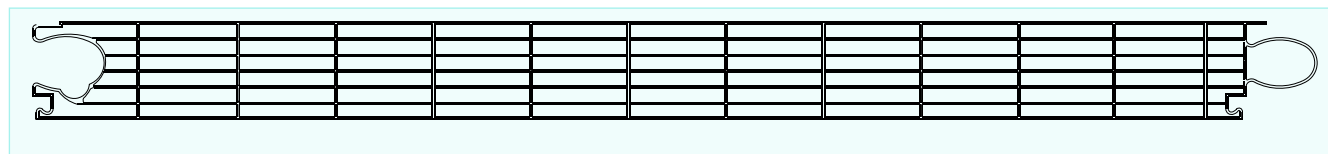




steel beams 300x300
vertical anchor 40x100
40mm opal polycarbonate

Standaard helder en opaal

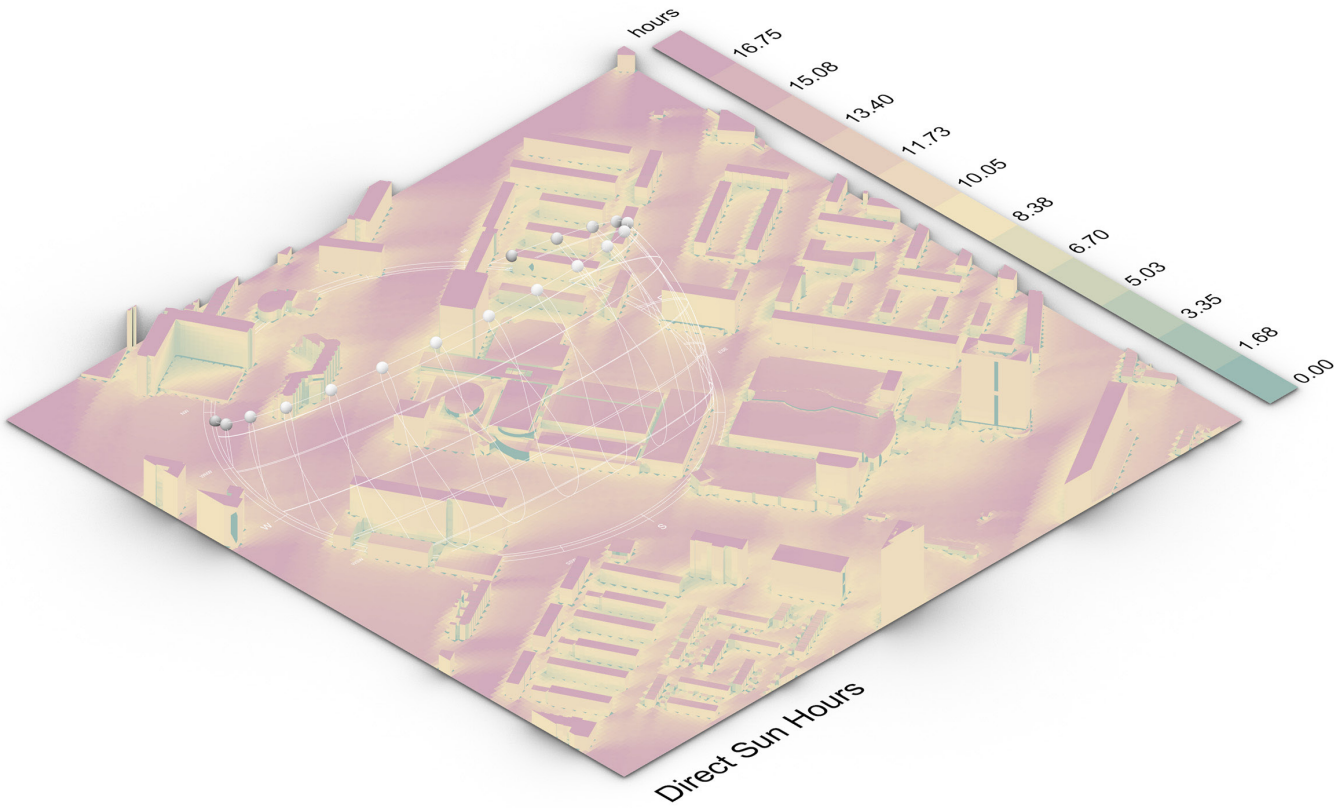
PC 2540-7 U-Waarde van 1.00 - 1.10 W/m²K
Allgemeine Bauaufsichtliche Zulassung Z-10.1-327



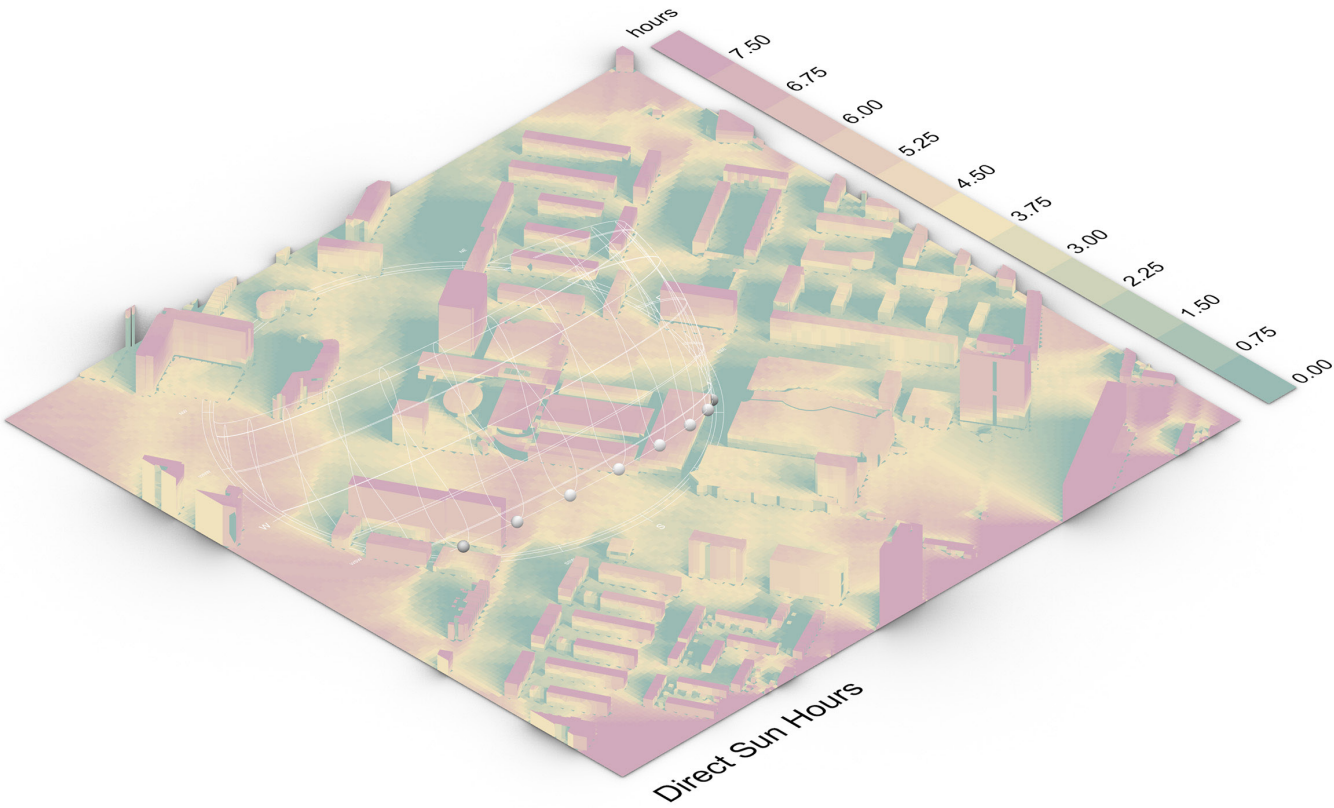
Standaardstructuur GF10

Paneelbreedte 500mm +/-1%

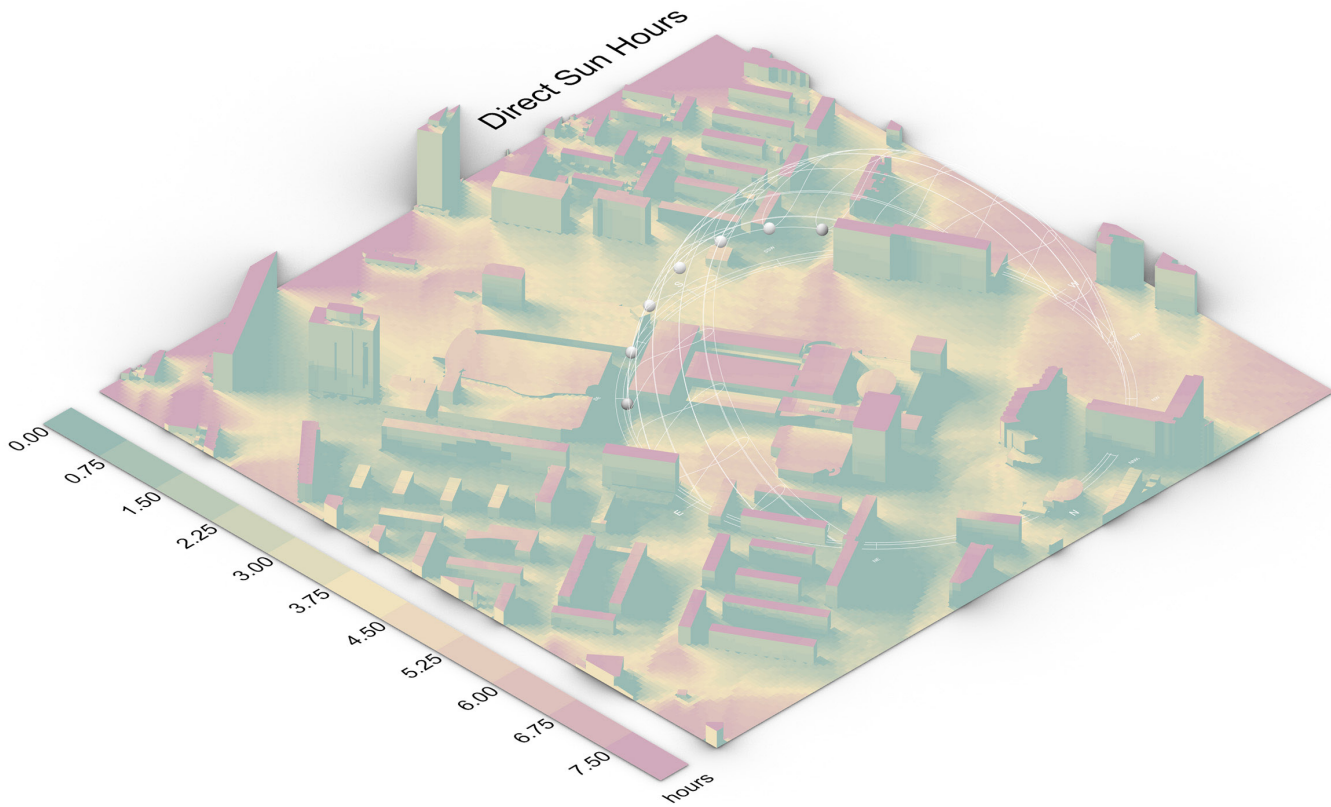
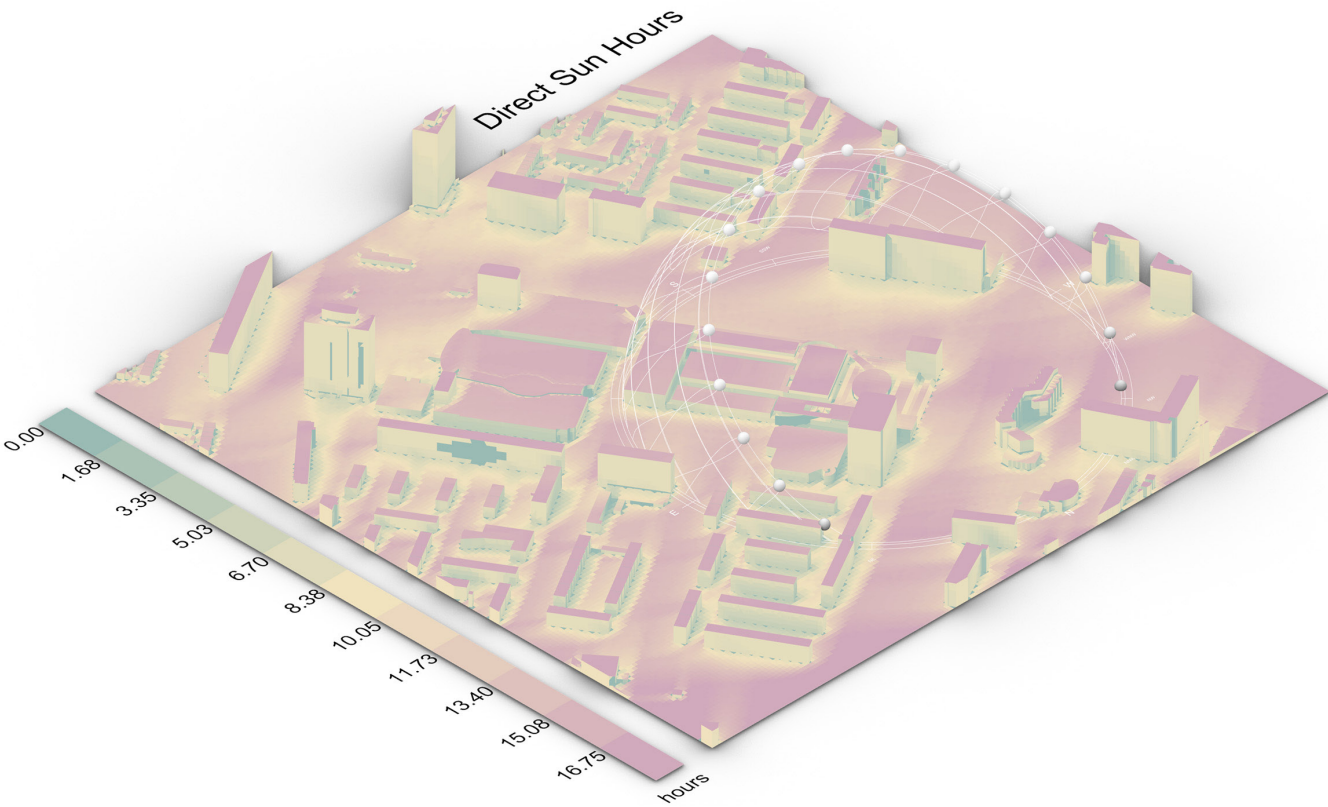
CLIMATE



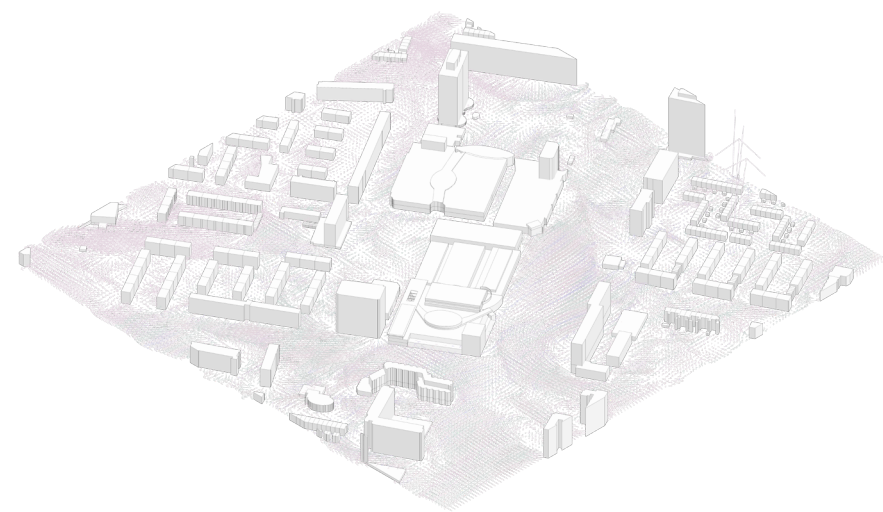
6.21



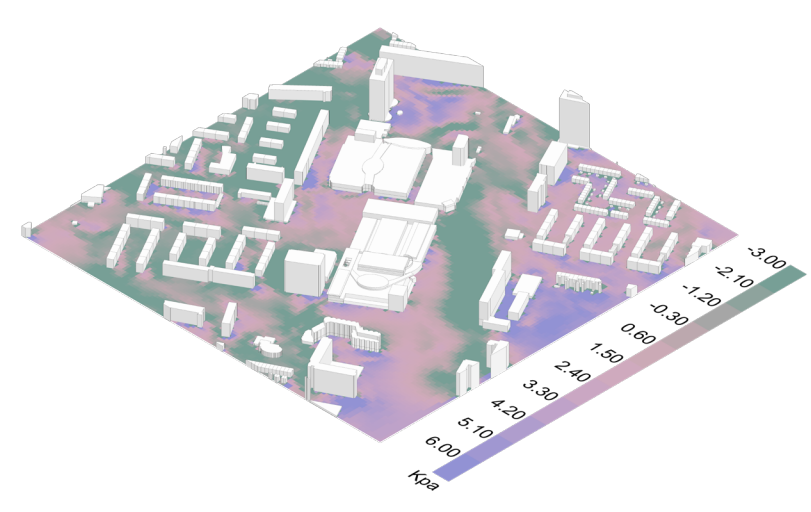
12.21



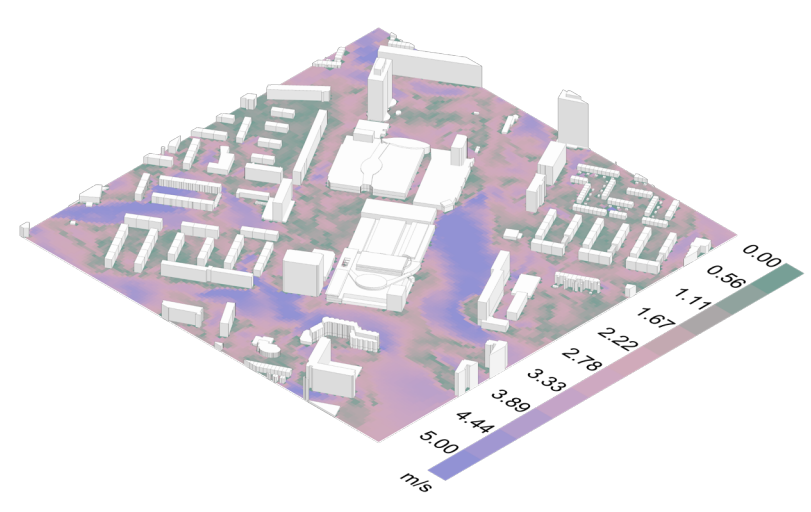
wind direction



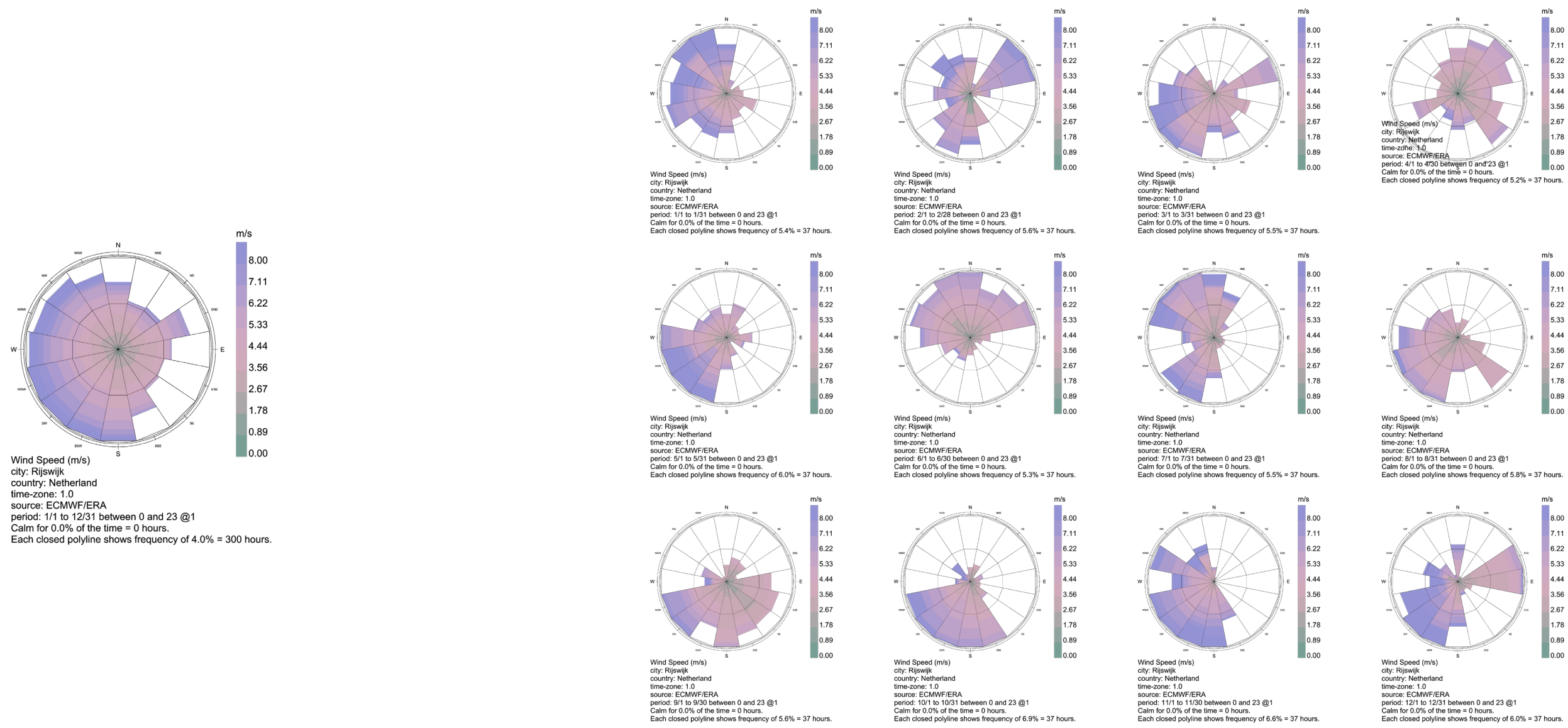
wind pressure

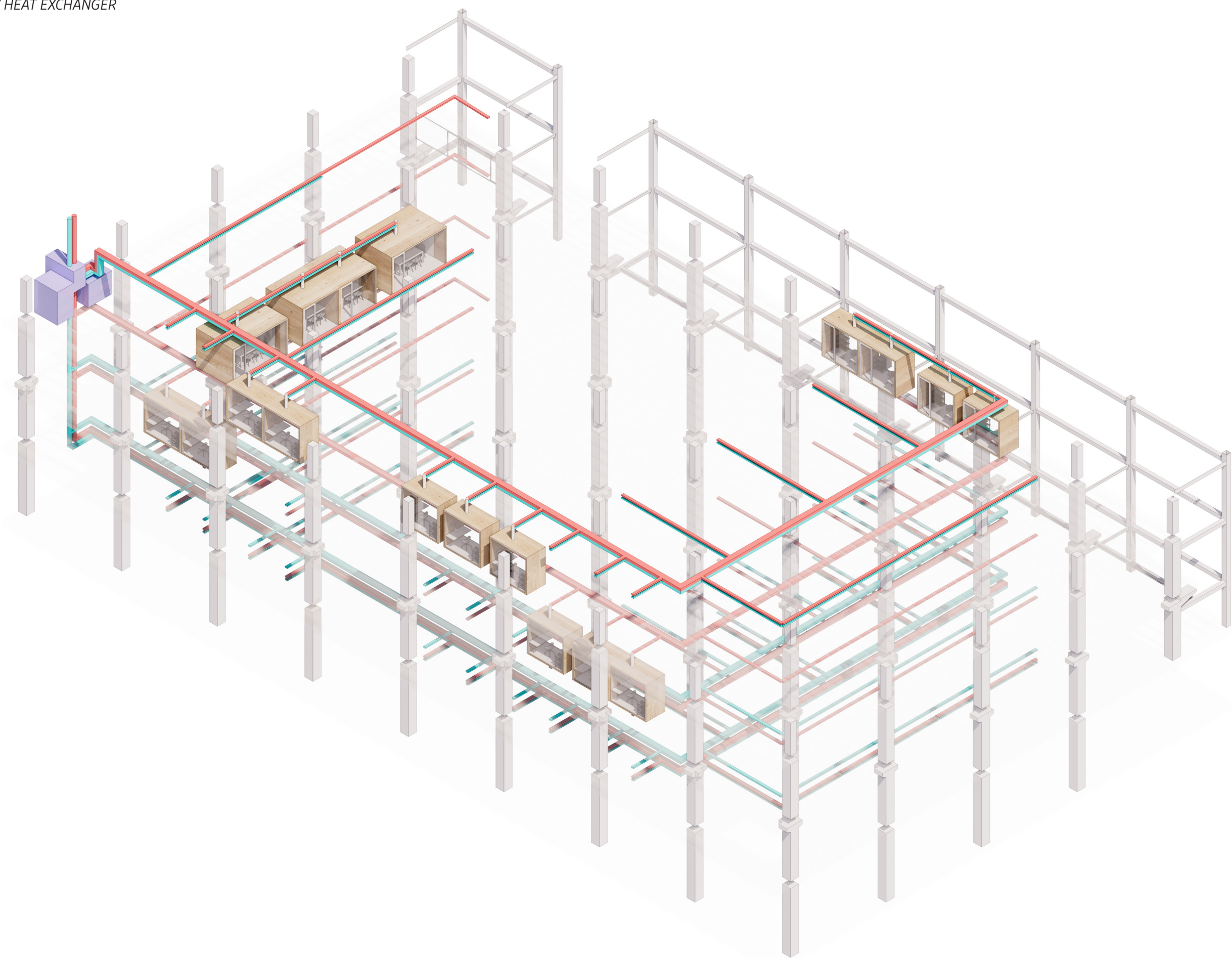


wind speed



wind rose





SUMMER



WINTER

HEAT EXCHANGER |

HEAT PUMP

BOILER

CLOSED

20°C

20°C

18°C

15°C

10°C

COLLABORATION SPACE:
warm excitation of torso