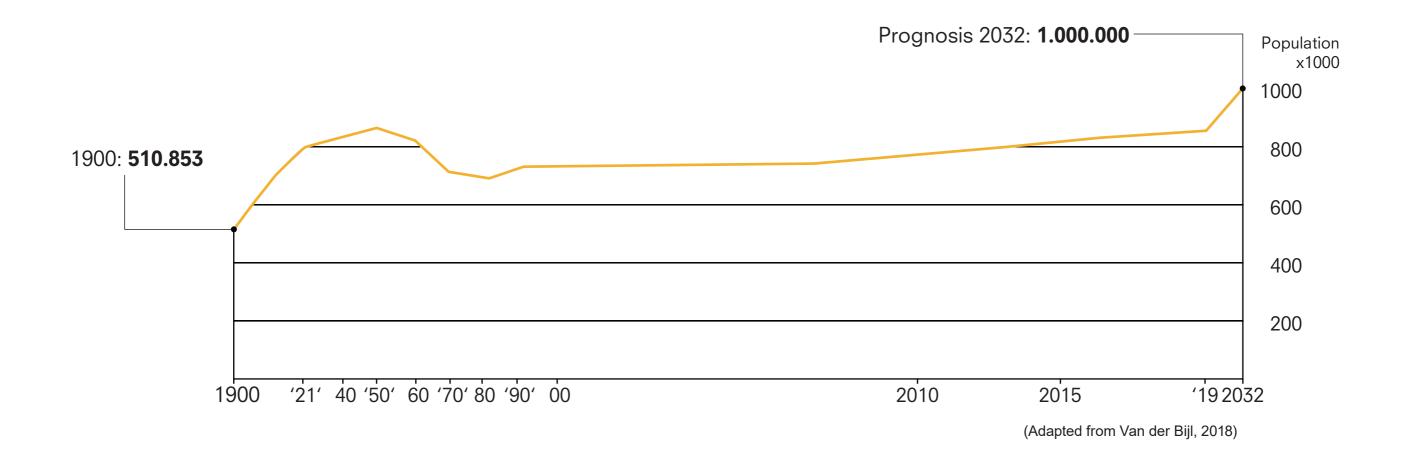




Dutch Housing Graduation Studio Between Standard and Ideals: The future of housing in the Netherlands.

How do we want to live and what kind of buildings do we need to allow for that?







Amsterdammers kunnen het tempo niet bijbenen

(Couzy, 2019a

Moet Amsterdam pas op de plaats maken, of doorgroeien? (Couzy, 2018a) Amsterdam te druk? Wat een grote onzin (Veenhoven, 2018)

'Wil Nederland ertoe doen, dan moeten steden als Amsterdam flink groeien' (Hemel, 2018)





'WERELDDORP OR METROPOLIS

Metropolis: "a very large and busy city." Oxford Dictionaries (2019)

Metropolitan: "of, noting, or characteristic of a metropolis or its inhabitants, especially in culture, sophistication, or in accepting and combining a wide variety of people, ideas, etc" (Dictionary.com, 2019).

"Amsterdam has reached its third Golden Age"

The argument for a the metropolis:

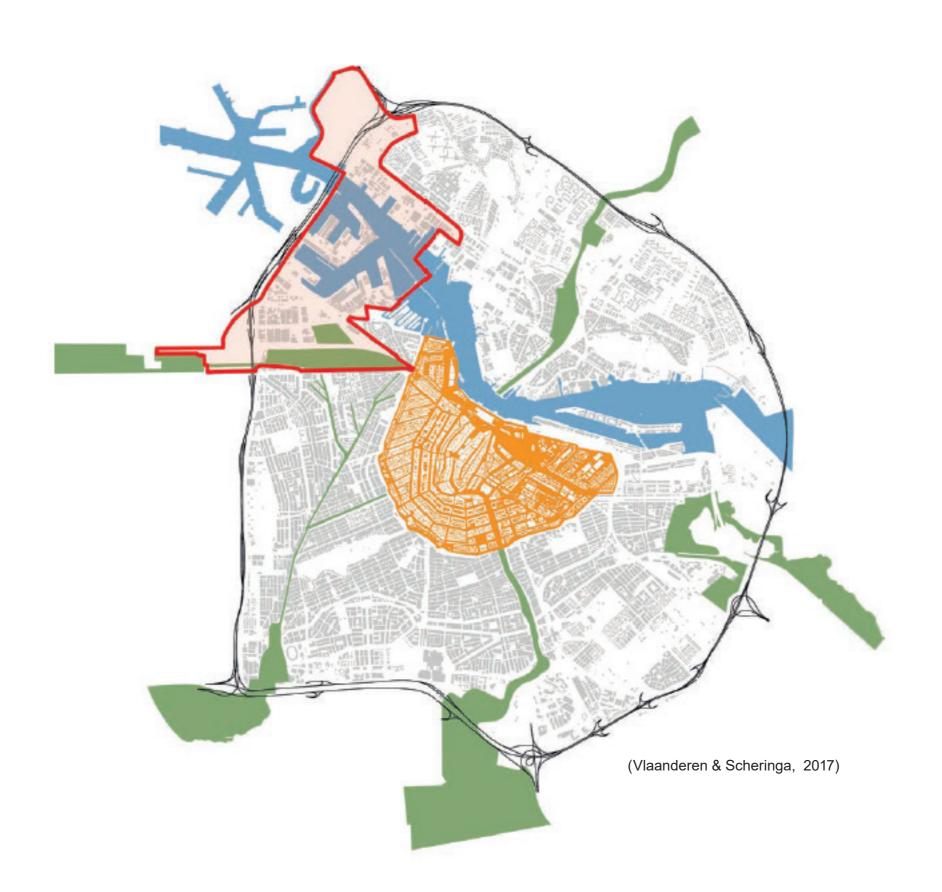
"big cities are better, the biggest even the best this world has to offer to its people. Metropolises are more wealthy, complex, varied, innovative and sustainable than small cities, they offer each person the best opportunities for development, progress, career, meaning, happiness, also when you're poor."



(Hemel, 2016)

'Doop Randstad om tot Nieuw Amsterdam'



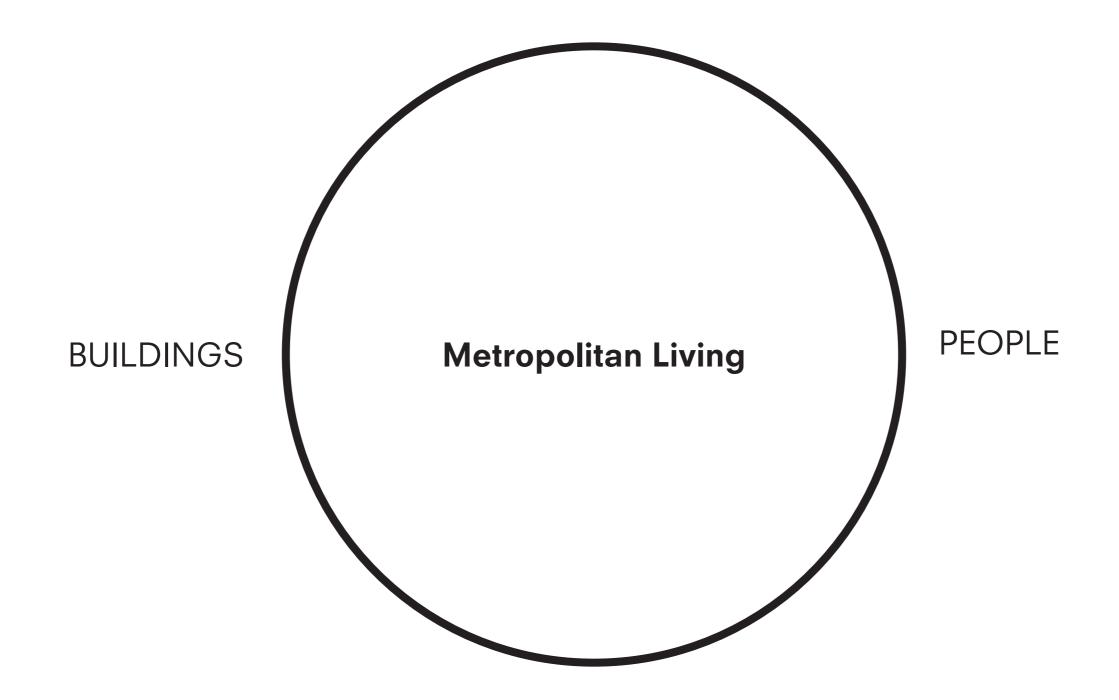


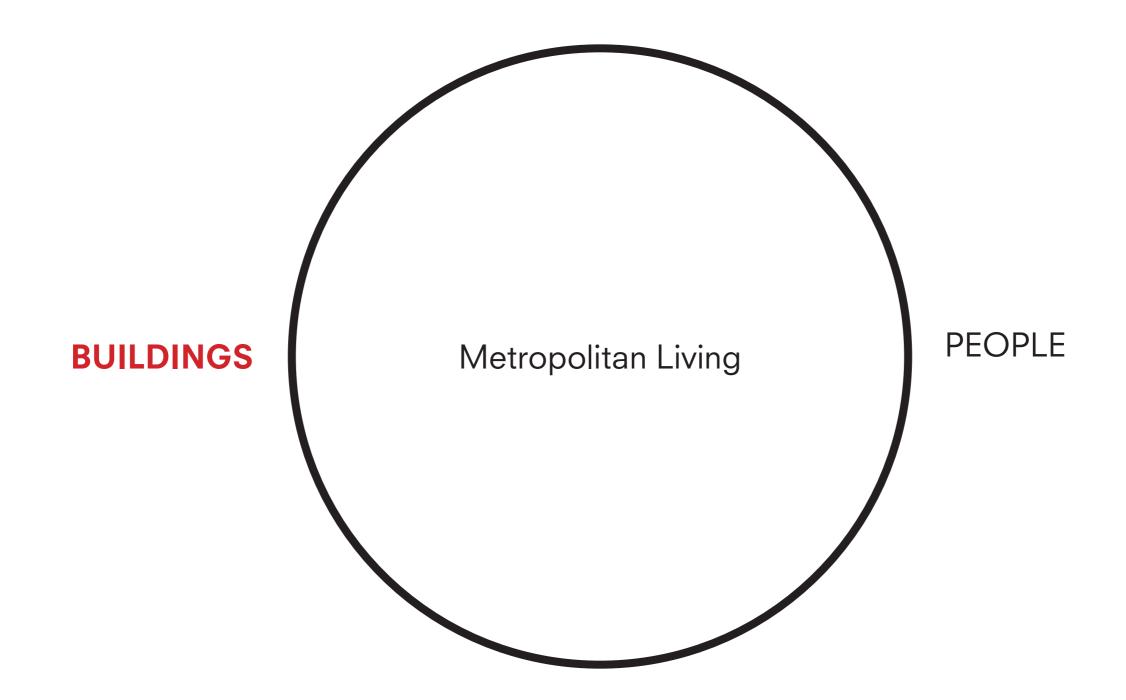
In Haven-Stad wonen en werken straks 150.000 mensen

(Vlaanderen & Scheringa, 2017, p. 11)



"What constitutes a contemporary metropolitan living and dwelling environment?"
RESEARCH QUESTIO





Amsterdam wil met hoge torens 'Vancouver aan het IJ' worden

17 De Volkskrant: With tall towers on its waterfront, Amsterdam wants to become like Vancouver (Gualthérie Van Weezel, 2016)

Gemeente Amsterdam gelooft nog steeds in skyline van de Sluisbuurt

18 NRC: Despite resistance, the municipality still support the plan for the Sluisbuurt high-rise neighborhood (Van den Bergh, 2017).

In je eentje huren in de woontoren, dat is de toekomst

19 NRC: Residential towers are projected to become a more prevalent form of housing in future Amsterdam (De Voogt, 2018).

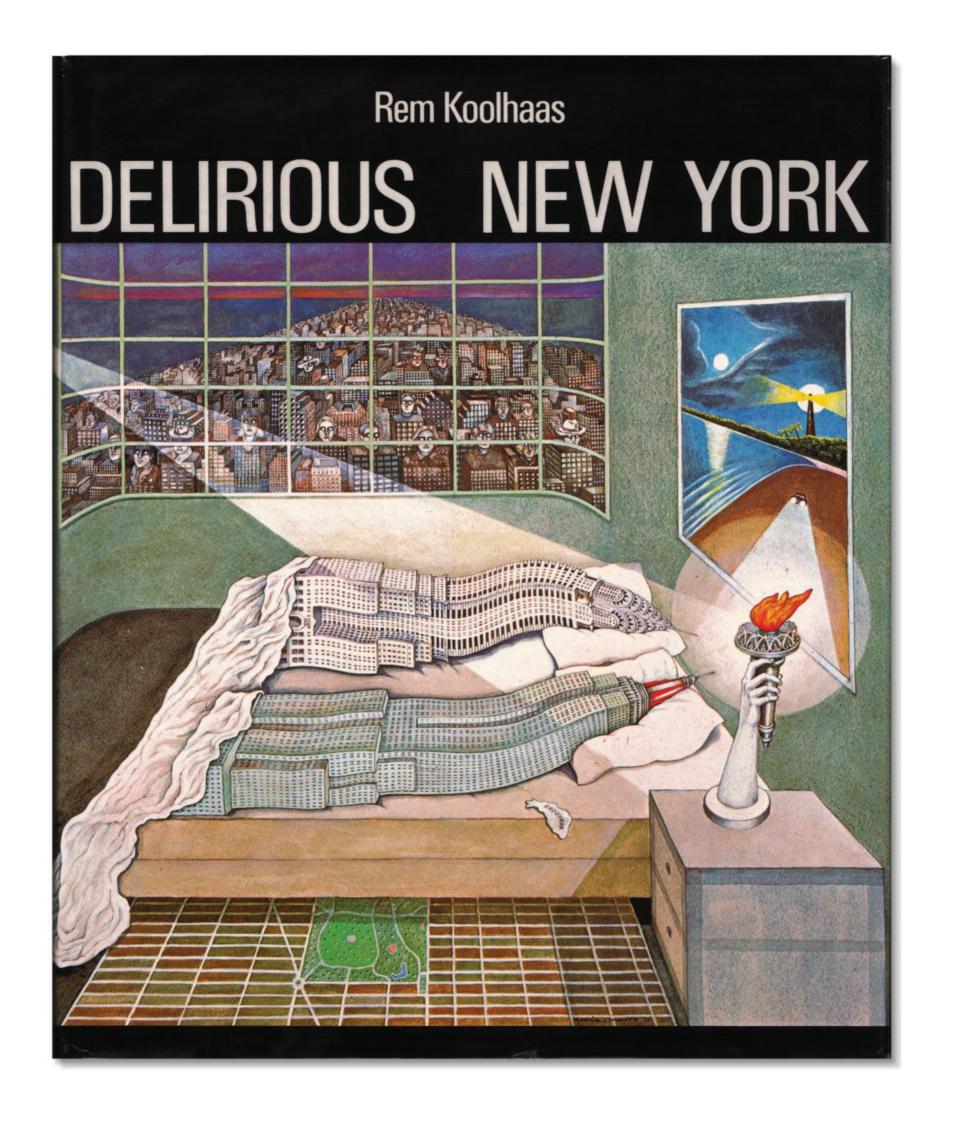
WHY HIGH-RISE?

Icon of metropolis

Municipality's desire

Projected future demand

When clustered together, they can create a critical mass for a more intense urban life with more amenities, services and public activity.



"Bastions of the antinatural, **Skyscrapers** announce the imminent segregation of mankind into two tribes: one of **Metropolitanites** -- literally self-made -- who used the full potential of the **apparatus of modernity** to reach unique levels of perfection, the second simply the remainder of the traditional human race "

Rem Koolhaas in Delirious New York



(Koolhaas, 1994)

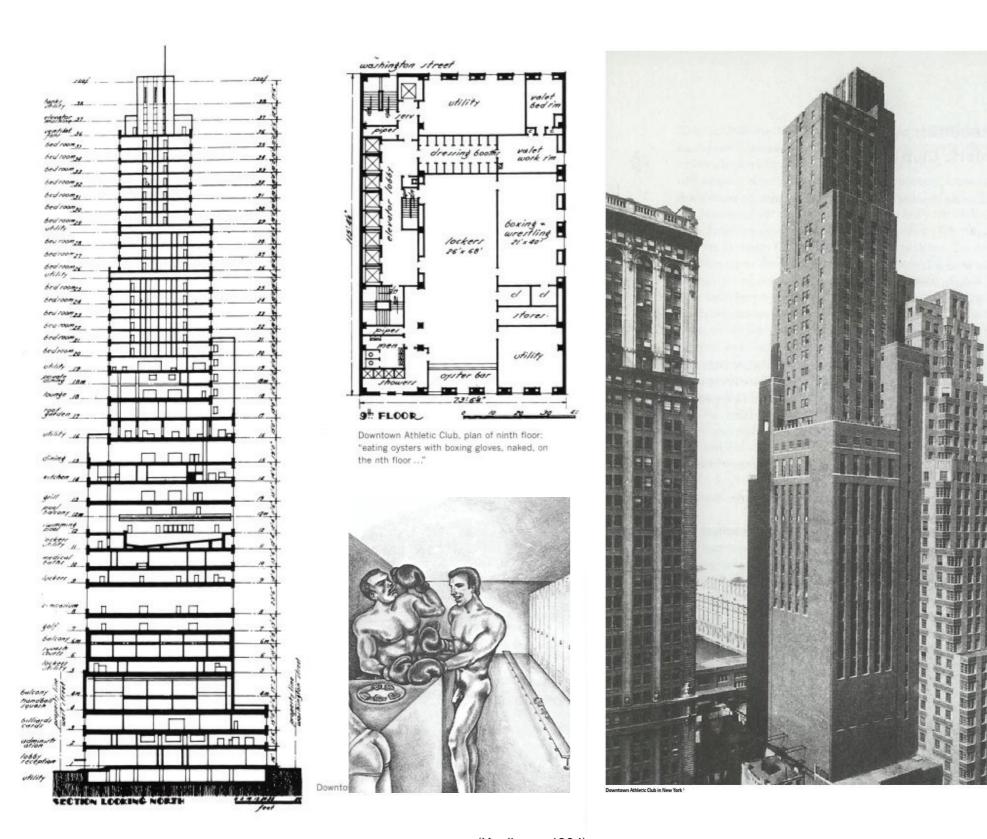
Waldorf Astoria

Residential Hotel

Combines short-stay hotel with longstay apartments

Wealth of entertainment options and services in a 40-story building

"method of modern living": luxury of a hotel, supplementing own living quarters for more sophisticated activities such as banquets and balls.

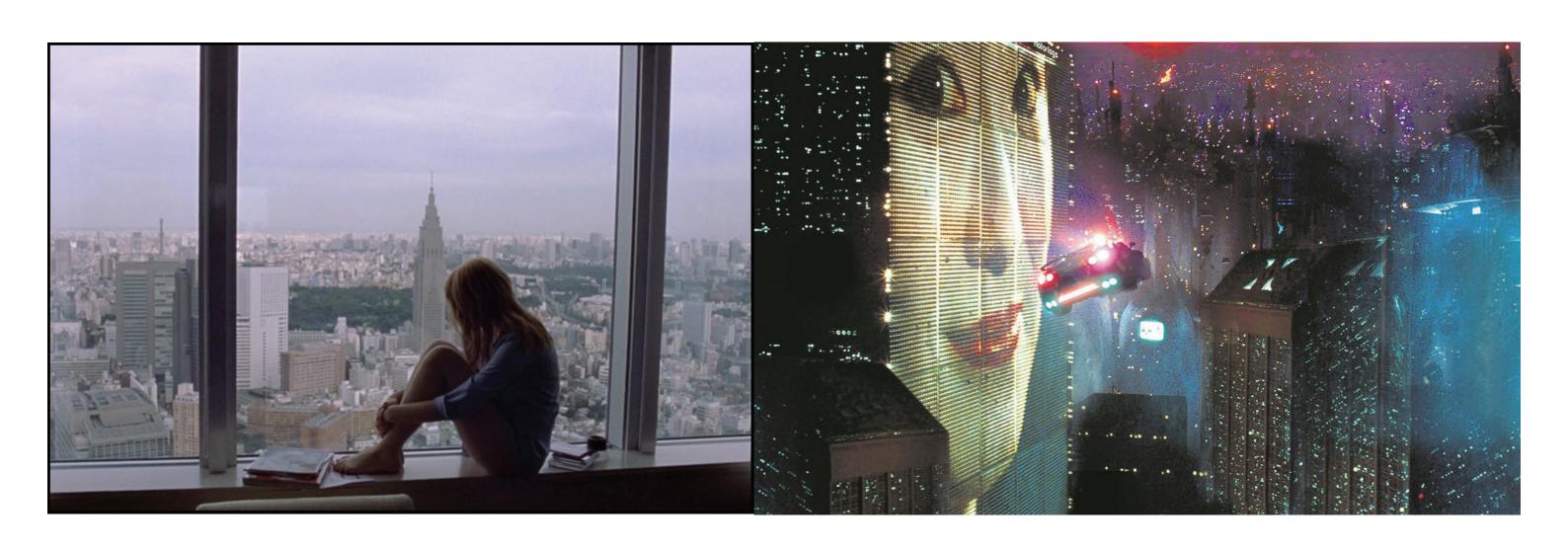


(Koolhaas, 1994)



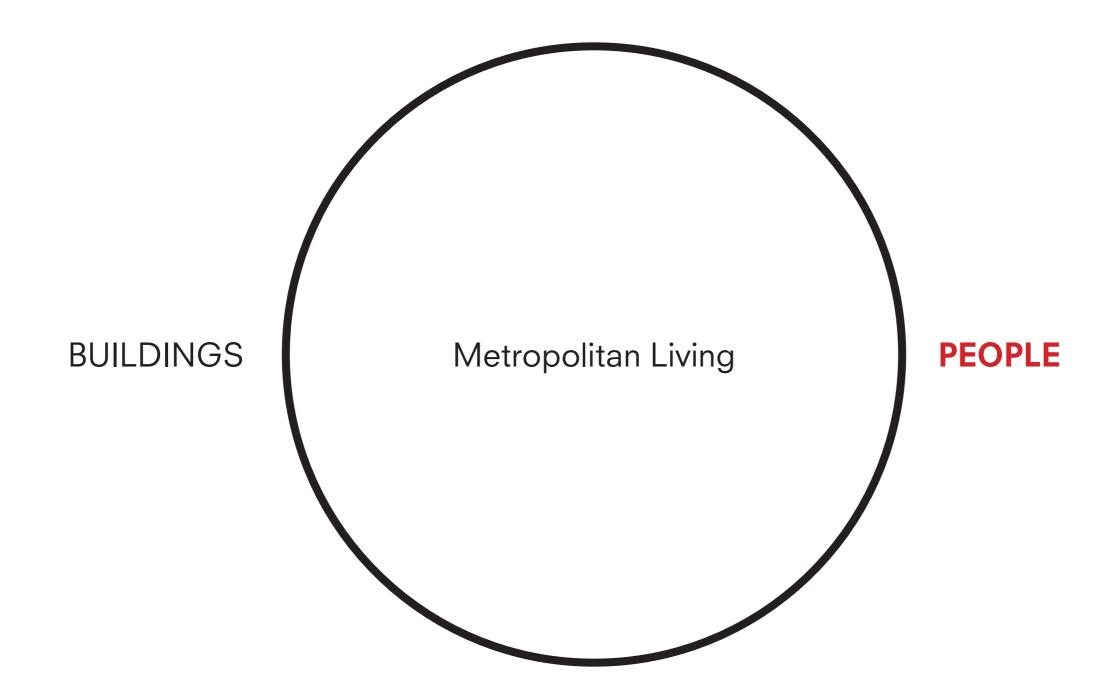
Metropolis - Fritz Lang

Separation into "tower people" and "underground people"





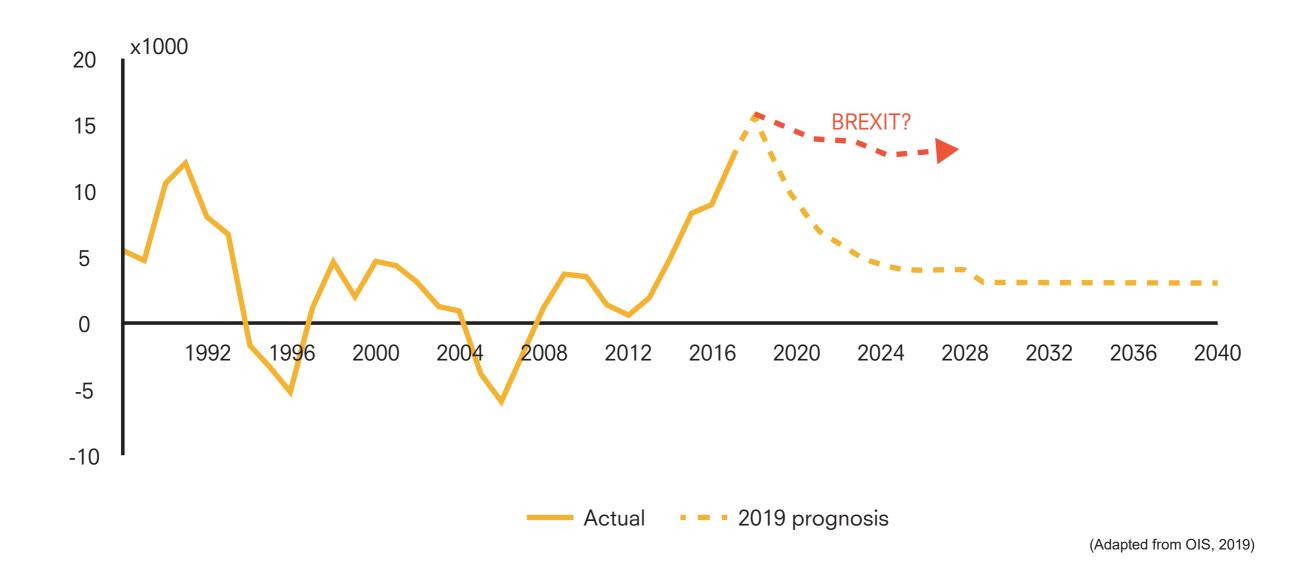


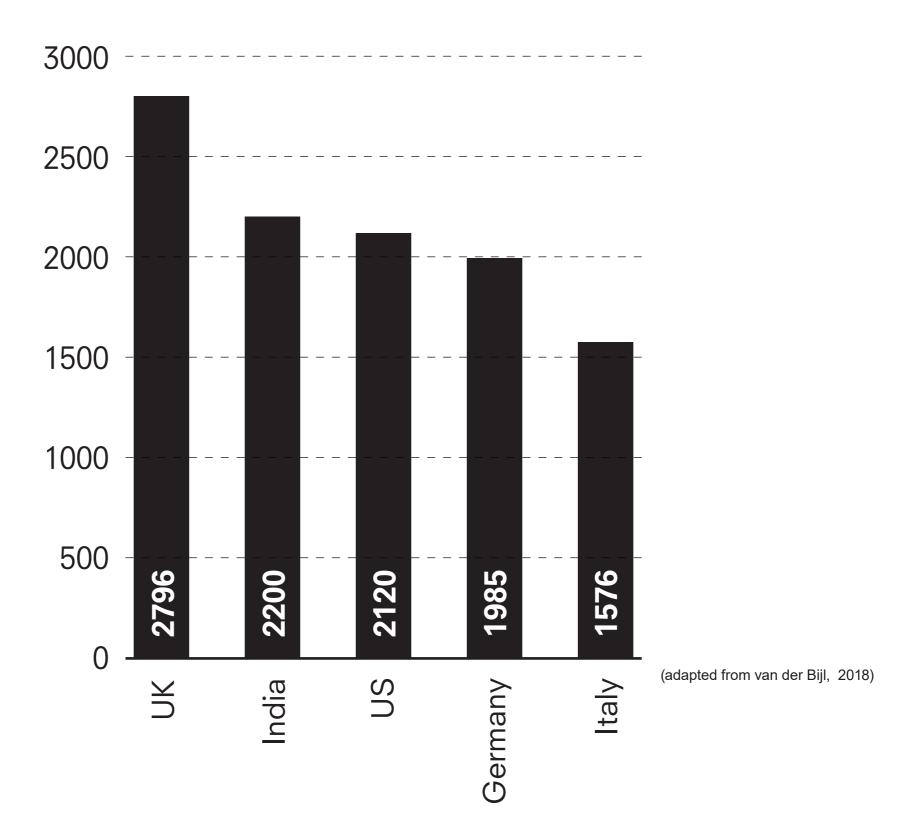


Amsterdam groeit vooral door komst van expats

Voor millennials is Amsterdam de beste stad om te wonen

Amsterdam moet flexibele millennial omarmen

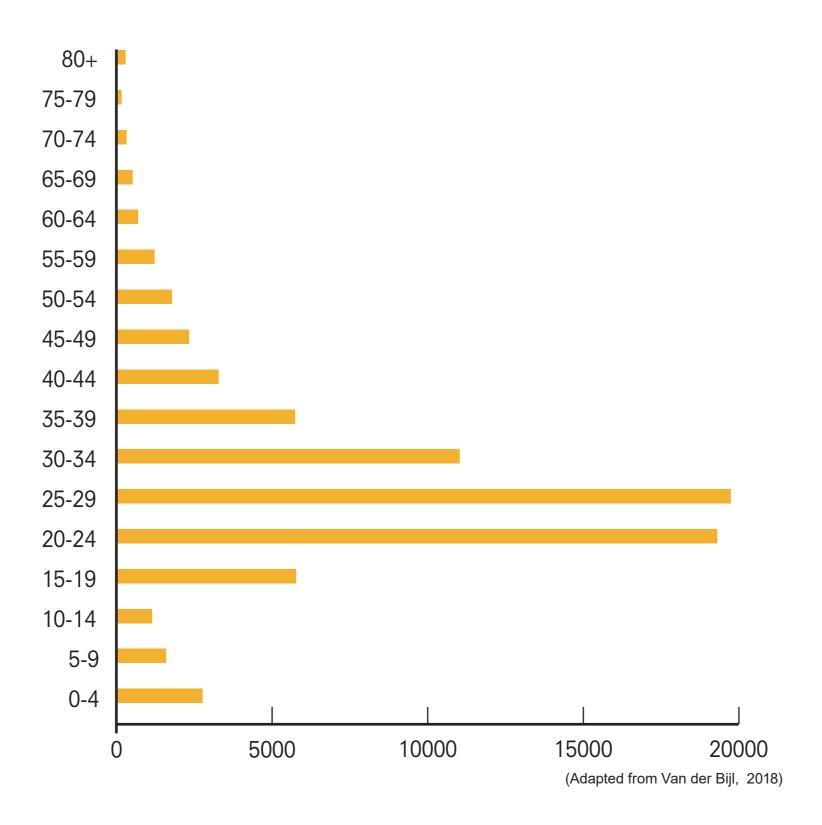


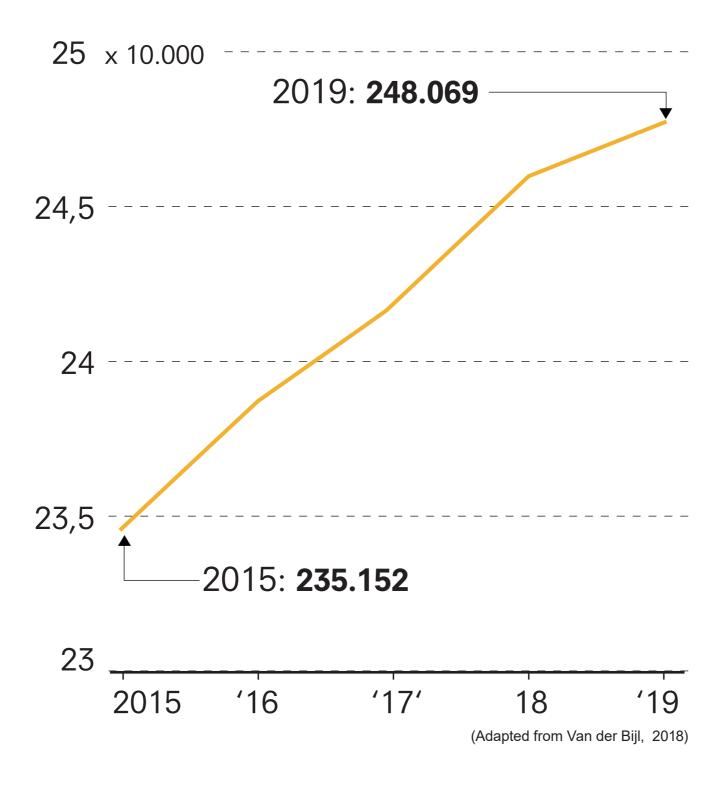


Highly-educated and well-paid foreigners deemed beneficial to the knowledge-based economy in the Netherlands.

EXPATS

- Willing to spend more
- Top %10 'highly skilled migrants', earn more than four times the average Dutch income (140.000)
- First 90% makes 1.5 times the mean (48.000).
- lively and central neighborhood with amenities
- More likely to rent than to buy
- Majority one and two-person households
- typical dwelling is a one-bedroom apartment.





MILLENNIAL YOUNG PROFESSIONALS

- 1. RENT SMALL APARTMENTS (MORE MOBILE, MARKET IS TOO EXPENSIVE FOR BUYING)
- 2. EMPHASIS ON COMFORT AND AMENITIES (BUSY WORK/SOCIAL LIFE)
- 3. FLEXIBLE WORK, LIKES TO WORK FROM HOME, CAFE, NEIGHBORHOOD,
- 4. SOCIAL SPACES AND ACTIVITIES (RESIDENT'S LOUNGE, ACTIVITIES MANAGER)





Larger
More populous
More dense
More high-rise
More amenities







International
Younger
More educated
More single
More wealthy
Lifestyle-oriented

How can a high-rise building be designed to accommodate a contemporary metropolitan lifestyle?

Target Group

Expats (knowledge migrants)
Millennials (young professionals)
High-middle to high income 45.000-100.000+

Building mass

Two identical towers on podium

Building height

18 m podium
Up to 150 m tower (following master plan)

Dwellings

±100x Studio - 30 m² ±200x One-bedroom apartment - 45 to 60 m² ±80x Two-bedroom apartment - 80 to 110 m² ±30x Three-bedroom apartment - 110 m² 4x Penthouse

Podium

Lobby with concierge
Mail and package room
Co-working space
Bike storage
Commercial space
Café
Storage
Service entry
Parking

Access type

Elevator core with 3 elevators + corridor Fire Stairs in core and at end of corridor

Parking

Automated parking in central part of podium parking ratio of 0.1 + Shared cars

Structure

Structural core + columns Standard bay width: 7200 mm

Facade

Formal facade with industrial look

Other Amenities

Roof garden on top of podium Sky deck on 24th floor of both towers Resident lounge Health club with pool Storage Historic analysis of metropolitan apartment living shows that it is characterized by a certain degree of luxury and sophistication.

Exterior appearance:

The exterior of the building emanates luxury through its formal expression and its materials. Stone, polished metal and glass are often used.

Entrance, plinth and lobby:

Entrance and lobby are spacious, tall, well materialized and detailed, furnished with design furniture and art. It gives off an aura of status to those who enter or pass by. Depending on the level of luxury, the lobby has a doorman, for part of the day or for 24 hours.

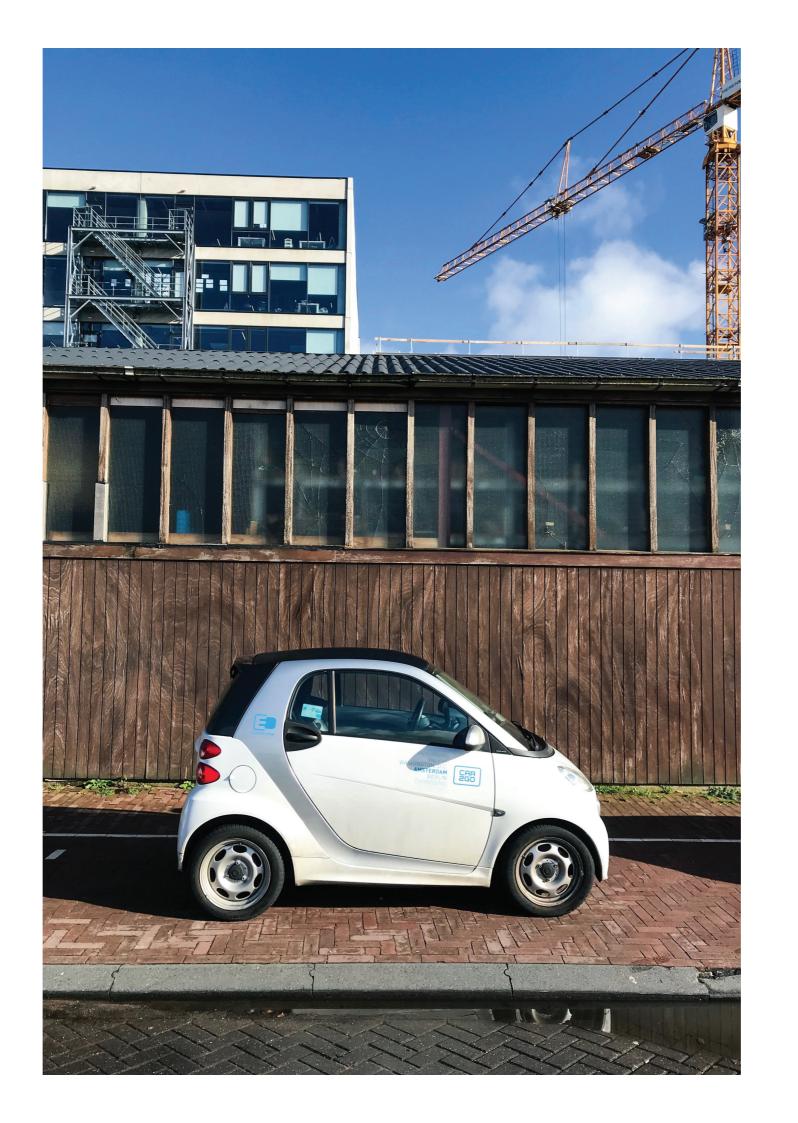
Dwelling

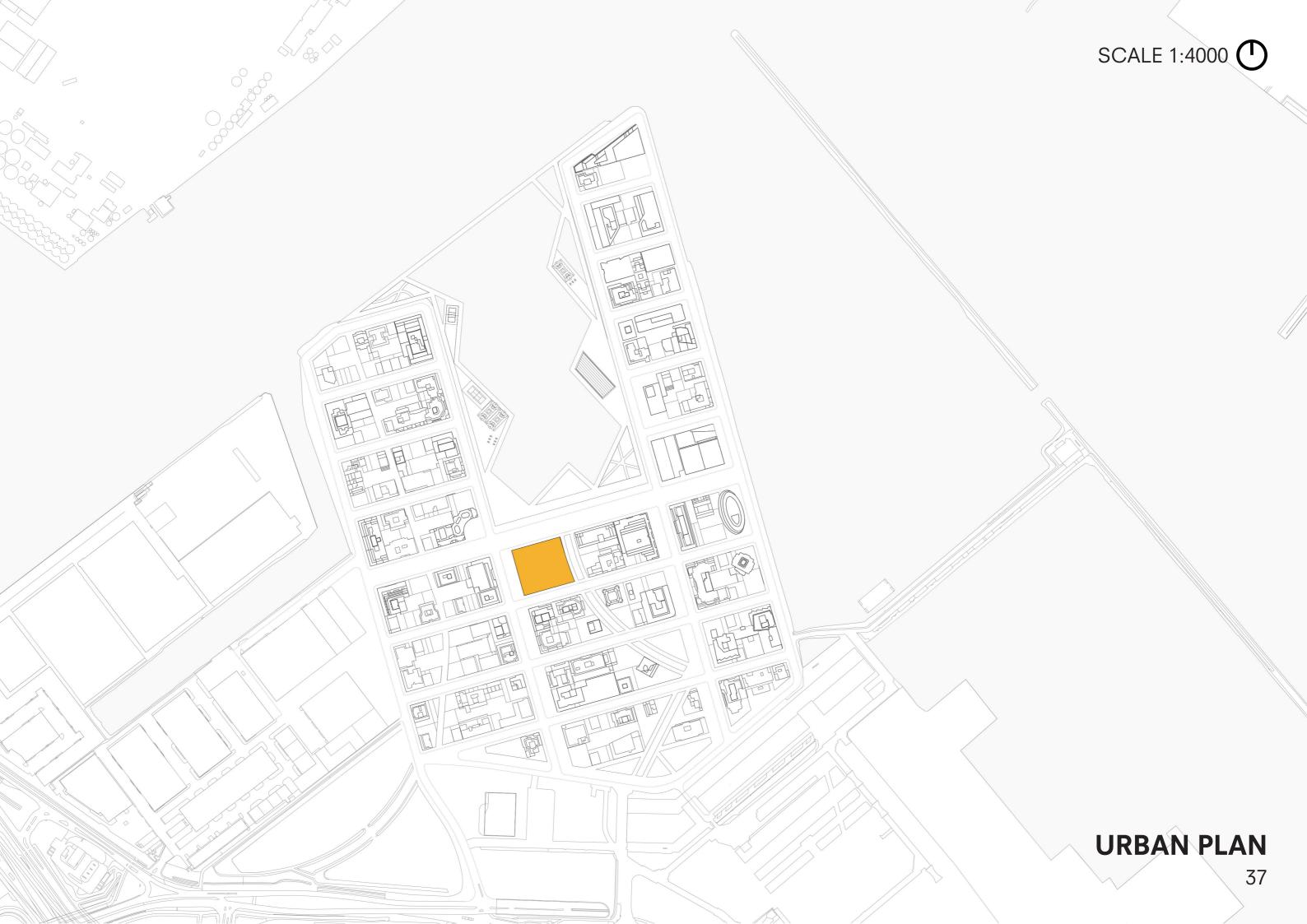
Layout should be spacious and flexible. The materials are of high quality. The finishing and outfitting of the kitchen and bathroom are also important. One bathroom for each bedroom is common.

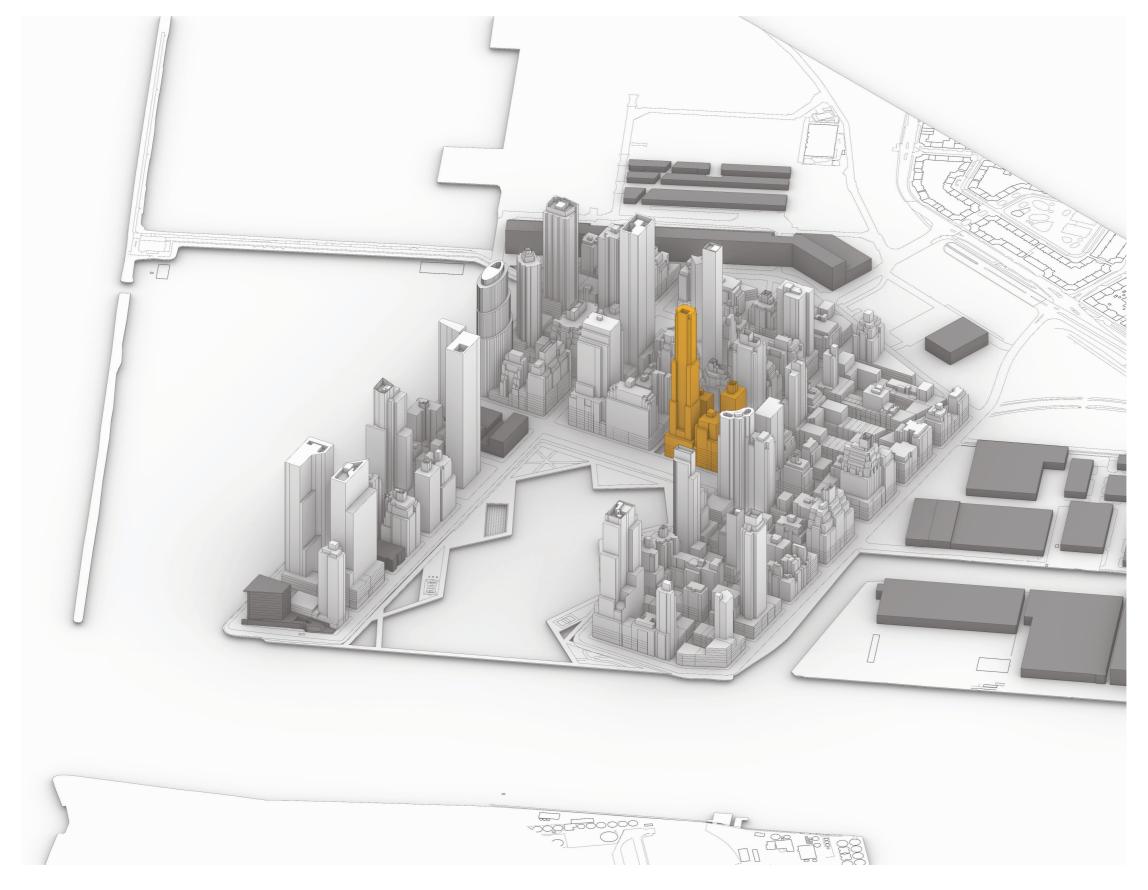
Amenities and services

- Communal gardens, roof terraces, grill areas, health club with gym, pool, sauna and other sports and care facilities like yoga
- Entertainment in screening rooms, activities rooms
- Caretakers, laundry service
- Separate guest rooms
- Home and building automatics
- Serviced apartments

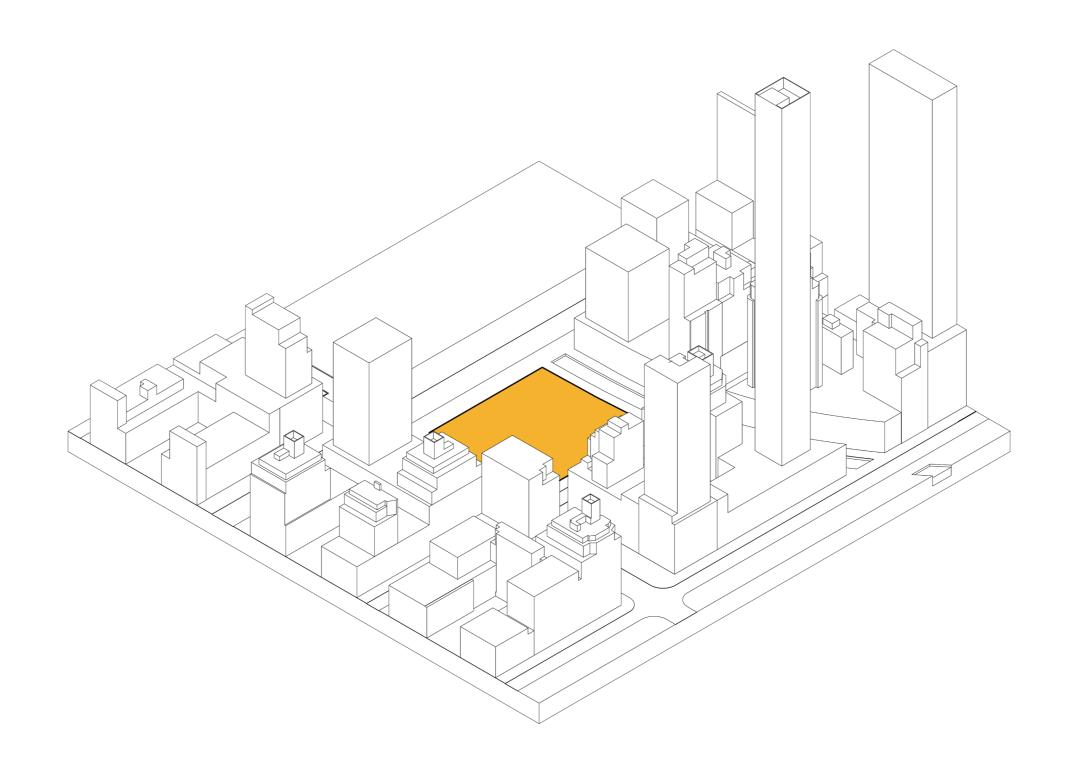


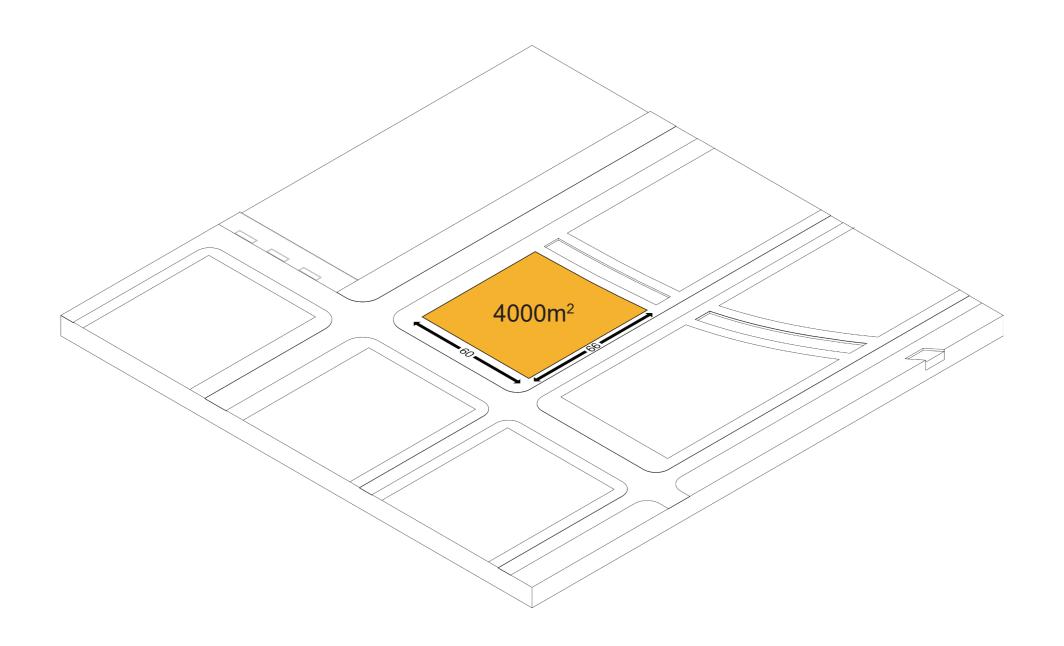


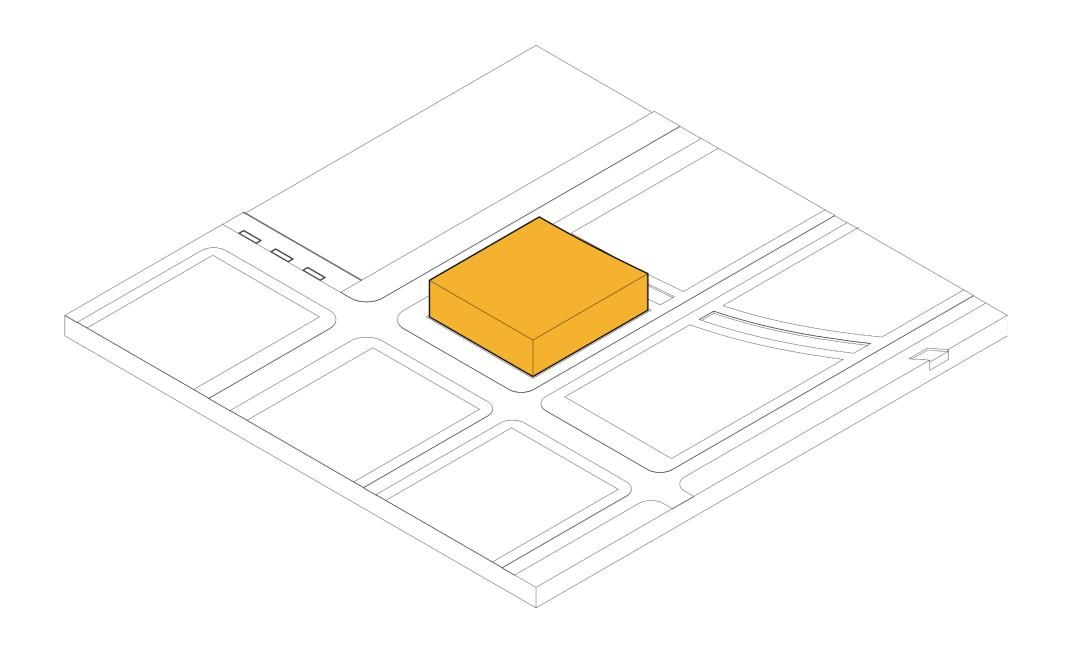


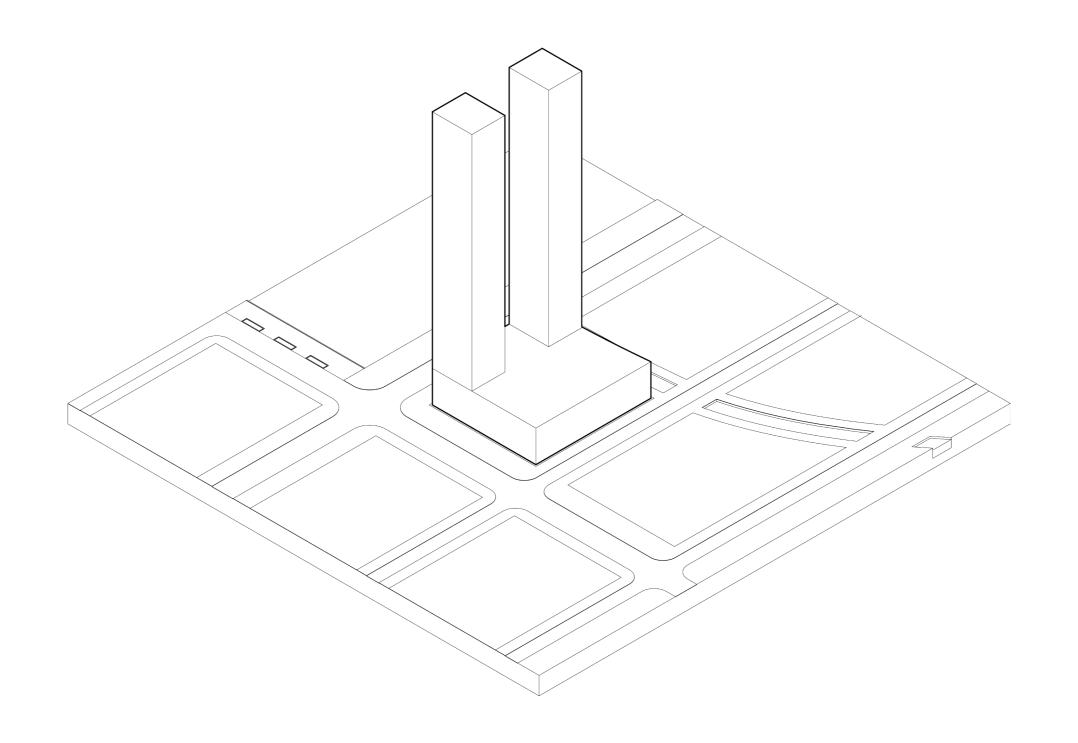


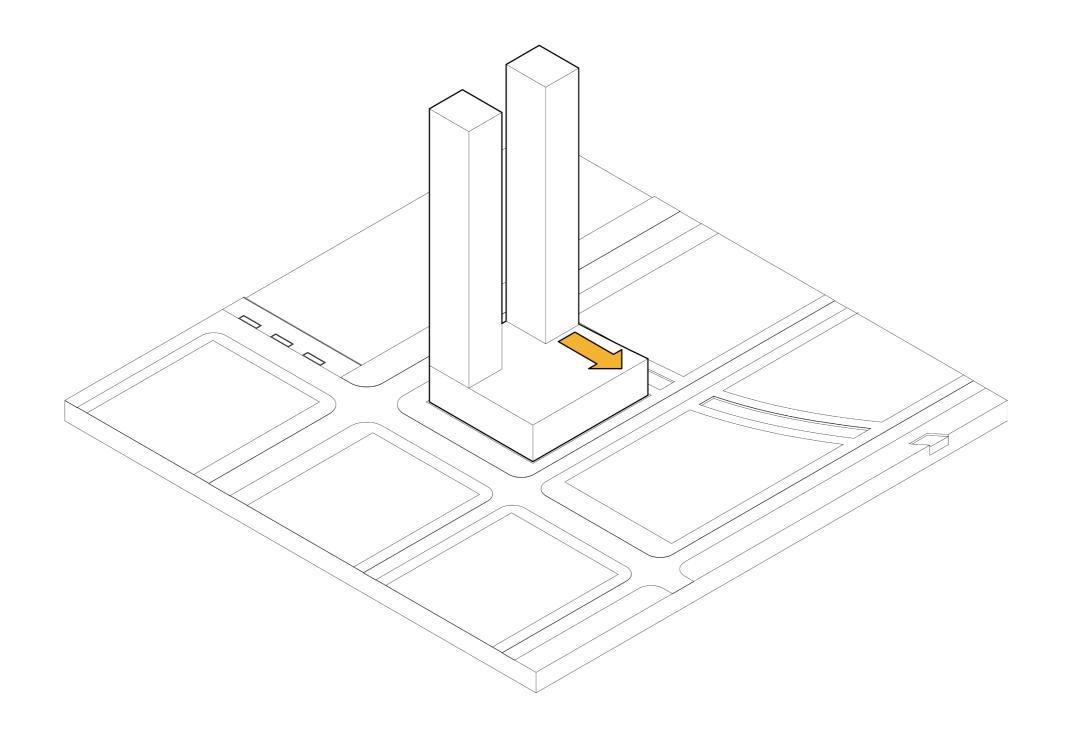
Manhattan aan het IJ

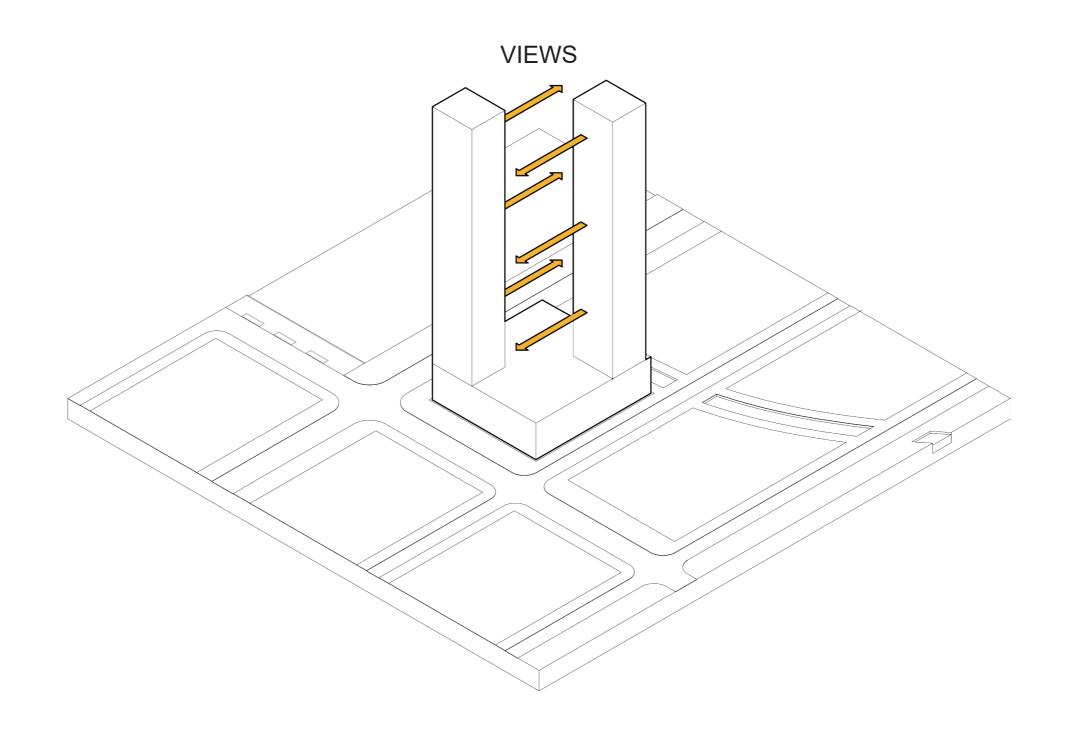


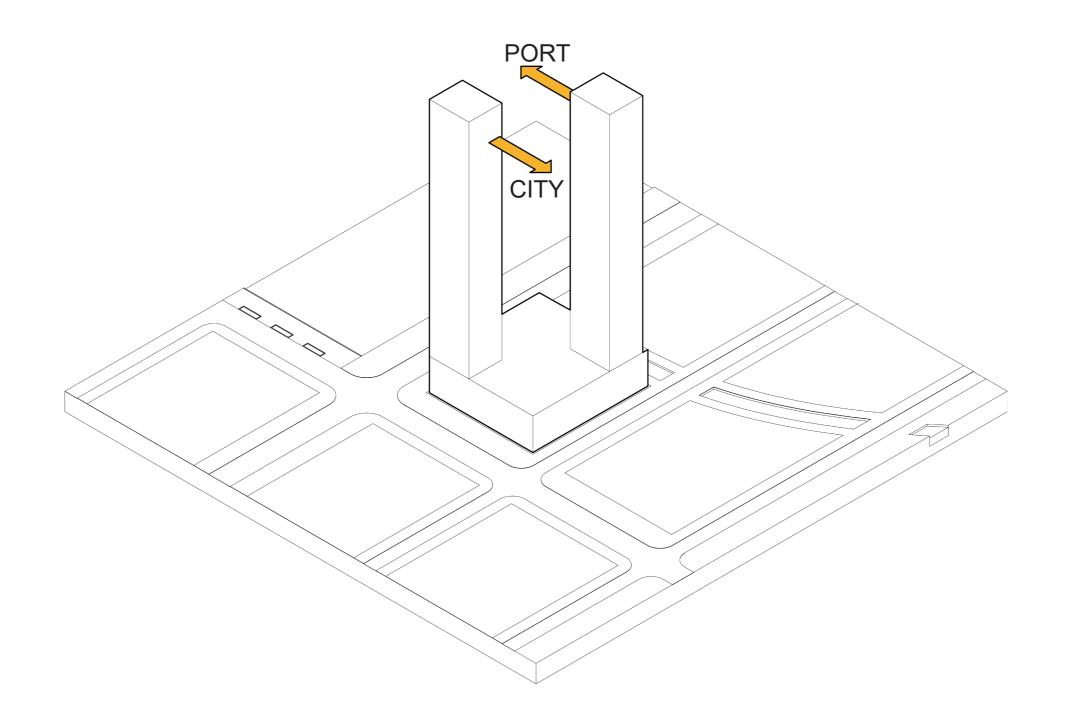


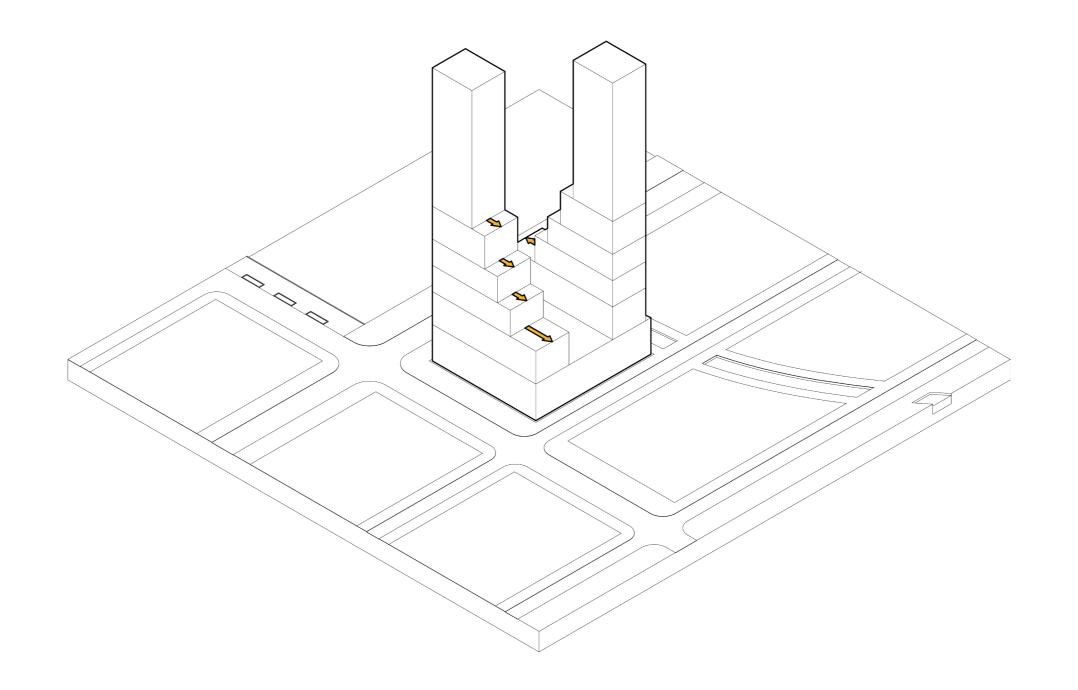


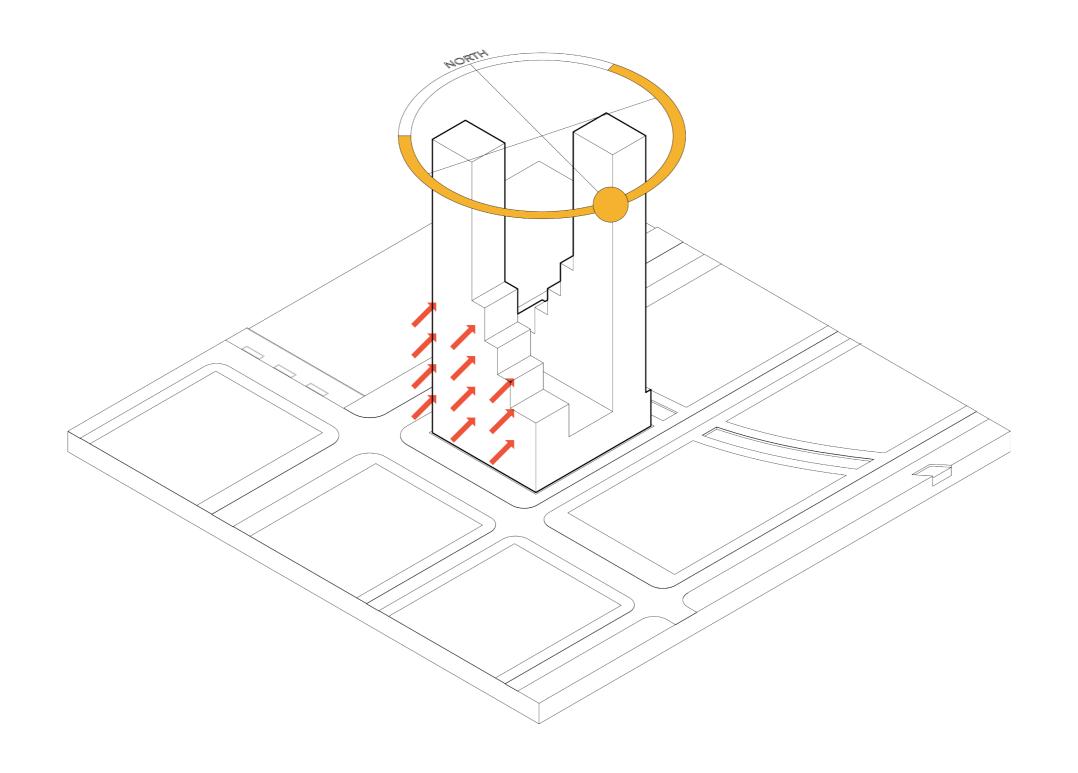


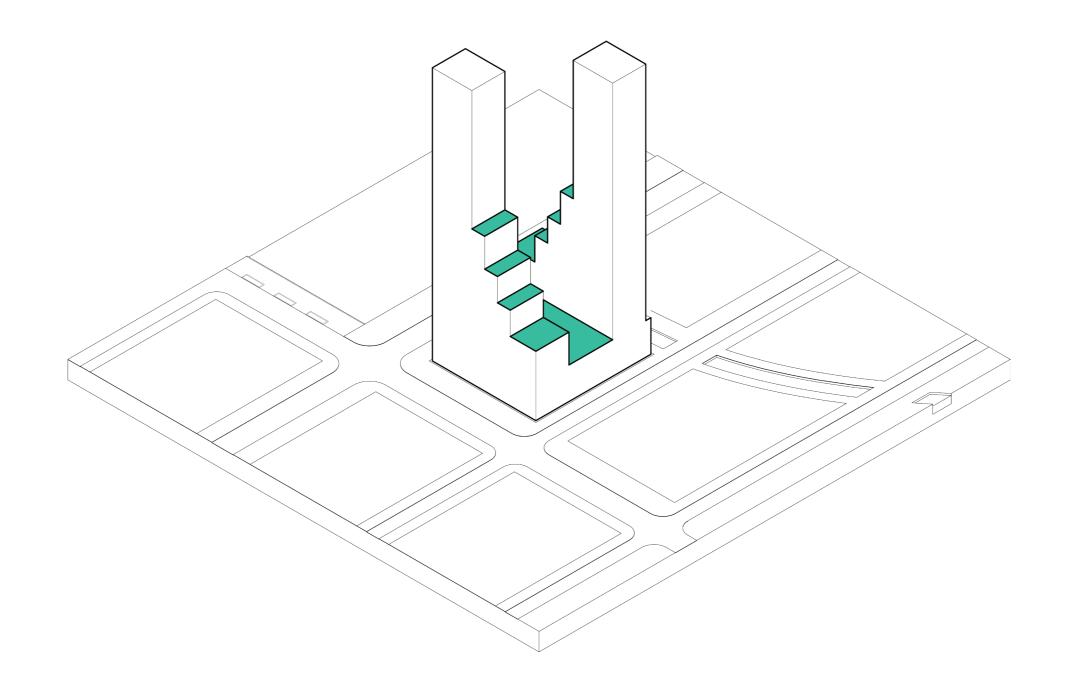


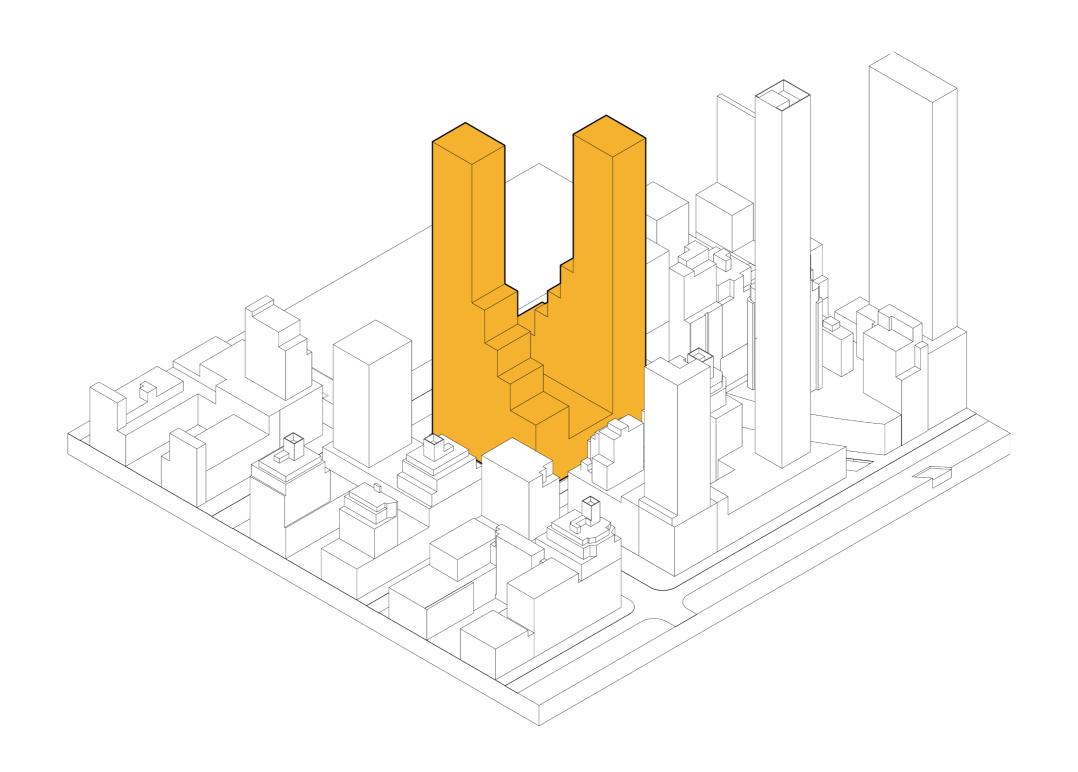


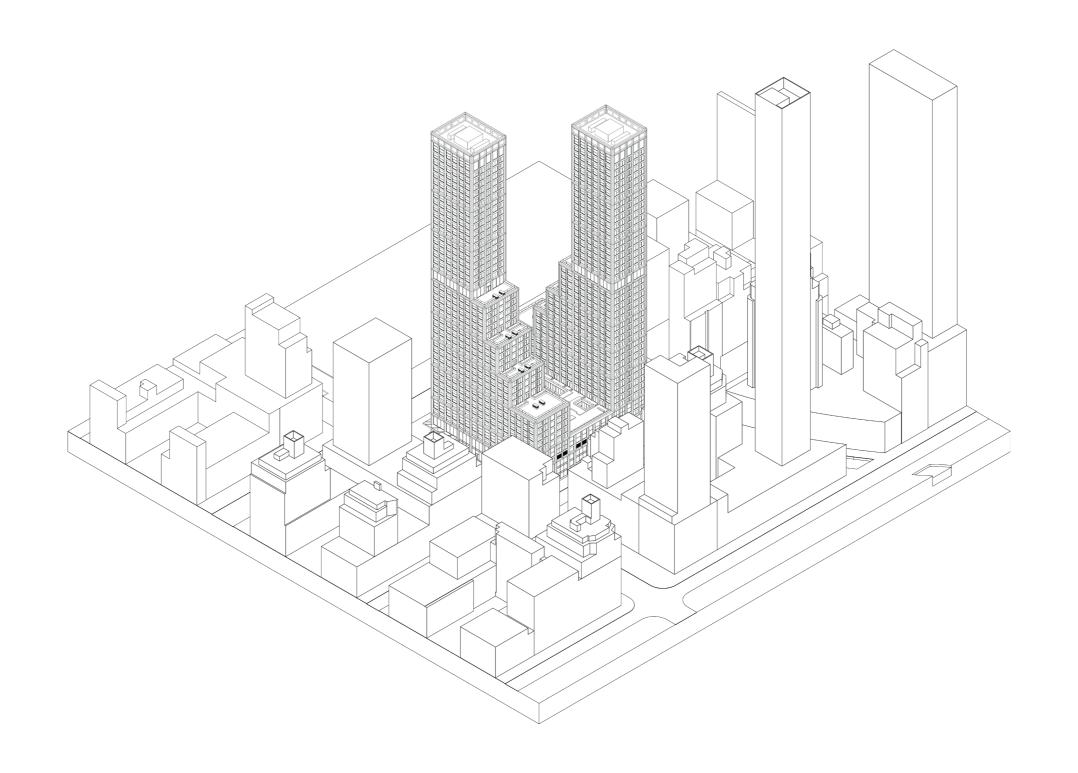




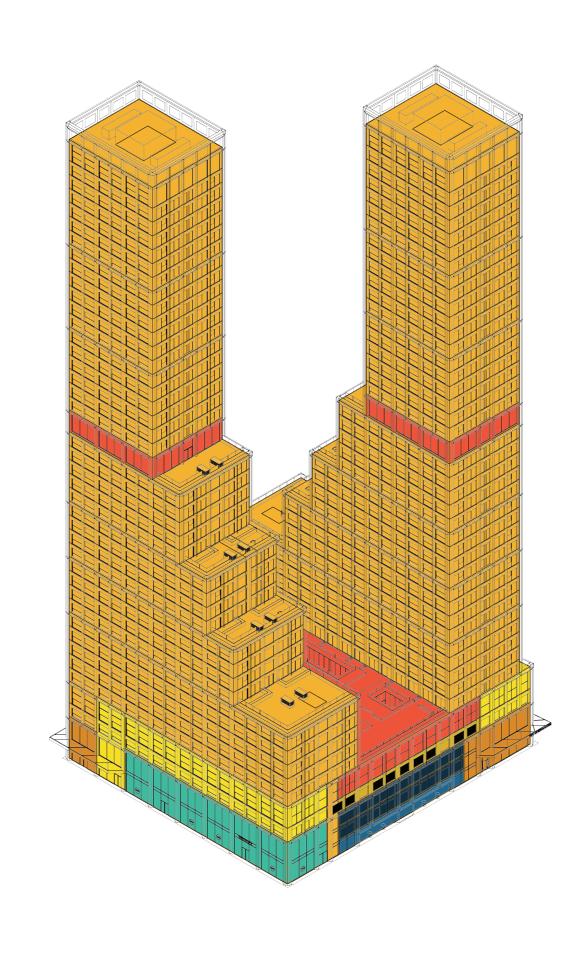












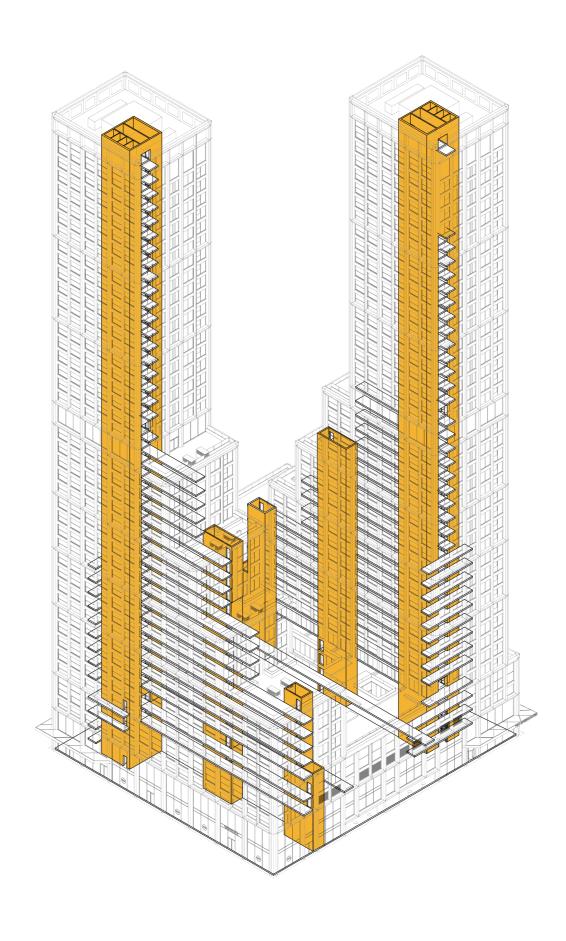
RESIDENTIAL
SHORT-STAY
AMENITIES

COMMERCIAL

CAR PARKING

BICYCLE PARKING

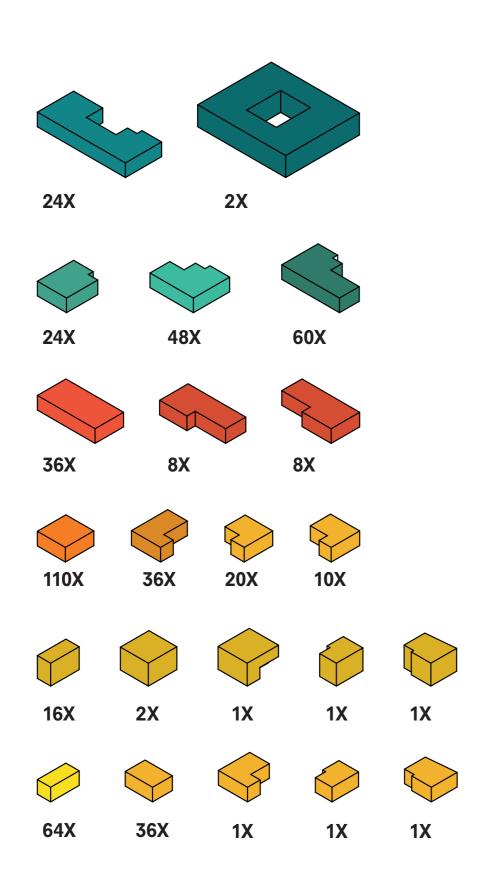
PROGRAM

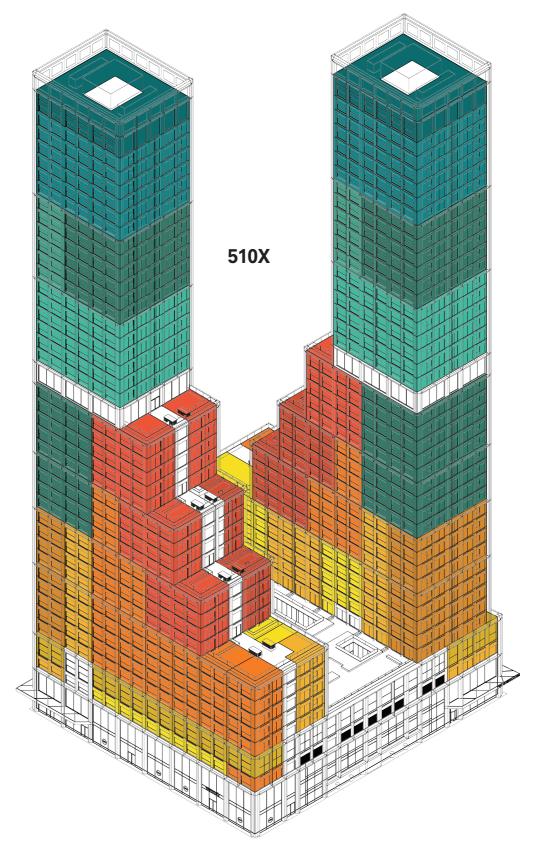




CORRIDORS

ACCESS

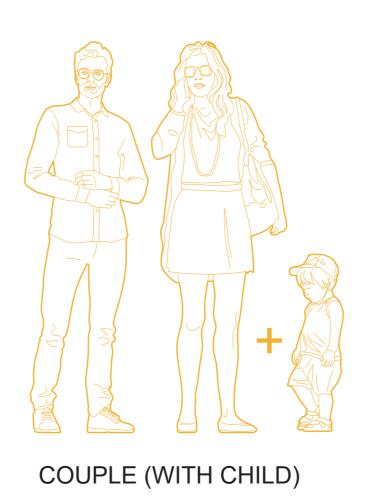




DWELLING TYPES

HOW DO THEY USE THE BUILDING?









YOUNG BACHELORS



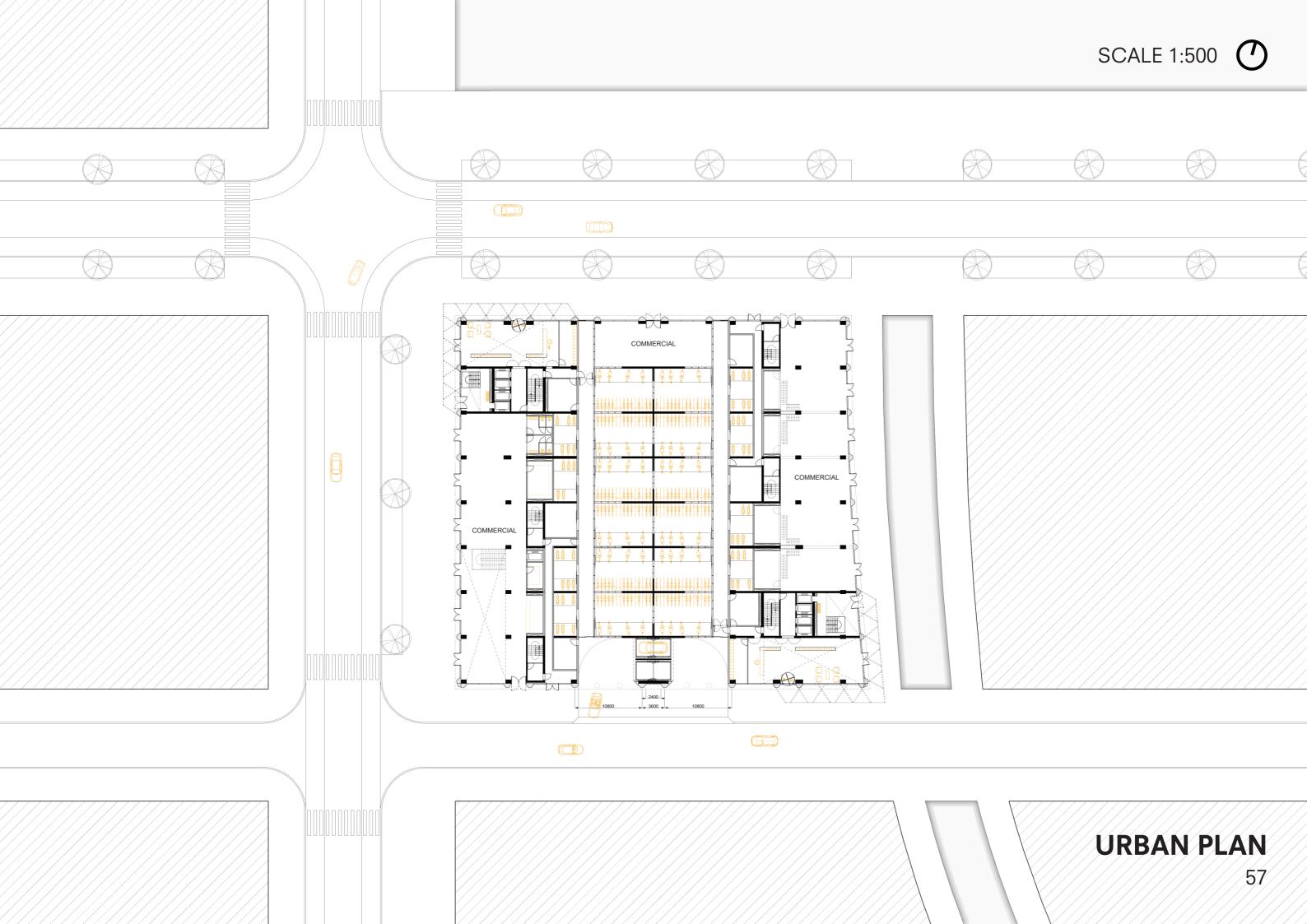
Work: tech & creative industry

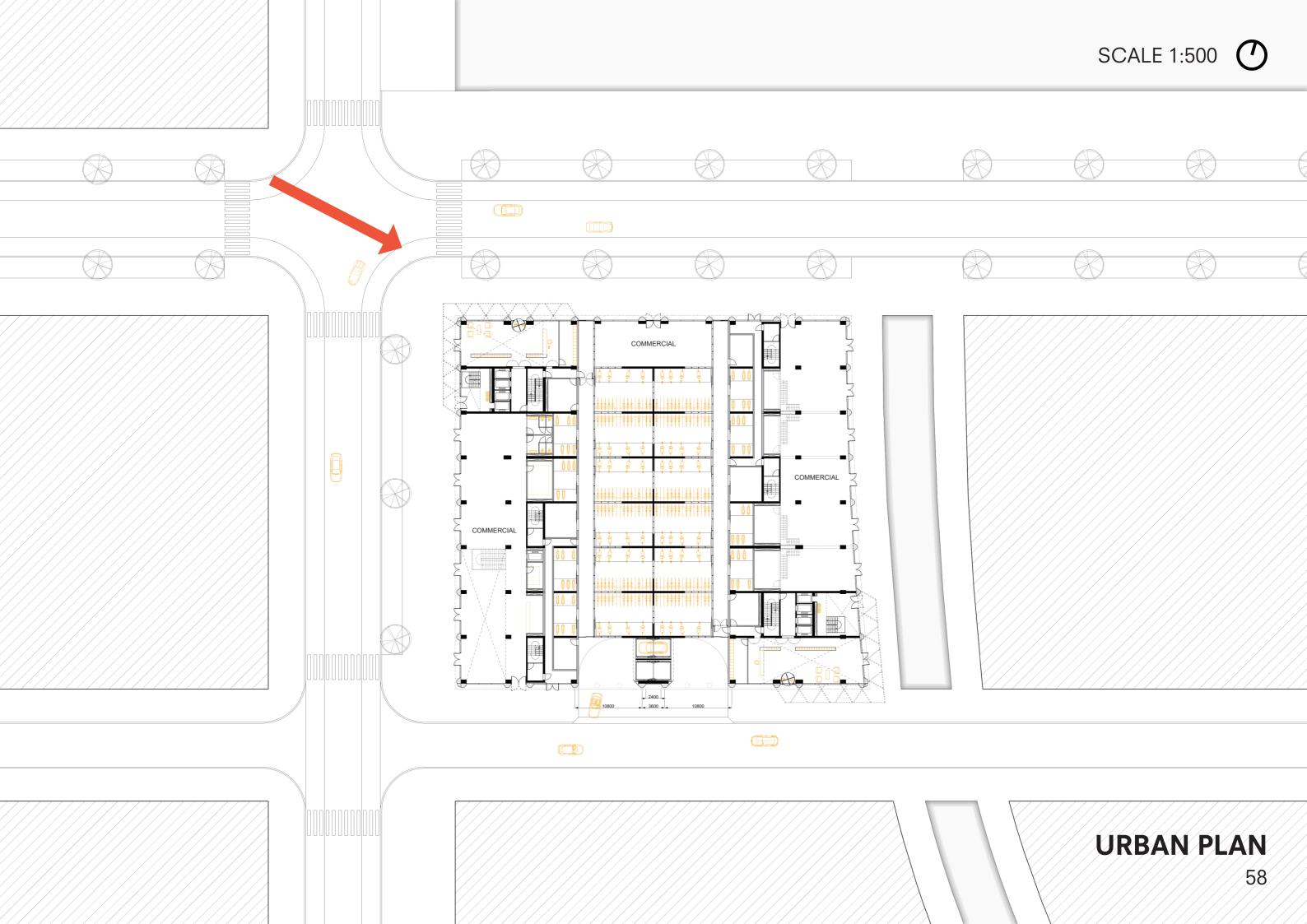
Mode of transport: bike, public transport

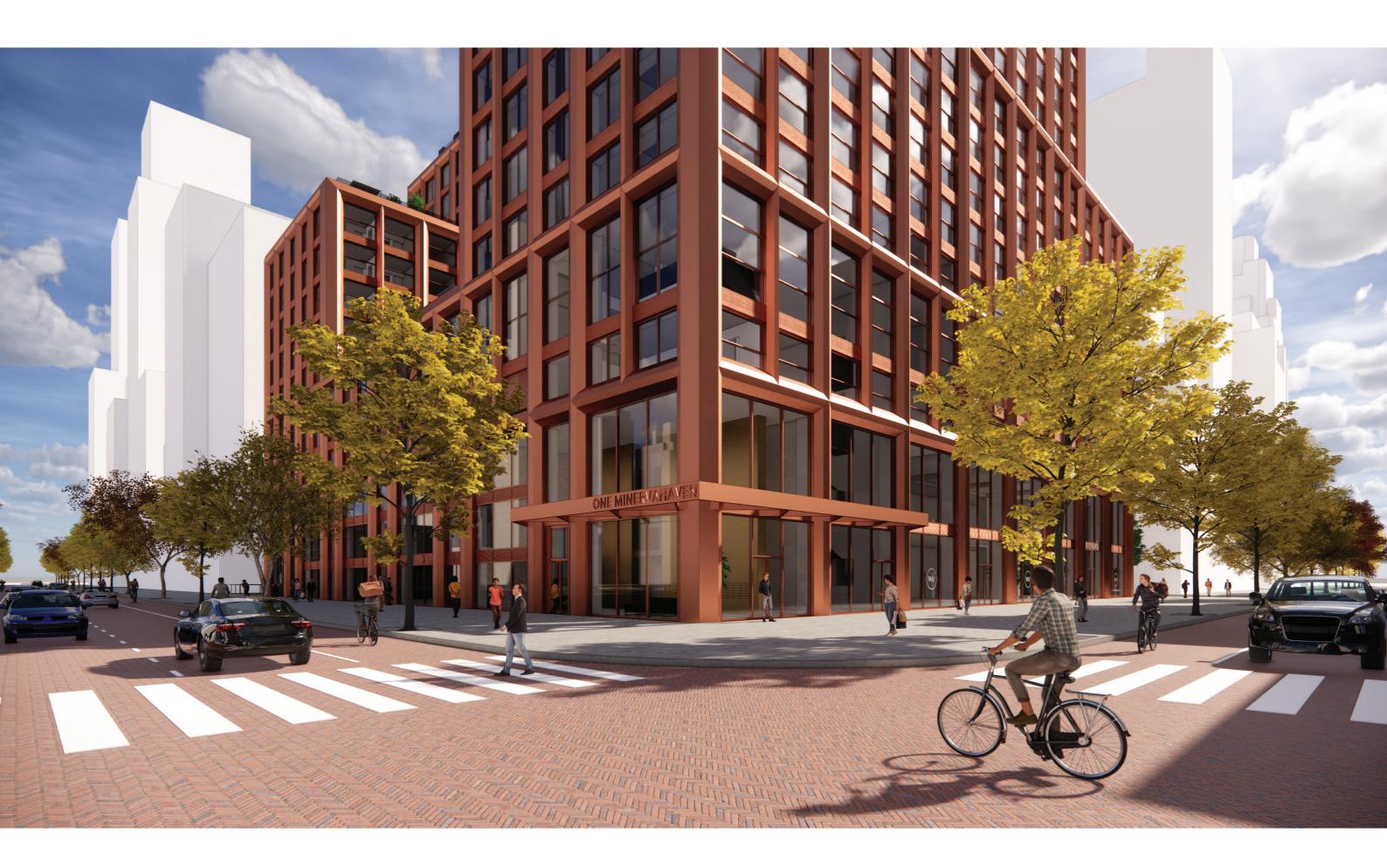
Dwelling types: studio or compact 1-bed-

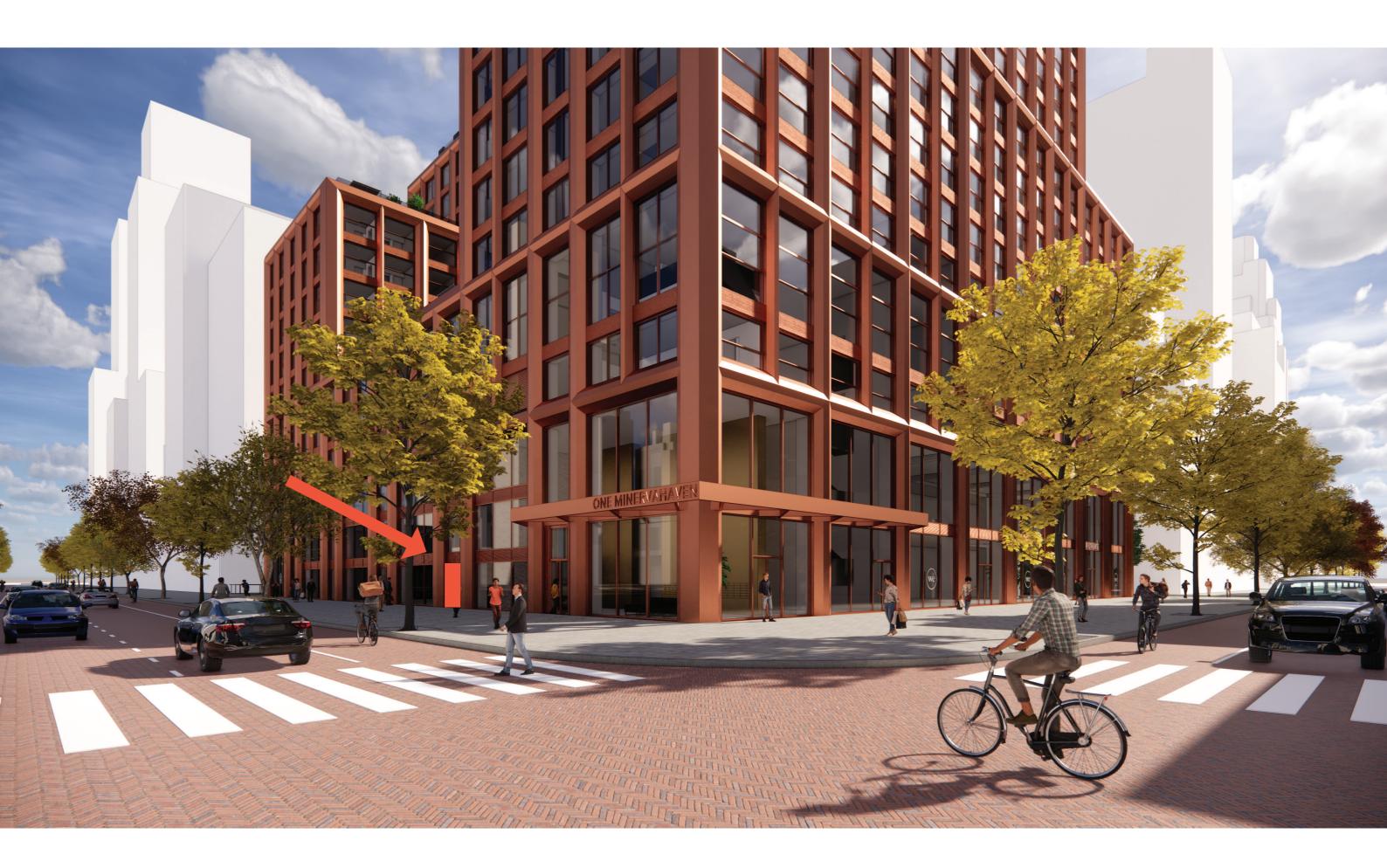
room

Characteristics: social, shared amenities







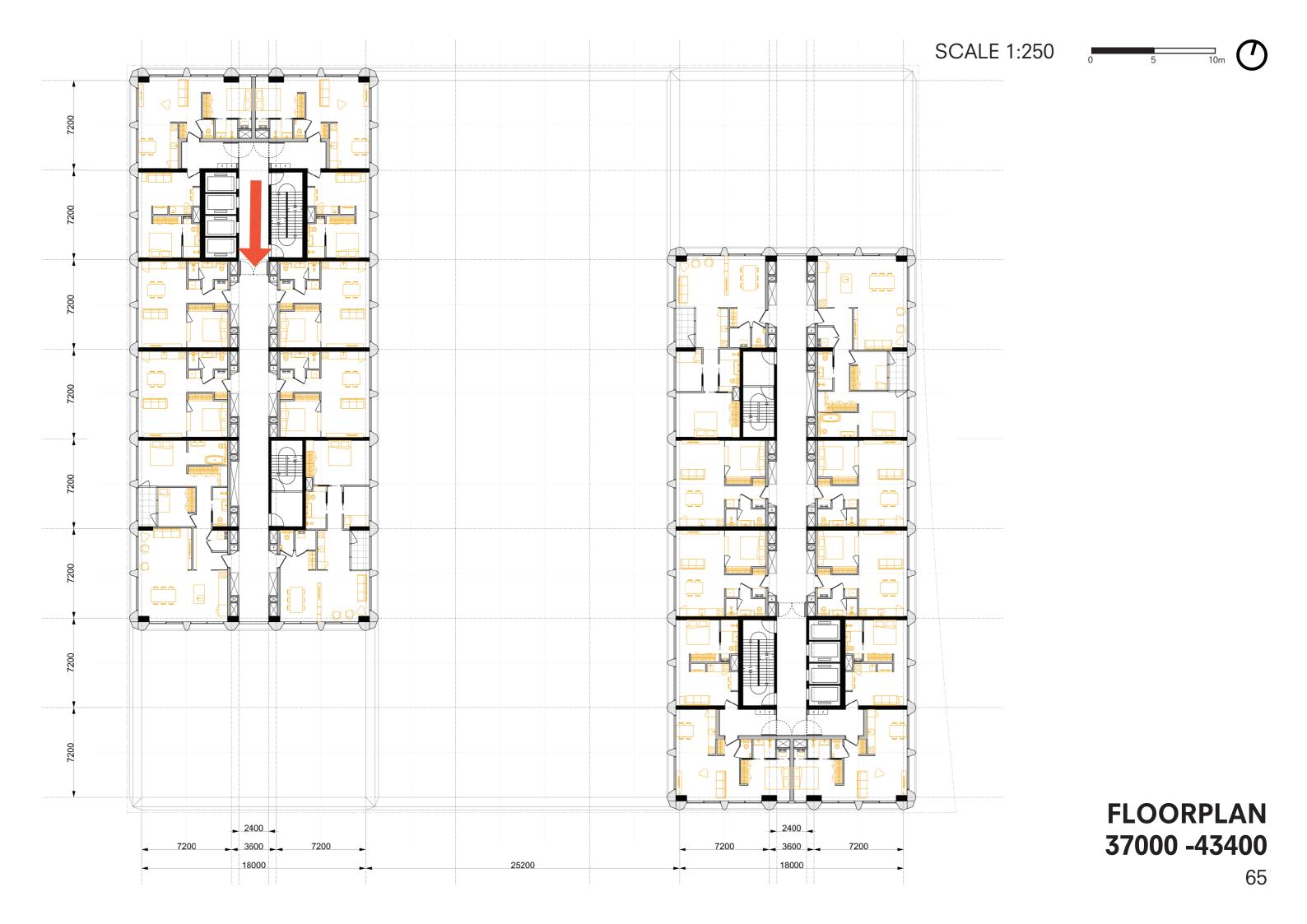












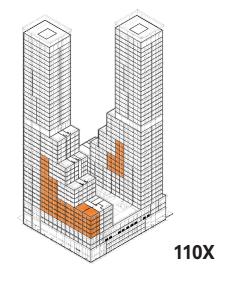








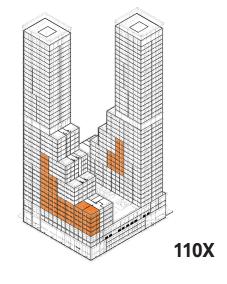




1 Bedroom 49m²



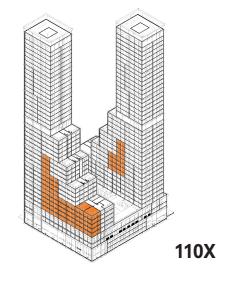




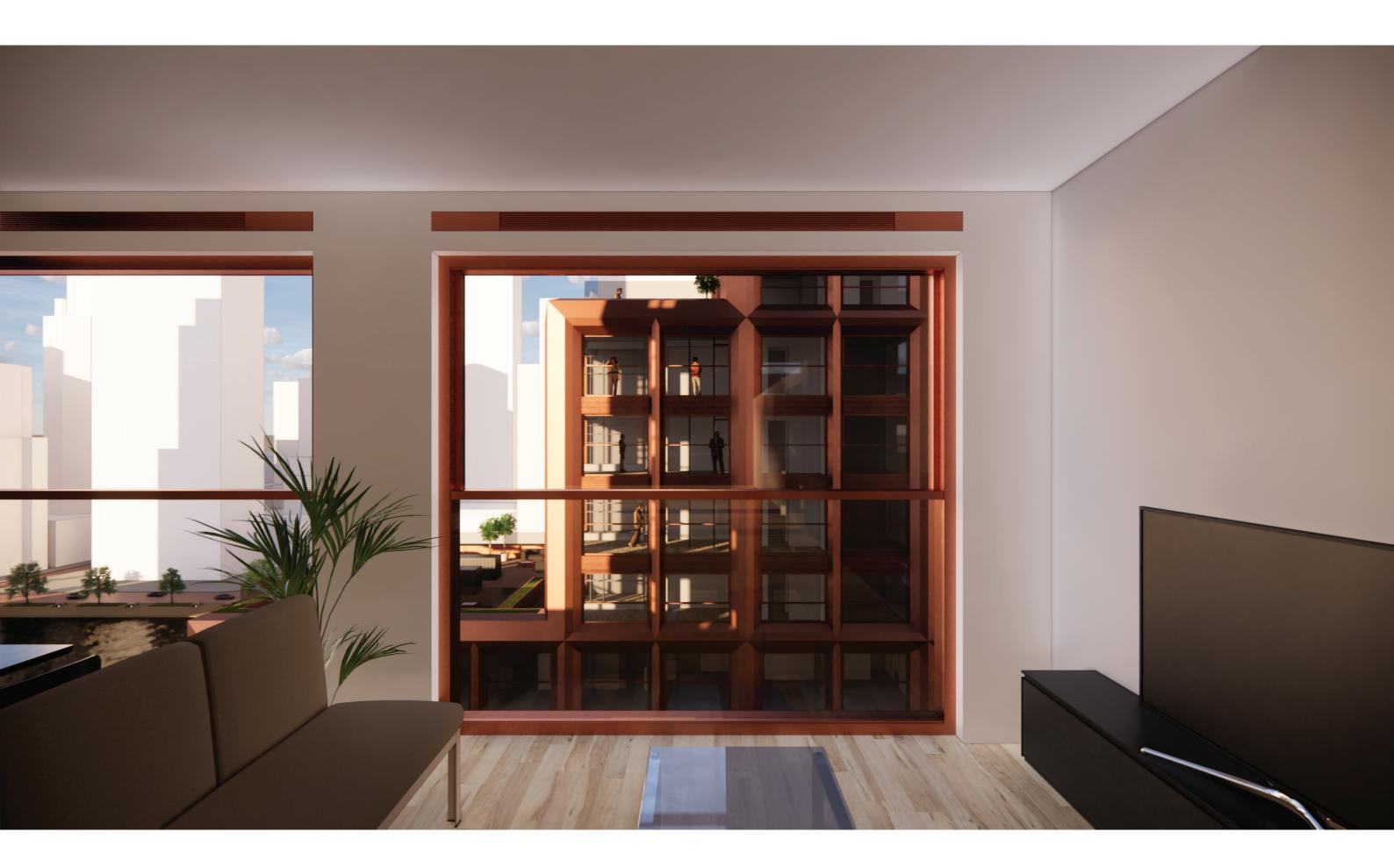
PRIVATE ZONE

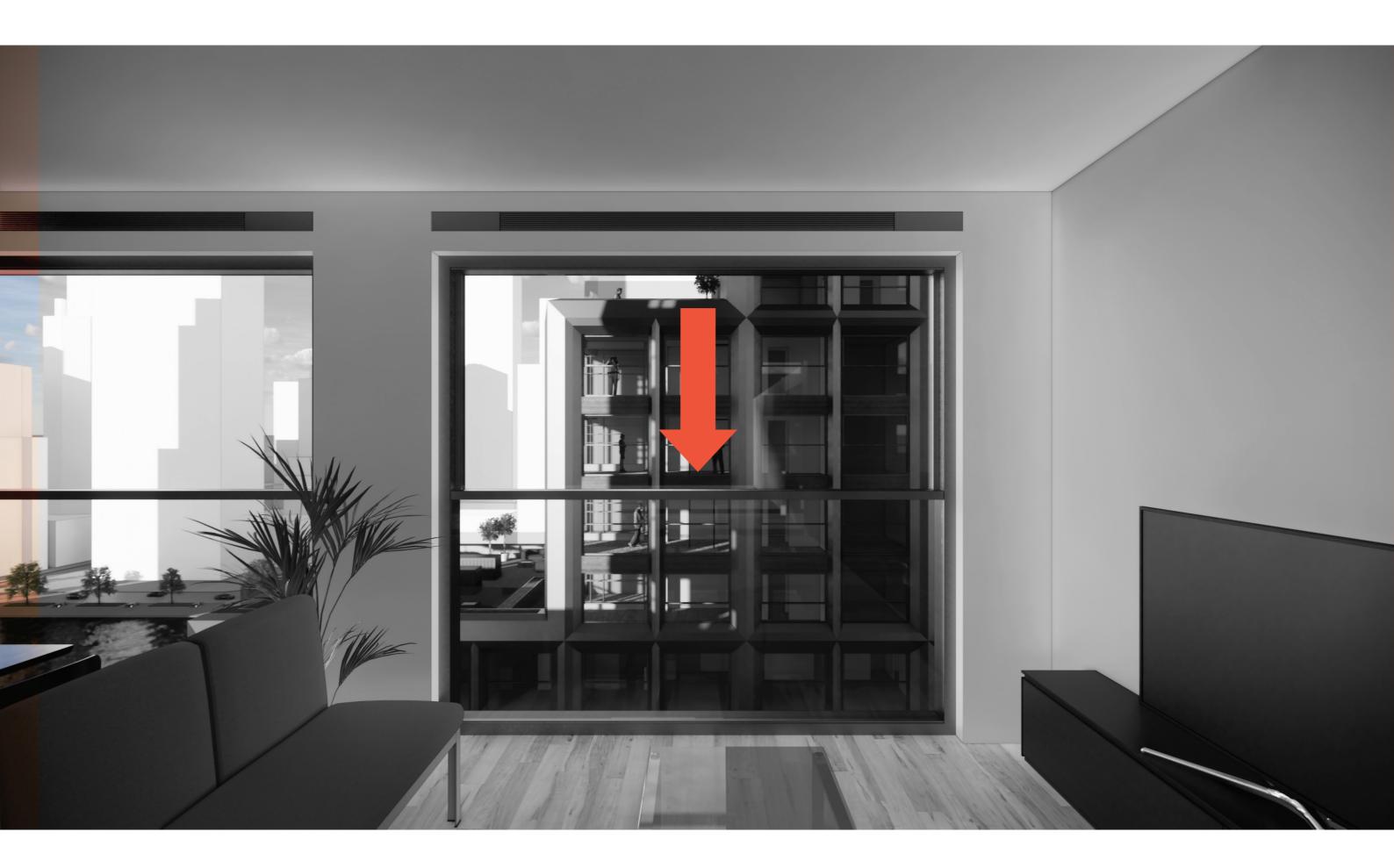




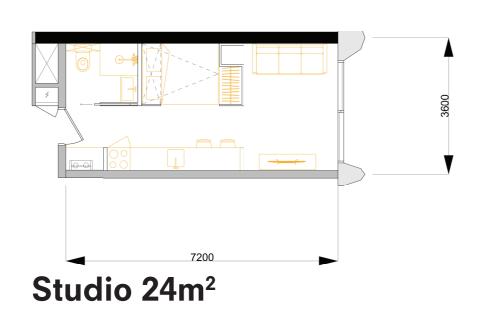


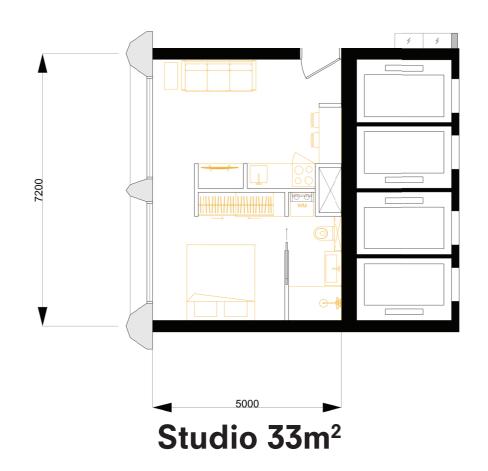
PUBLIC ZONE

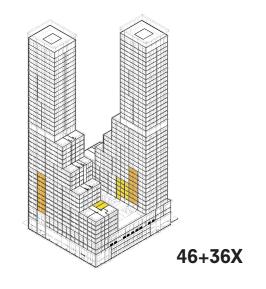






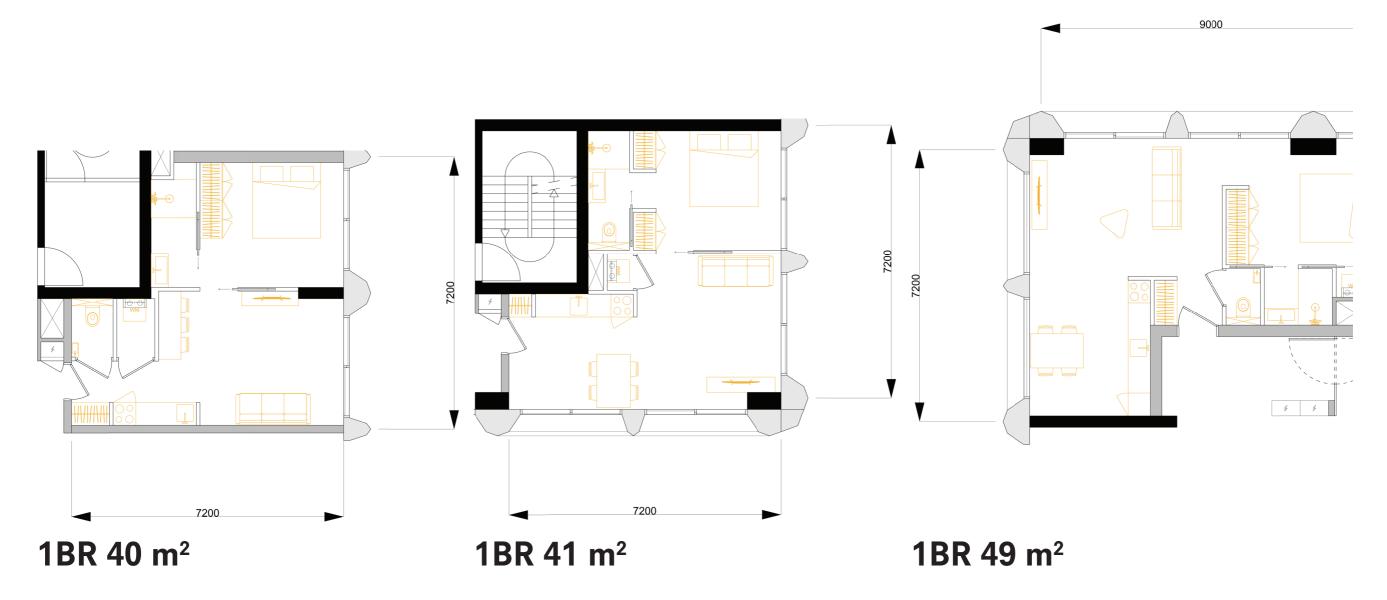


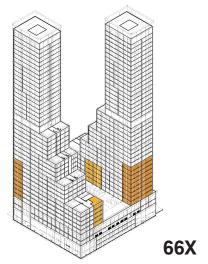
















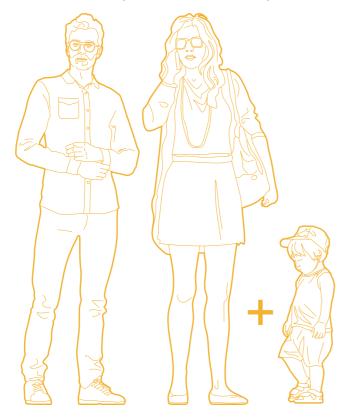
COLLECTIVE GARDEN





COLLECTIVE TERRACE

COUPLE (WITH CHILD)



Work: tech & creative industry

Mode of transport: Car

Dwelling types: 2-bedroom apartment

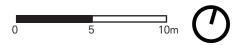
Characteristics: more space, more spending room







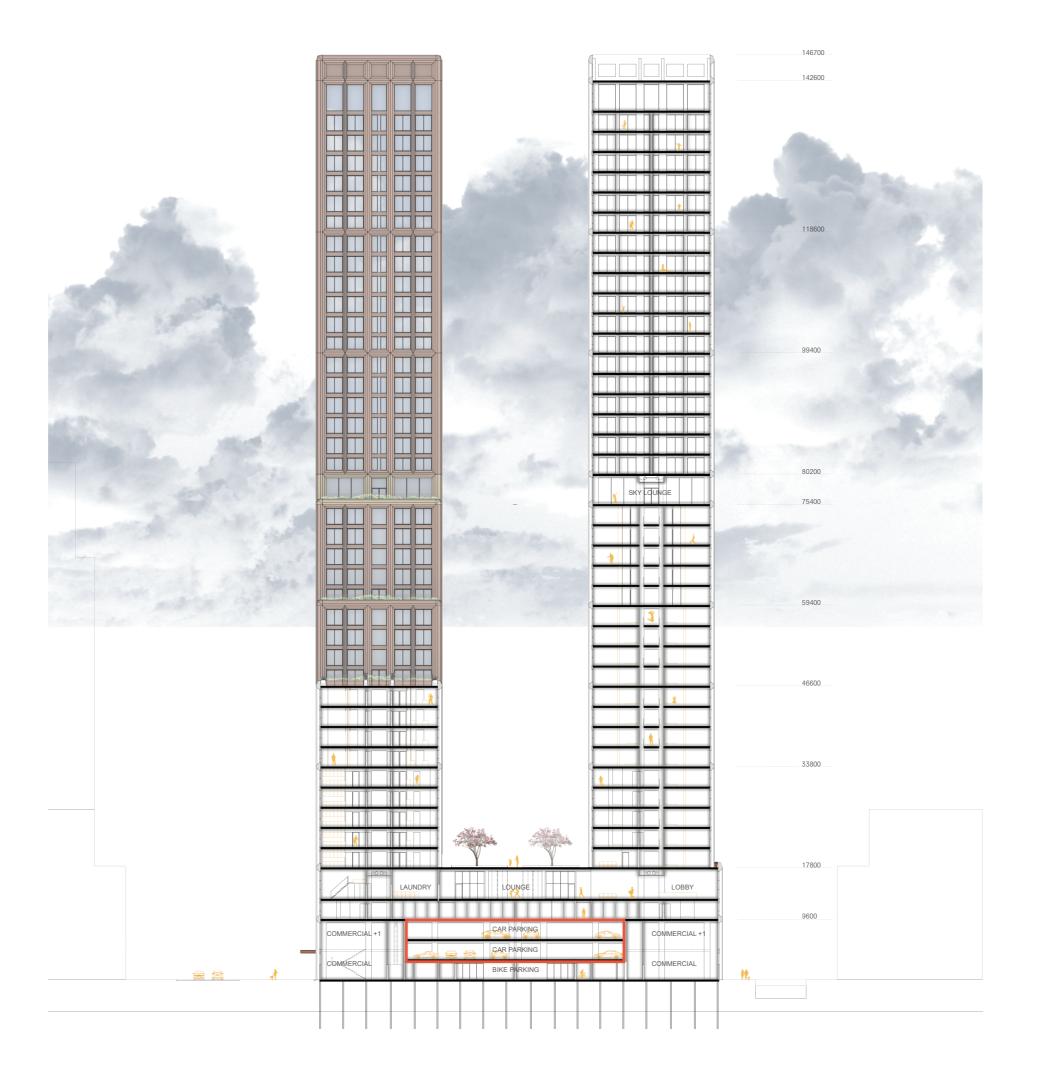




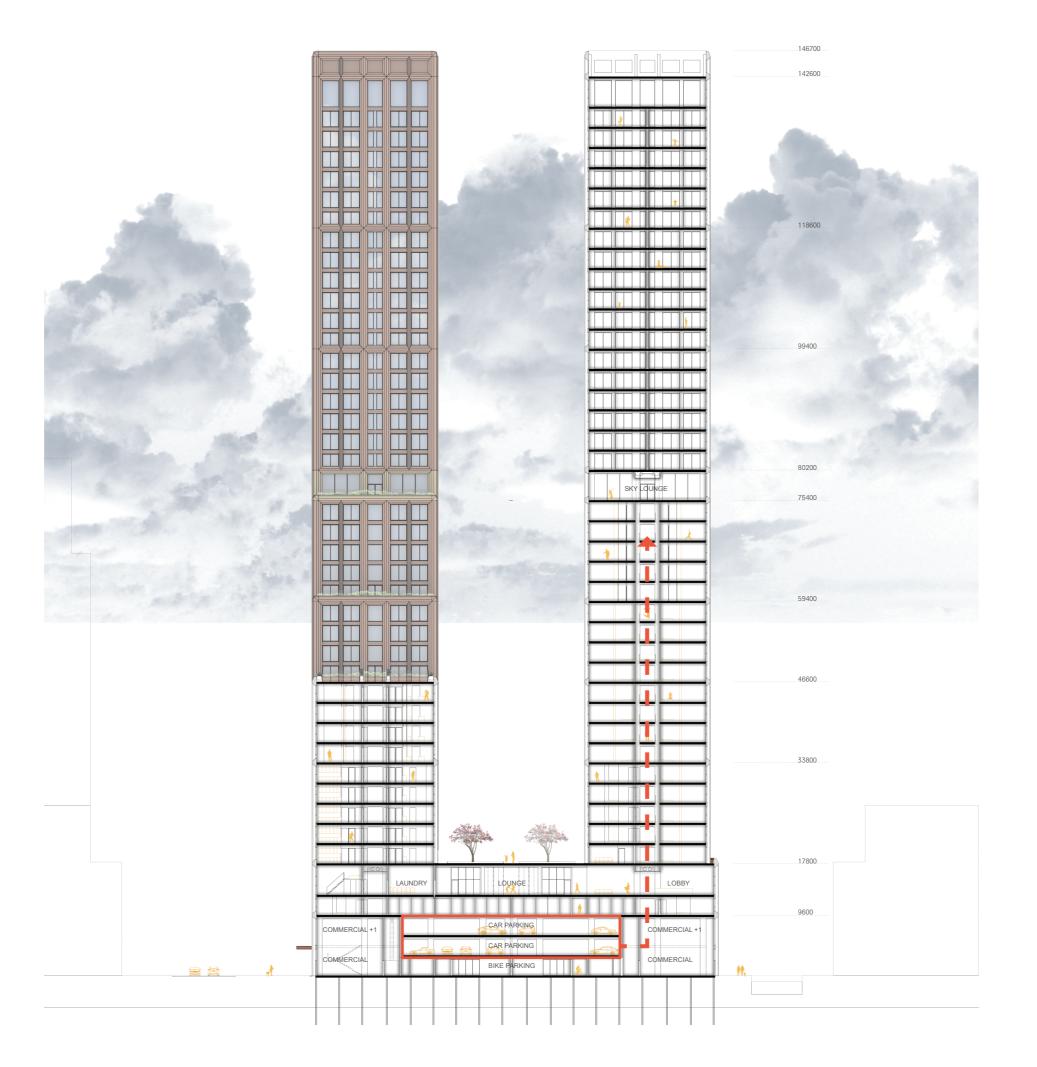
PARKING FLOOR

3200



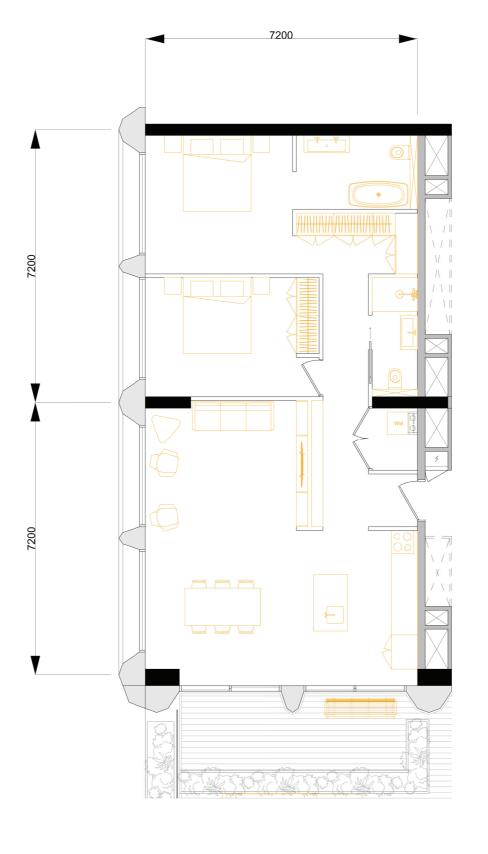


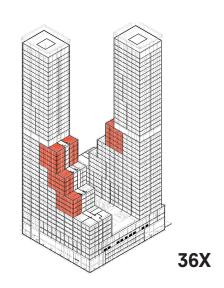






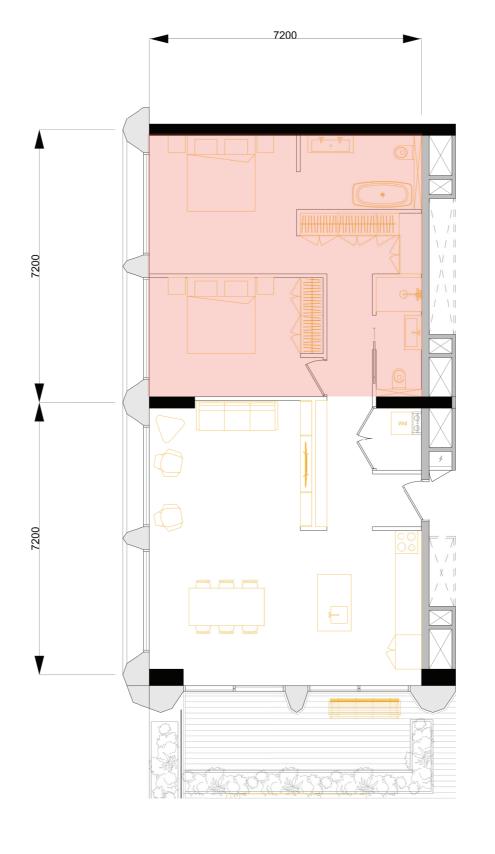


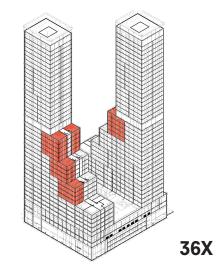




2 Bedroom apartment 100m²

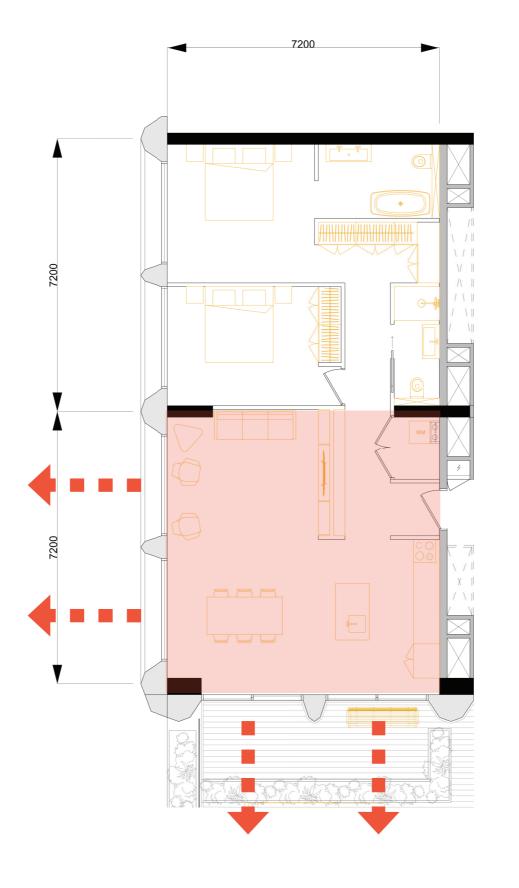


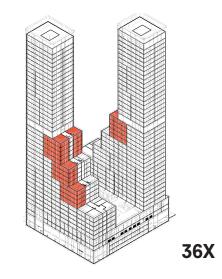




Private zone



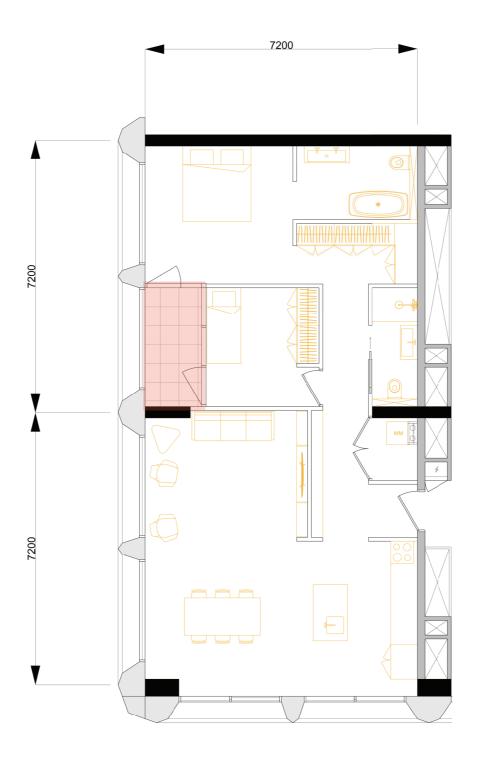




Public zone







2 Bedroom variation



BUSINESSMAN



Work: tech, finance

Mode of transport: taxi, public transport

Dwelling types: Short stay studio/loft, tower

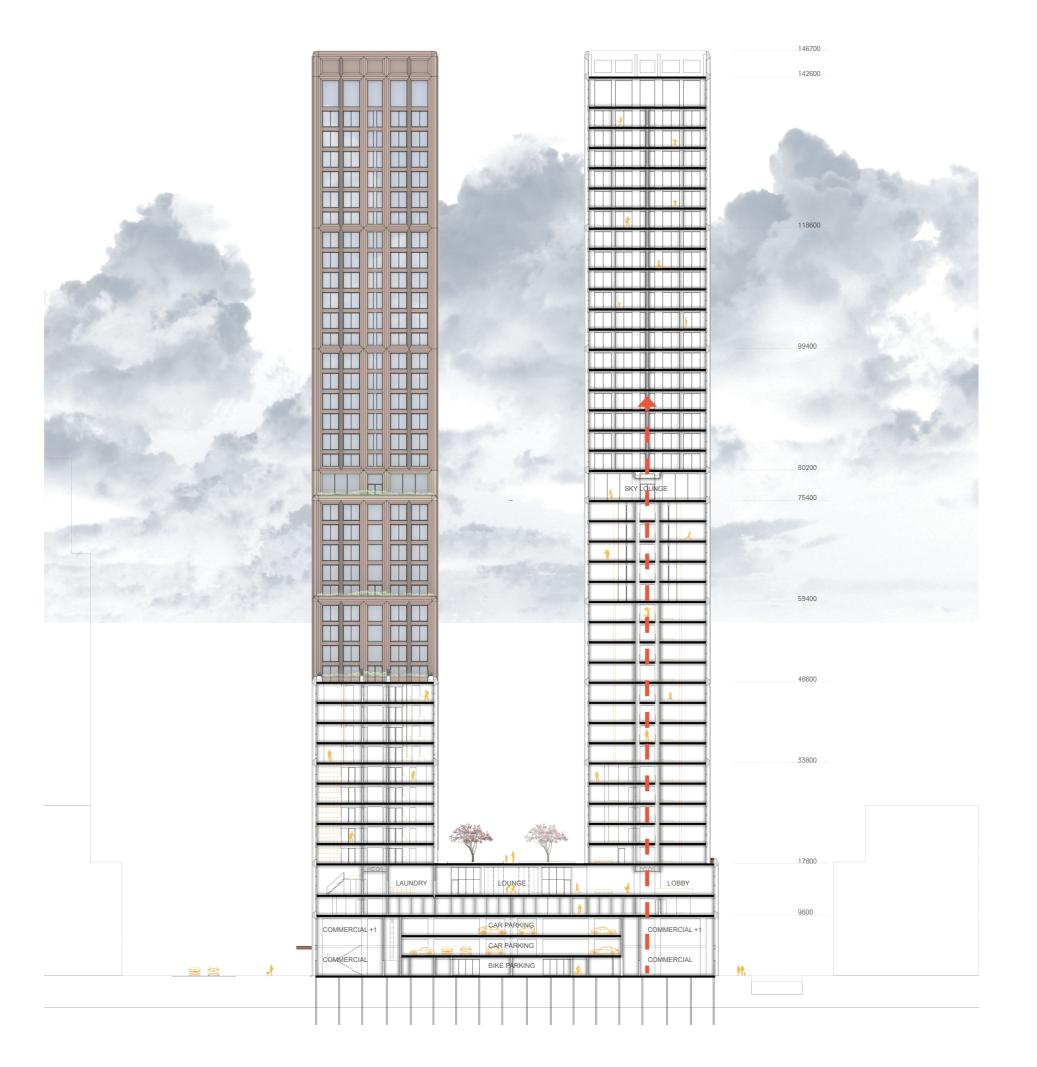
apartment

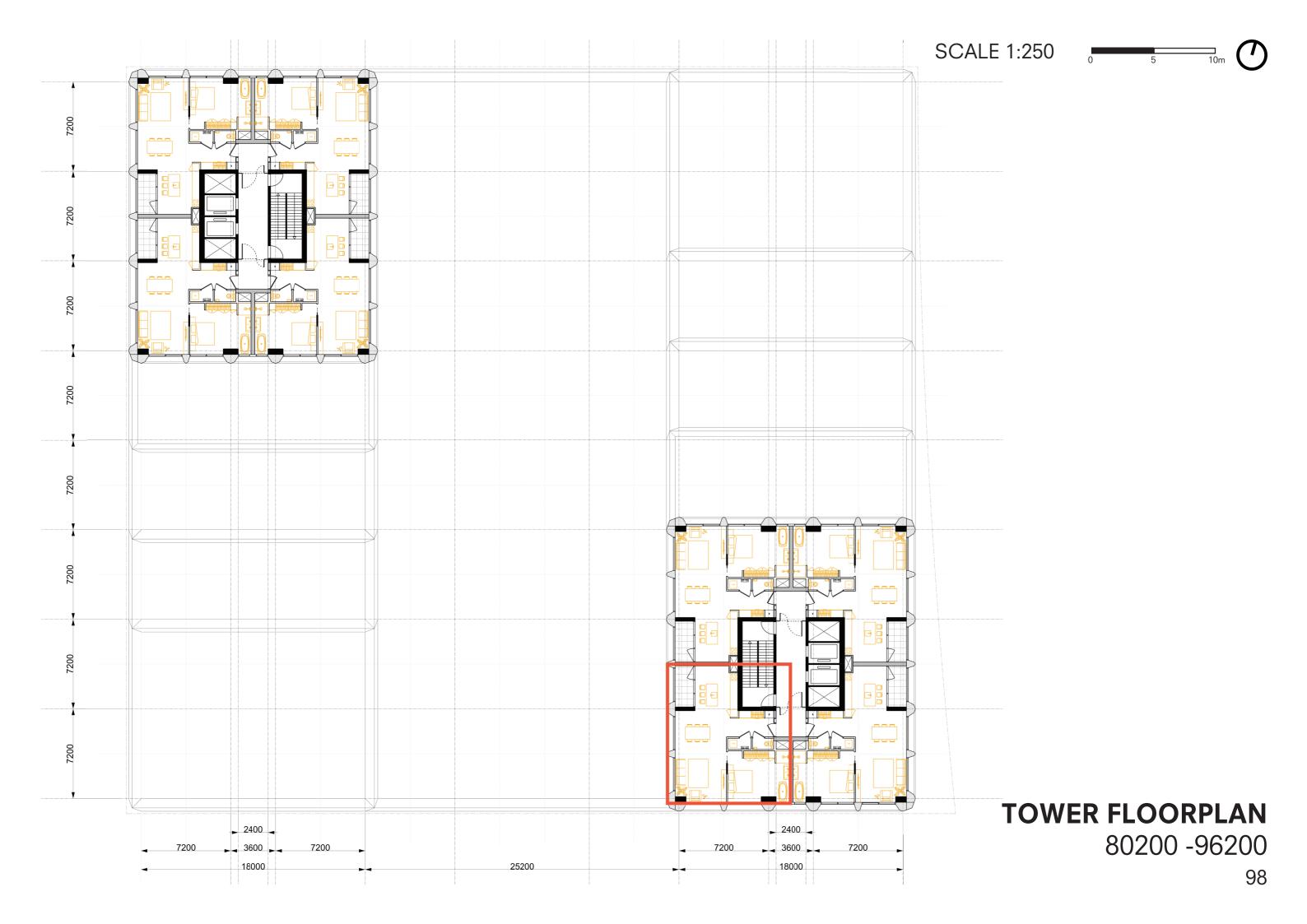
Characteristics: high-end, long-term stay











9150 48X



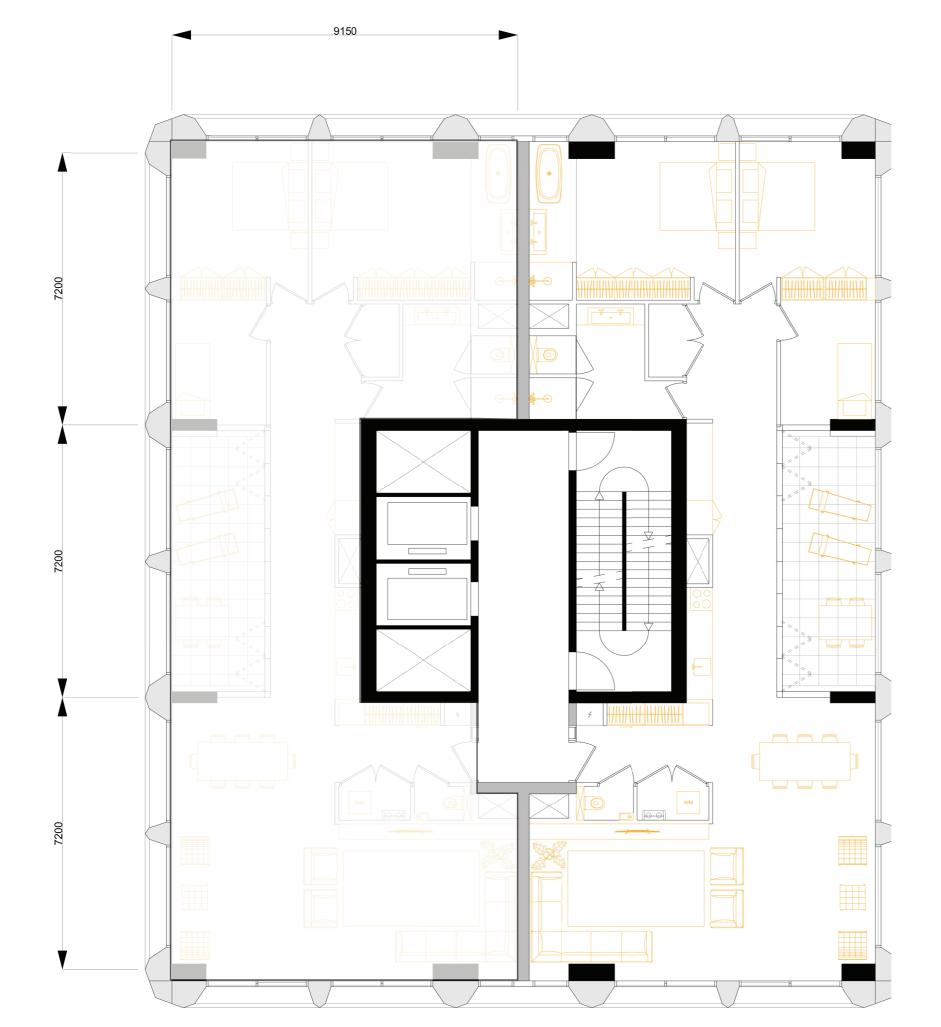
DWELLING TYPESTOWER 1 BR 75m2







DWELLING TYPESTOWER 1 BR + 2BR





DWELLING TYPESTOWER 3 BR 150m²

BUSINESSMAN



Work: tech, finance

Mode of transport: taxi, public transport

Dwelling types: Short stay studio/loft, tower

apartment

Characteristics: high-end, short-term stay

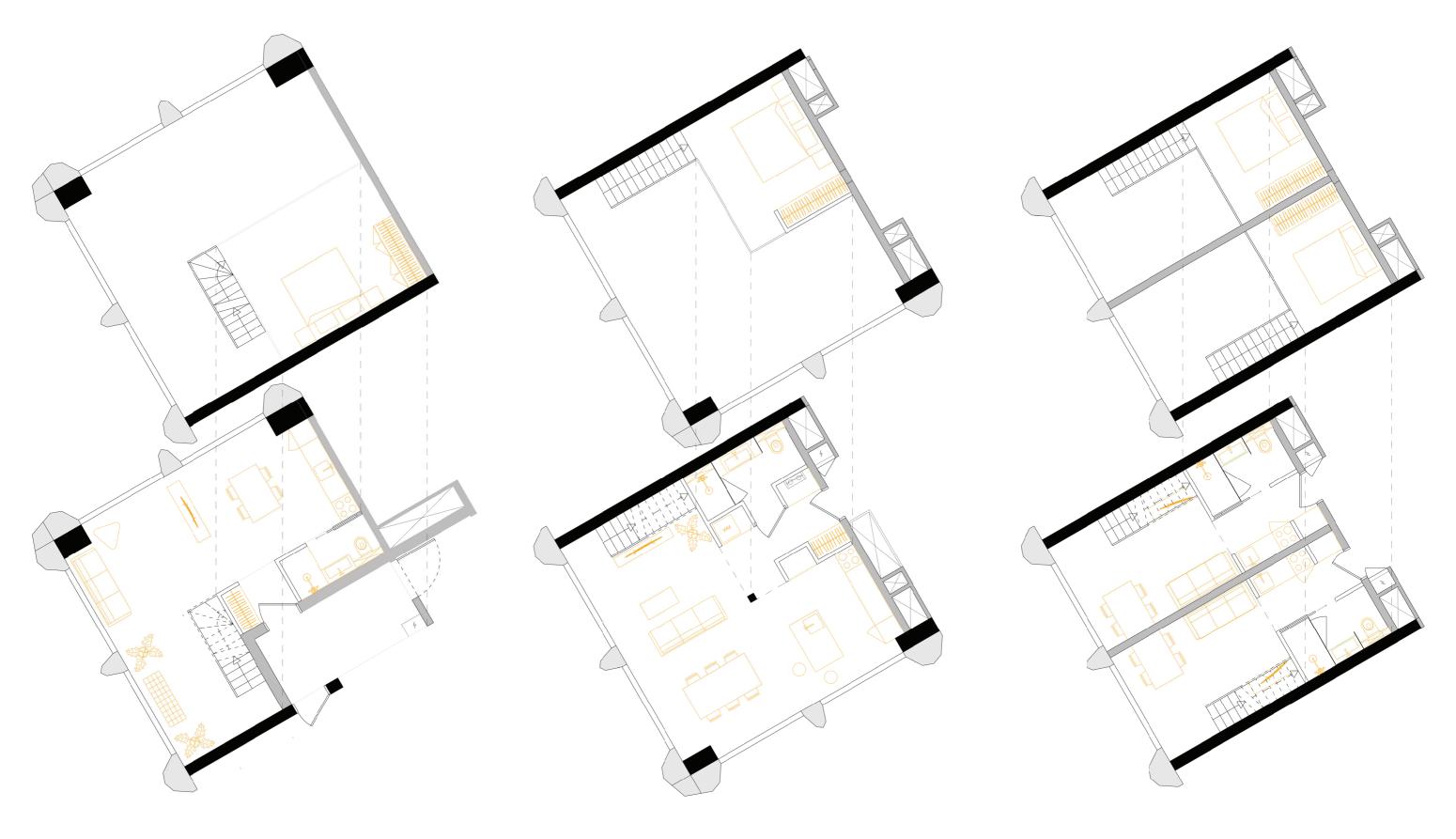








SHORT-STAY +12800 106



DWELLING TYPESSHORT STAY LOFT





AMENITIES CLUB

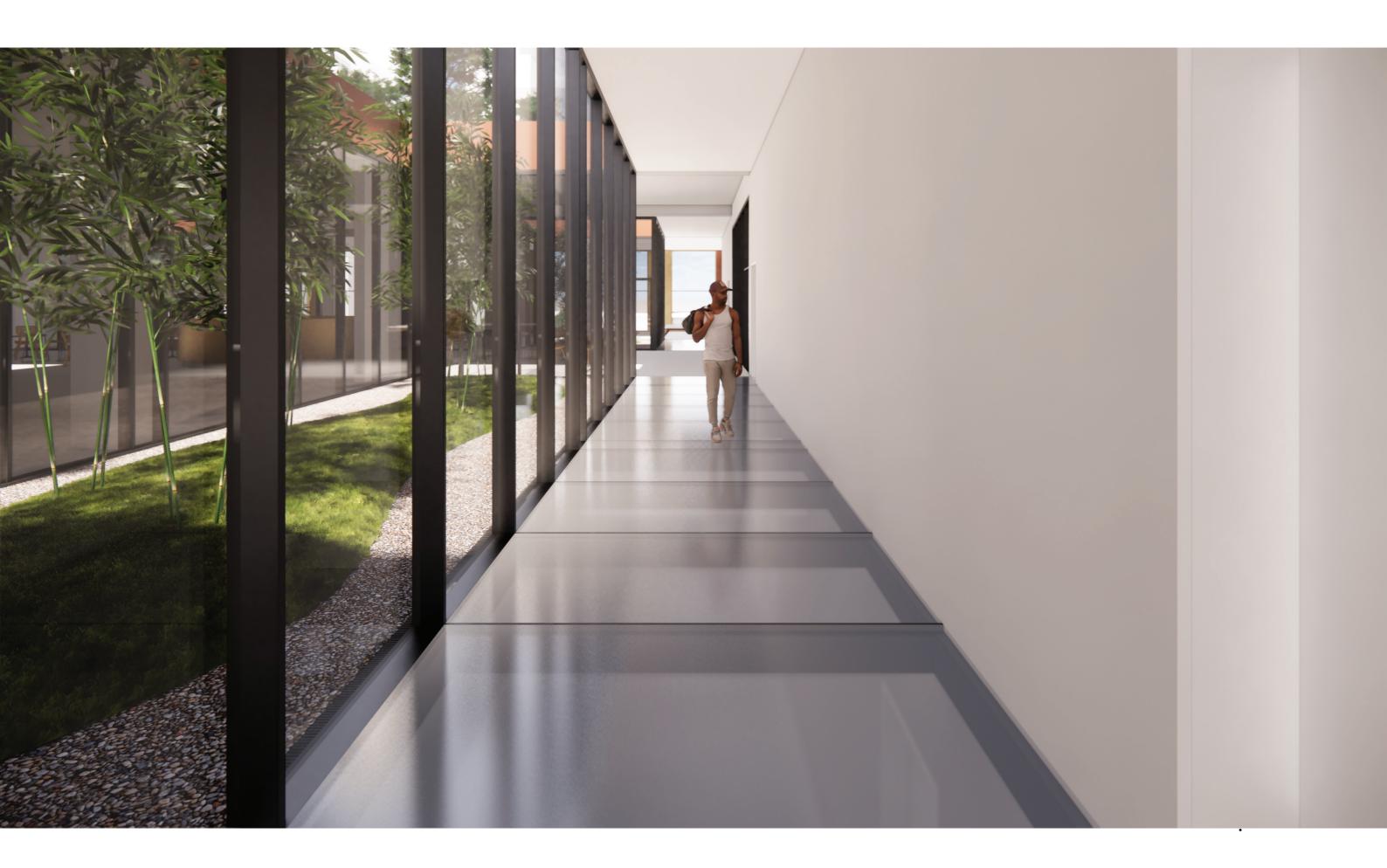
+12800











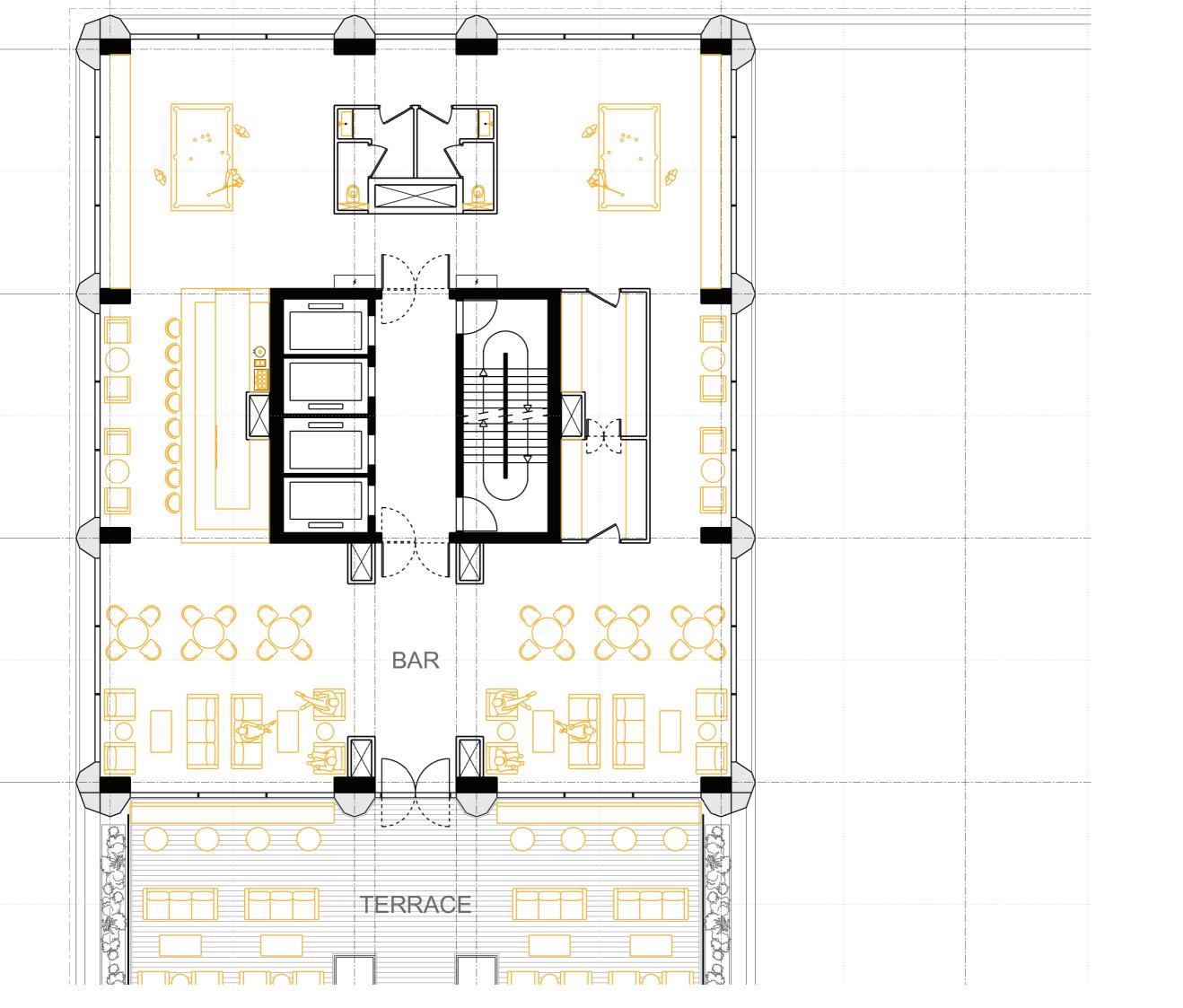




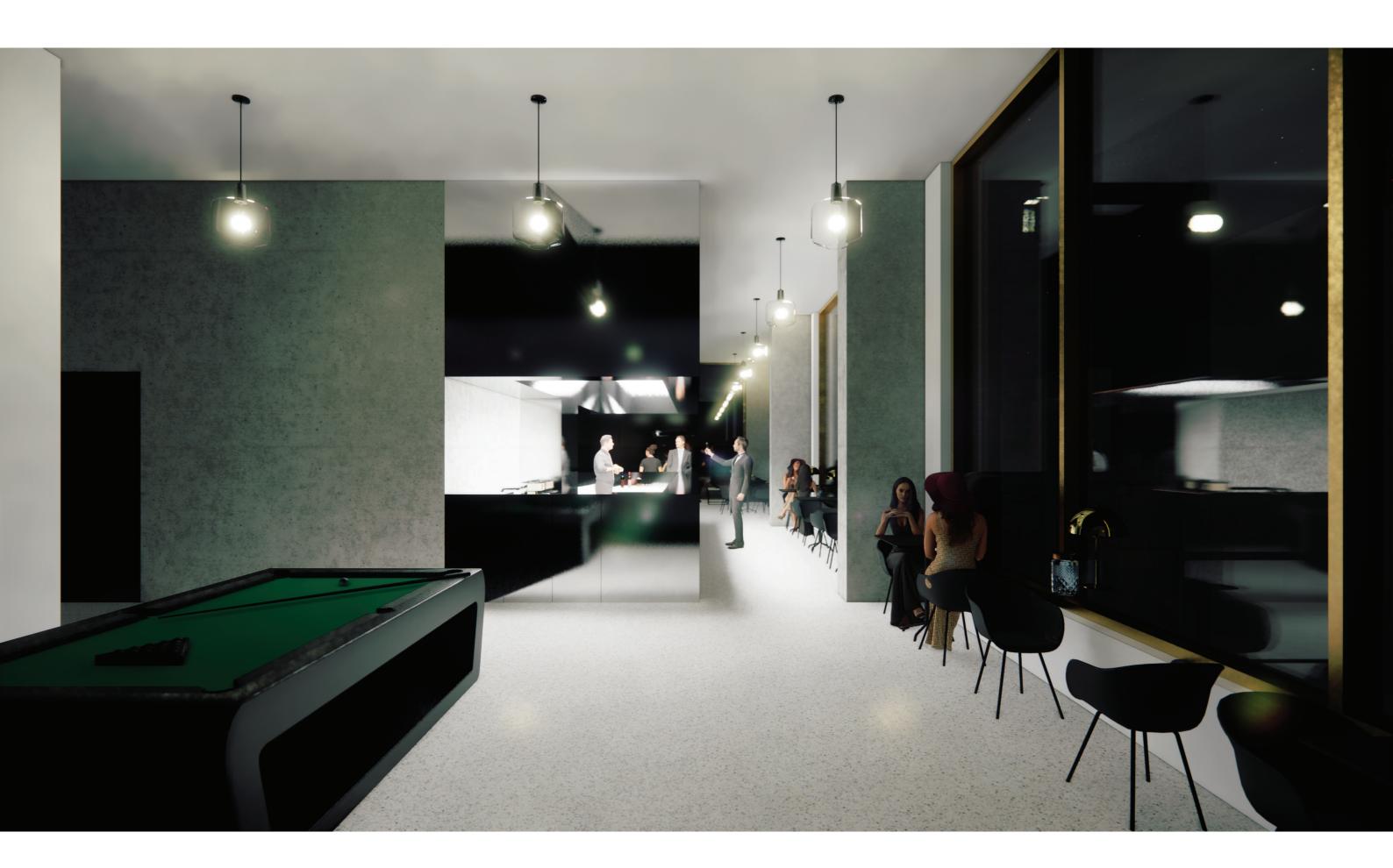






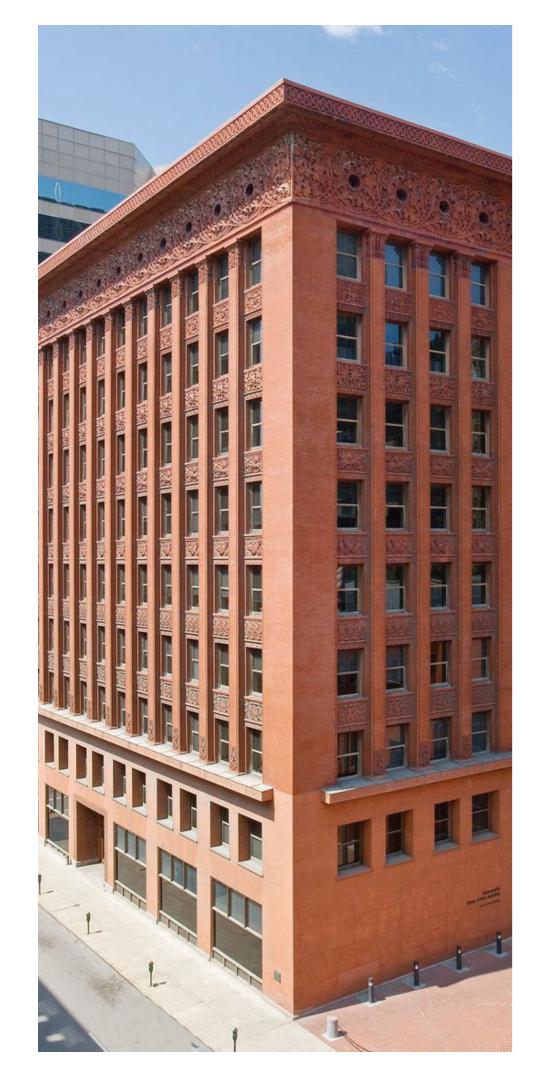


SKY BAR 75400

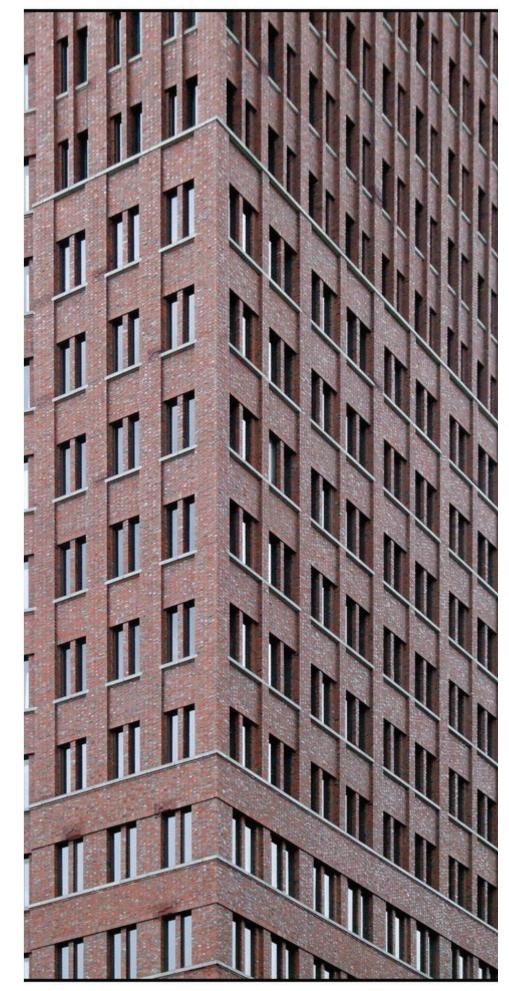


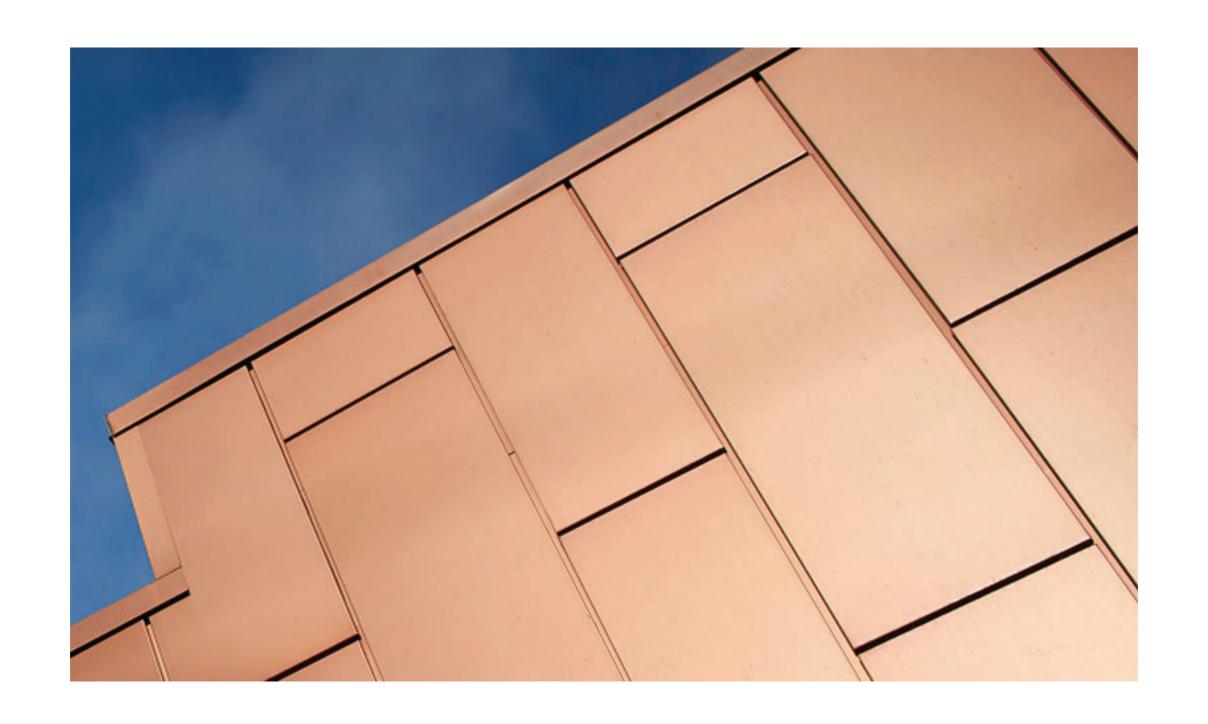
EXTERIOR EXPRESSION











ANODIZED ALUMINIUM









SOUTH ELEVATION

1:600





EAST ELEVATION

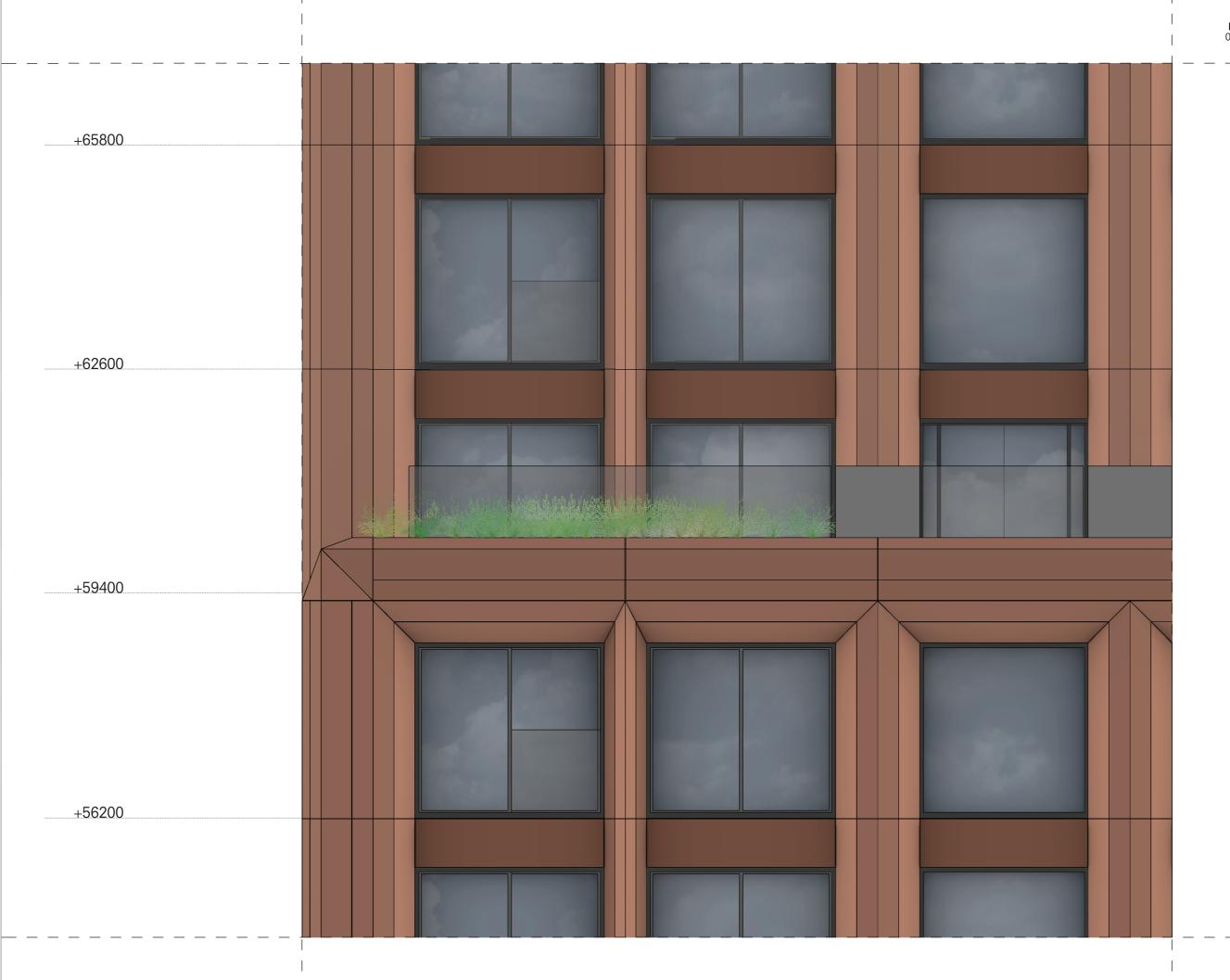
1:600

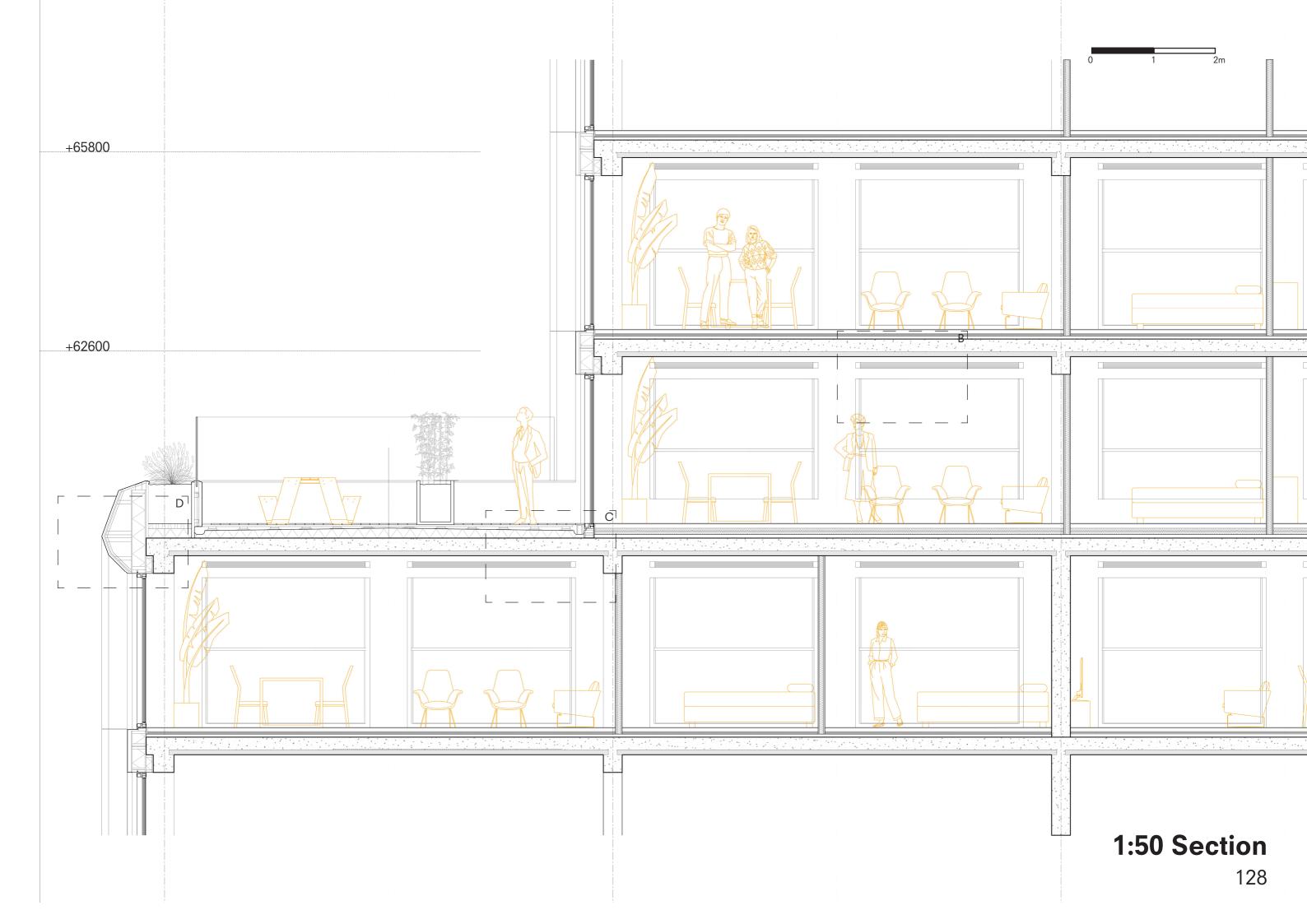


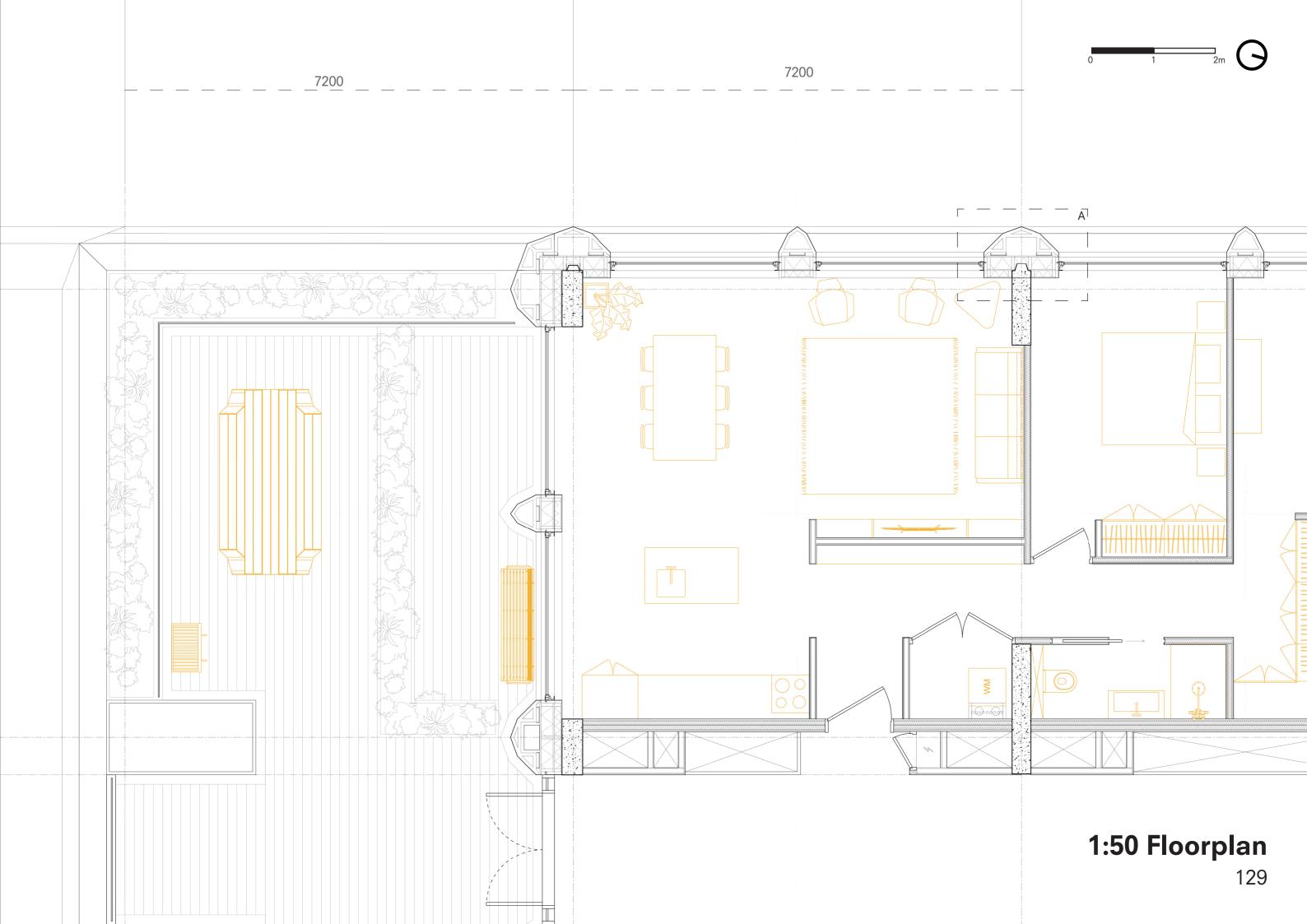


WEST ELEVATION

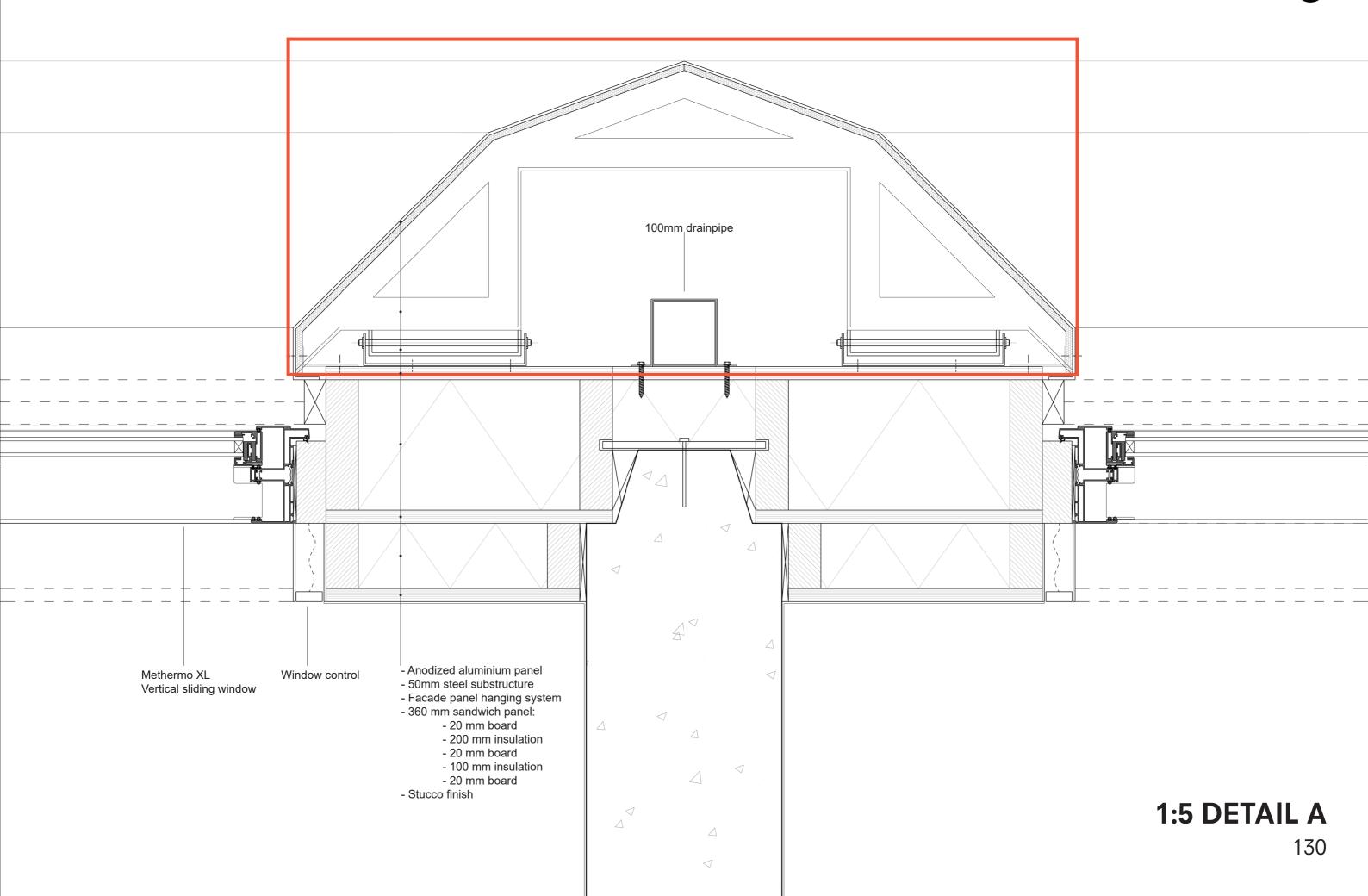
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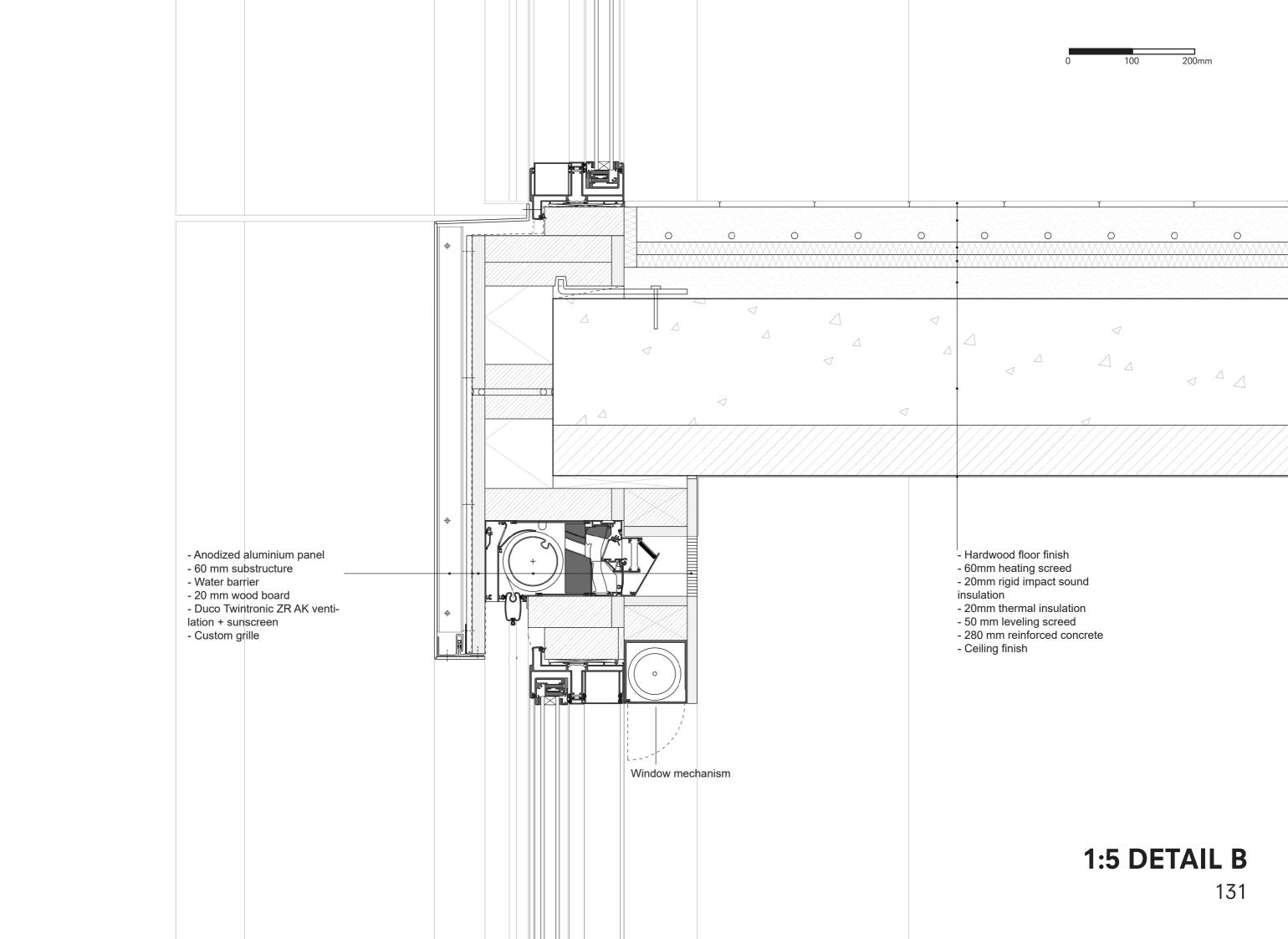


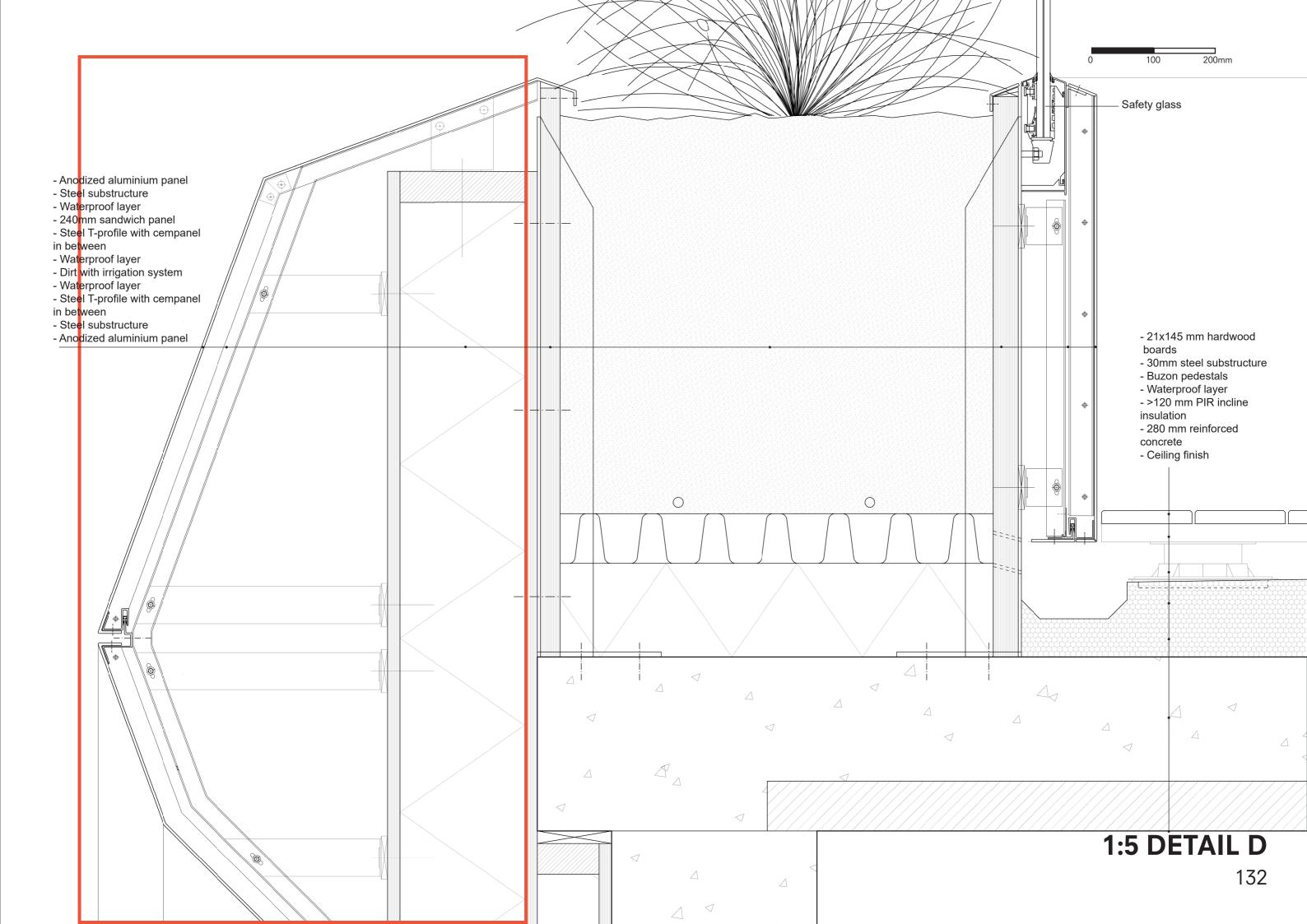


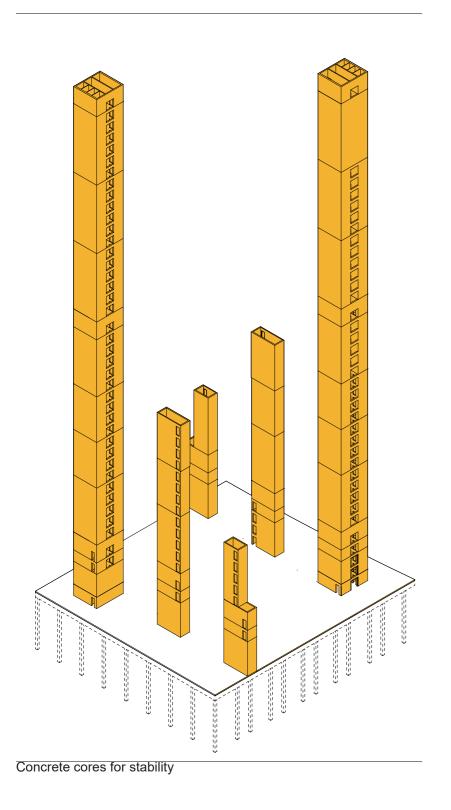


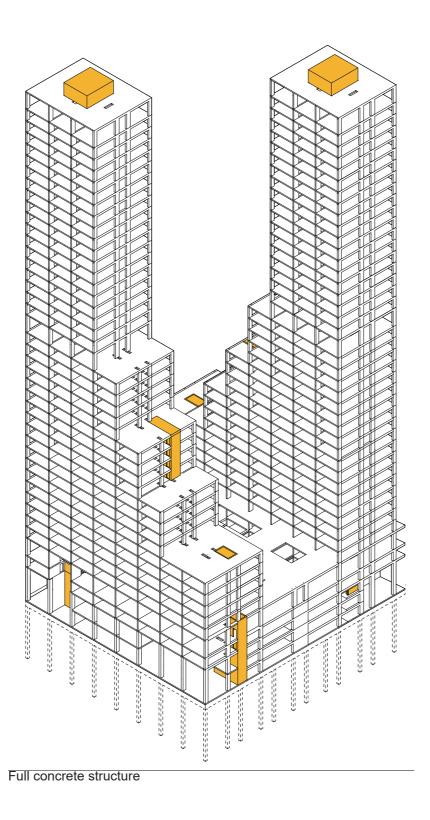


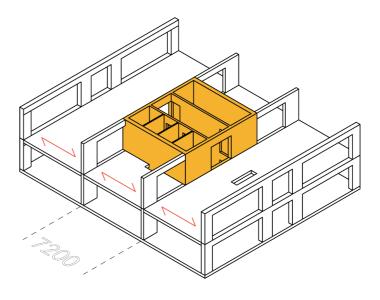




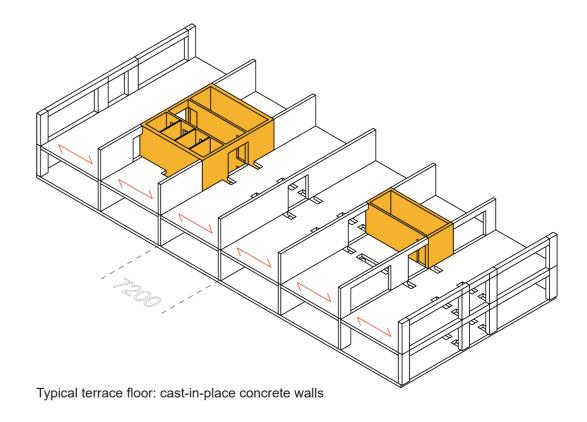




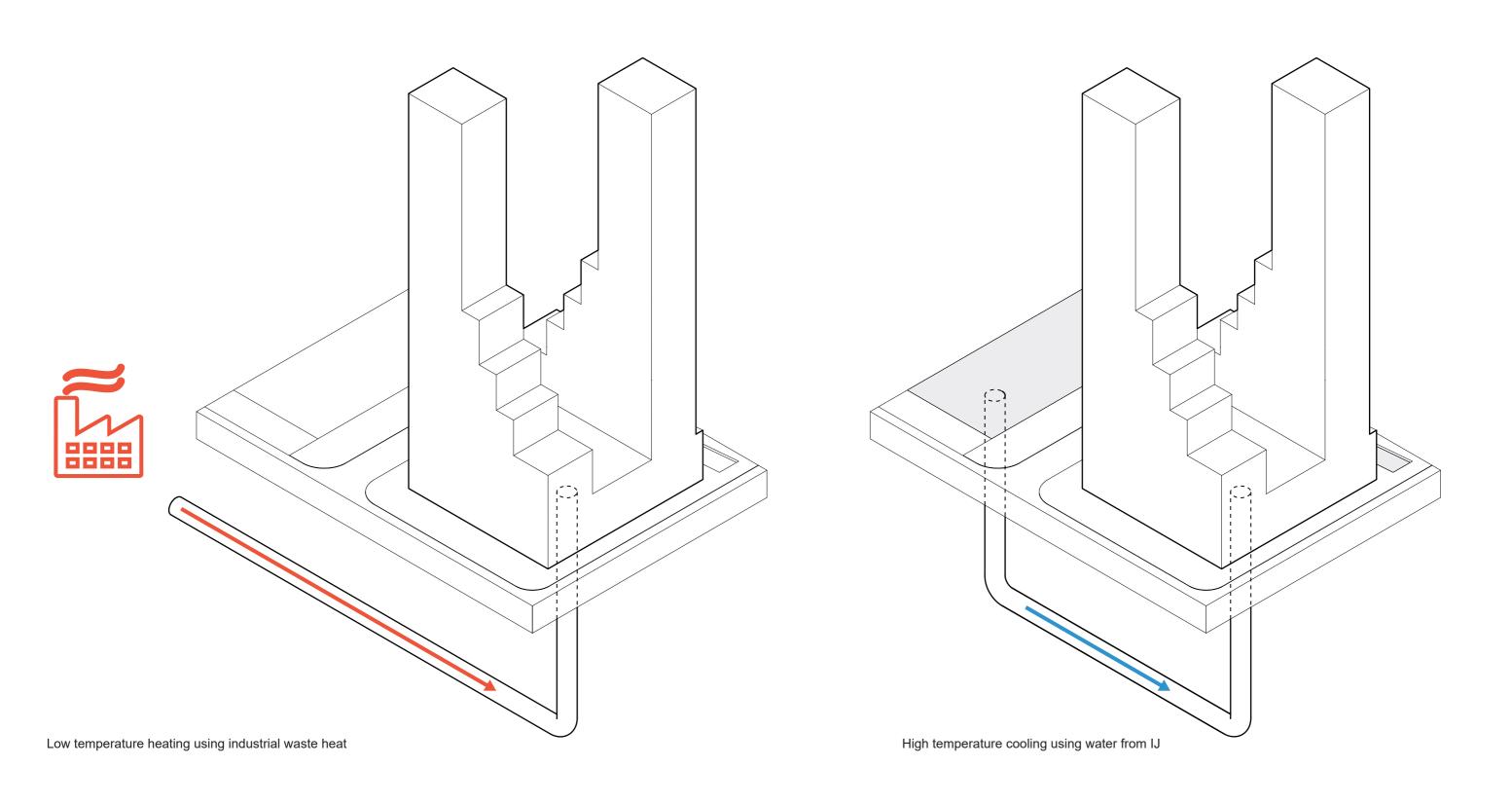




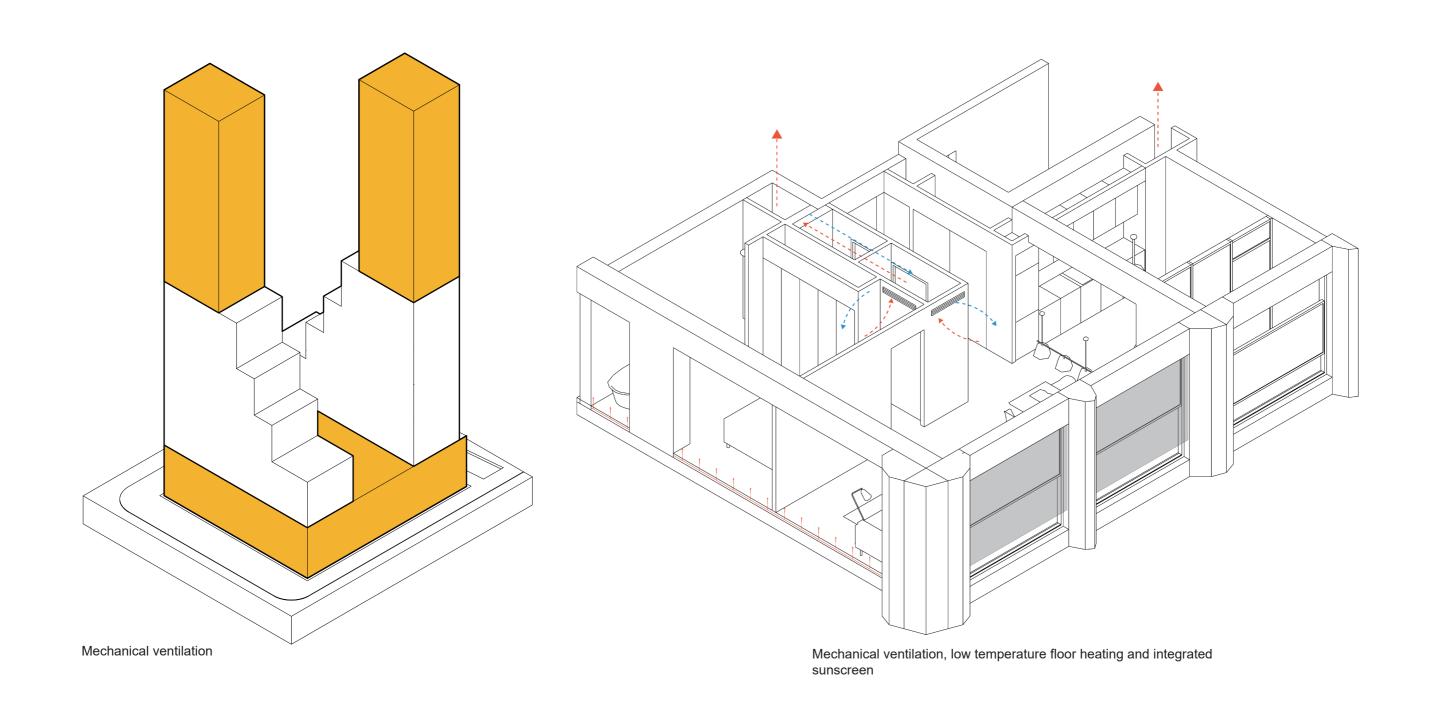
Typical tower floor: cast-in-place concrete portals



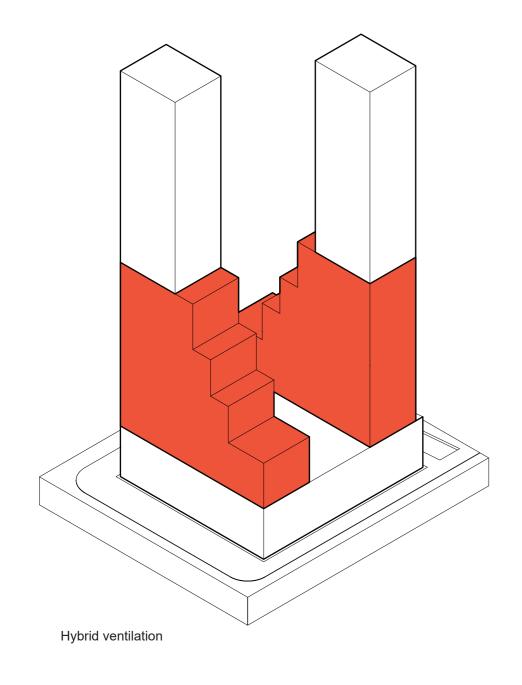
STRUCTURAL DESIGN

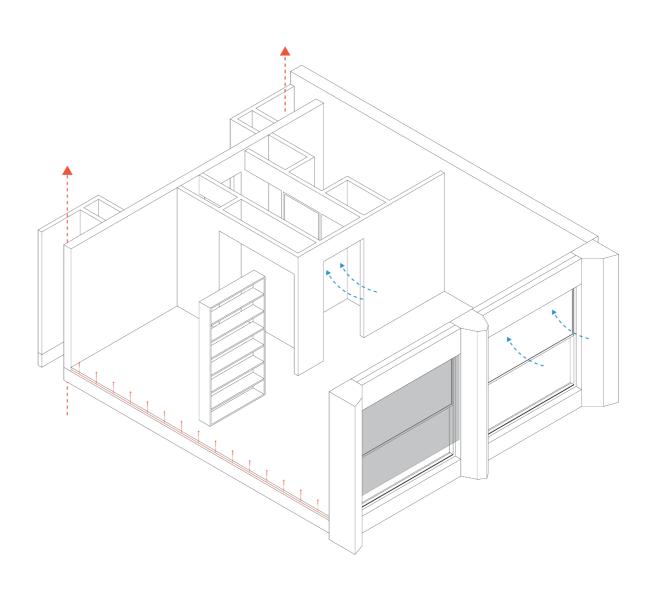


CLIMATE DESIGN PRINCIPLES



VENTILATION & HEATING





Hybrid ventilation, low temperature floor heating and integrated sunscreen

