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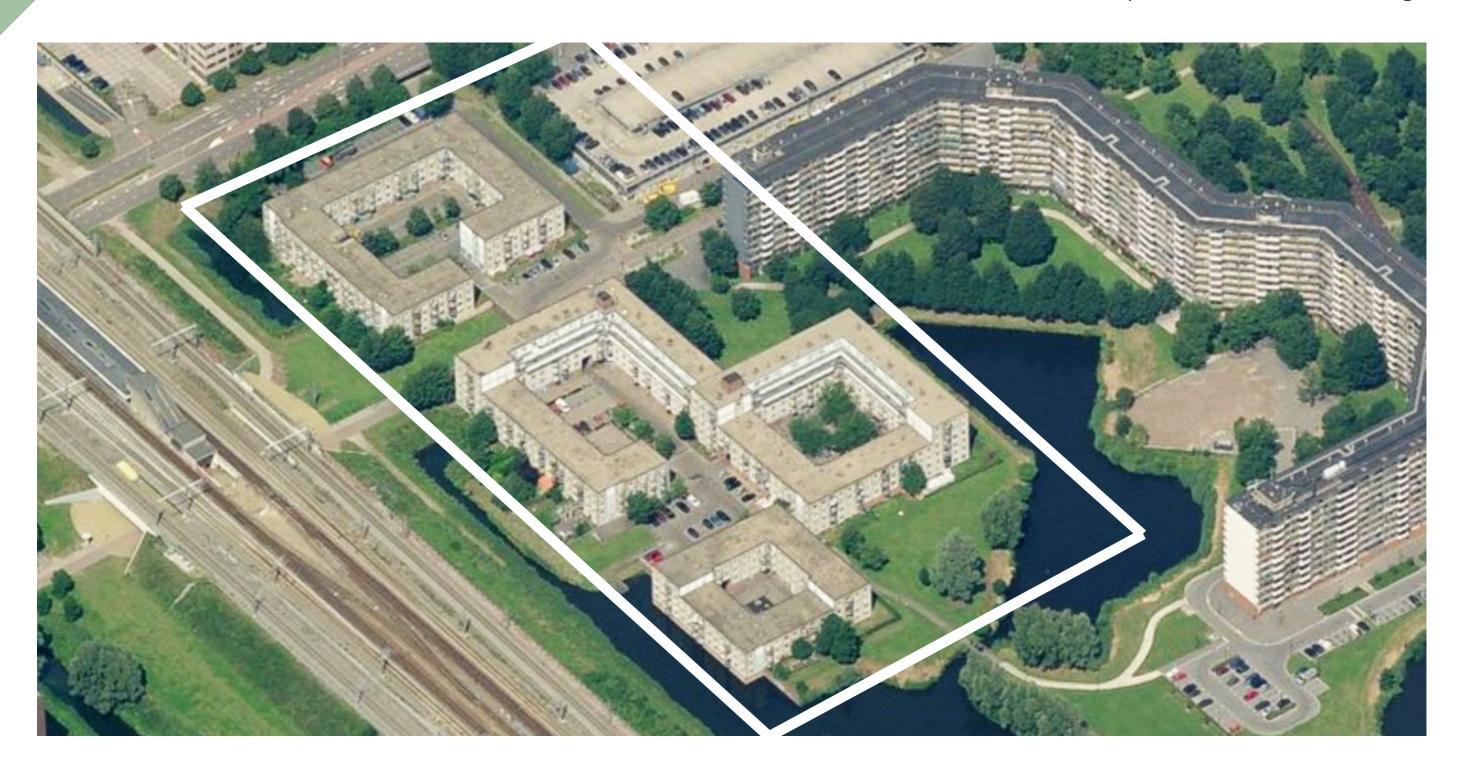
### INTRODUCTION



Amsterdam Heesterveld

INTRODUCTION Heesterveld

Owner: Ymere Architect: Frans van Gool & Pi de Bruijn 4 residential complexes with 317 dwellings



### HISTORY HEESTERVELD





O 1972 1974





1983 1983





2013



2020

### HEESTERVELD







### **GOAL OF RESEARCH**

What are the *values, attributes and challenges* of the residential neighbourhood and buildings in Heesterveld, as perceived by its *residents, the government, the makers and academics and the owners*?







### **METHOD**

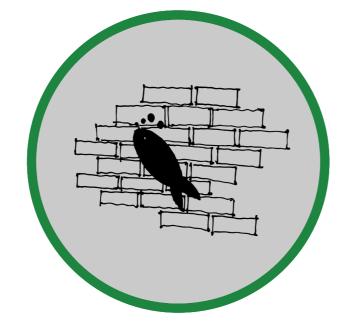
MAIN RESEARCH   H-BUURT					
MAKERS	GOVERNMENT	OWNERS	USERS		
INTERVIEWS	INTERVIEWS	INTERVIEWS	INTERVIEWS		
LITERATURE	DEMOGRAPH.	LITERATURE	SOCIAL MEDIA		
REPORTS	POLICY				
PHOTO ELICITATION	PHOTO ELICITATION	PHOTO ELICITATION	PHOTO ELICITATION		
ACTIVE PHOTO PARTICIPTION	MAPPING POLICY	ACTIVE PHOTO PARTICIPTION	NARRATIVE WALK		
NARRATIVE WALK	TREND ANALYSIS	NARRATIVE WALK	QUESTIONNAIRE		
Q-BASED INTERVIEW	CROSS ANALYSIS	TIMELINE	SOCIAL MEDIA ANALYSIS		
LIT. EXTRACTION			IN-DEPTH INTERVIEW		
		<b>↓</b>			
COLLECTIVE PHOTO ELICITATION - COLLECTIVE CODING					
COLLECTIVE MATRIX WITH VALUES, ATTRIBUTES AND CHALLENGES					
COLLECTIVE 'THEME' CODES FOR H-BUURT					

### **COLLECTIVE RESEARCH**

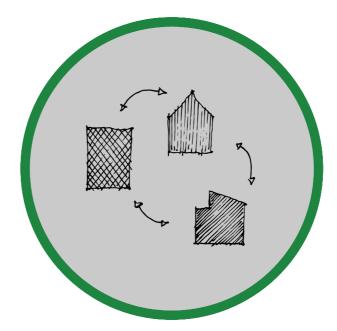




cultural diversity



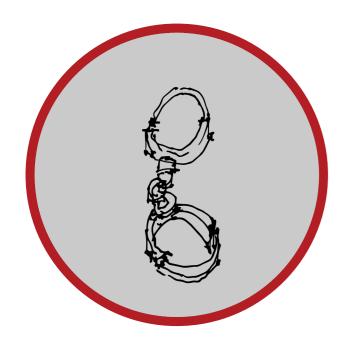
(street) art



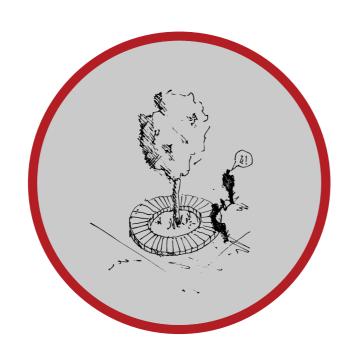
own identity



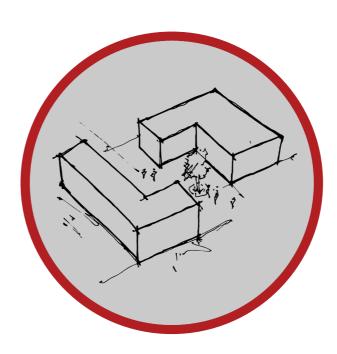
presence of greenery



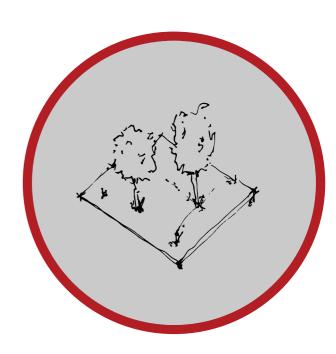
unsafe feeling



unintended use of public space

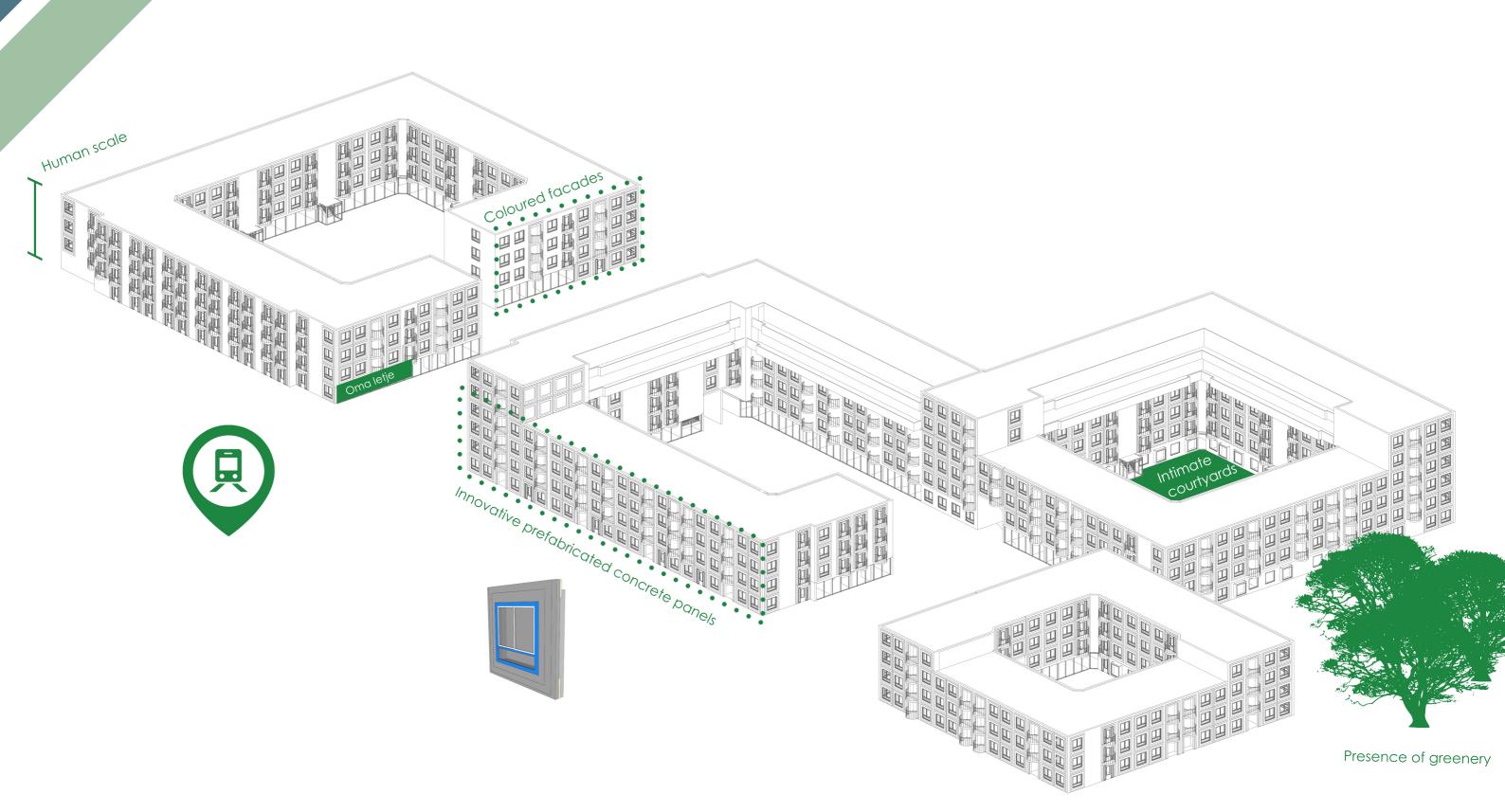


no diversity in public space/function

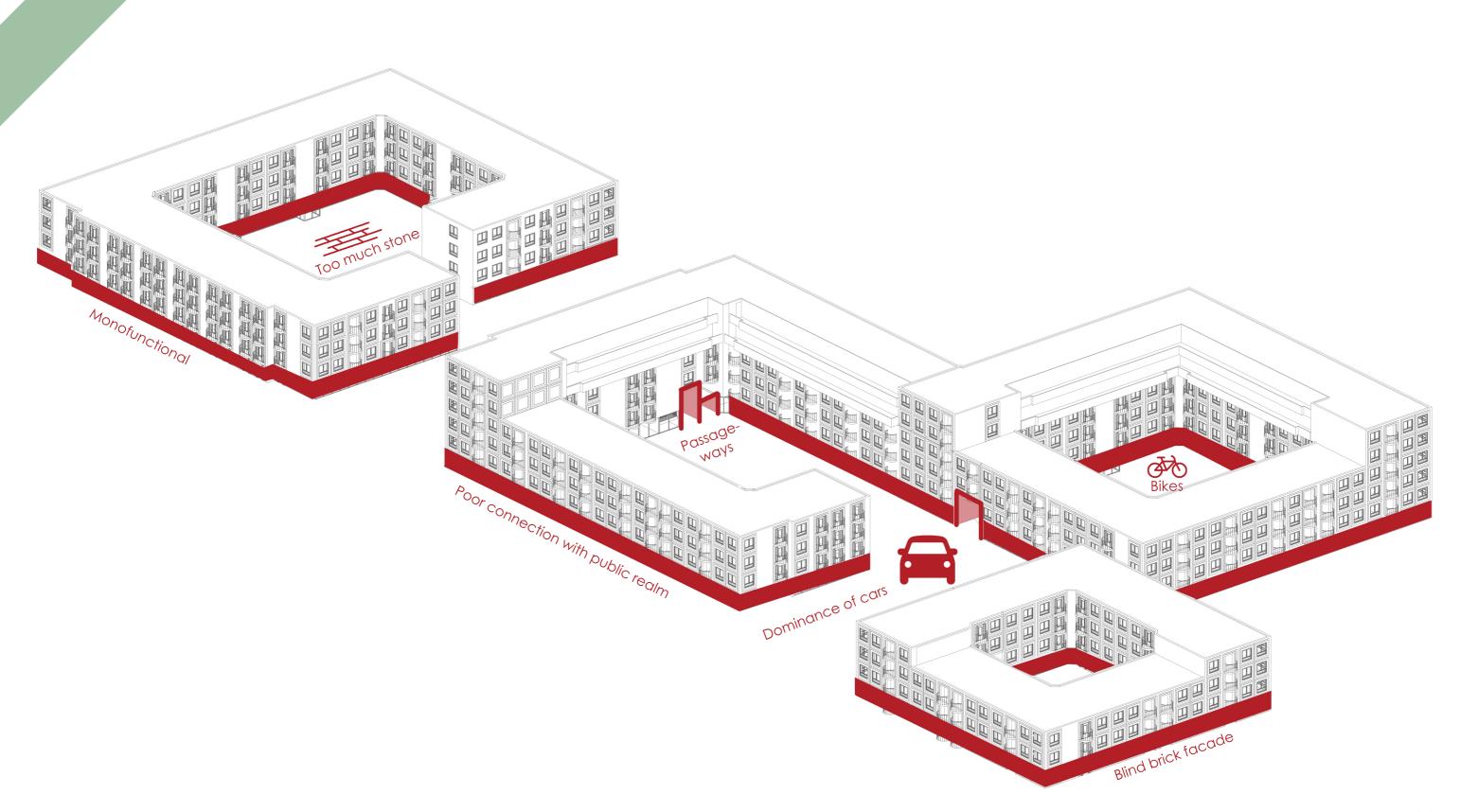


lack of qualitative greenery

### **STRENGTHS**



### **WEAKNESSES**

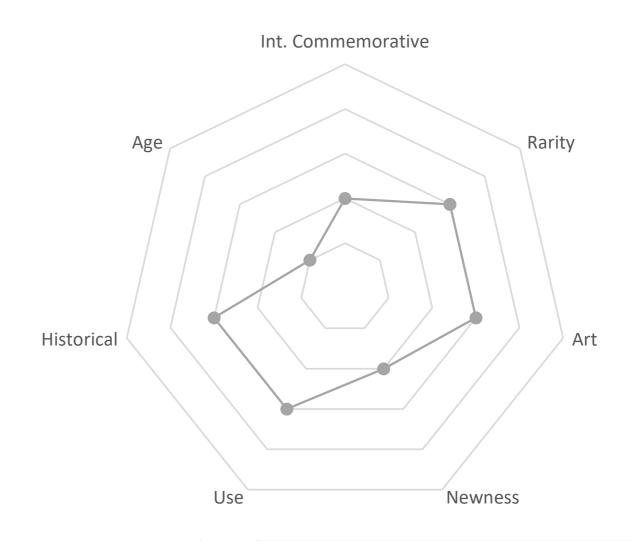


### **VALUE ASSESSMENT**

### **URBAN**

## Age Rarity Historical Use Newness

### **BUILDING**



### Urban:

- surroundings / setting
- site
- spirit of place

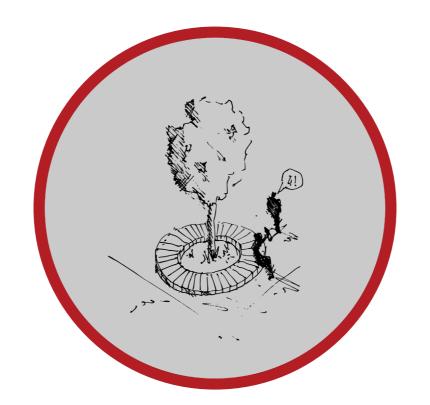
(Brand & Riegl)

### Building:

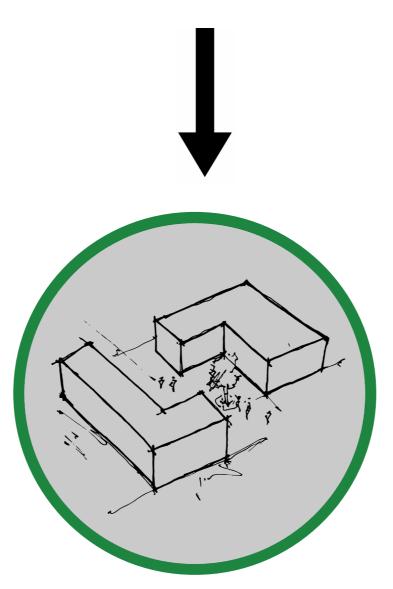
- skin- surfaces- structure- services- space plan- stuff

(Brand & Riegl)

12



problematic public space













reduce juvenile crime



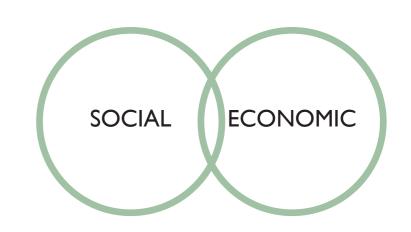
improve social accessibility

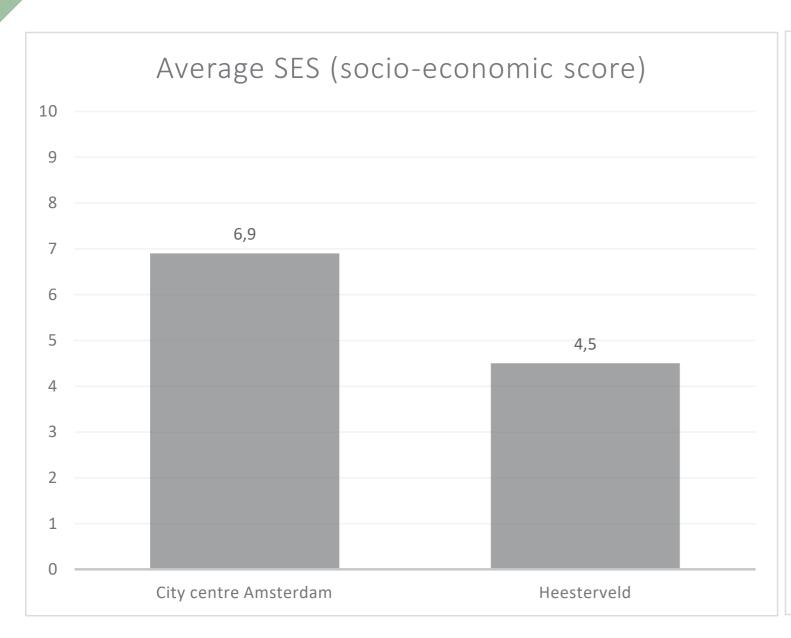


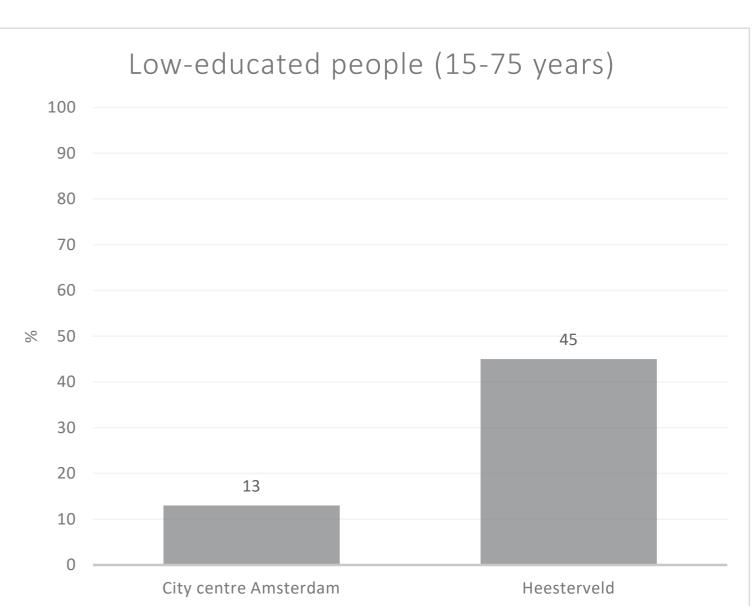
strengthen entrepreneurship



strengthen art and culture







A person's position on the social ladder based on the level of income and education



### **CLIMATE CHANGE**

HEALTH IMPACT BAD AIR QUALITY

MORE HOT DAYS HEALTH climate change harms people's health

MORE DISEASES

ECONOMIC IMPACT

FOOD crops can be damaged by heat, drought and insects ECONOMY climate change will cost more mony and impact jobs

floods can damage homes, neighbourhoods and businesses extreme
weather can
damage homes,
neighbourhoods
and businesses

ENVIRONMENTAL IMPACT

MORE HEAVY RAIN

RISING SEA LEVELS MORE RIVER FLOODING

EXTREME WEATHER HOTTER AND DRIER SUMMERS **THEMES** 

SOCIAL

SUSTAINABILITY

ECONOMIC ENVIRONMENTAL

### **GOAL OF DESIGN**

How can Heesterveld be made *future-proof*, by solving the *social*, *economic and environmental issues* present in the neighbourhood, while preserving the *current values and identity*?







### **INTERVENTIONS**

**SOCIAL** 

SWAT ON SWAN

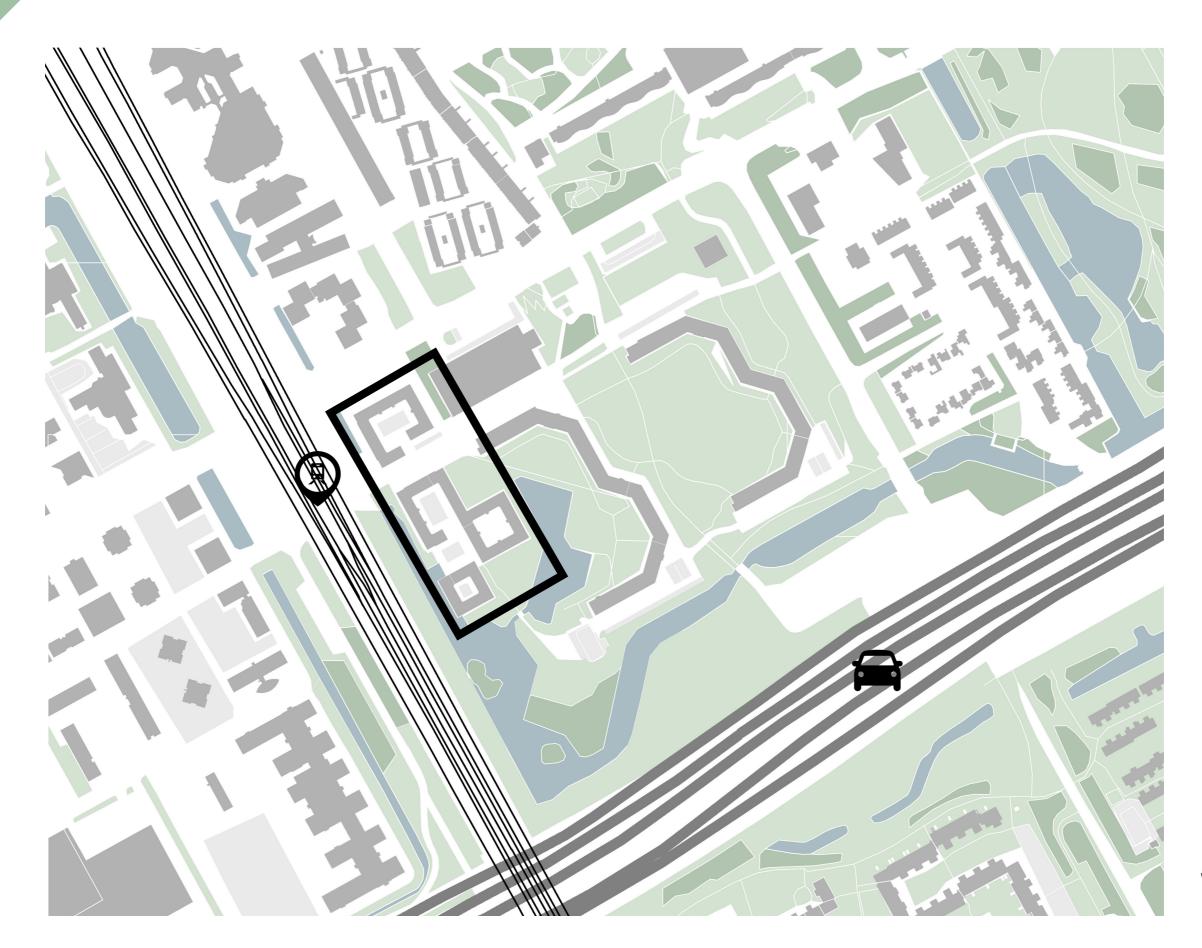
MERRSTRUCTURE

**ECONOMIC** 

FUTURE PROOF BUILDING **ENVIRONMENTAL** 

DESIGN
URBAN SCALE

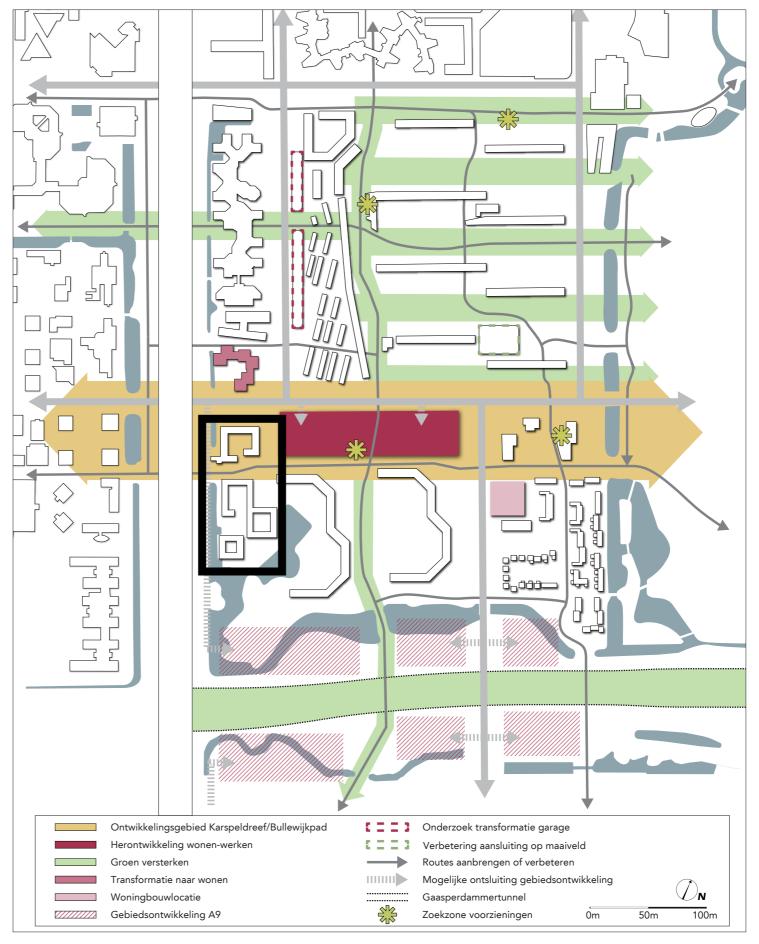
### BORDERS





### **VISION MUNICIPALITY**

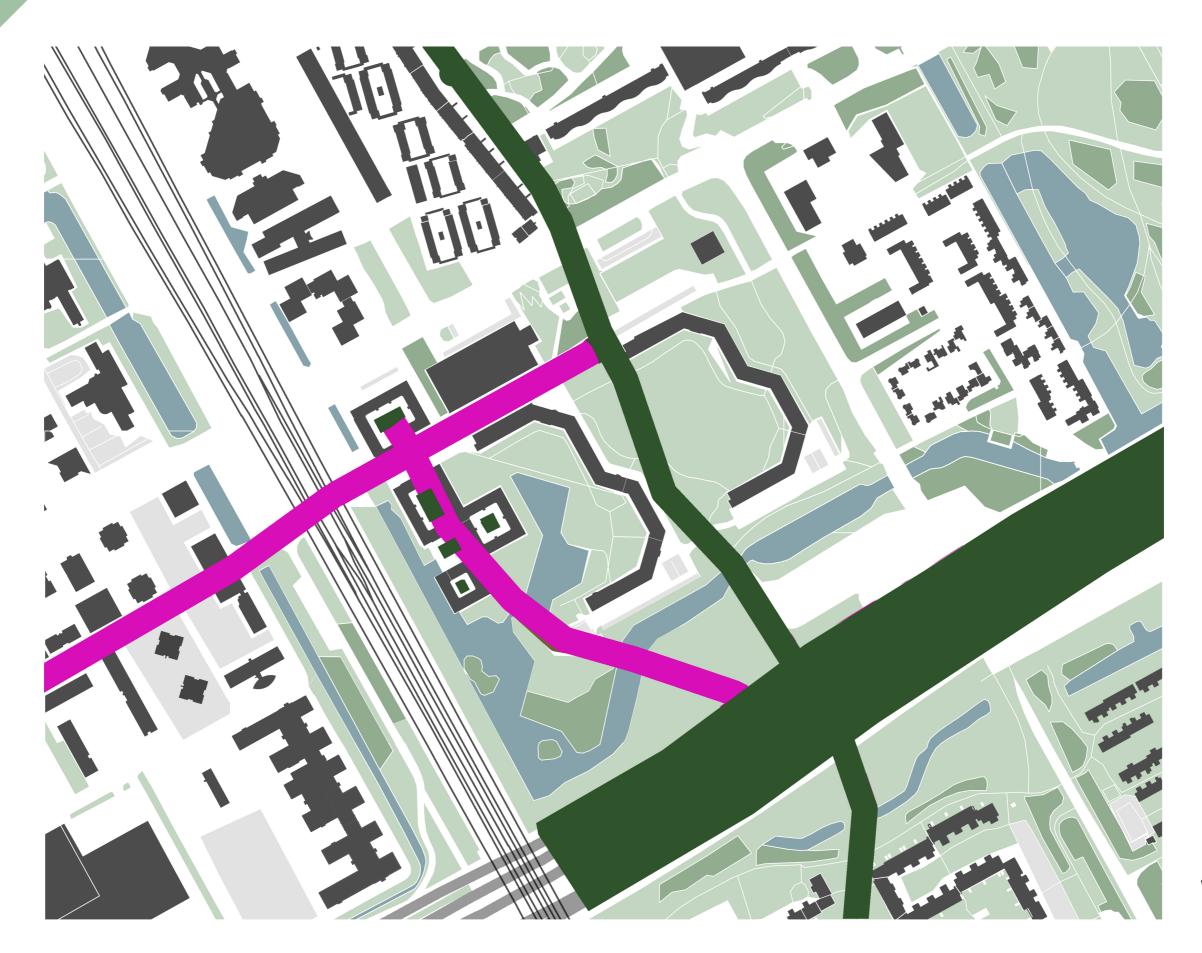
### Ruimtelijke ambitiekaart



Afbeelding 26: Ruimtelijke ambitiekaart

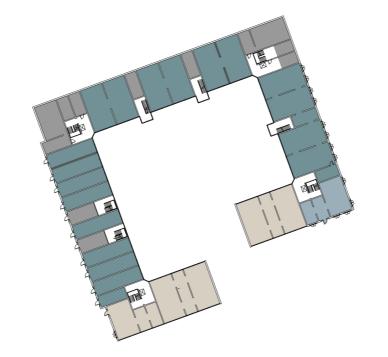
(Gemeente Amsterdam, 2019)

### **URBAN PLAN**





### FUNCTIONS GROUND FLOOR



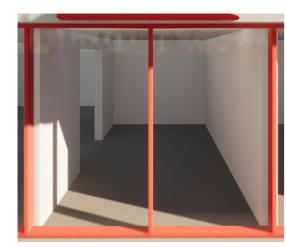


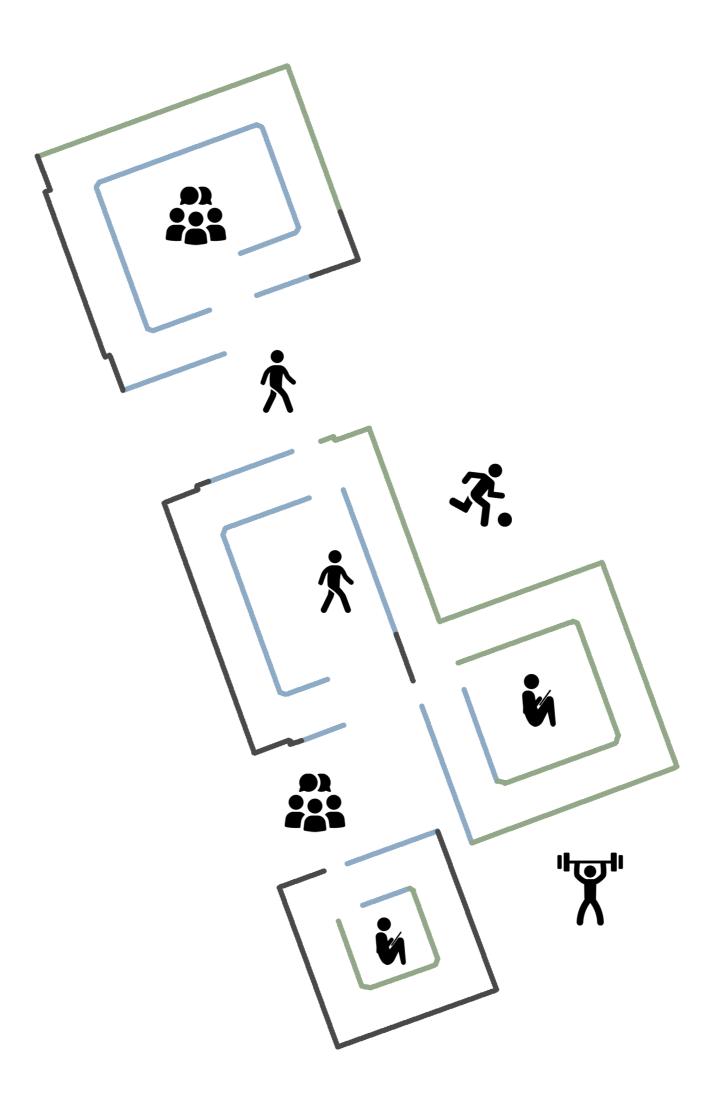
- Creative hub
- Offices
- Study centre
- Restaurant
- Shops
- Storage spaces

### FACADES GROUND FLOOR

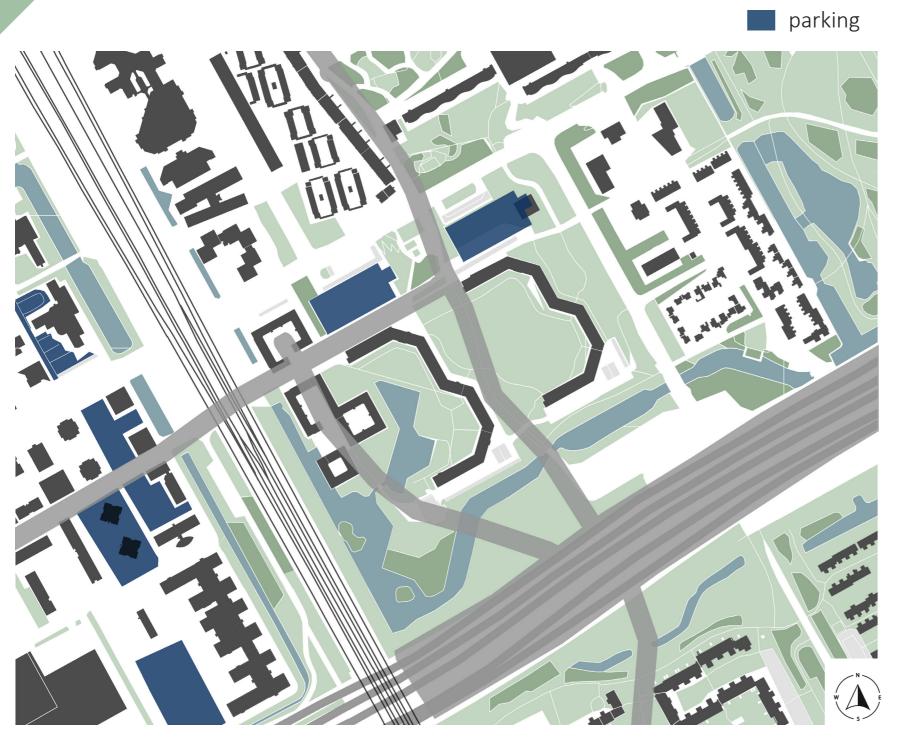








### PARKING







existing

new

### **NEW DWELLINGS**





### **NEW DWELLINGS**





### **BLUE GREEN**

SOCIAL
INTERACTION
attractive accessible
green spaces
increase social
interaction

STRESS
REDUCTION
viewing or
experiencing green
spaces reduce stress

PHYSICAL ACTIVITY
green spaces
designed on the
citizen's needs for
physical activity

**SOCIAL IMPACT** 

NOISE REDUCTION dense vegetation close to the source maximizes noise reduction

## GREEN DESIGN PRINCIPLES ON STREET LEVEL

**ENVIRONMENTAL IMPACT** 

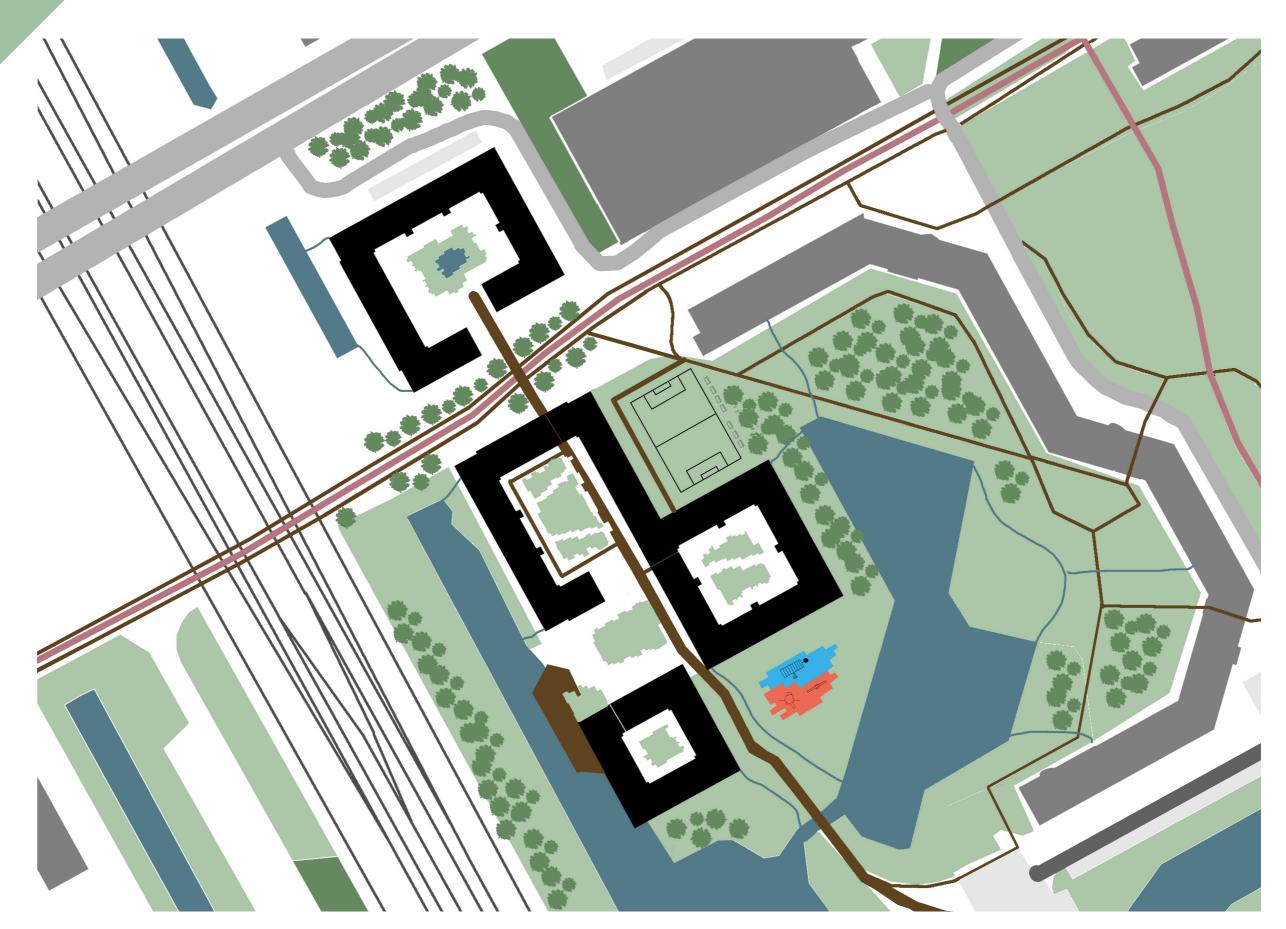
AIR QUALITY
REGULATION
green infrastructure
promotes air
circulation

MITIGATING
HEAT STRESS
trees improve
thermal comfort

WATER QUANTITY
REGULATION
more open soil
surface increases
infiltration capacity

Based on: (van Dinther et al., 2016)

### **URBAN PLAN**

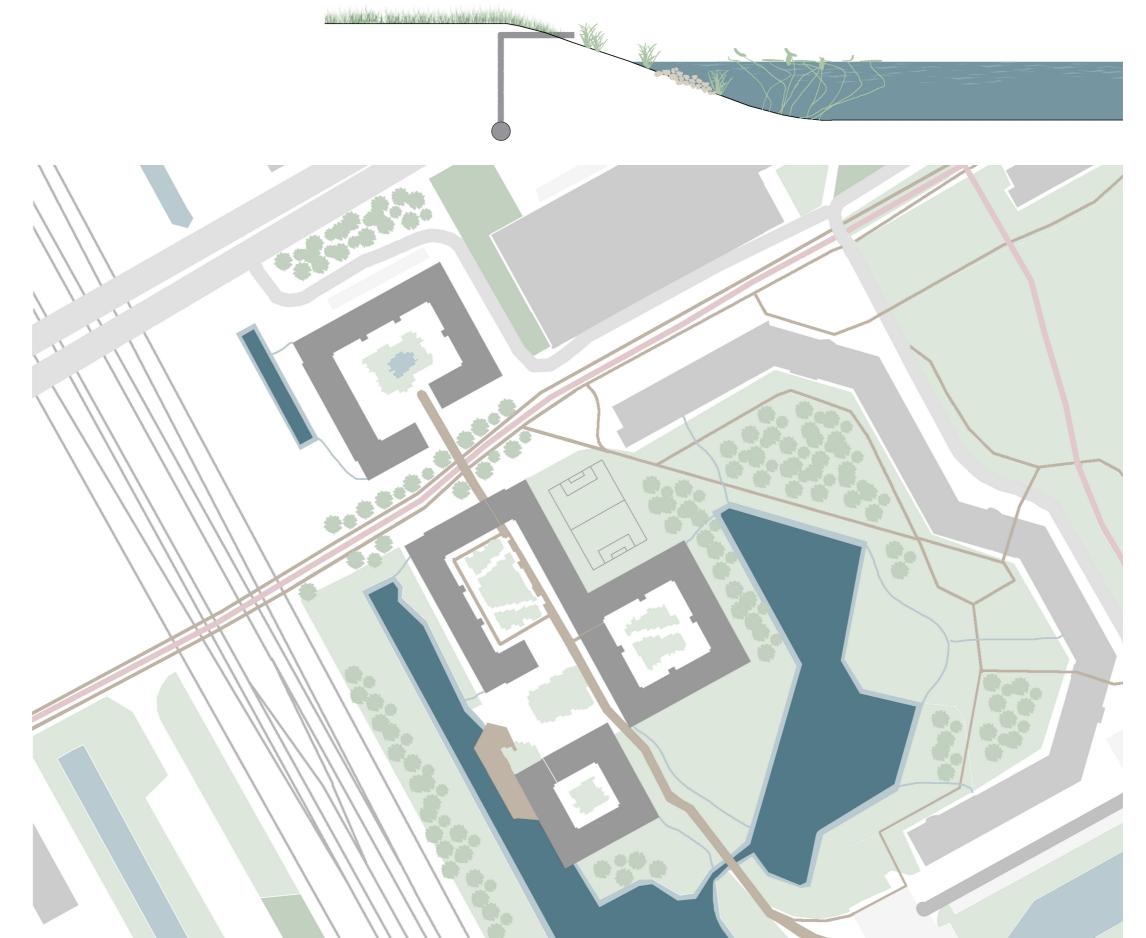




# RAINWATER PONDS

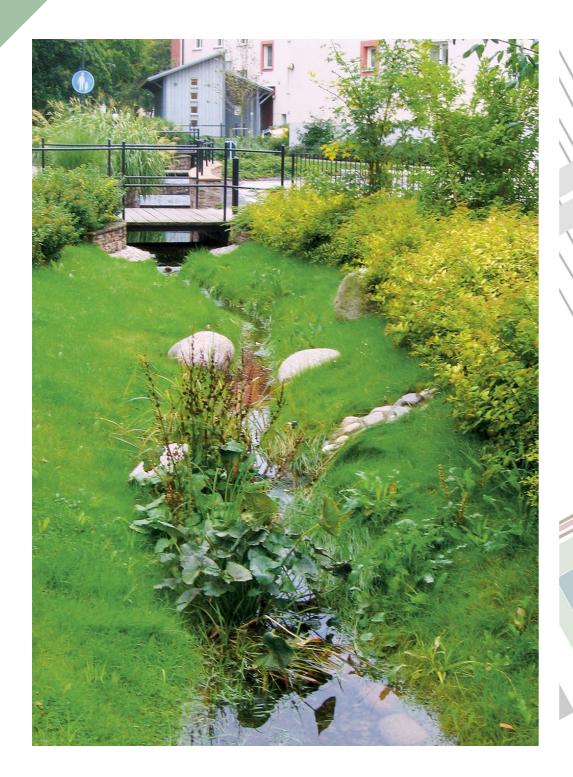


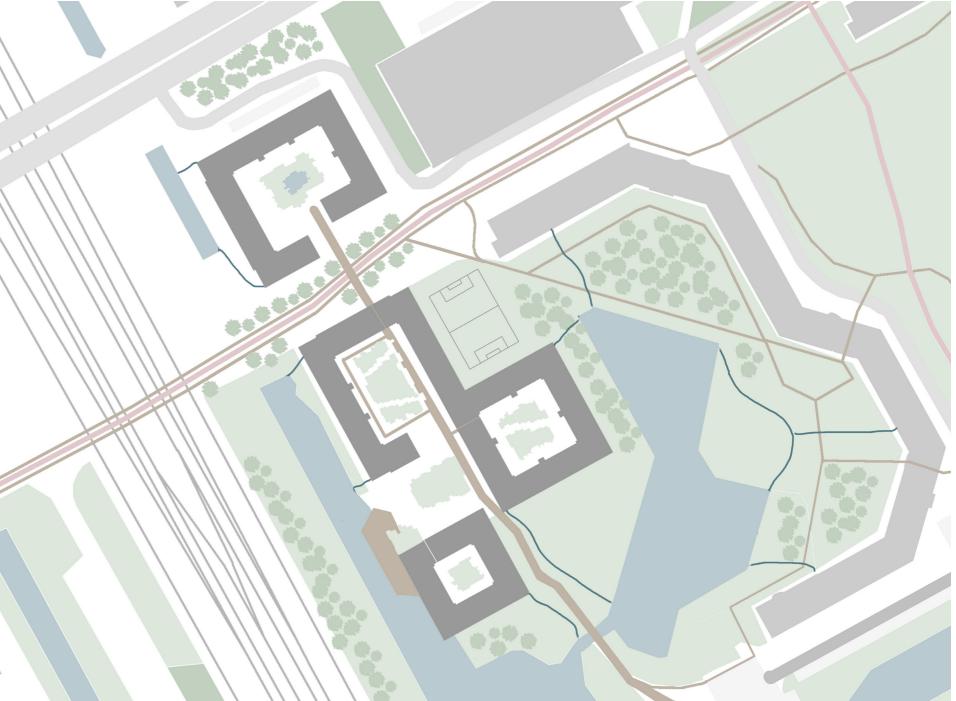
### RAINWATER PONDS

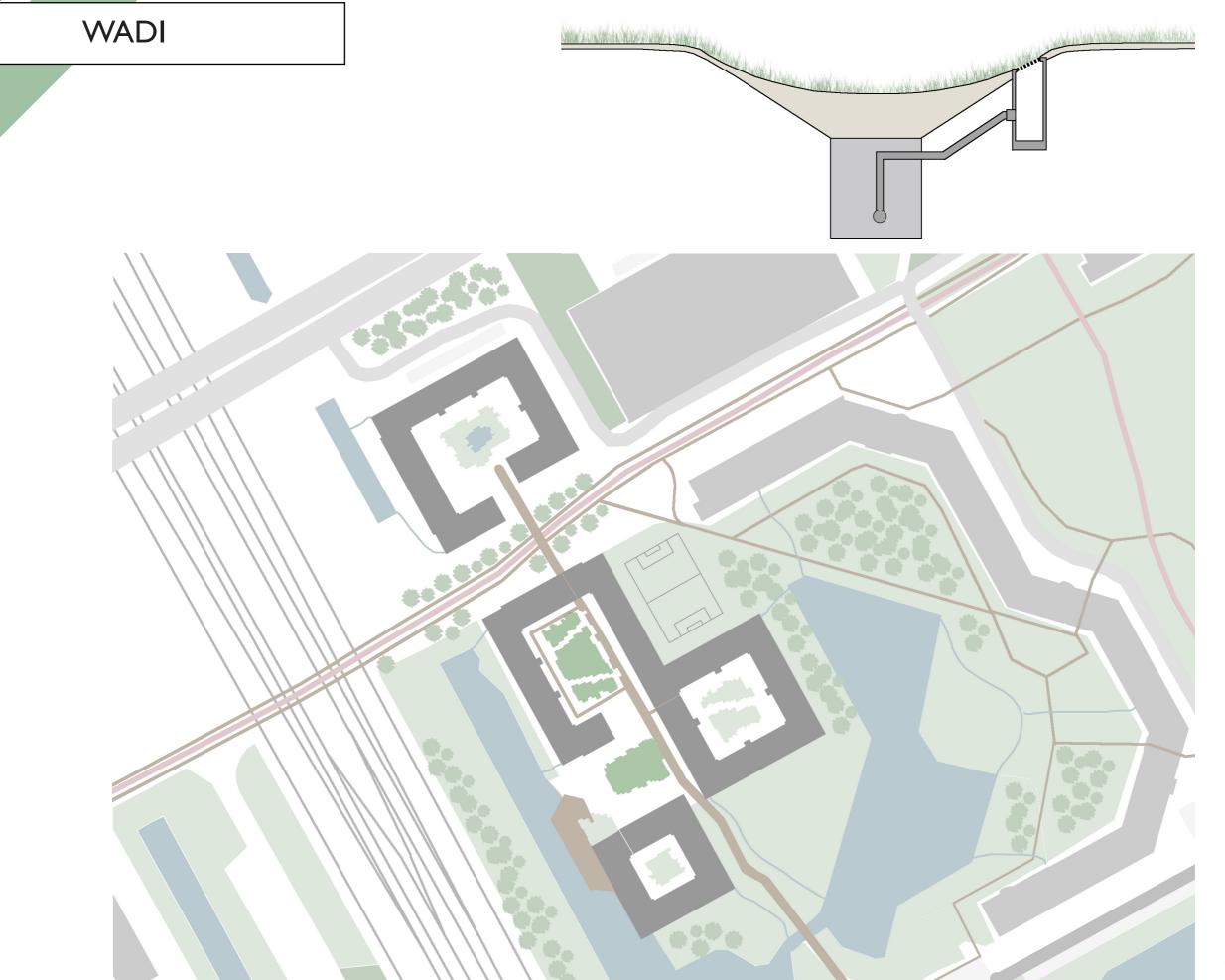


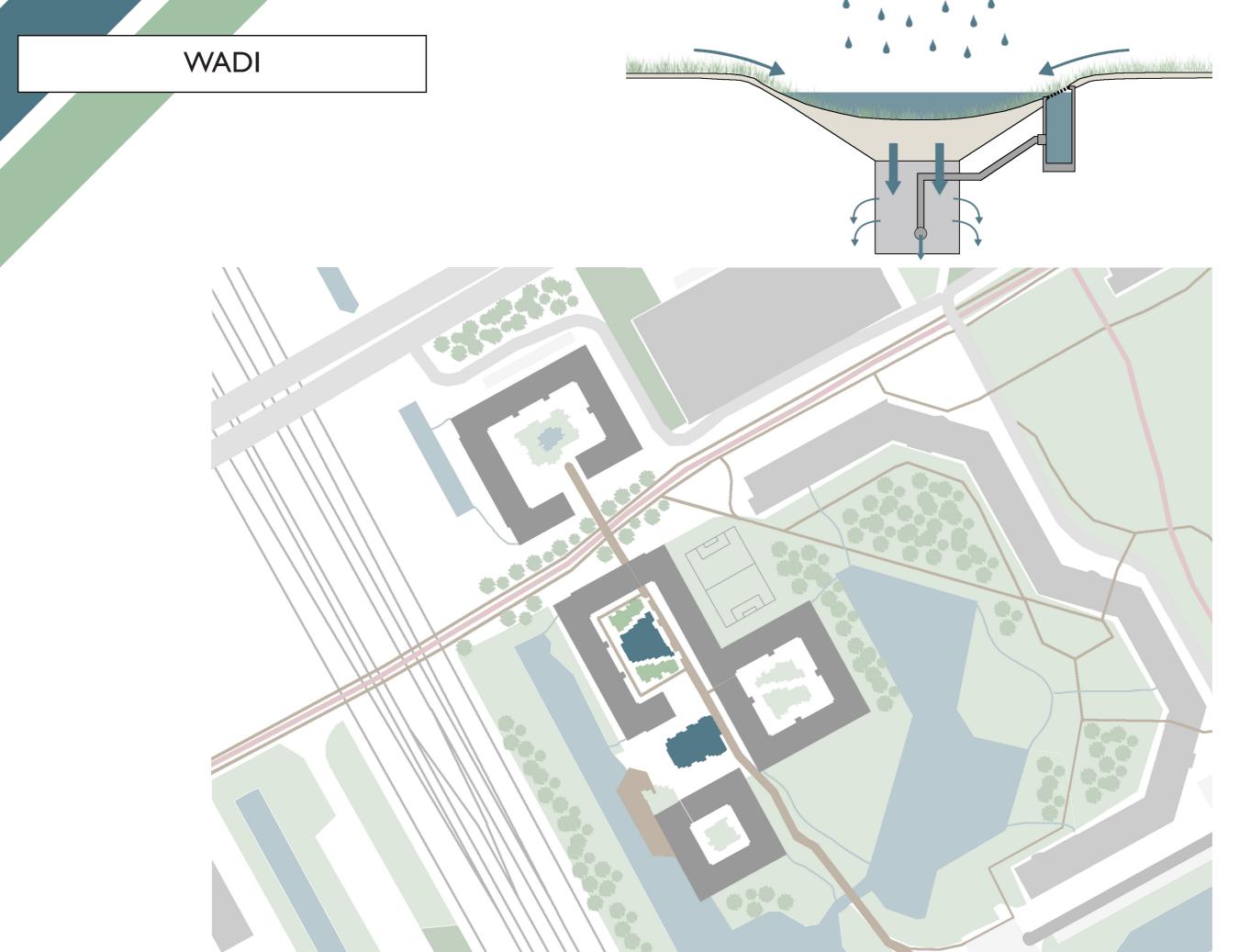


### DRAINAGE DITCH



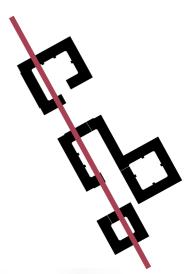


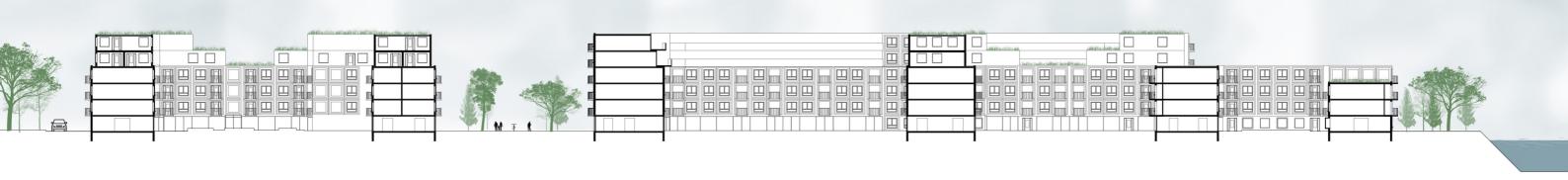






### **BIODIVERSITY**









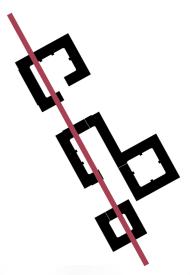






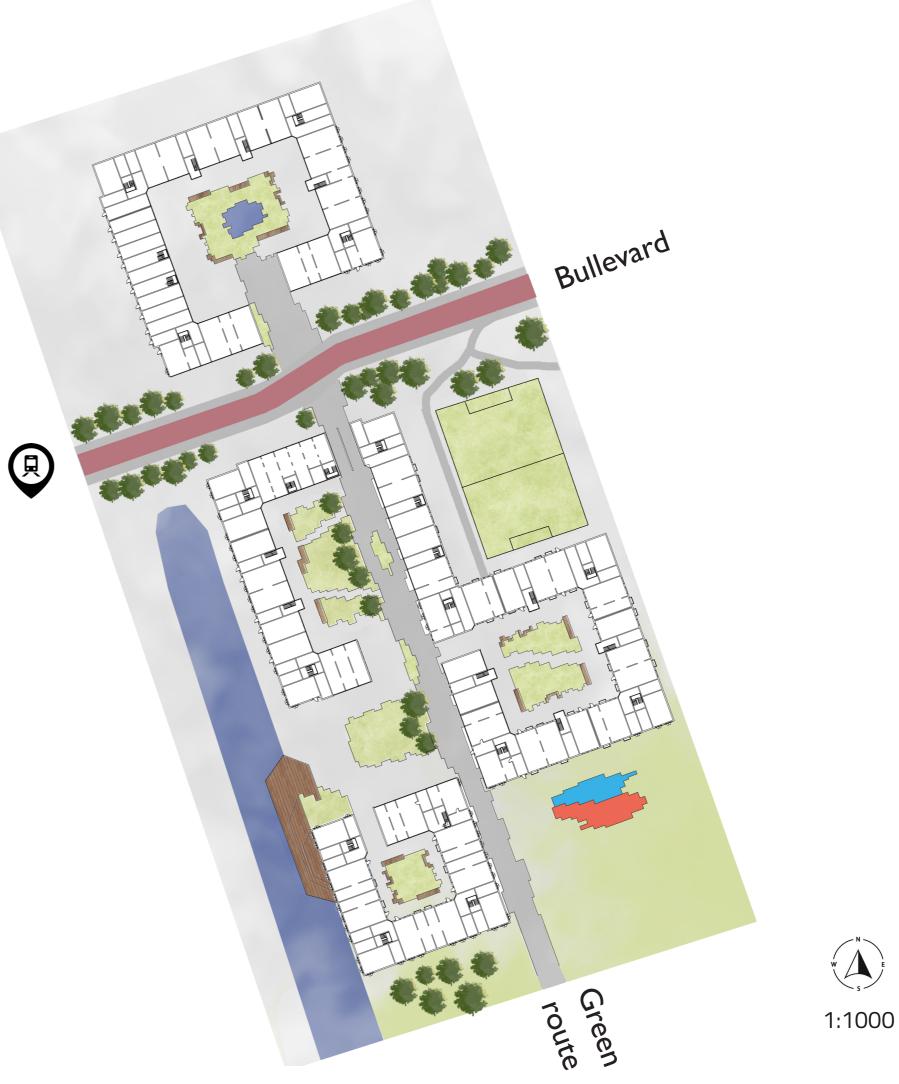


### WELL BEING



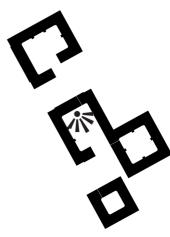


### **GREEN ROUTE**



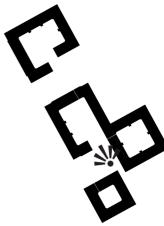


### **GREEN ROUTE**



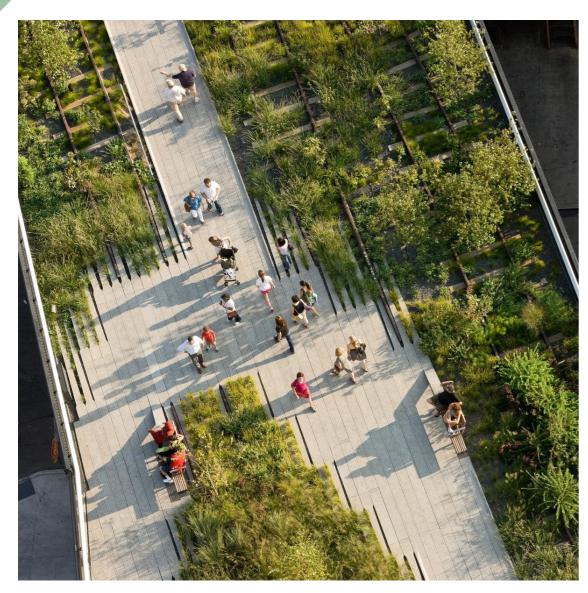


### **GREEN ROUTE**

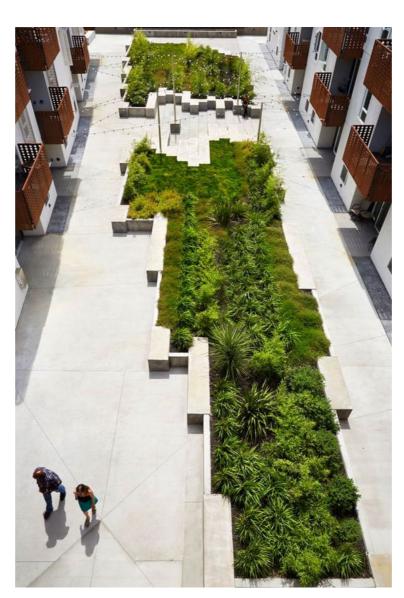




#### **REFERENCES**



high line - New York James Corner Field Operations, Diller Scofidio + Renfro, and Piet Oudolf

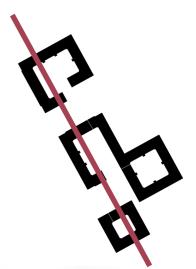


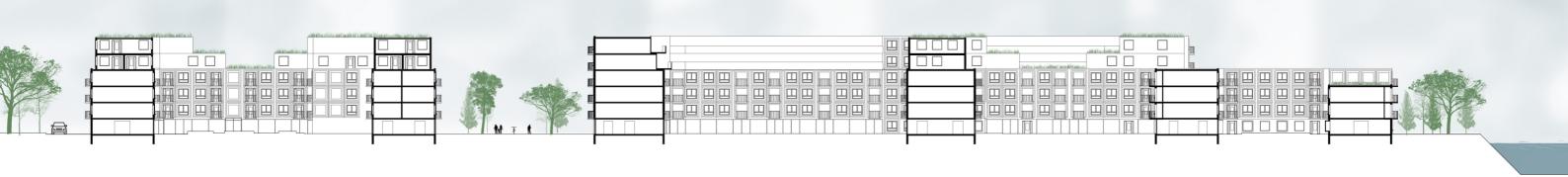
rivermark- California Fletcher Studio



housing complex- Bat Yam TeMA

#### SOCIO-SPATIAL RELATION







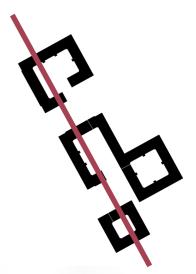








#### SOCIO-ECONOMIC











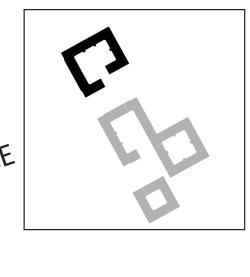






DESIGN
BUILDING SCALE

#### PLAN GROUND FLOOR









Restaurant / cafe



Gallery

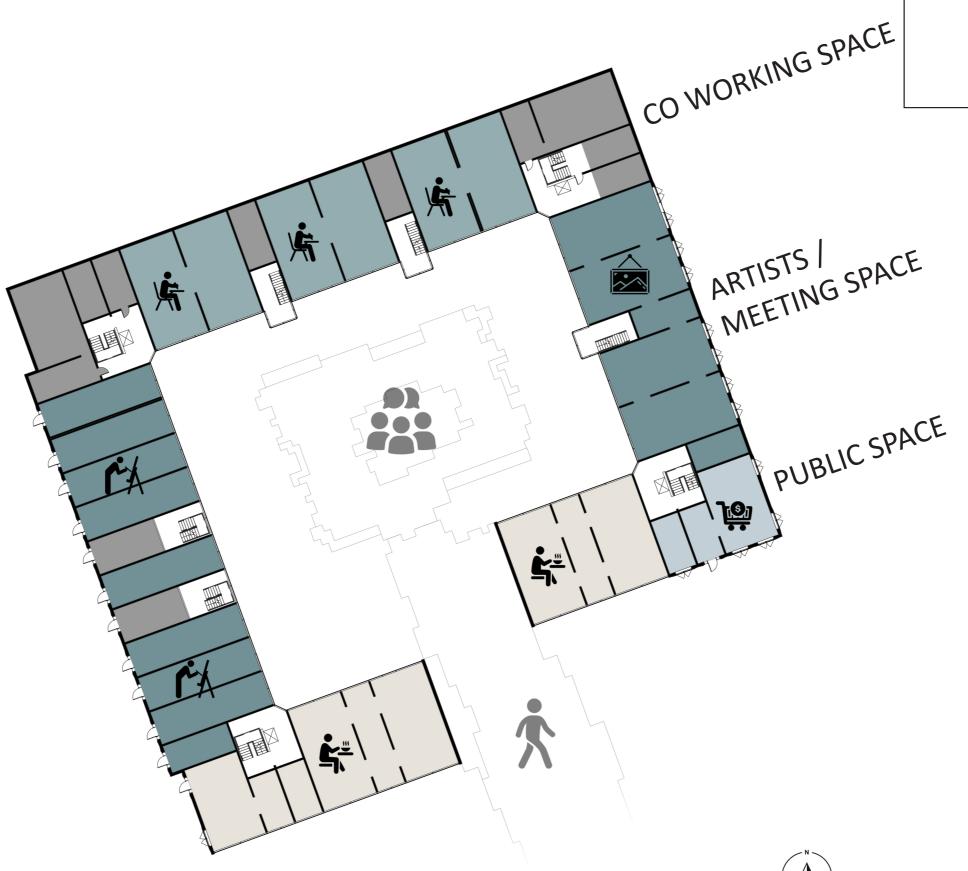




Urban meeting spot

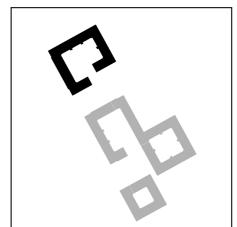


Pedestrian area



# **SECTION**





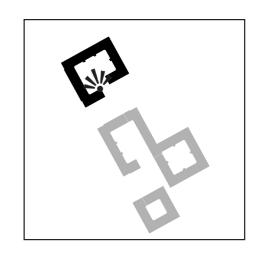








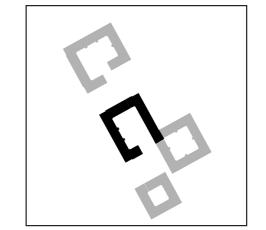
#### PERSPECTIVE





### PLAN GROUND FLOOR







Offices



Restaurant / cafe



Community centre



Relaxing area

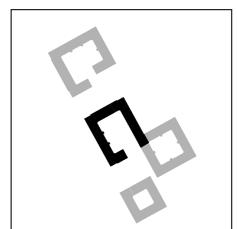


Pedestrian area



# **SECTION**









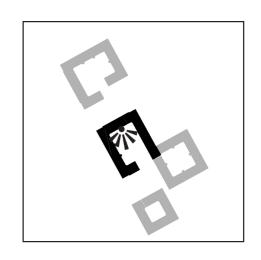






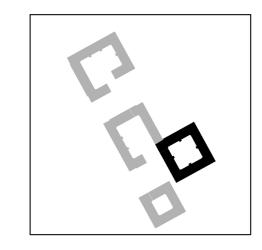


#### **PERSPECTIVE**

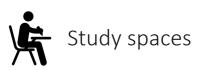




### PLAN GROUND FLOOR











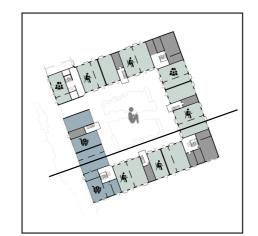
Ouder/kind teams

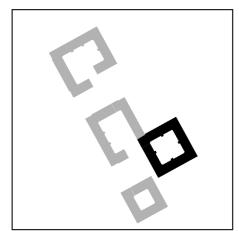


Relaxing area



# **SECTION**







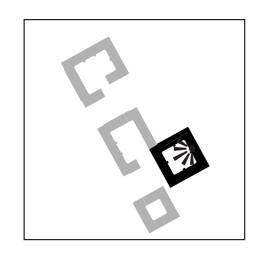






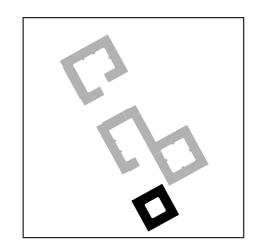


#### PERSPECTIVE





# PLAN GROUND FLOOR





Study spaces





Urban meeting spot

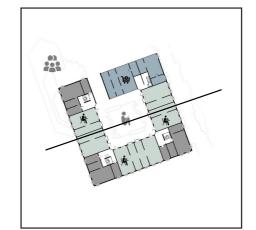


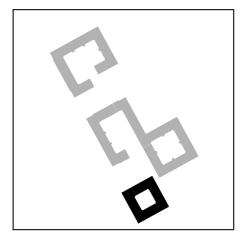
Relaxing area





# SECTION







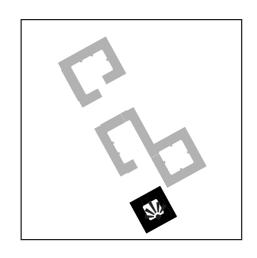






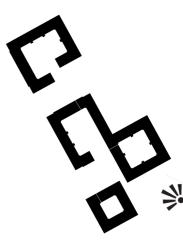


#### PERSPECTIVE



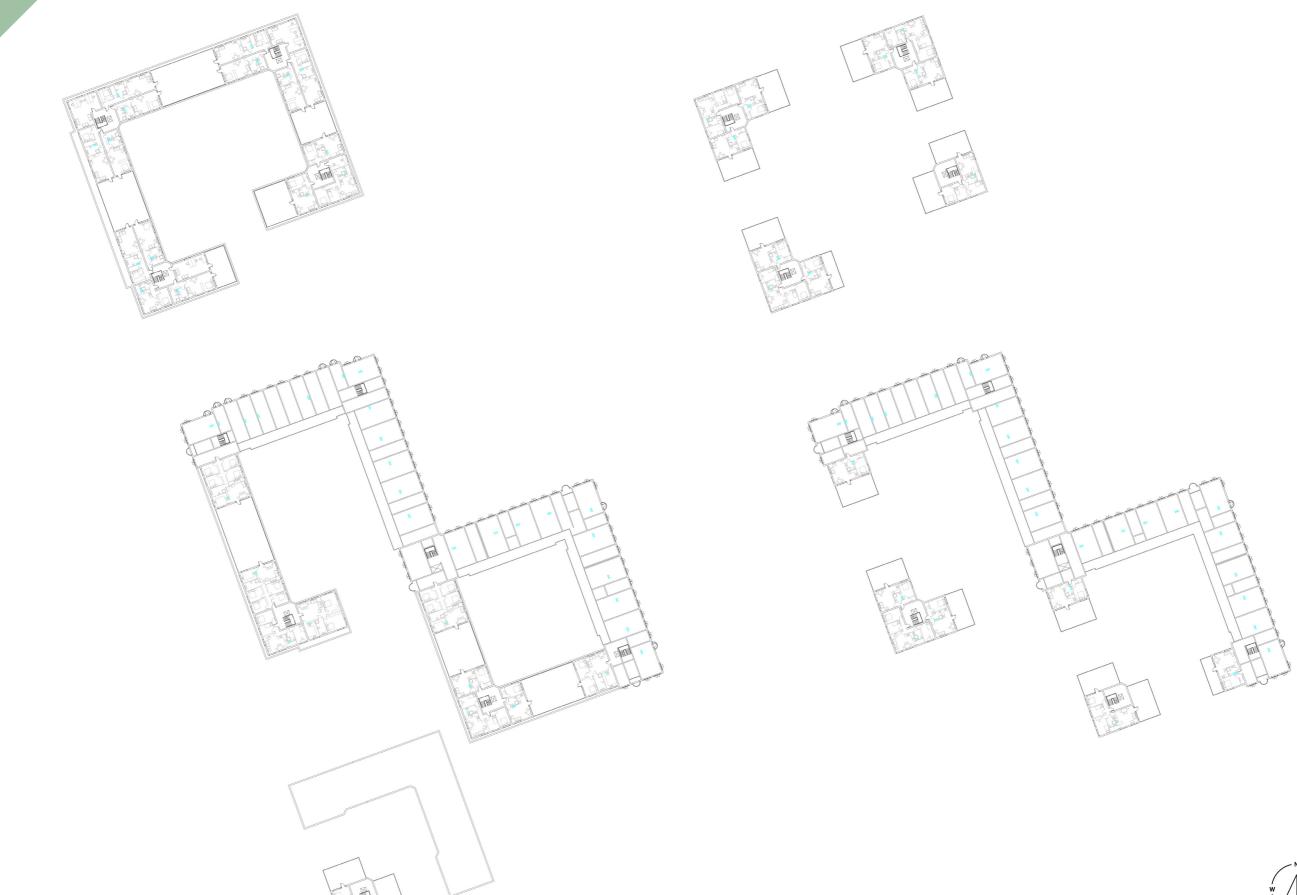


### PLAYGROUND





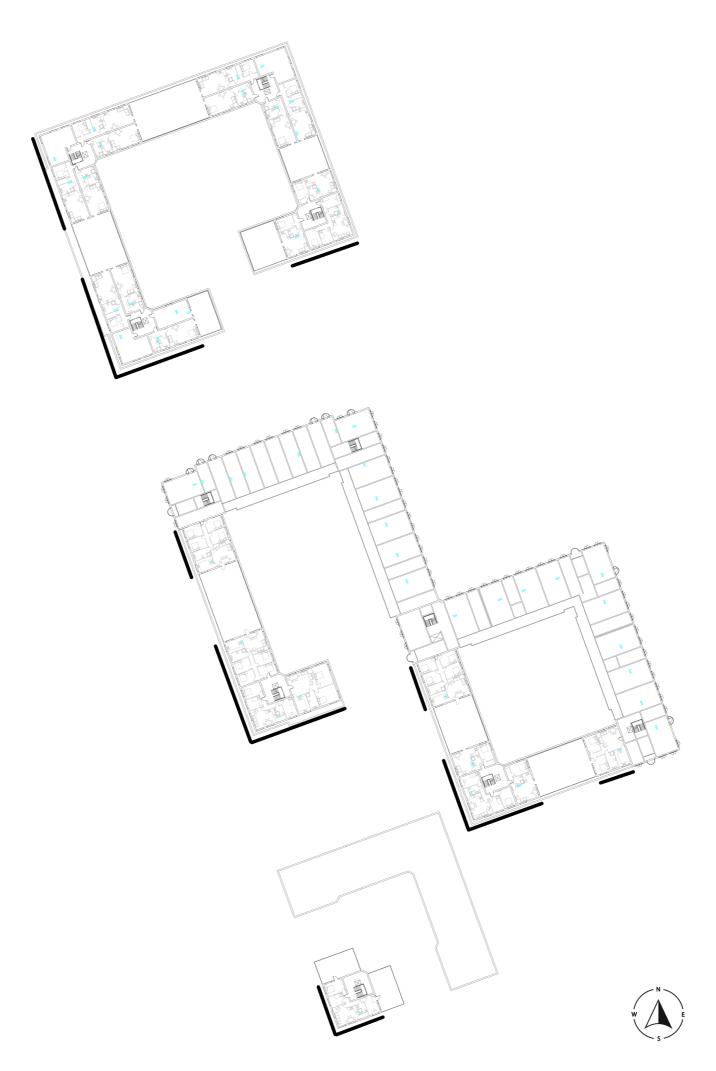
# LEVEL 4 AND 5



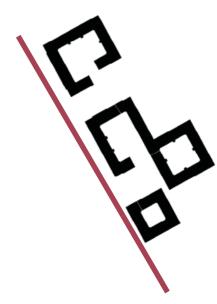
# **FACADES**



ENERGYFAÇADE by saint-gobain-solutions

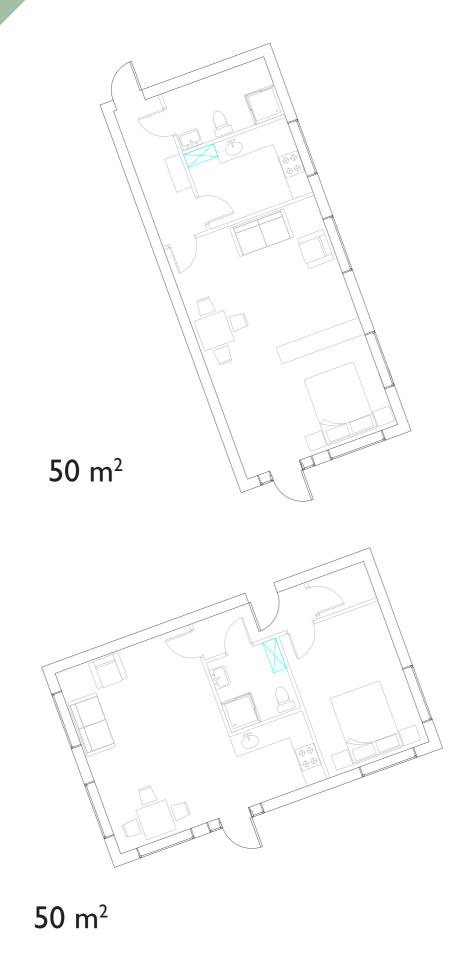


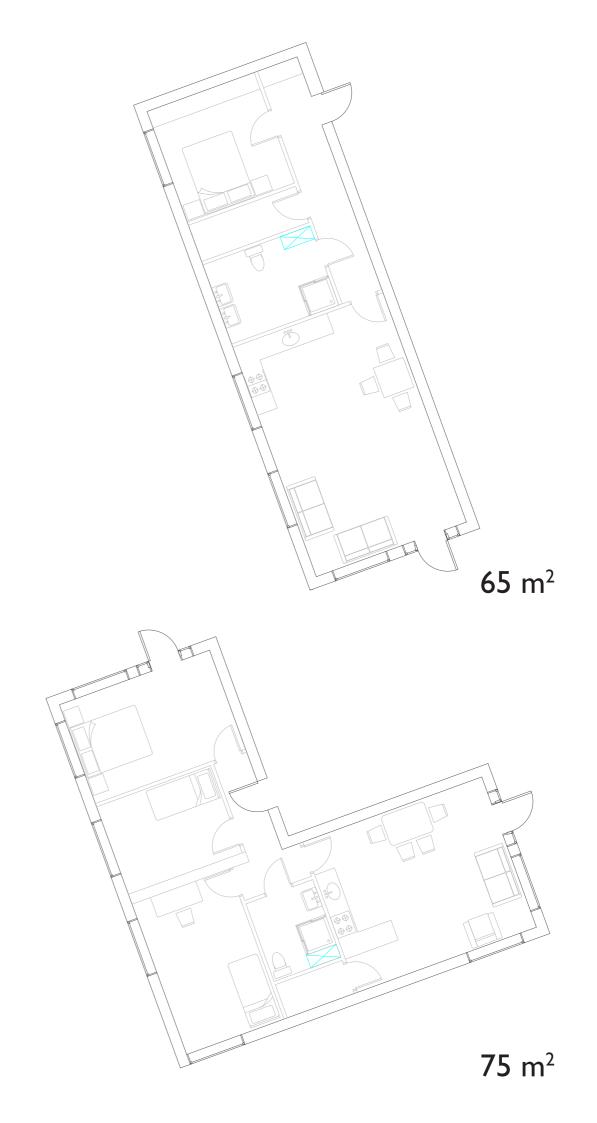
**FACADES** 



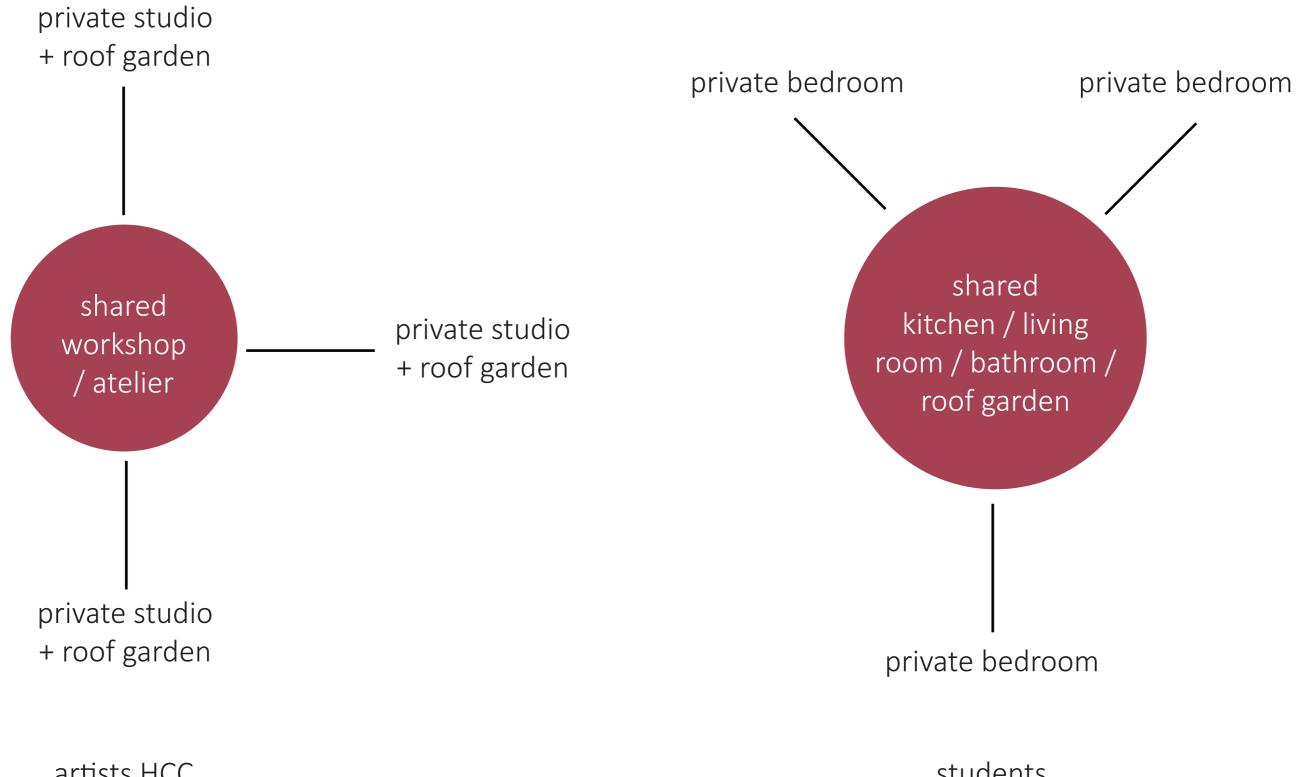


### **APARTMENTS**





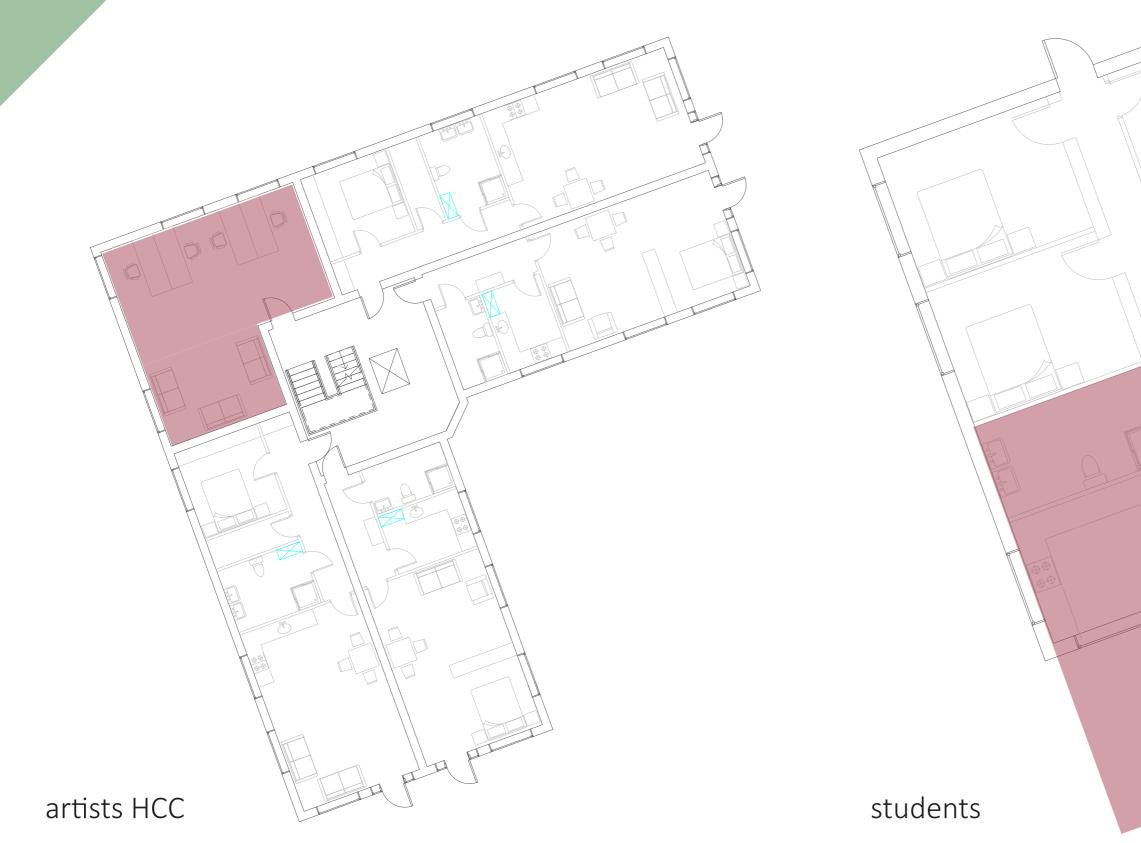
#### **APARTMENTS**

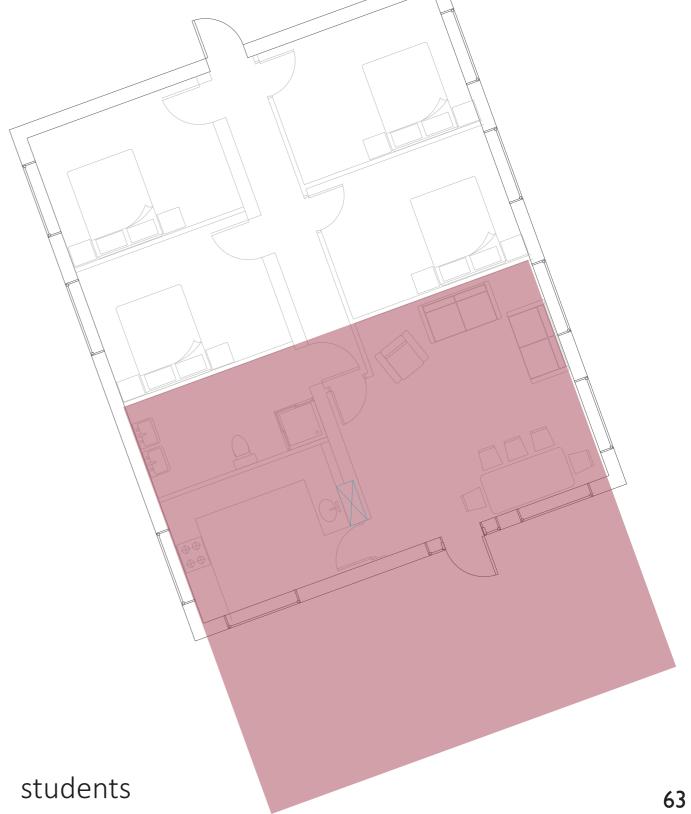


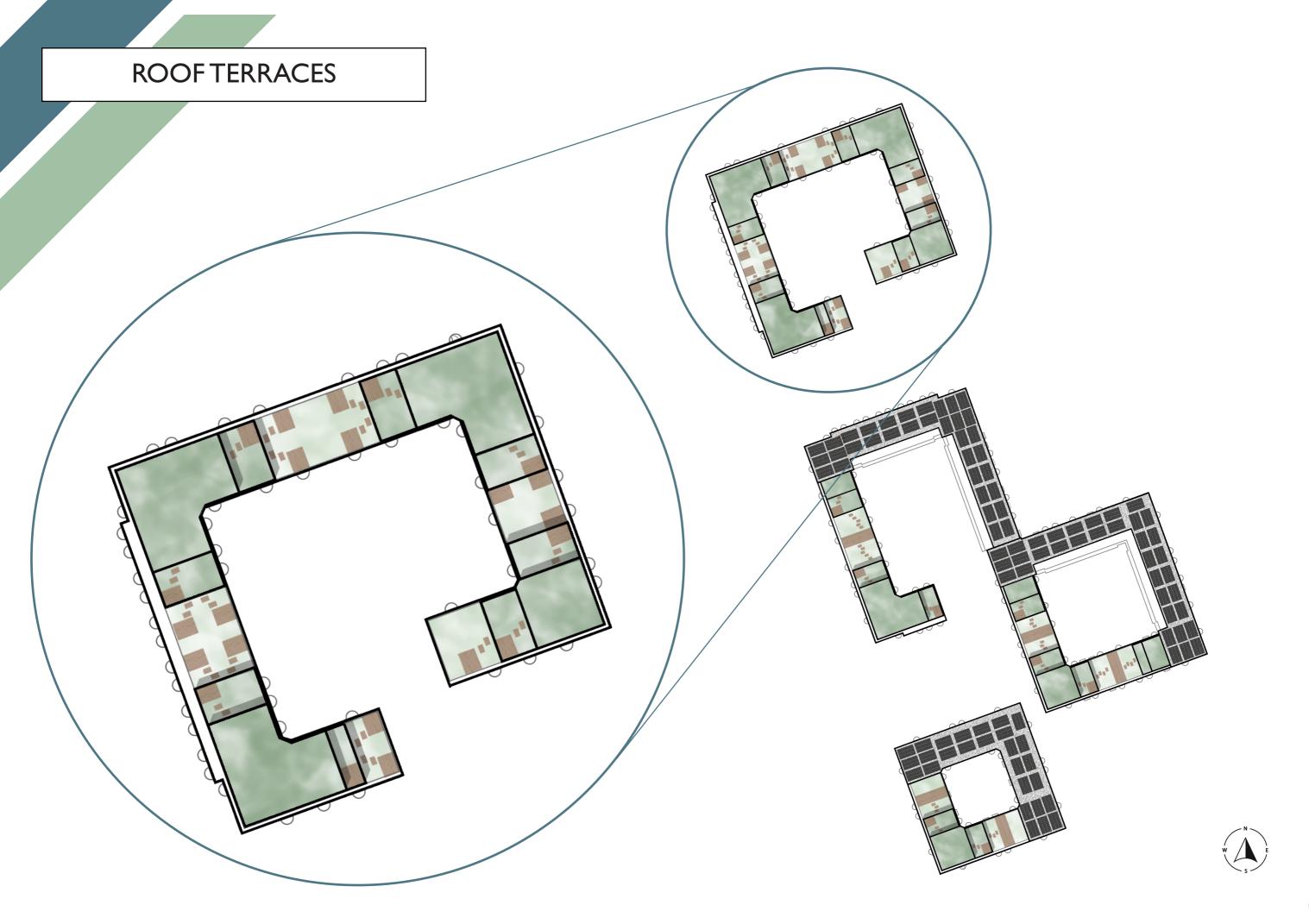
artists HCC students 62

### **APARTMENTS**

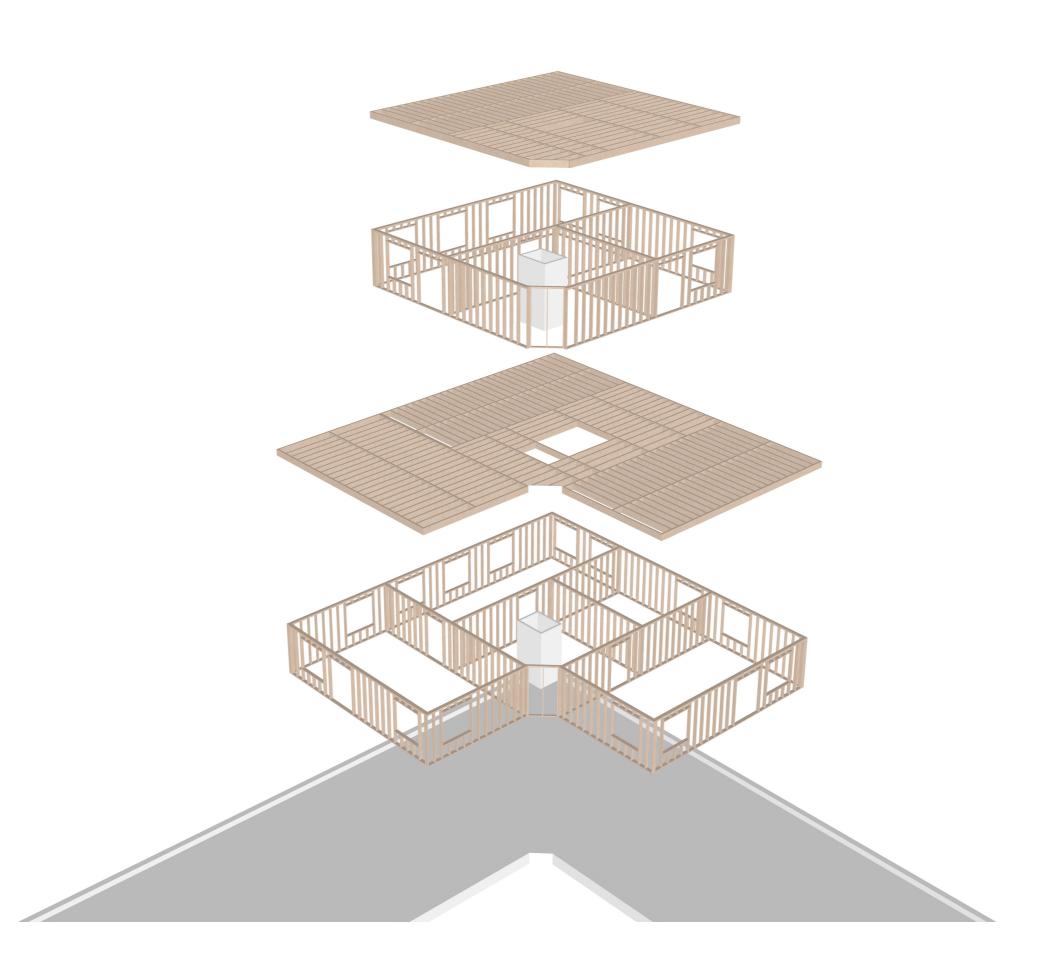






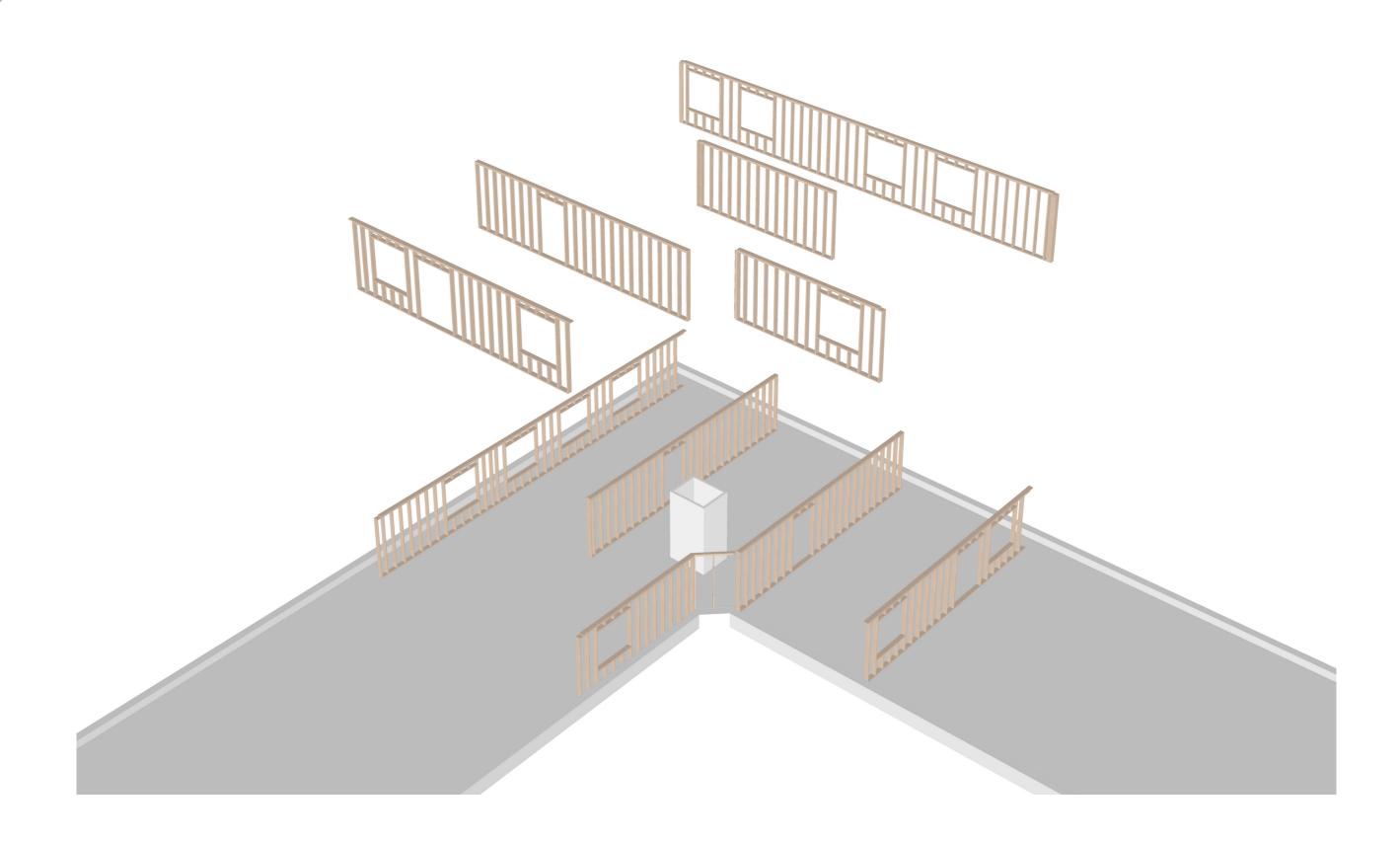


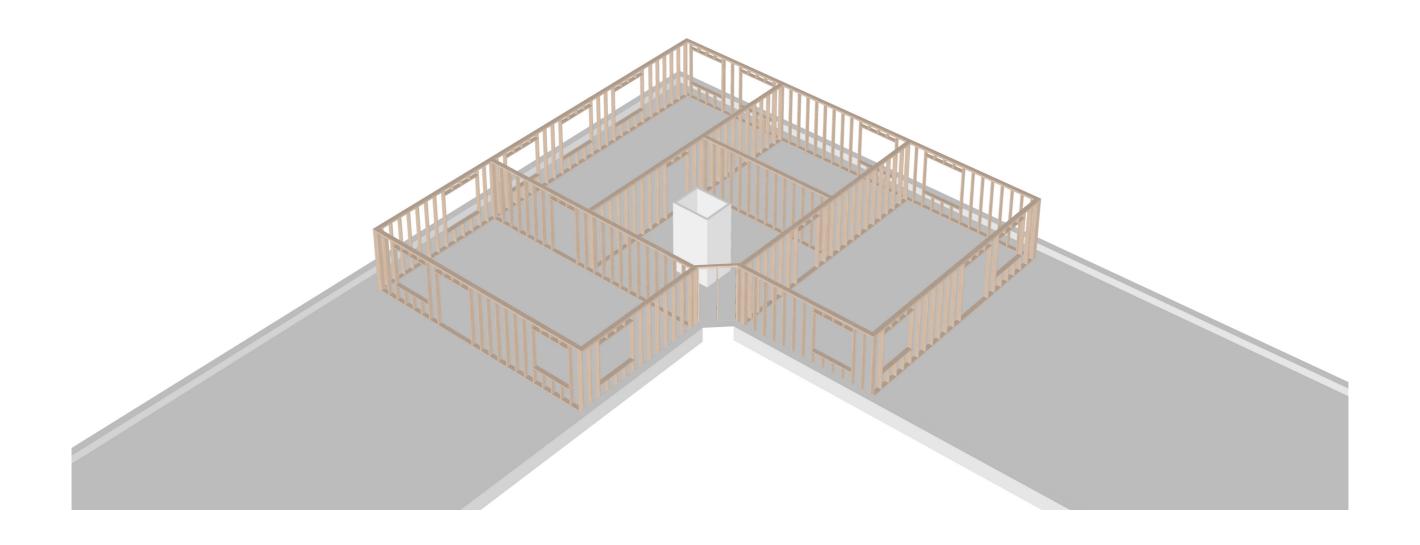
### 3D CONSTRUCTION

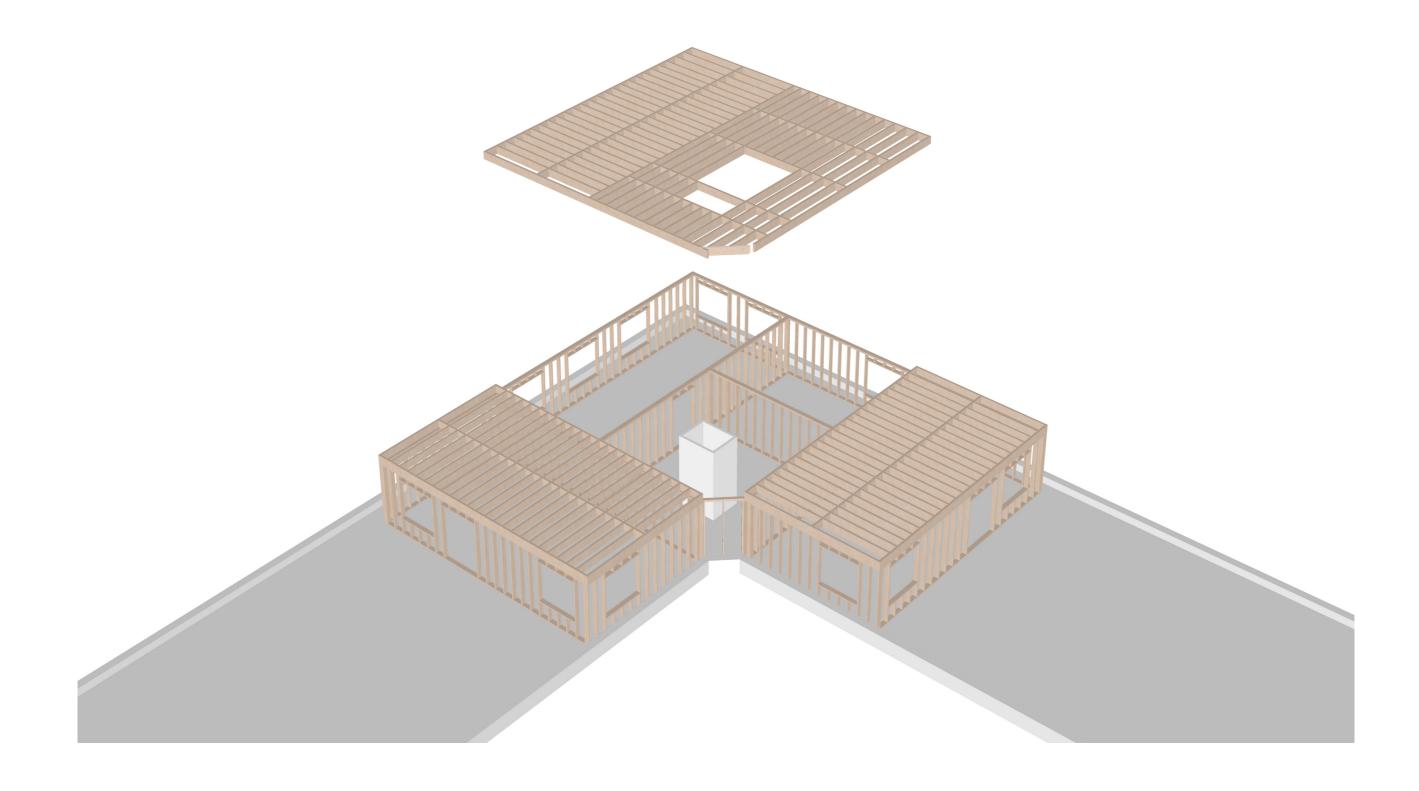


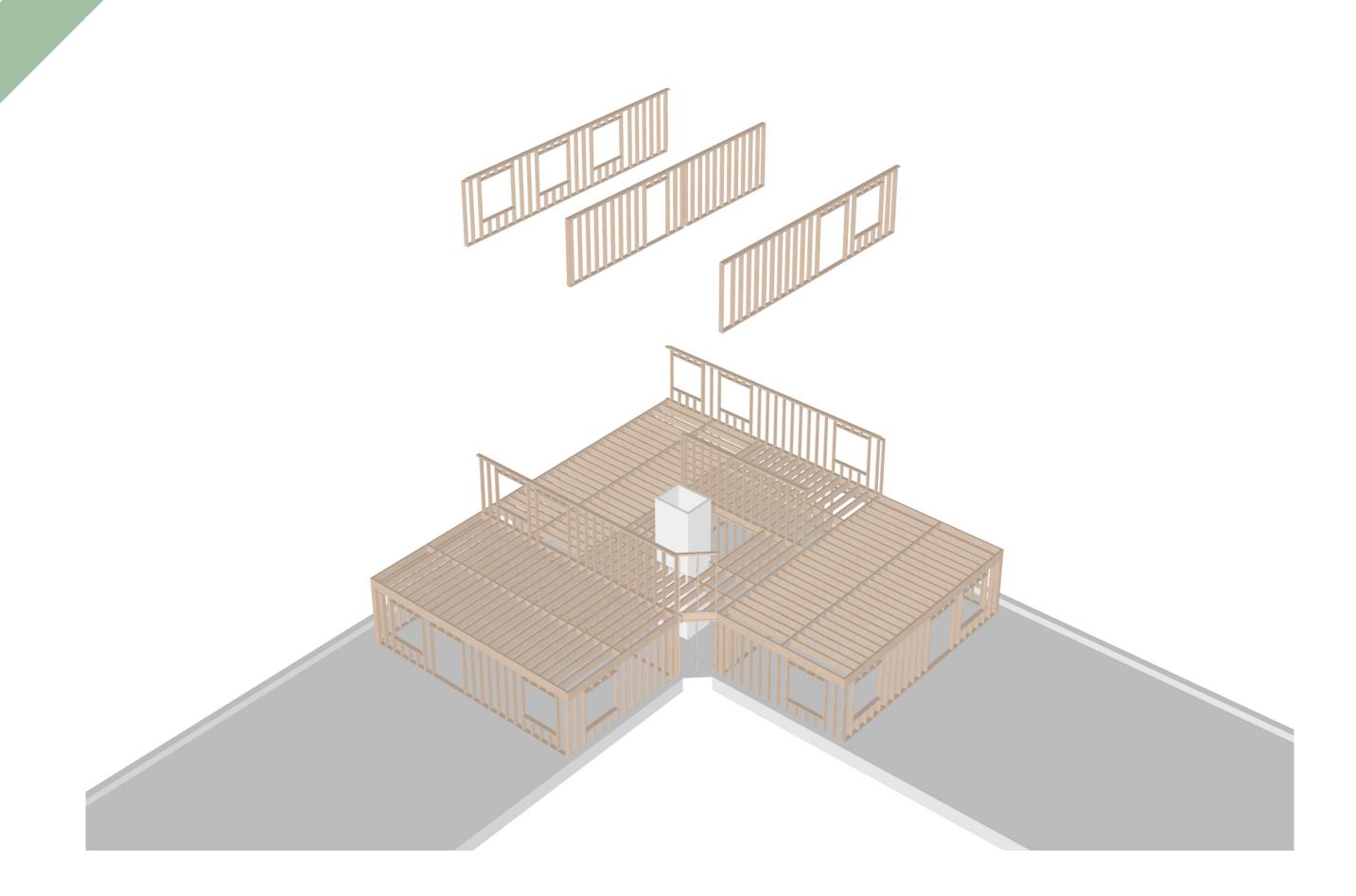


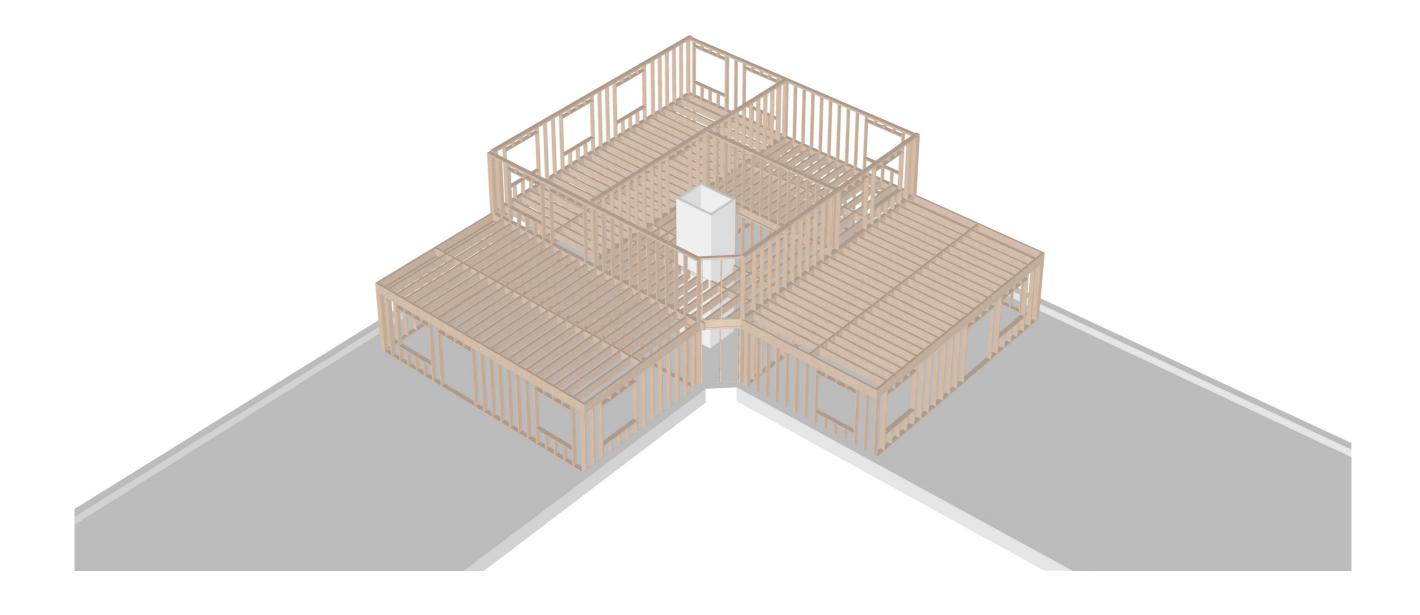
De Kroon prefab

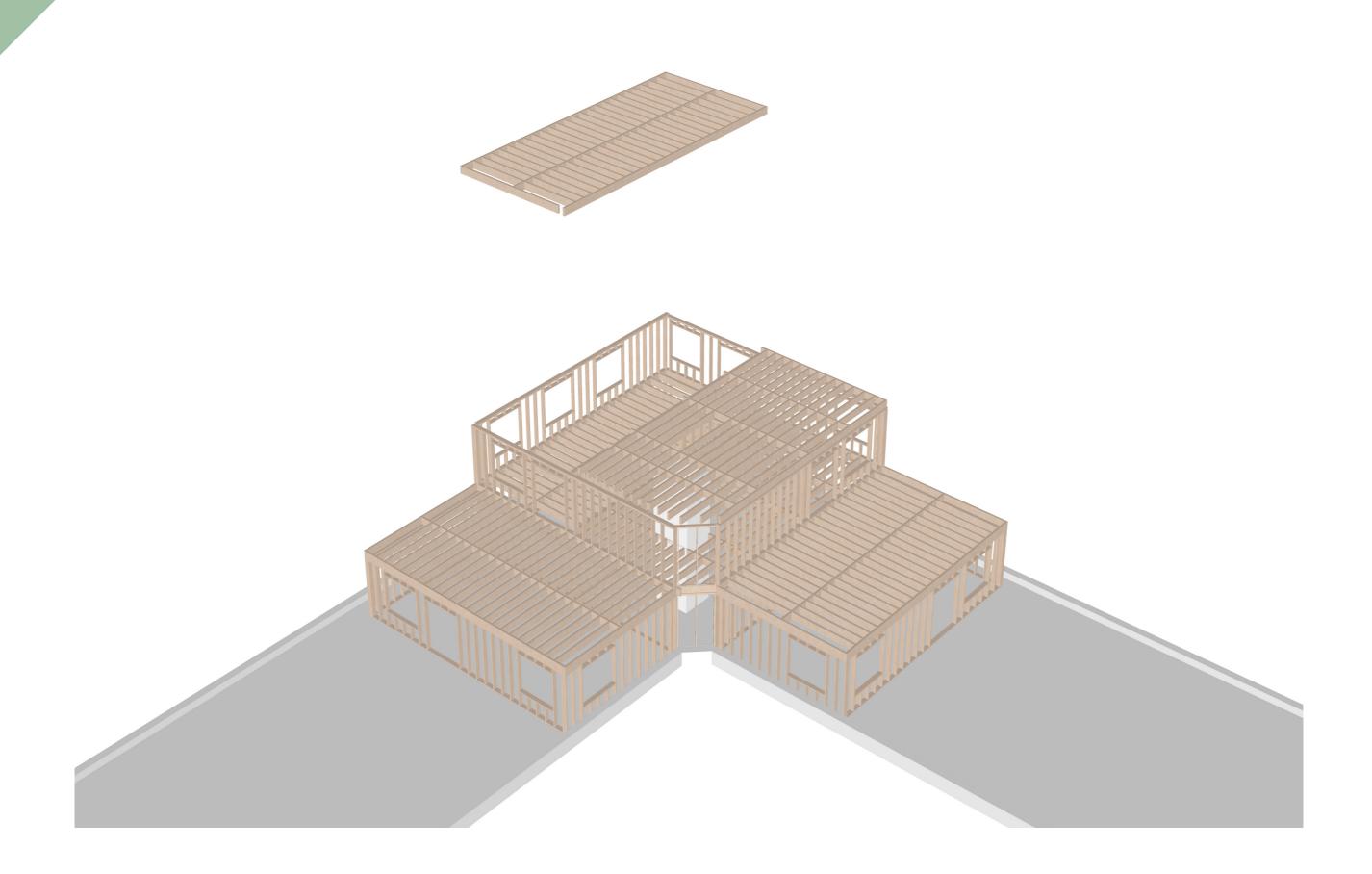




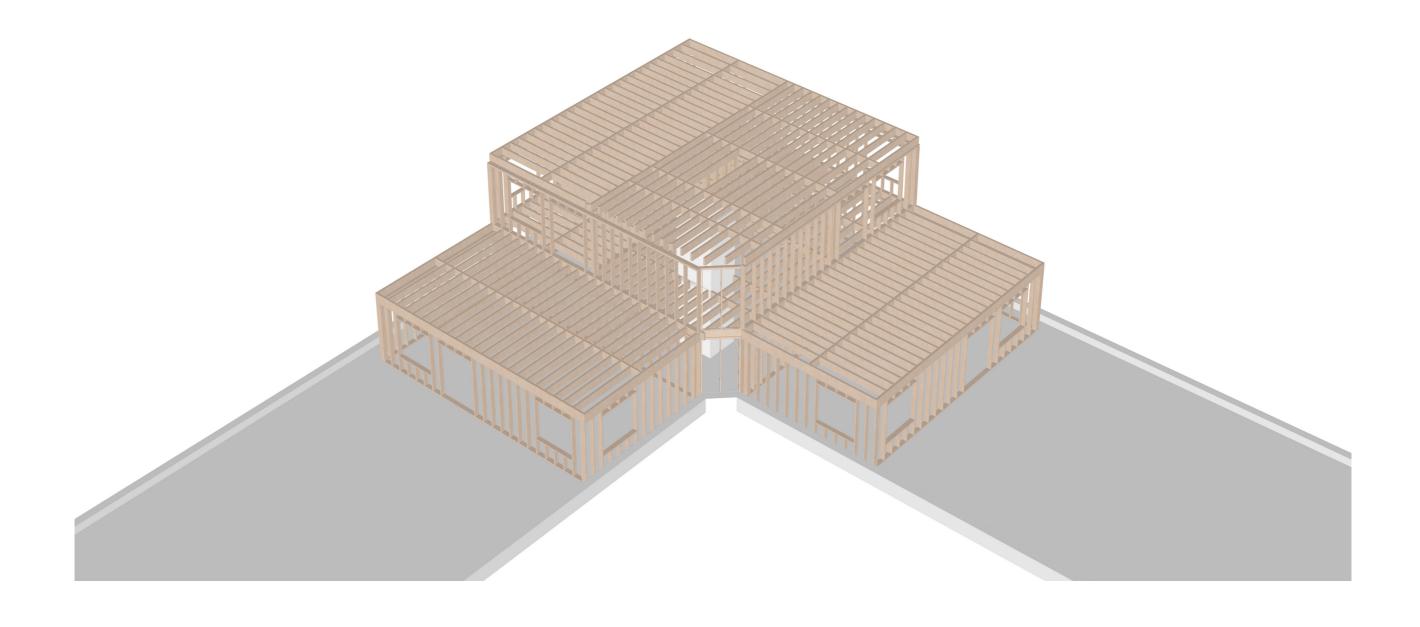




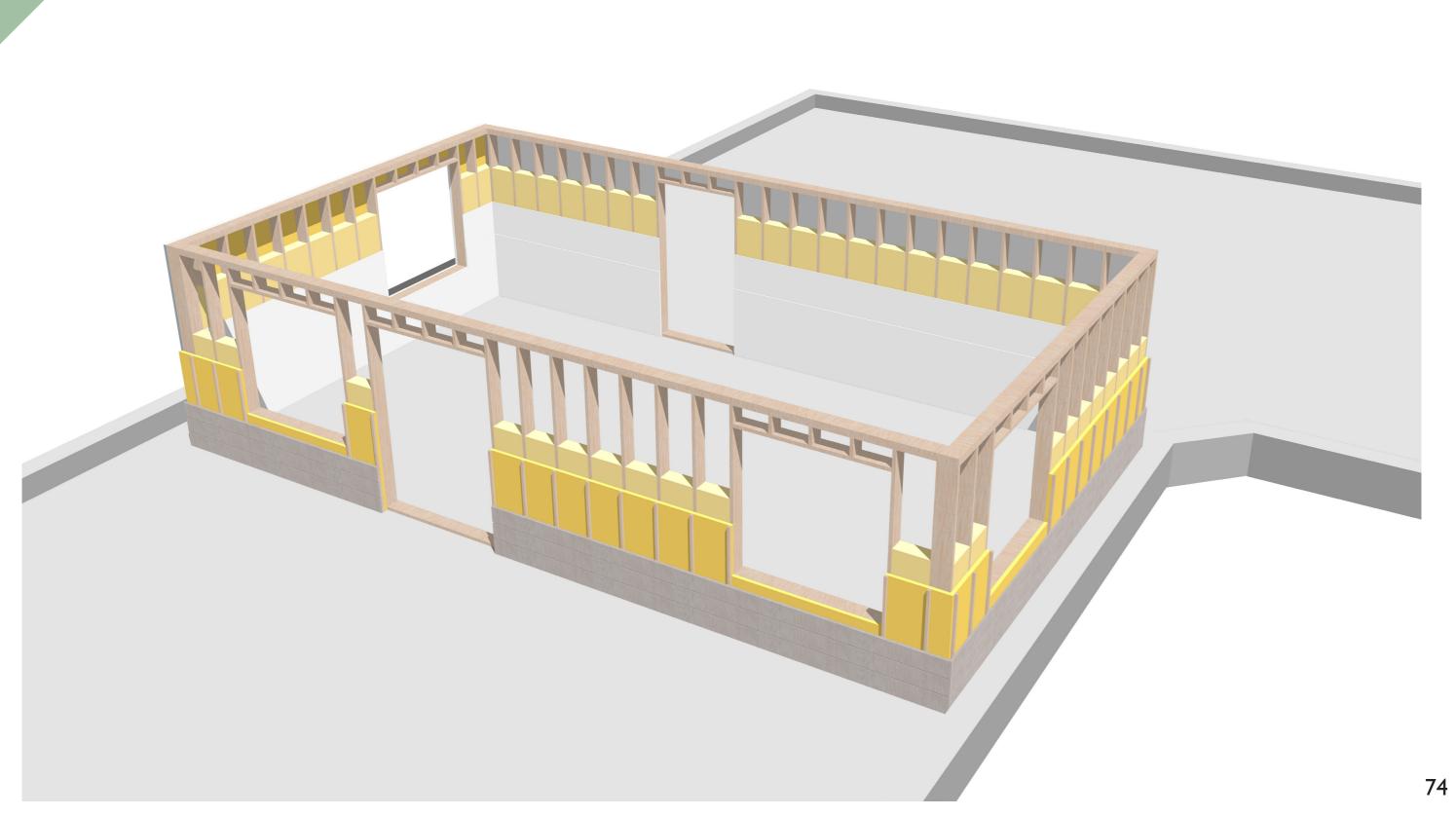




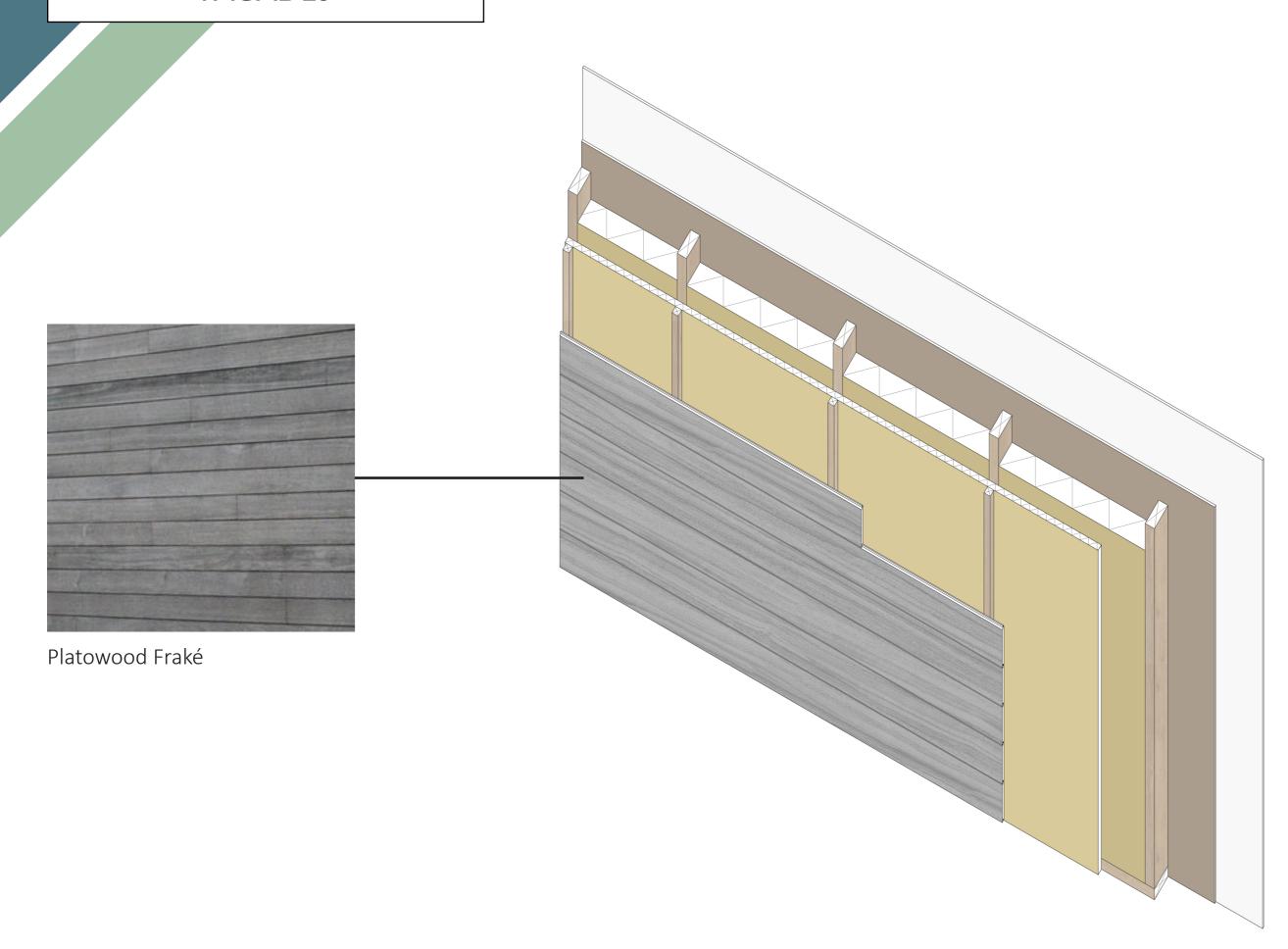
### CONSTRUCTION PROCESS



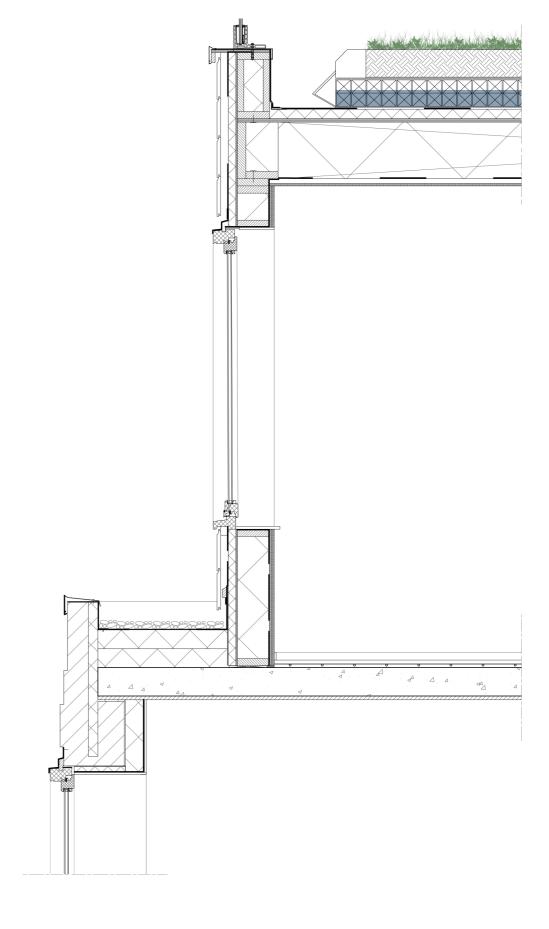
### 3D CONSTRUCTION



### **FACADES**

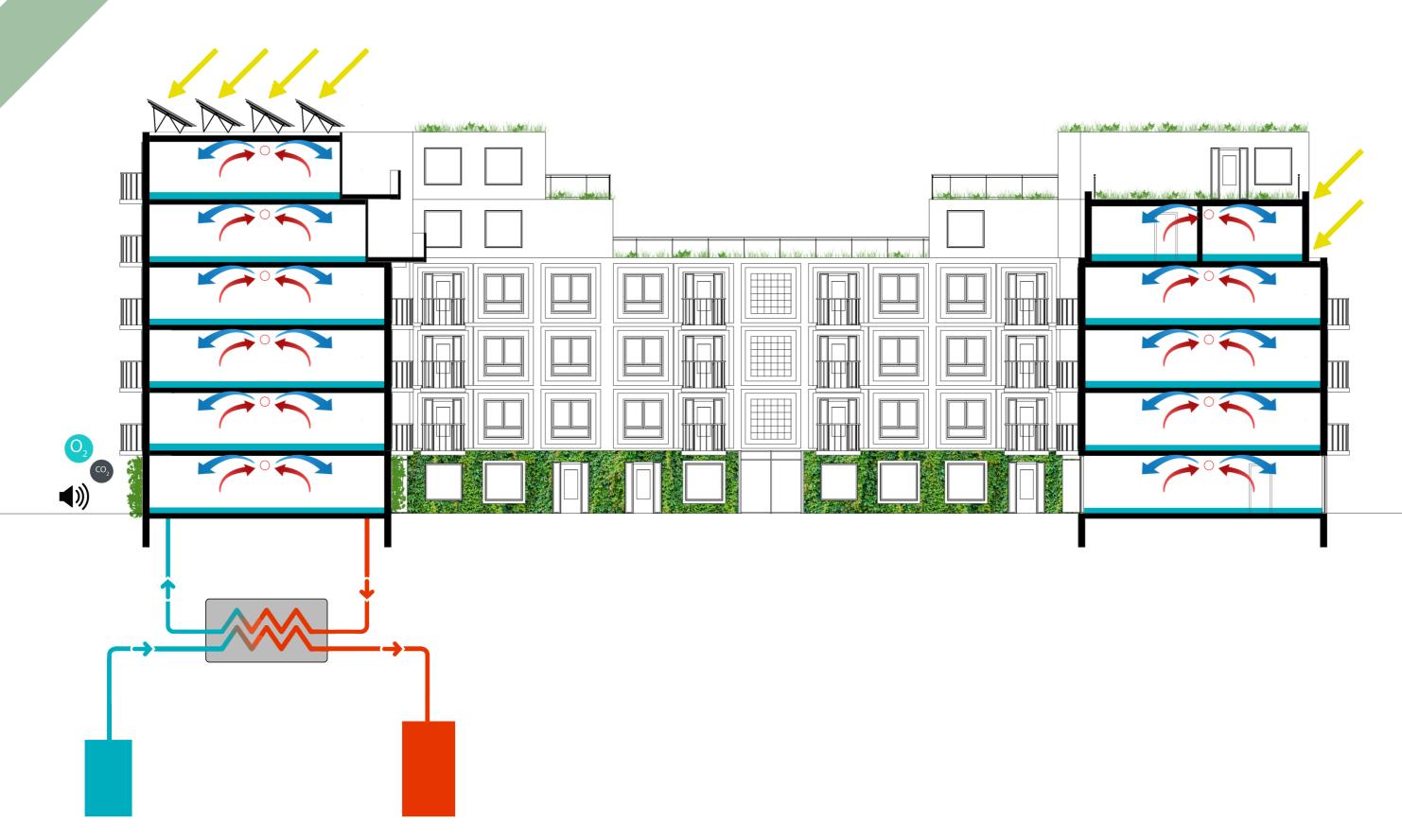






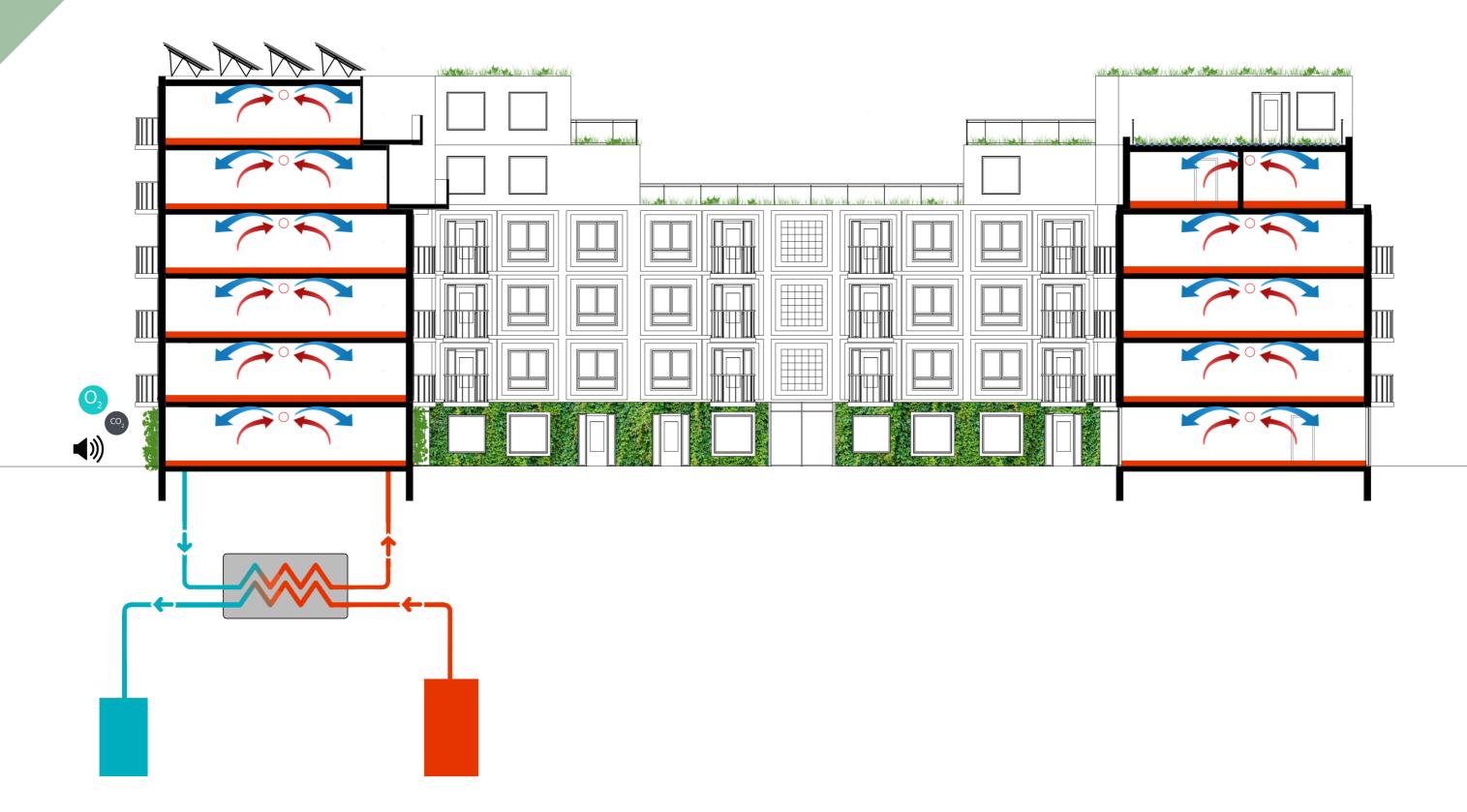
### CLIMATE CONCEPT





### CLIMATE CONCEPT



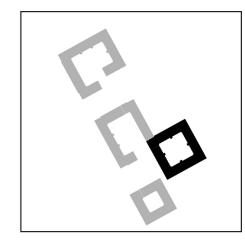


**DESIGN** 

-

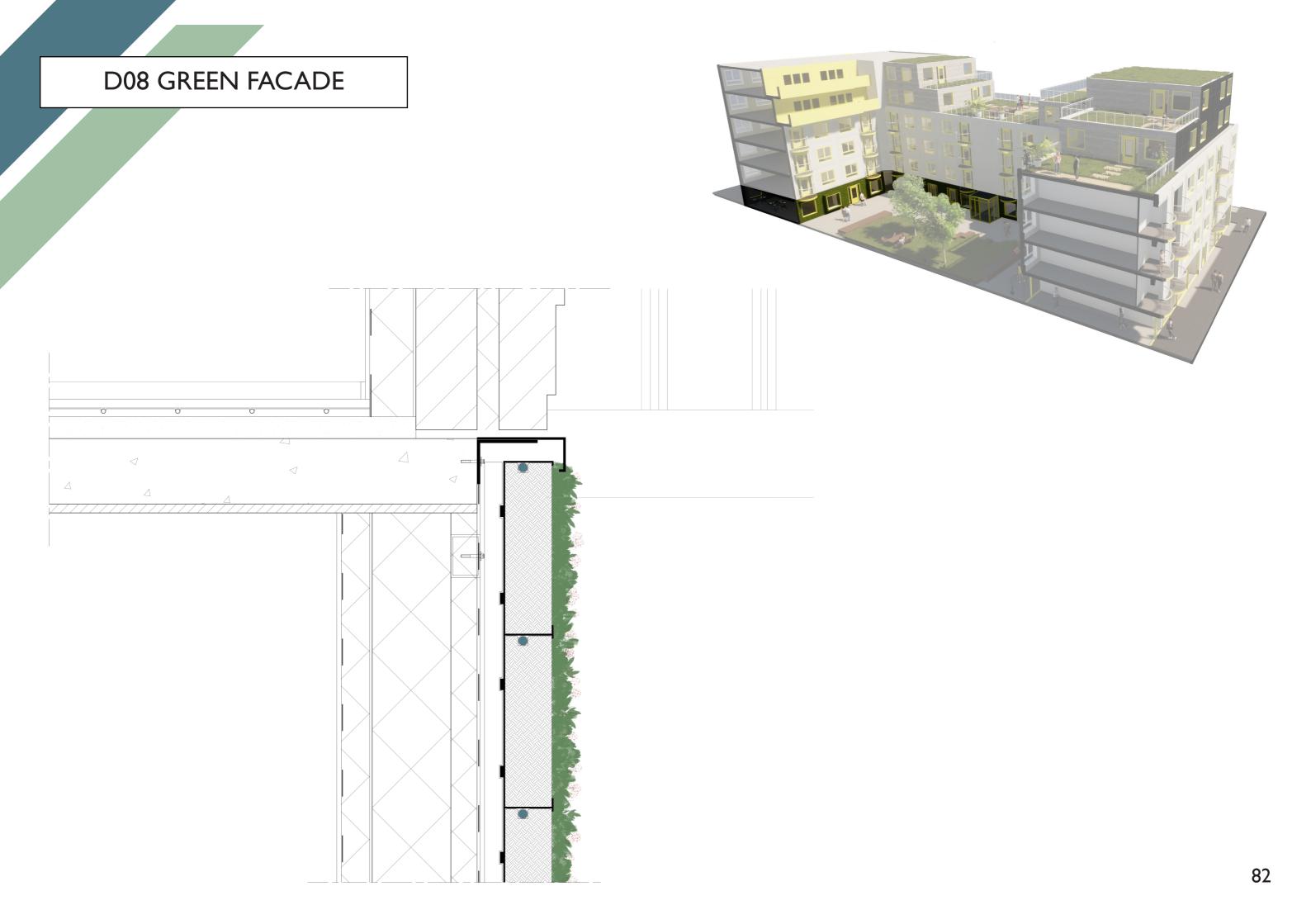
**DETAIL SCALE** 

### STUDY BLOCK





## STUDY SPACES 81



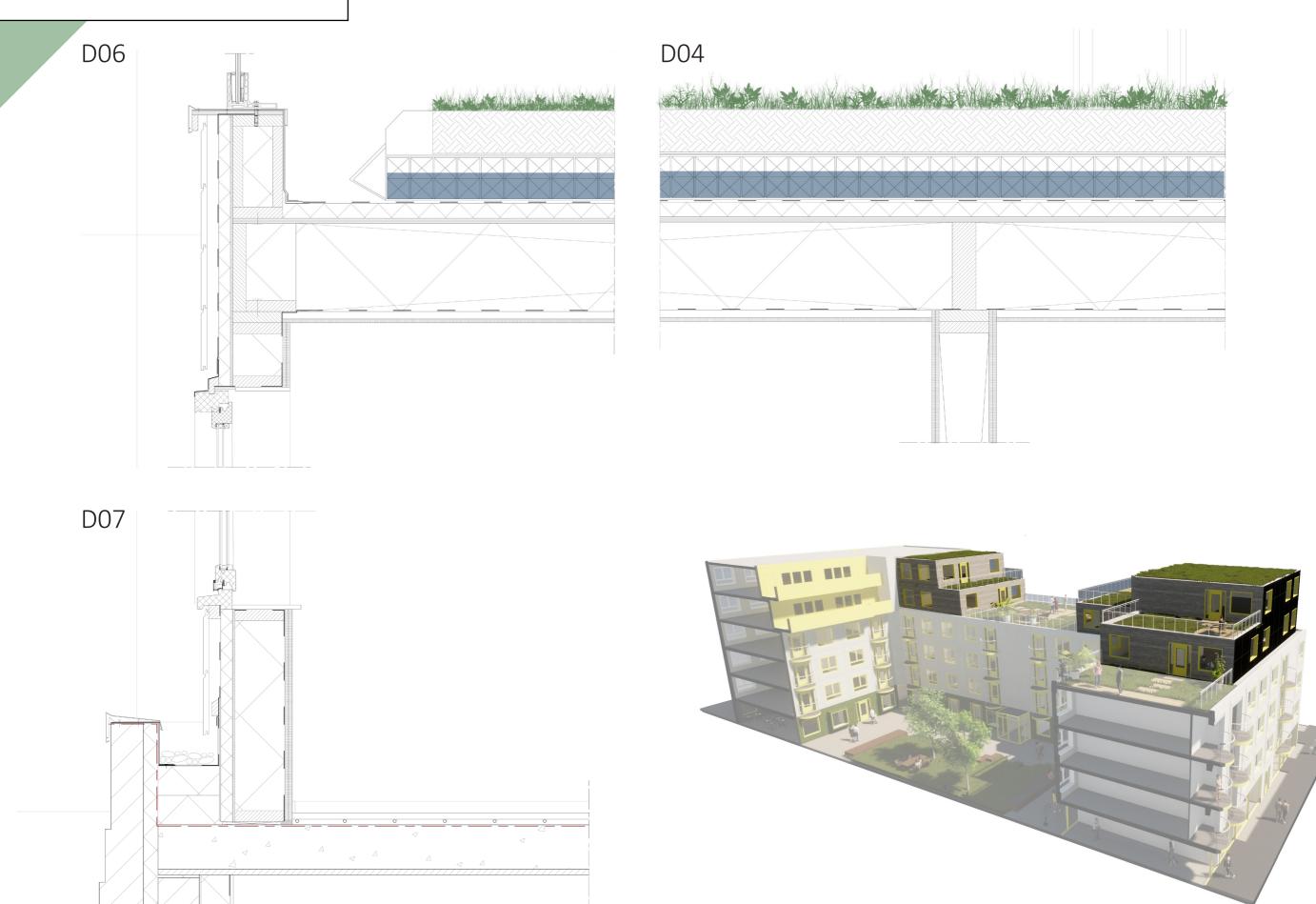


## D03 CURTAIN WALL 84





### NEW DWELLING



### CONCLUSION

**SOCIAL** 

SUSTAINABILITY

ECONOMIC ENVIRONMENTAL

### CONCLUSION

**SOCIAL** 

SWON CHANNER OF CONTRACT OF CO

MERRSTRUCTURE

**ECONOMIC** 

FUTURE PROOF BUILDING **ENVIRONMENTAL** 

# CONCLUSION

### **REFLECTION**



The municipality takes care of the urban greenery and the residents will be stimulated to participate in keeping a clean public space

Urban greenery needs a lot more maintenance, in the past this was also an issue among the residents

Potential hang out spot for young people, people might feel not safe

Put enough street lighting there

Public space may not be used as intended, people may not like or use the greenery

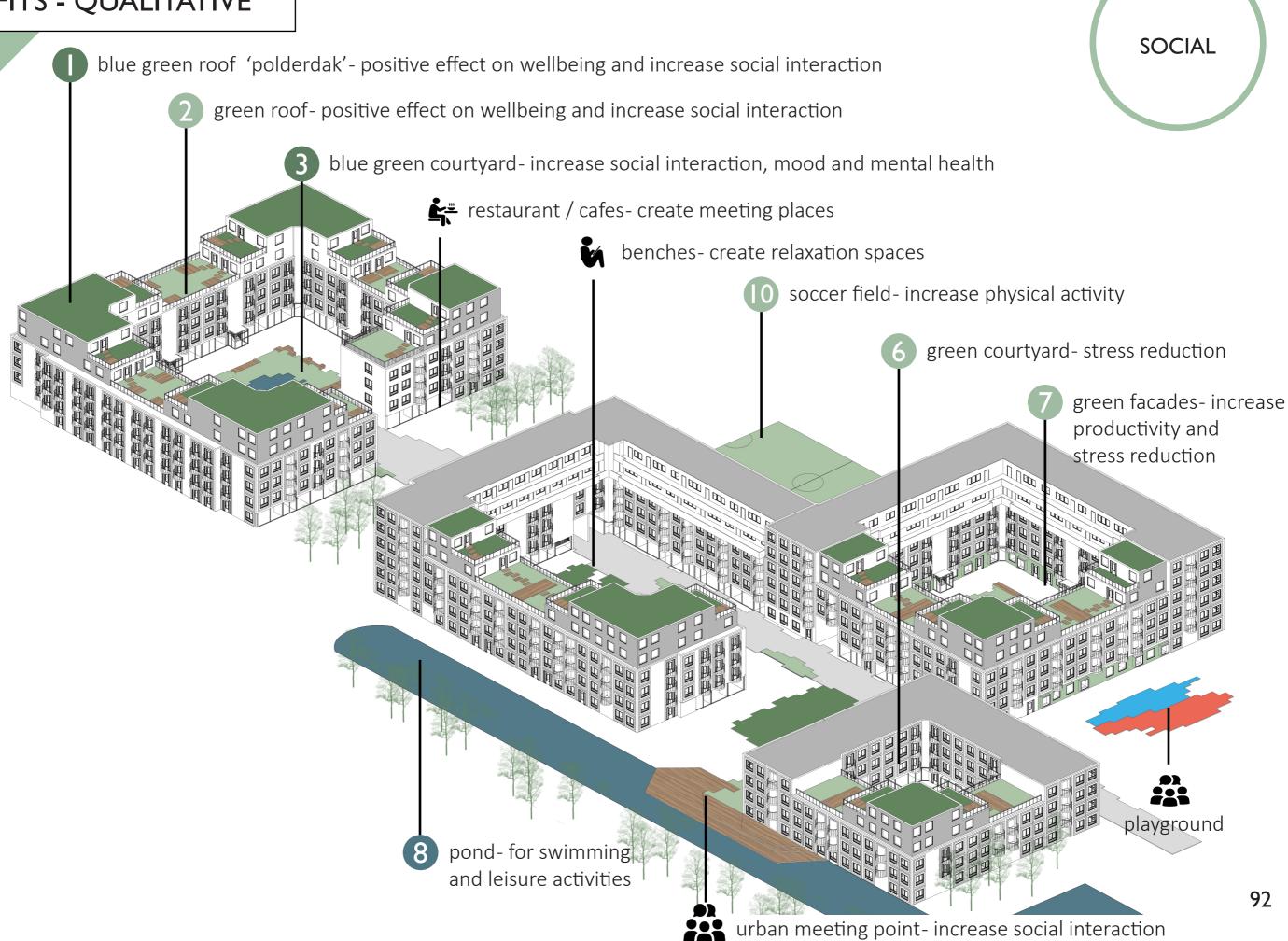


Residents should be involved before the construction and building process

Vacancy of shops and offices

Unique shops are located on this location and the offices are flexible, so room for change

### **BENEFITS - QUALITATIVE**



### STRATEGY











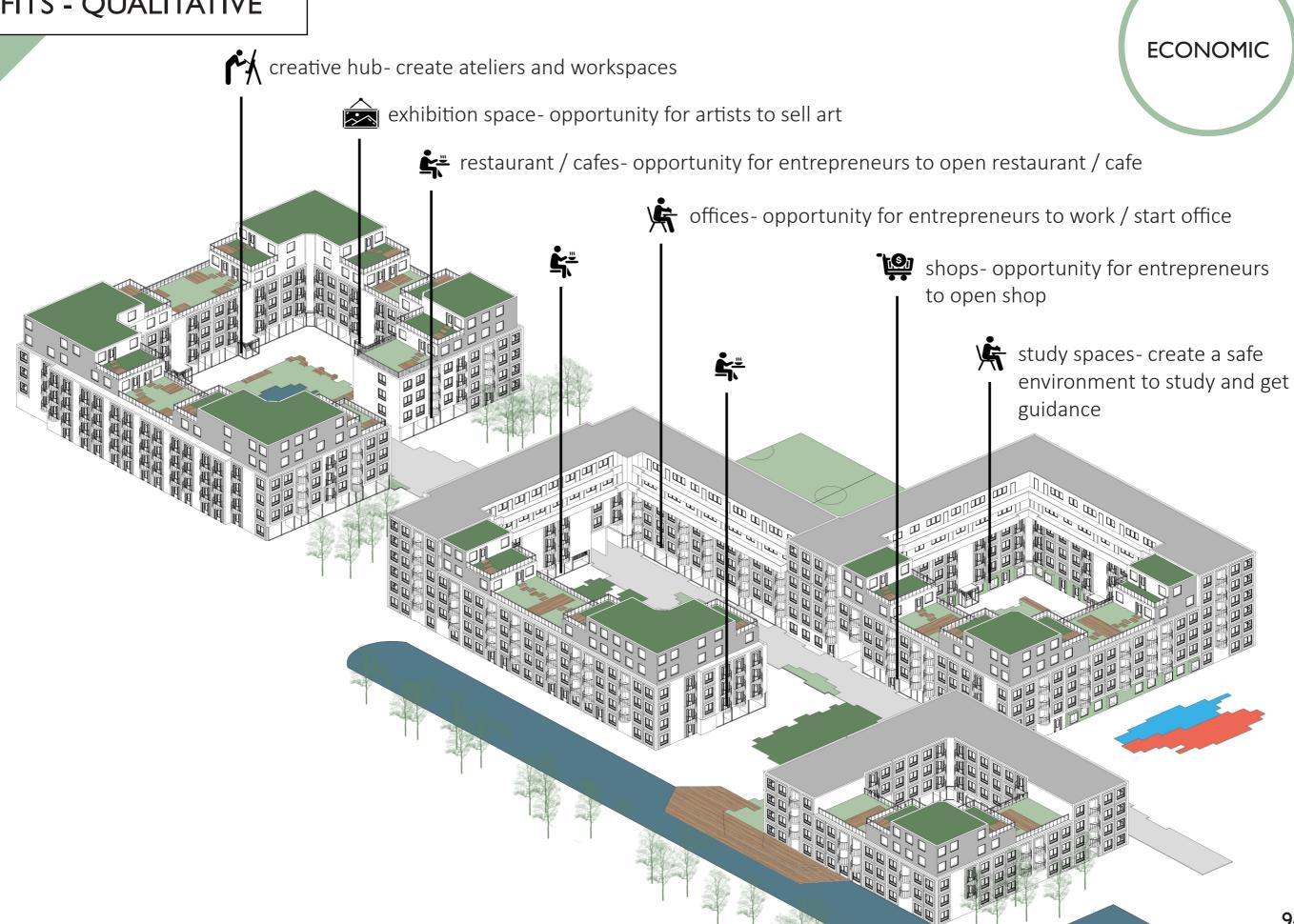
entrepreneurs

artists HCC

students

visitors

### **BENEFITS - QUALITATIVE**



### **BENEFITS - QUANTITATIVE**





1480 m<sup>2</sup>



1190 m<sup>2</sup>



680 m<sup>2</sup>



670 m<sup>2</sup>

restaurants
/ cafes

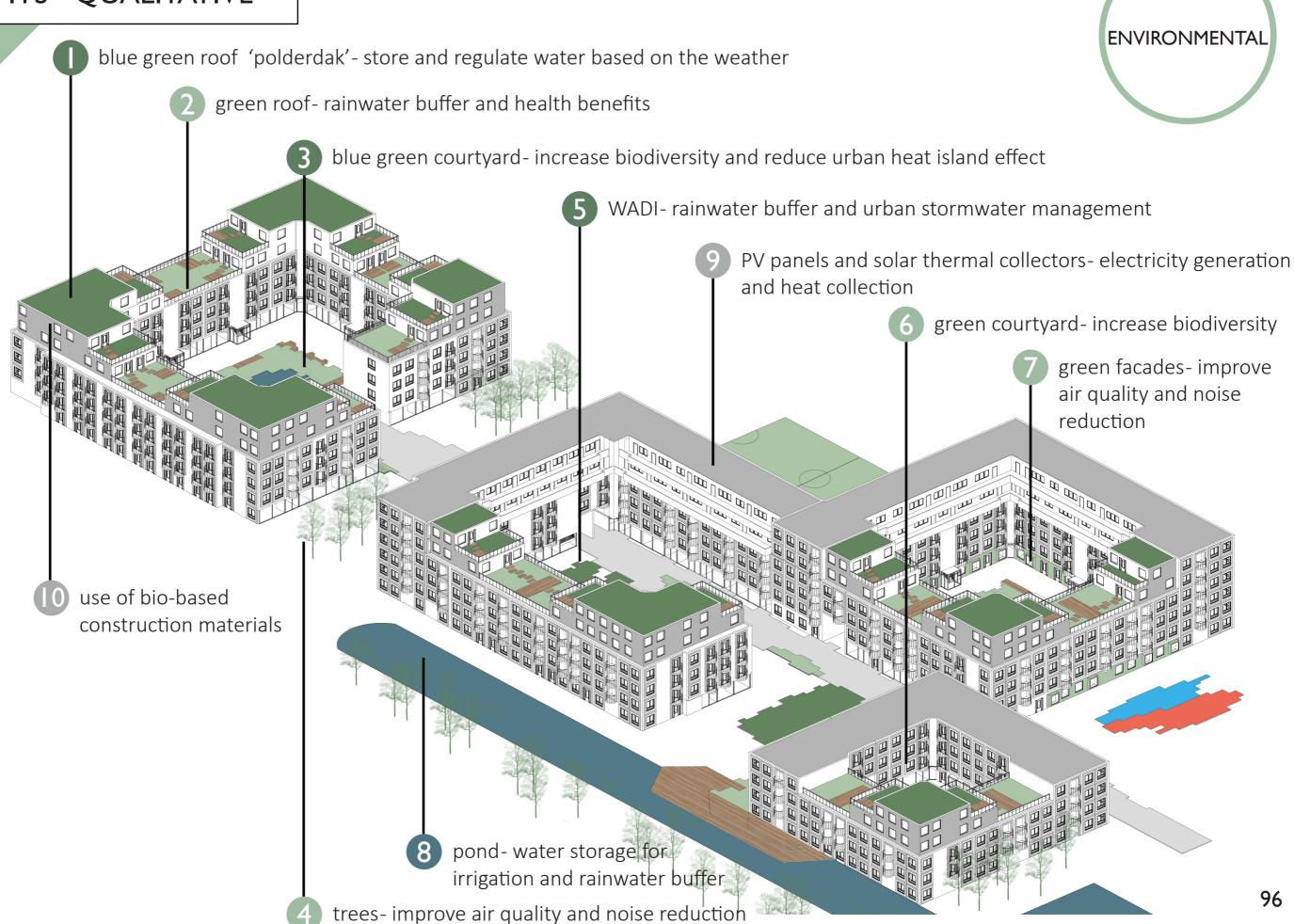


Too little offices and a lot of study spaces



Create flexible coworking spaces

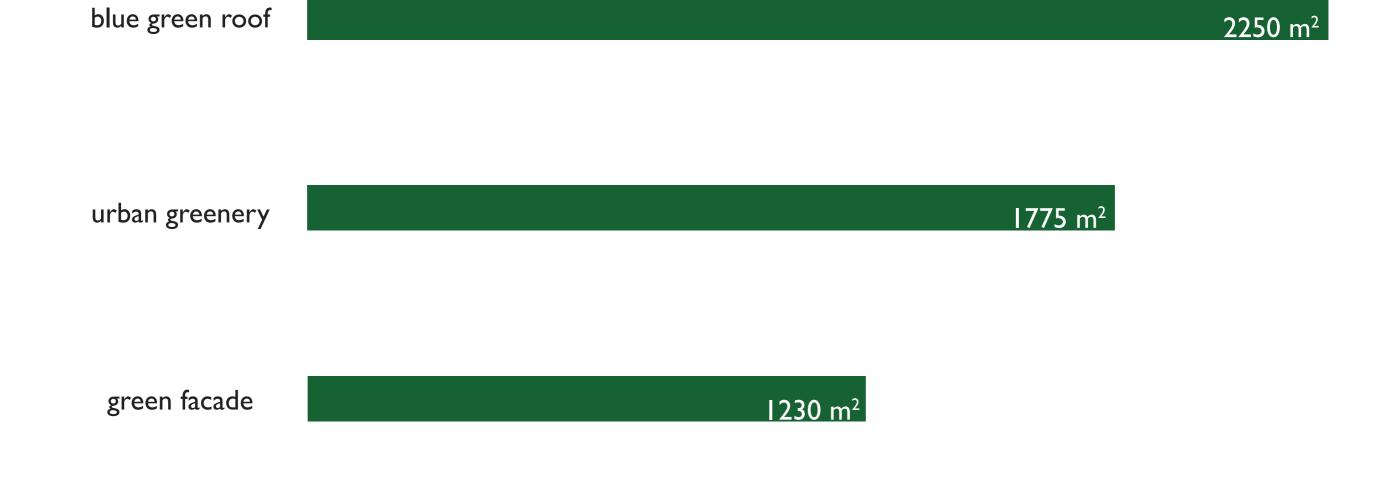
### **BENEFITS - QUALITATIVE**



### BENEFITS - QUANTITATIVE

green roof

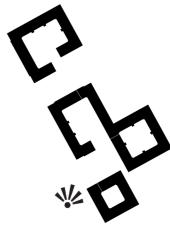




1180 m<sup>2</sup>

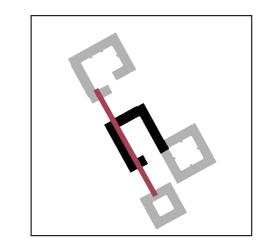


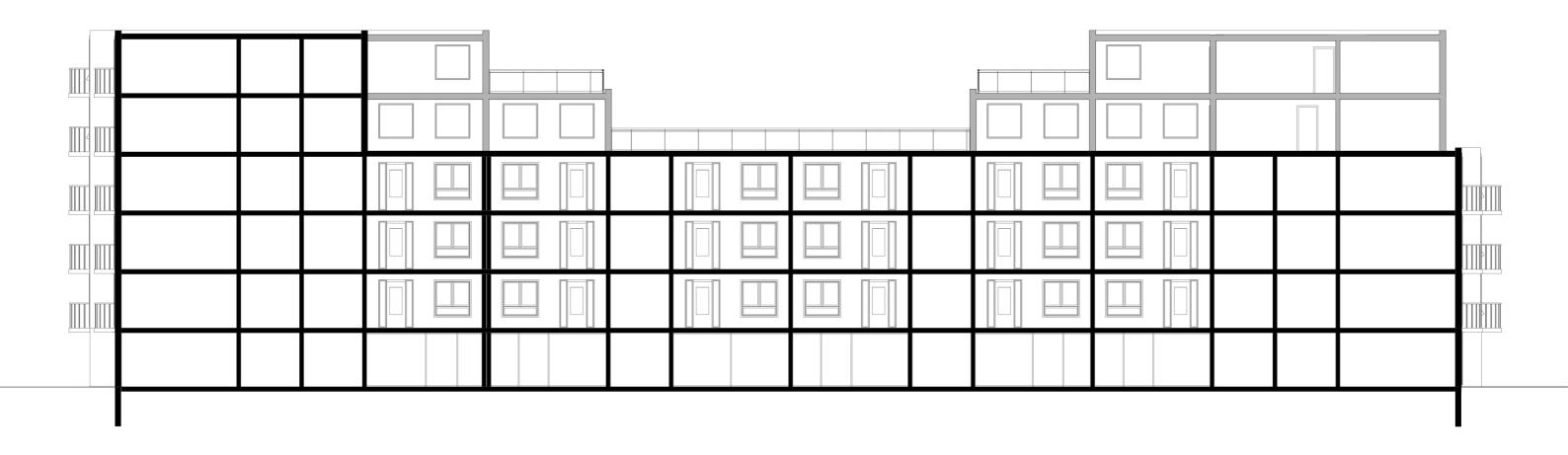
### URBAN MEETING SPOT



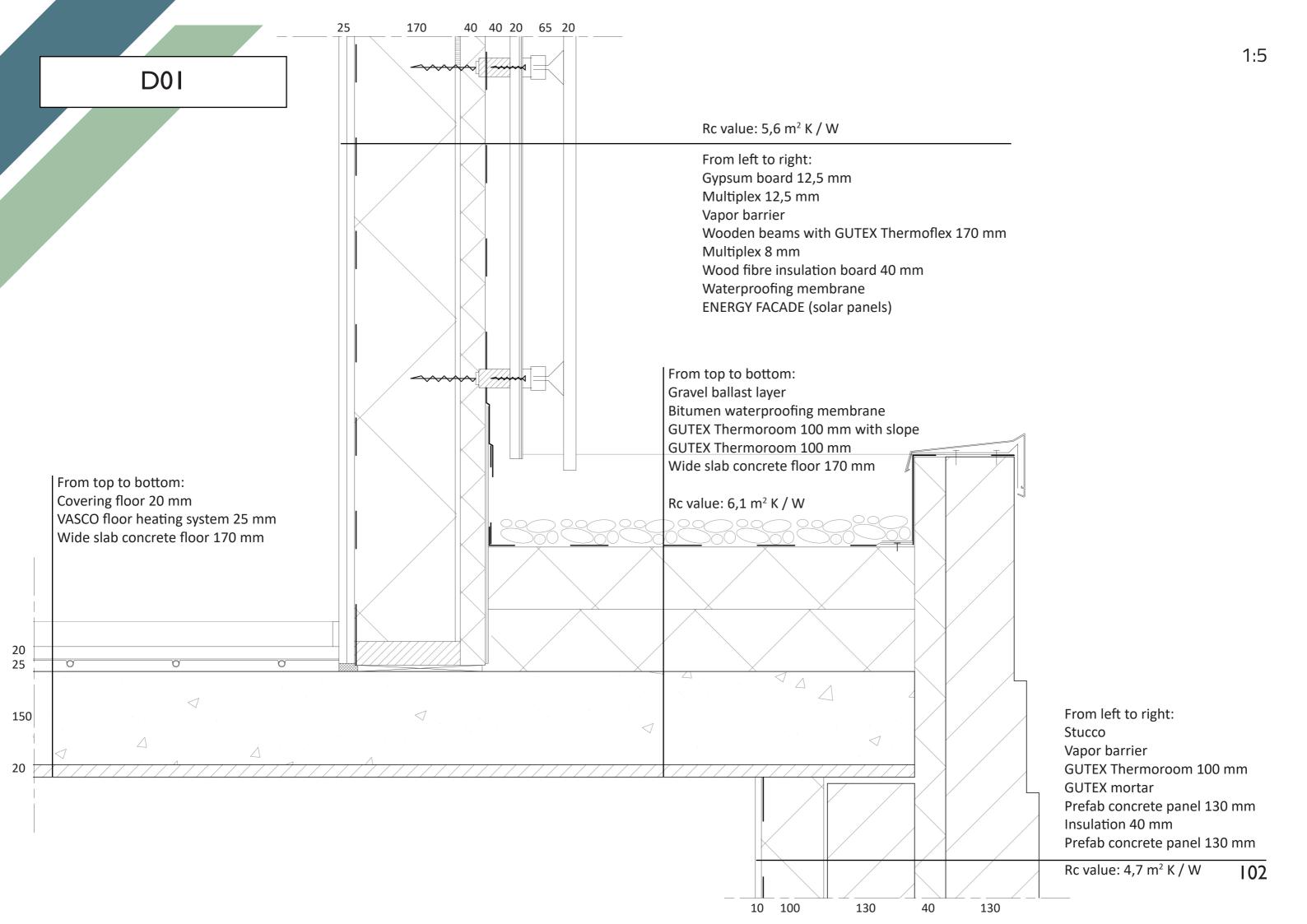


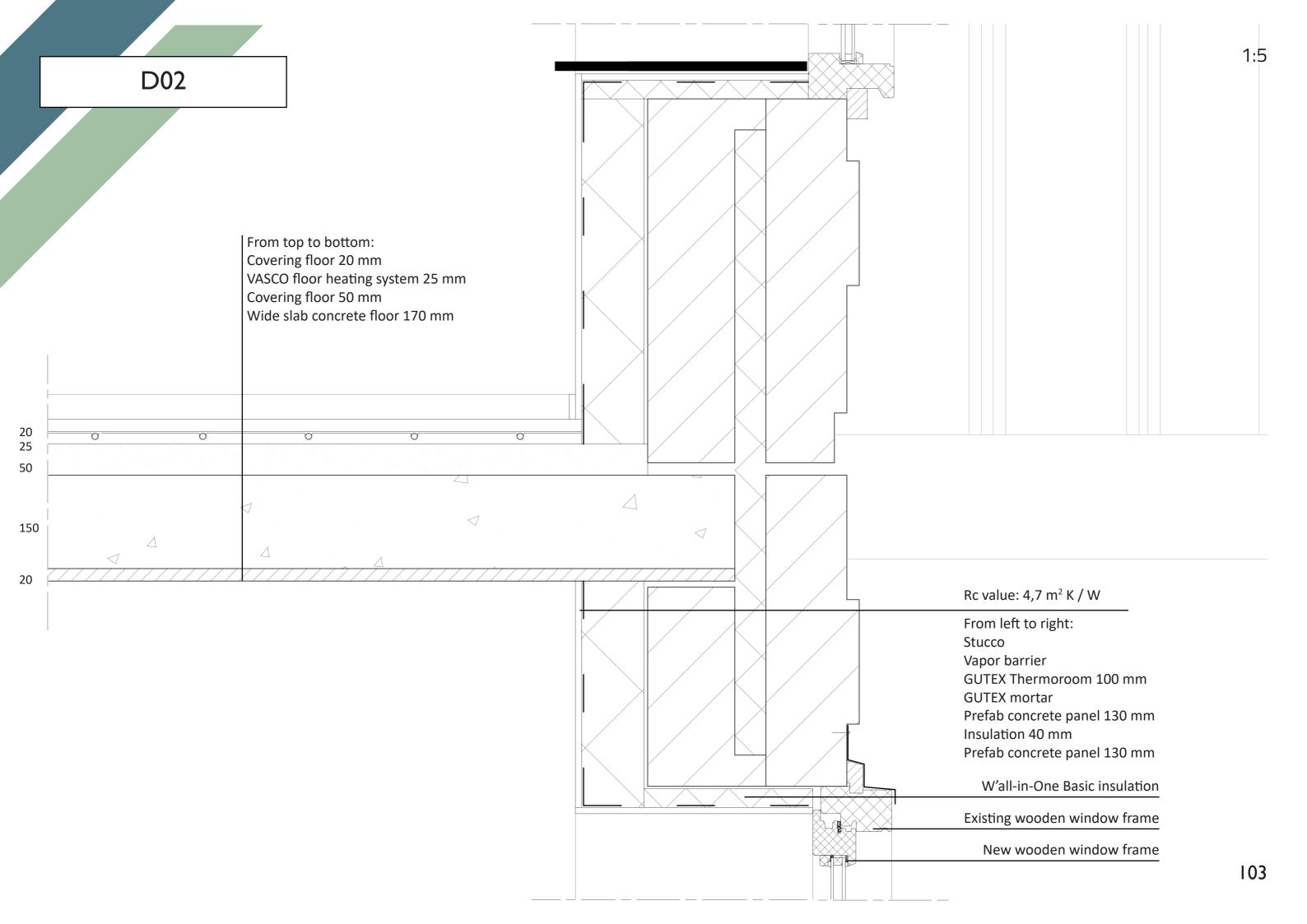
### LOAD BEARING WALLS

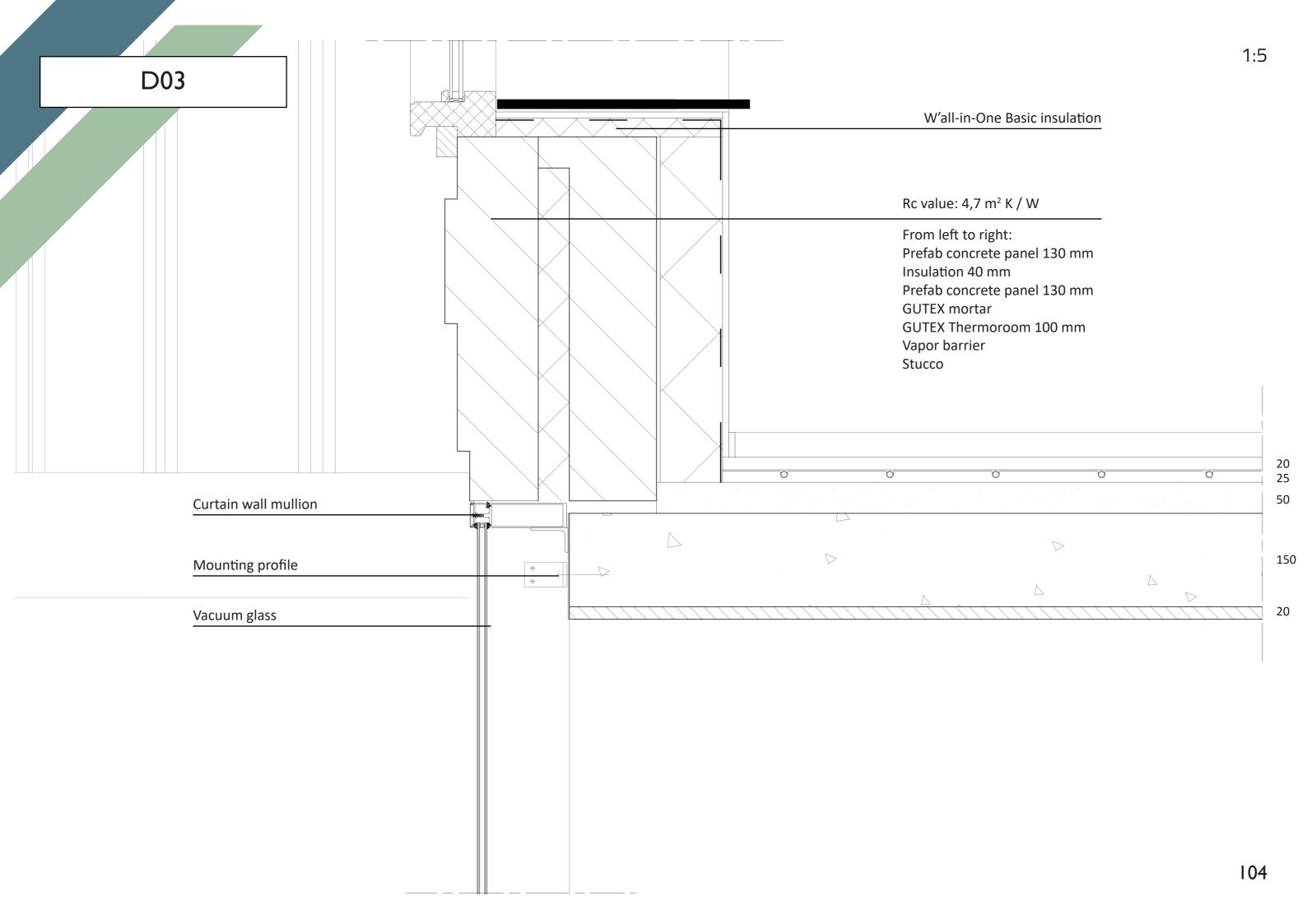


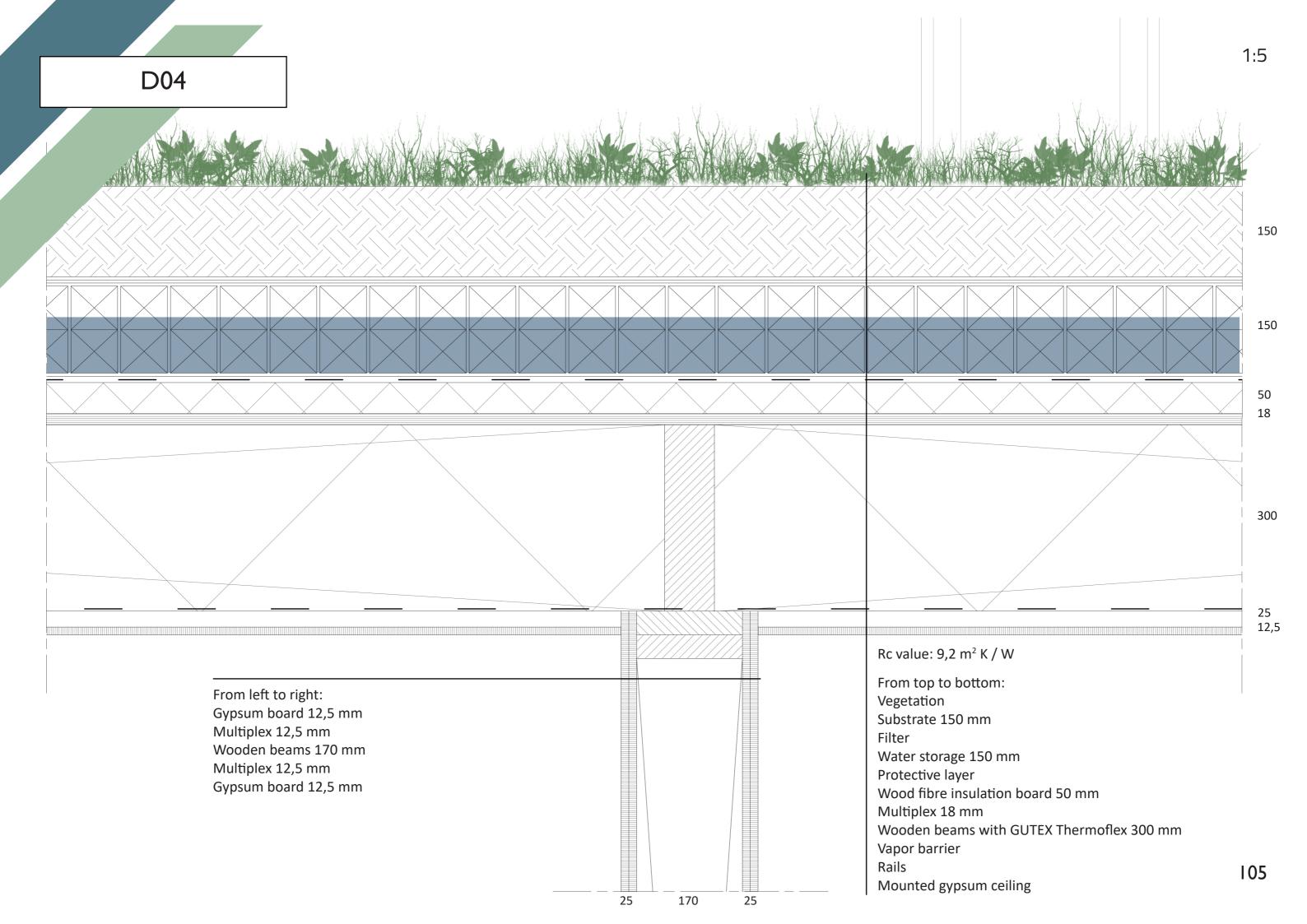


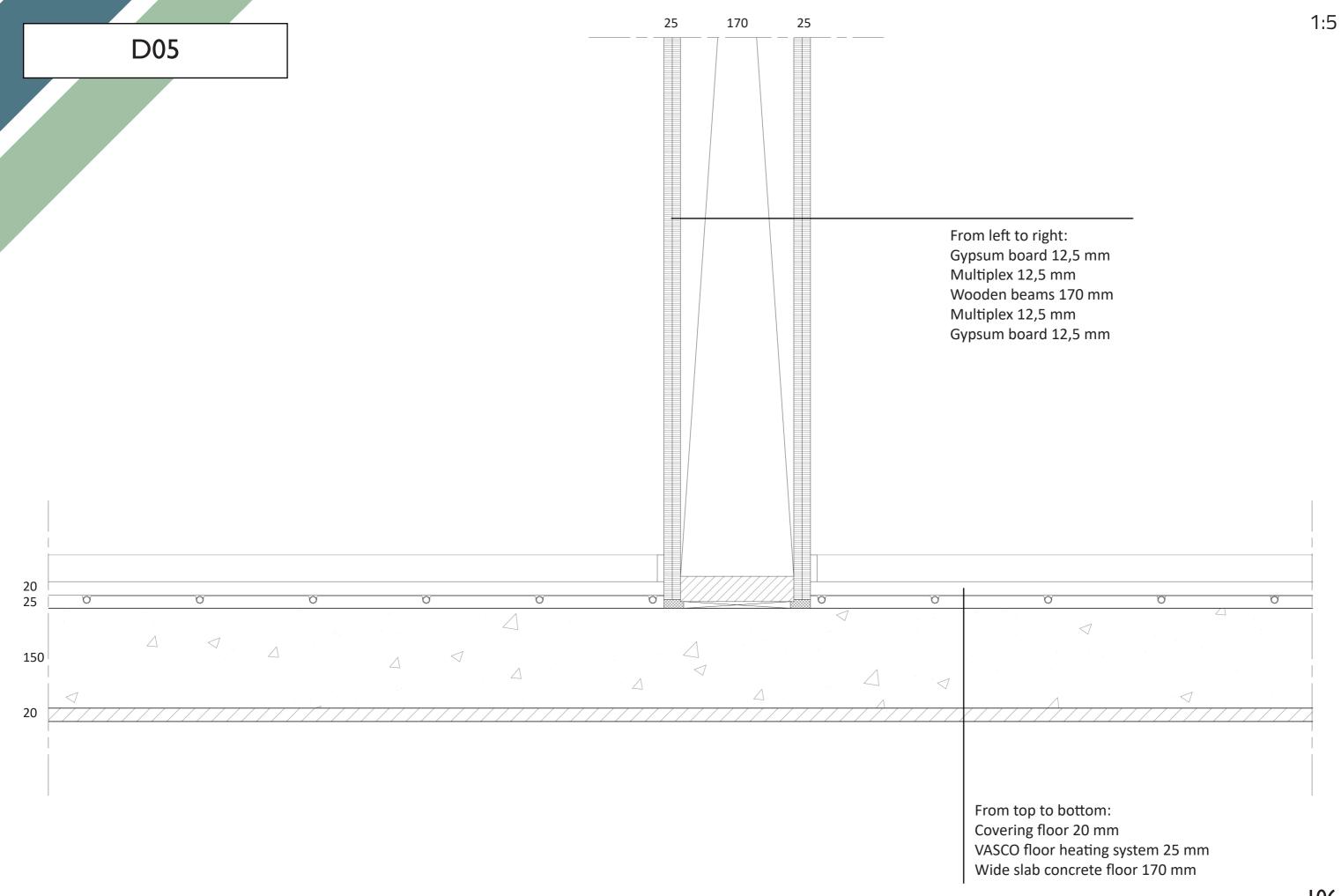
## **SECTION** D06 7D04 D07 D05 D01 D02 D03

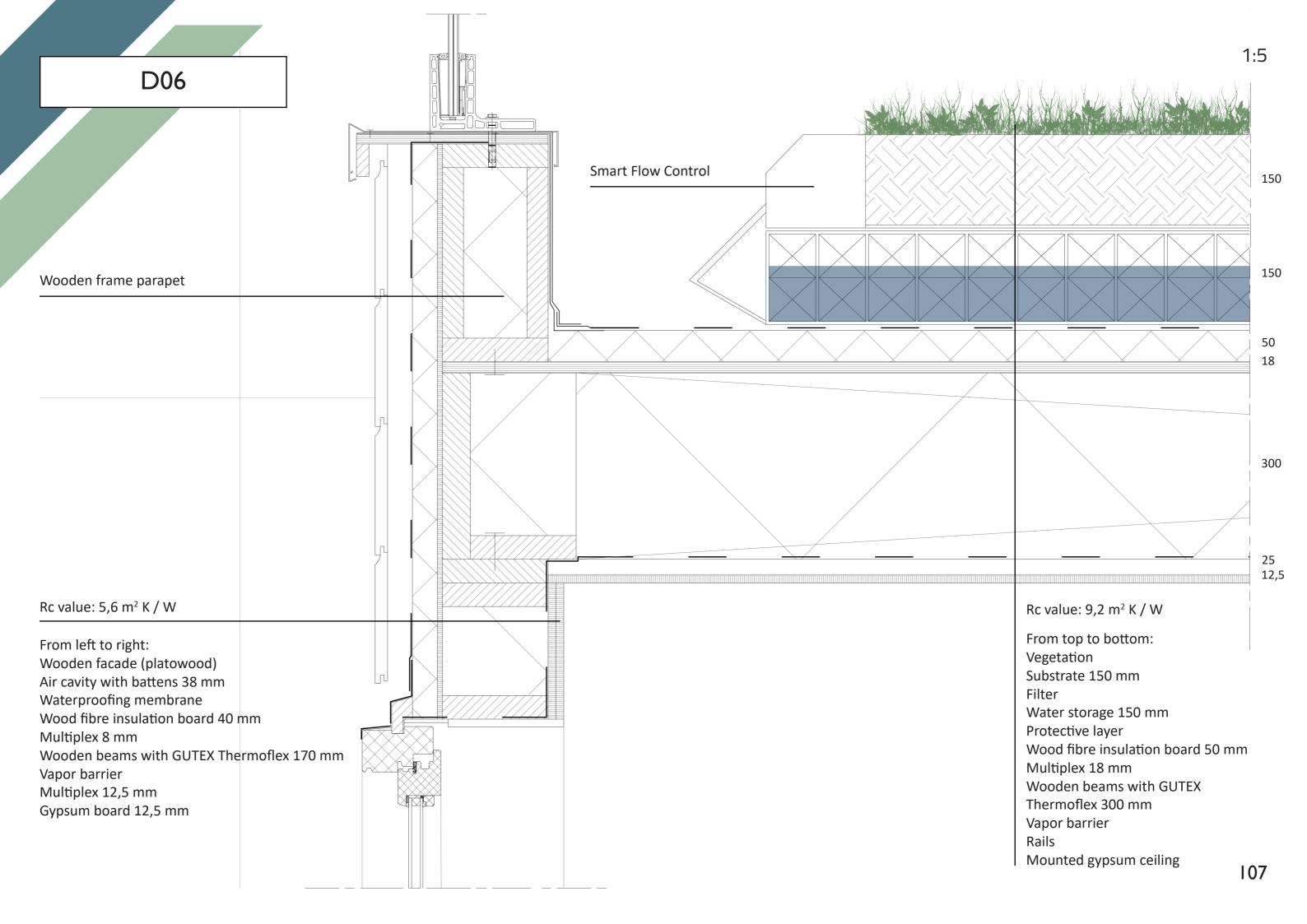


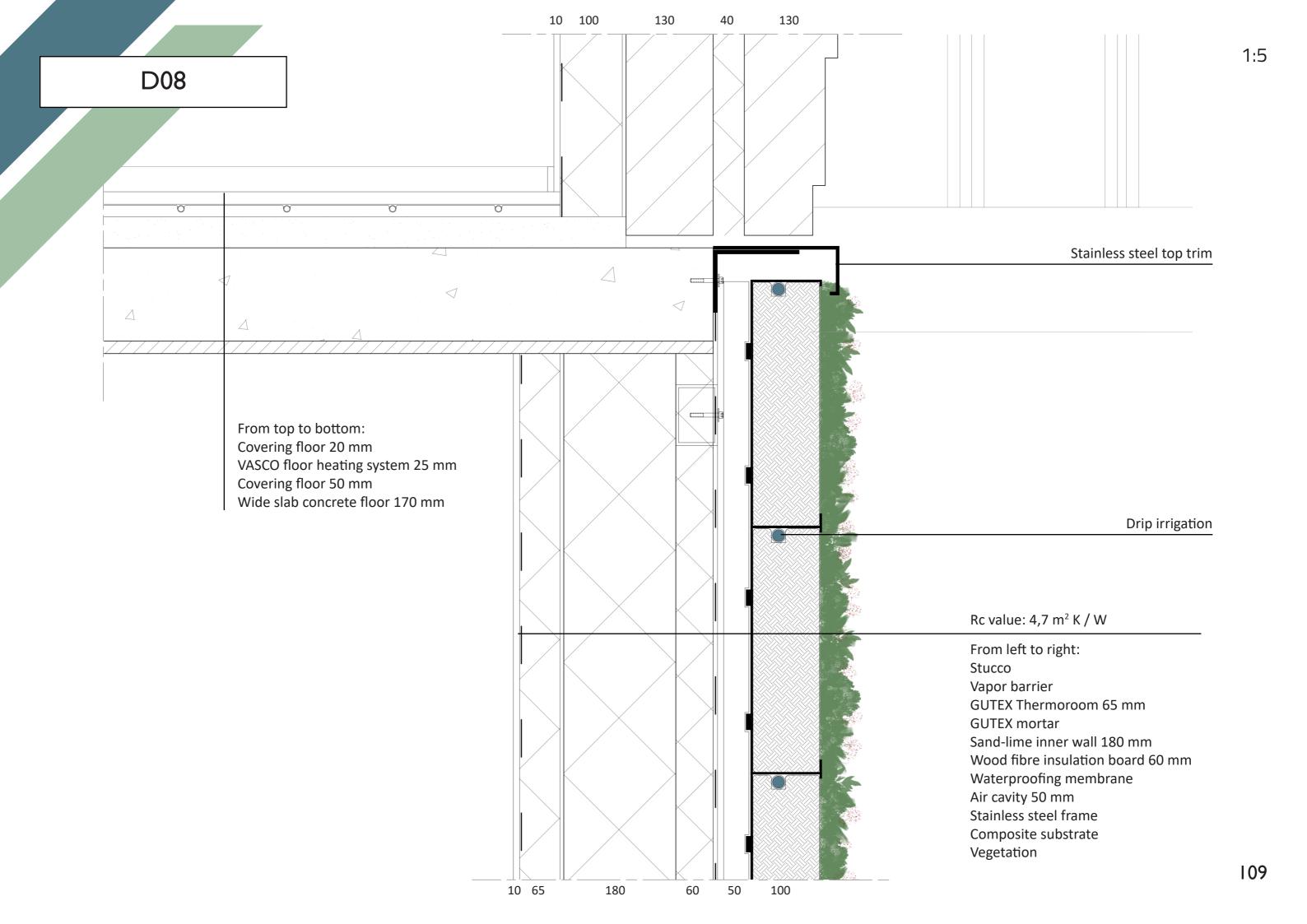






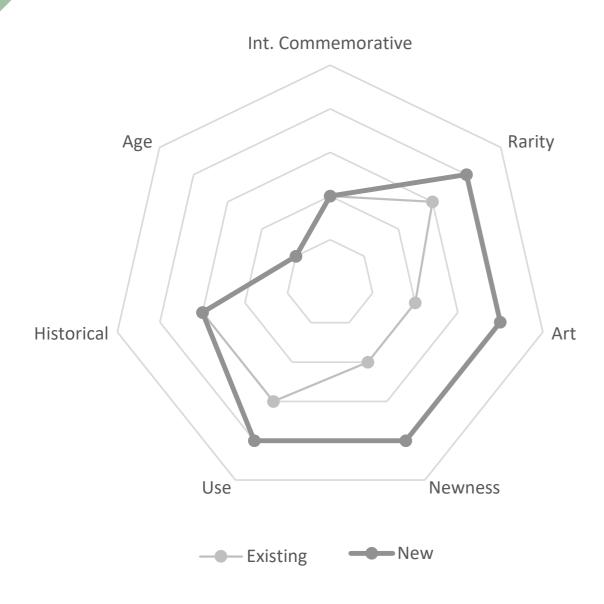




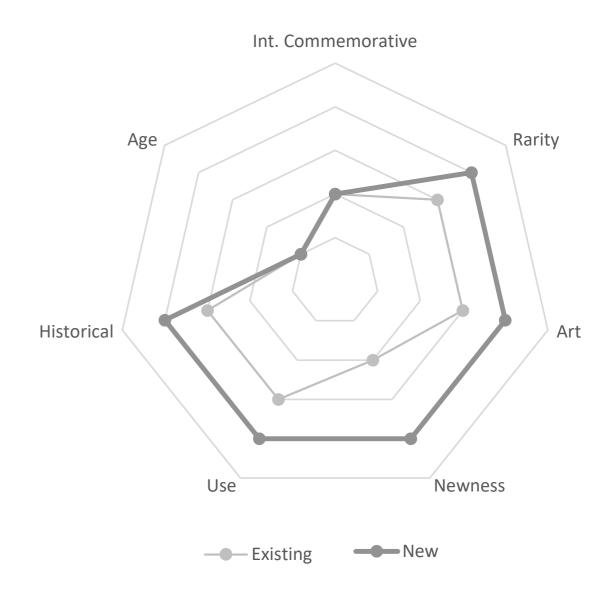


### **VALUE ASSESSMENT**

#### **URBAN**



### **BUILDING**



#### Urban:

- surroundings / setting
- site
- spirit of place

Building:

skinstructurespace plansurfacesservicesstuff

(Brand & Riegl)

(Brand & Riegl)

110

# **VALUE ASSESSMENT**

	AGE	HISTORICAL	INTENTINAL COMME- MORATIVE	NON INTENDED COMME- MORATIVE	USE	NEWNESS	ART	RARITY
SURROUNDINGS / SETTING		anti bijlmer			parks			
SITE					courtyards	contrast circular and rectangular shapes		
SKIN (EXTERIOR)		80s architecture: - rhythm facade - open / closed - prefab concrete	human scale because of the 4/5 storeys			tectonics windows	street-art	coloured facades
STRUCTURE		80s architecture: - prefab concrete						
SPACE PLAN					diversity floorplans			
SERVICES								
STUFF		windows + doors						balconies
SPIRIT OF PLACE			signs HCC				HCC	creative and cultural identity



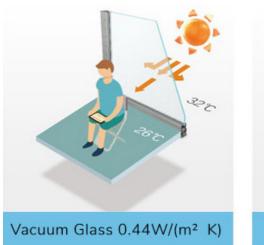




Platowood Fraké

Gutex Thermoflex

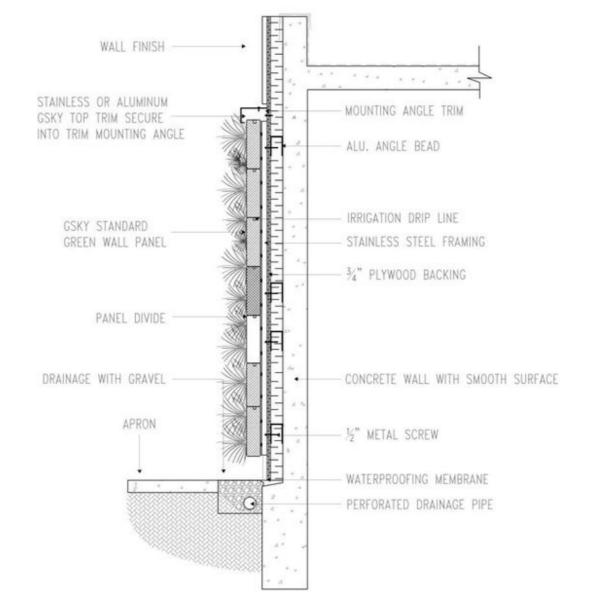
De Kroon prefab HSB elements

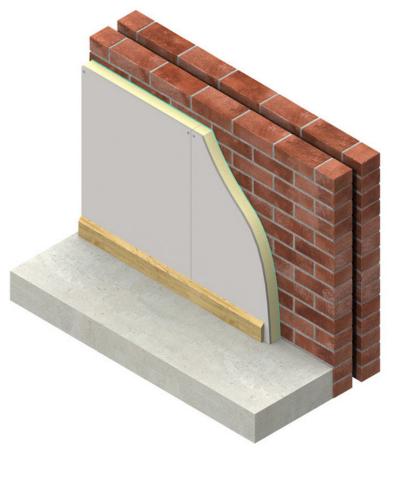








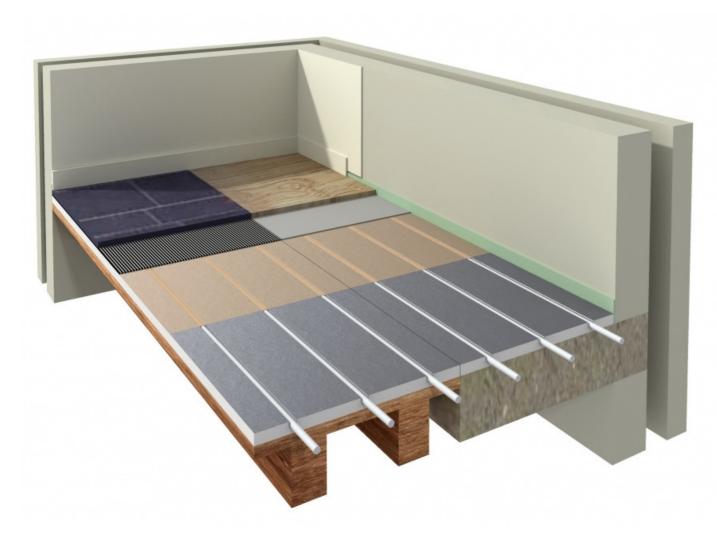




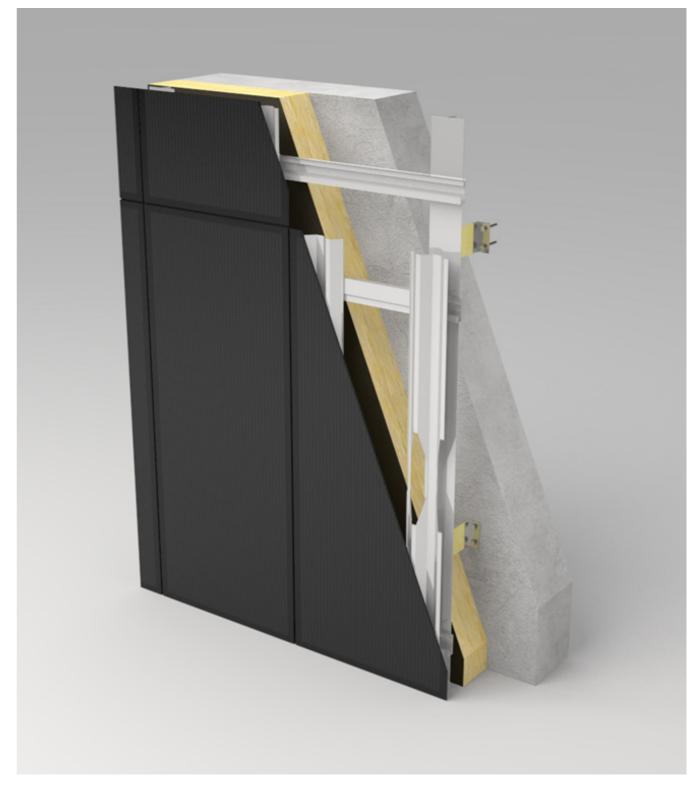
BENGglass (vacuum glass)

green wall

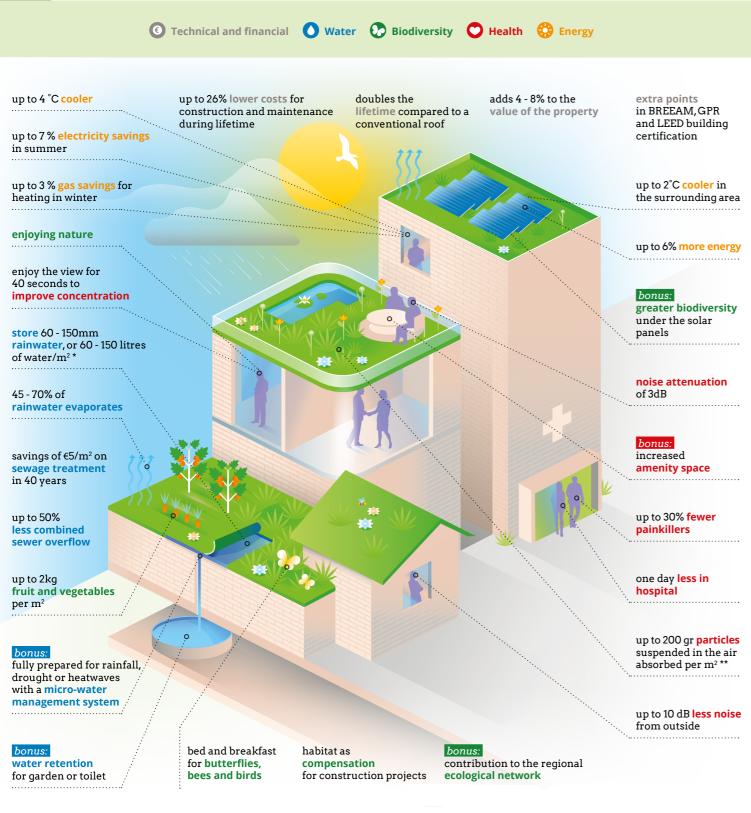
W'all in one element by Kingspan



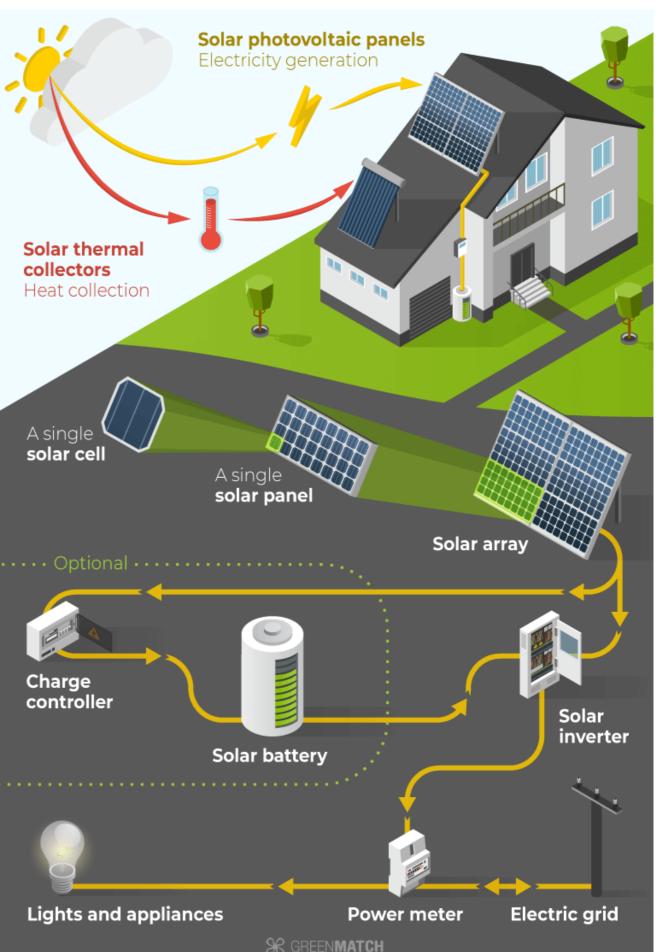
VASCO floor heating system



ENERGYFAÇADE by saint-gobain-solutions



<sup>\*</sup> for existing buildings, a maximum of 100mm or 100 litres/m²



<sup>\*\*</sup> with a natural roof or grass roof

# **TERRACES**







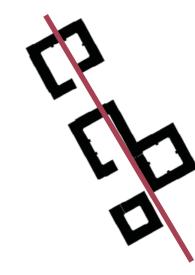
# **INTERIOR**



# **INTERIOR**



## **GREEN ROUTE**





## RESIDENTS

Tabel 3.4 Bevolking H-buurt naar huishoudentype, 1 januari 2007

		bewoonde					
straat	alleen staand	zonder kind p	paar met kind	eenoudergezin	overig	totaal	adressen
Hoogoord	182	41	56	60	7	346	276
Hofgeest	173	46	51	120	7	397	328
Haag en Veld	209	49	51	112	4	425	333
Hogevecht	141	37	49	96	4	327	276
Haardstee	140	33	38	45	5	261	227
Hoptille	138	36	60	98	8	340	292
Huigenbos	235	47	60	103	11	456	365
Hakfort	238	55	82	89	11	475	402
Heesterveld	187	40	49	95	3	374	304
Huntum	21	32	23	4	0	80	73
totaal	1664	416	519	822	60	3481	2876

Bron: O+S