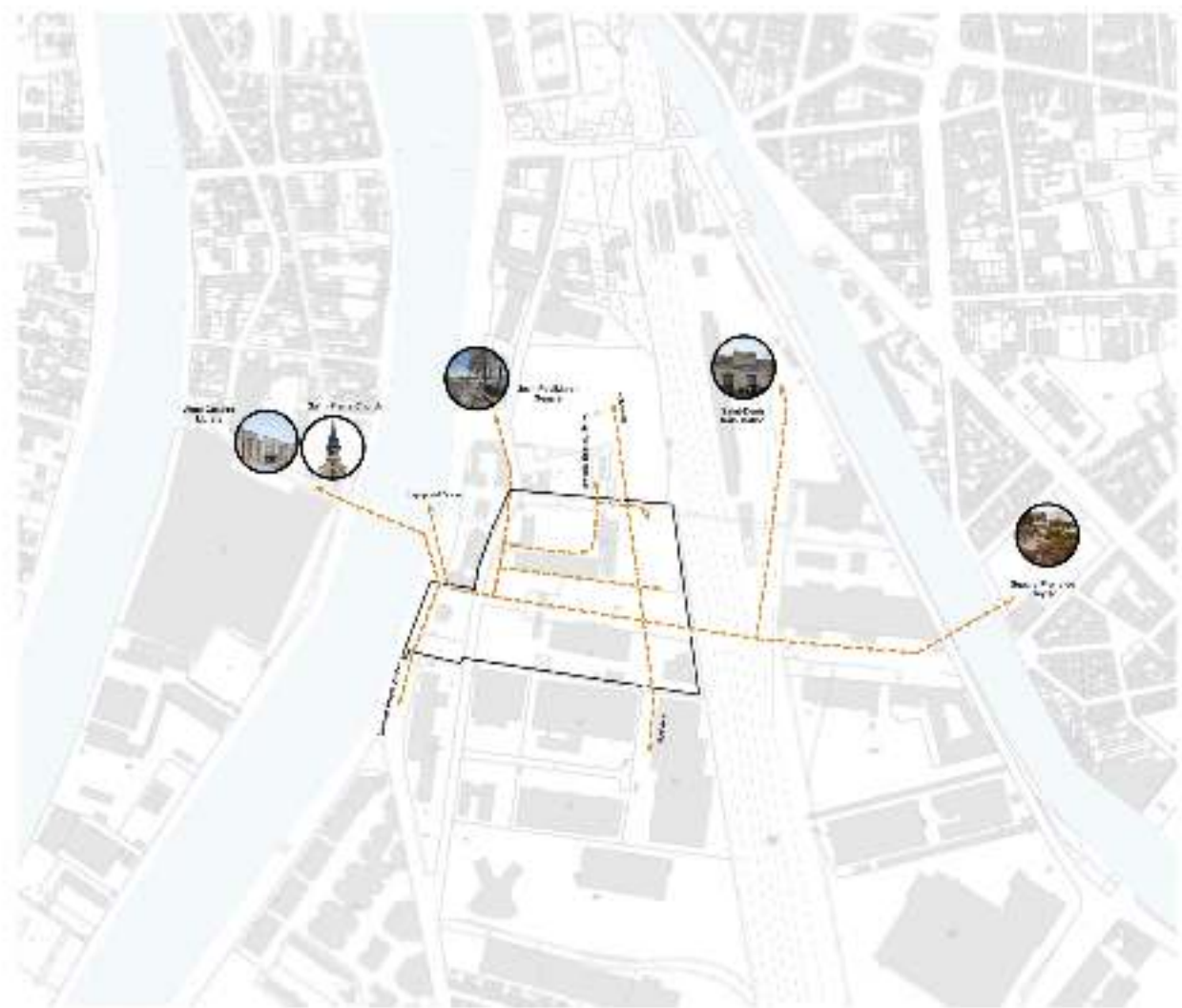
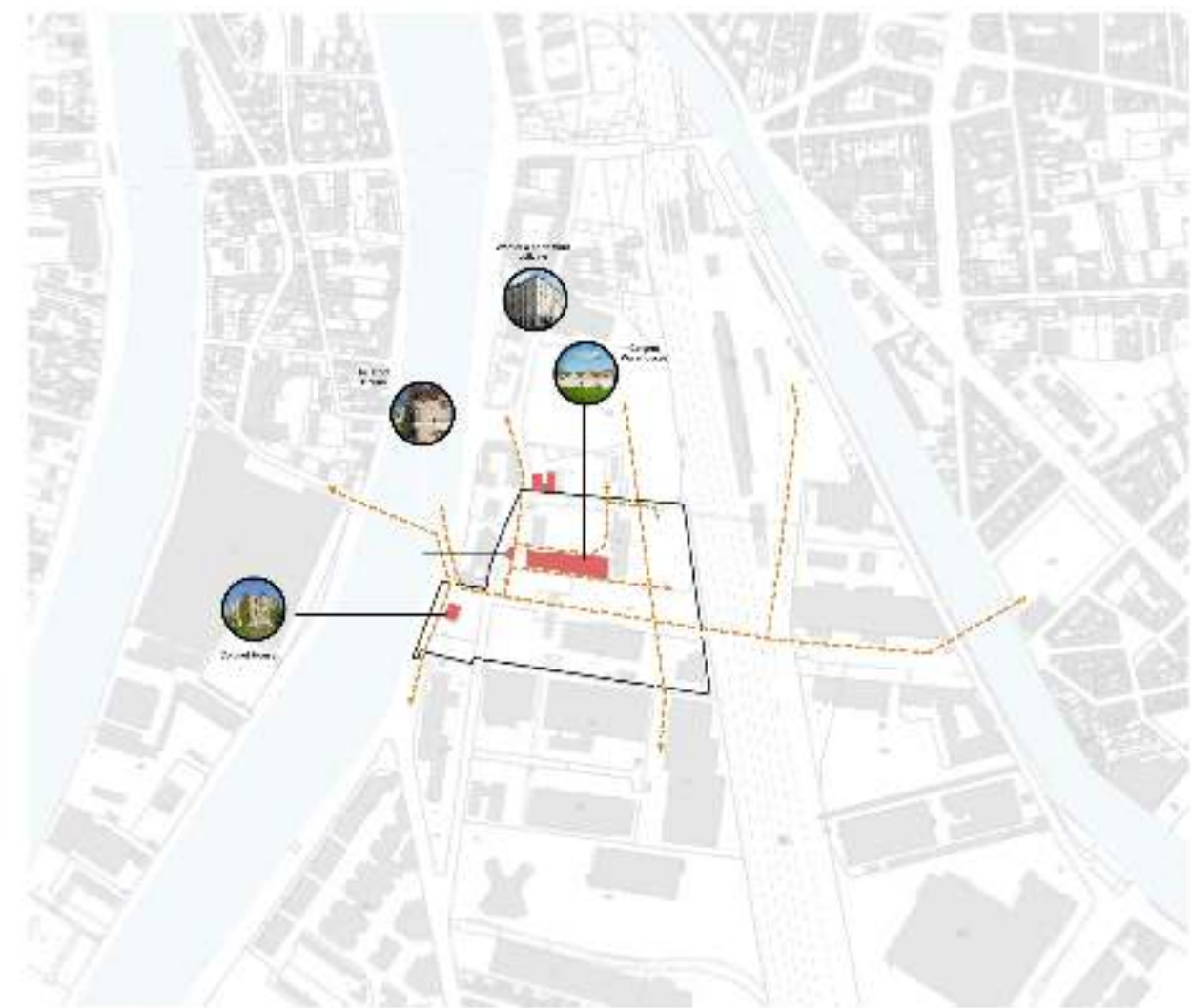


# HERITAGE

AS THE REVEALING FACTOR OF  
A RECONVERTING INDUSTRIAL SITE



KEVIN D'HEUR  
MAËLYS FALC  
MATHIEU GOMES DE OLIVEIRA



## SITE CHALLENGES

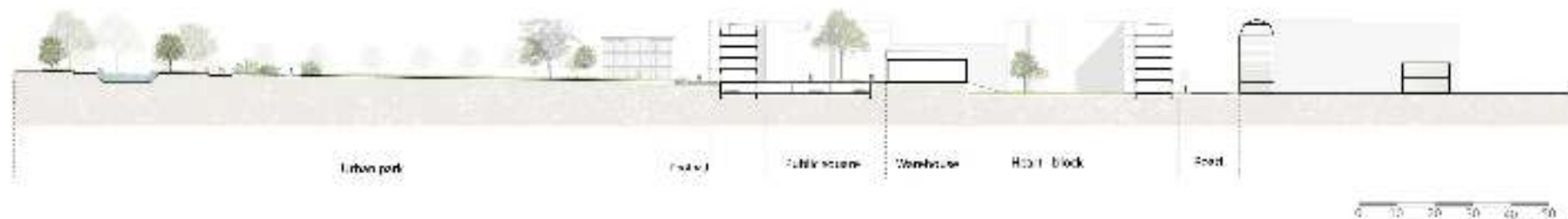




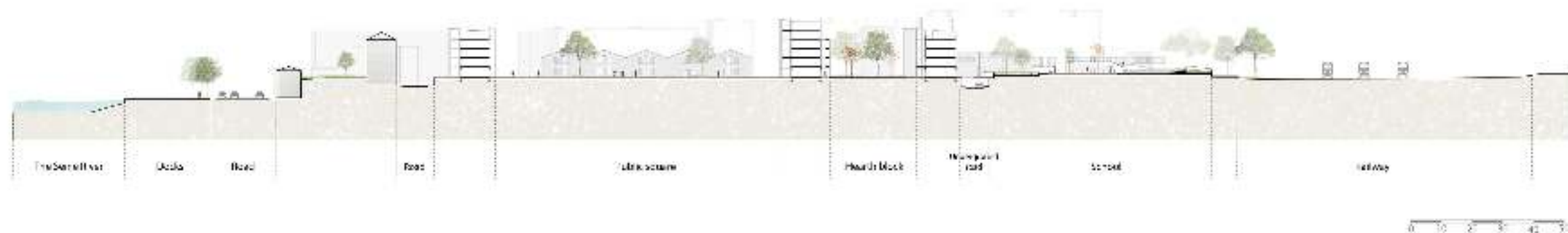
MASTERPLAN



0 10 20 30 40 50m

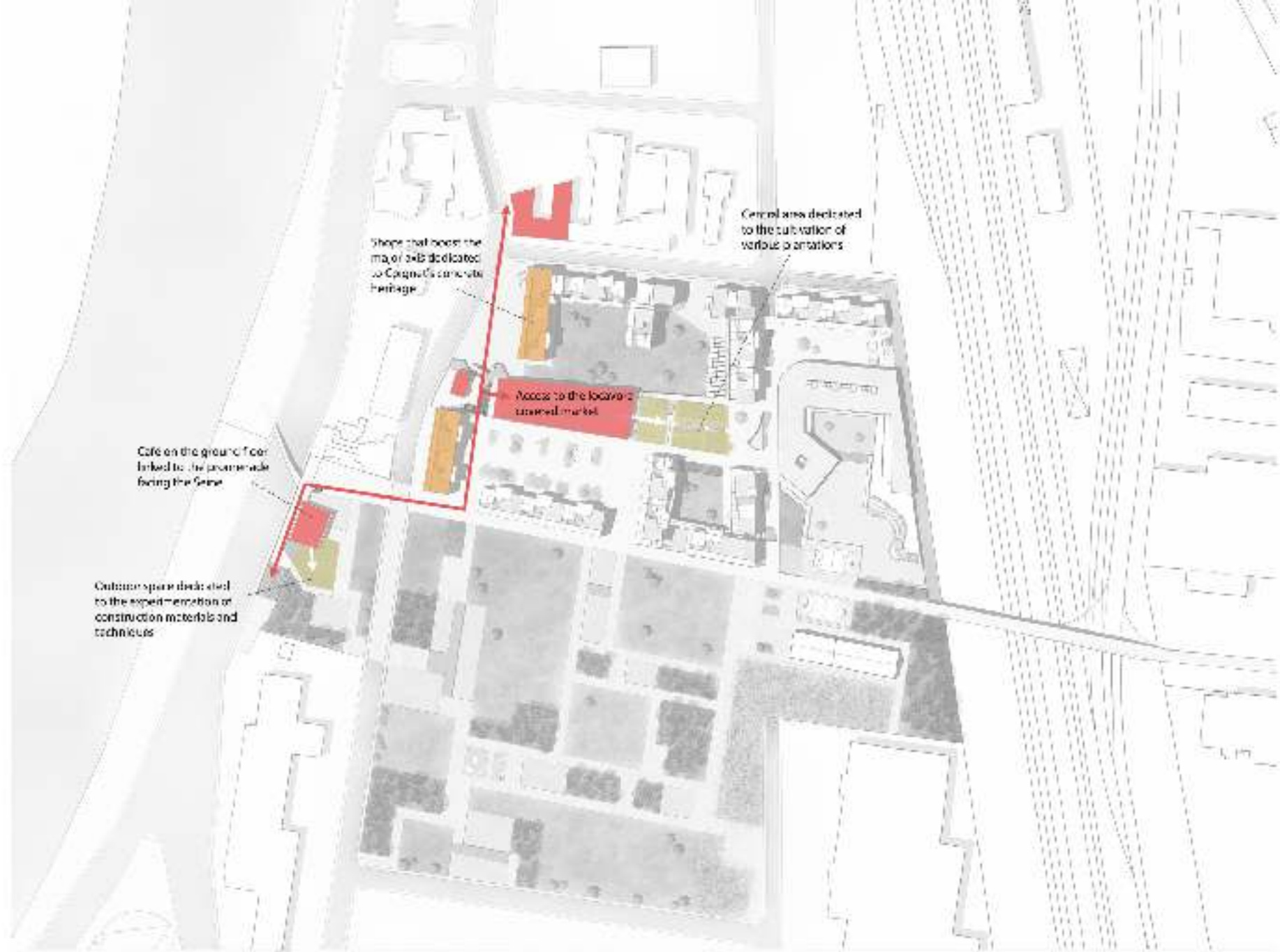


CROSS-SECTION AA'

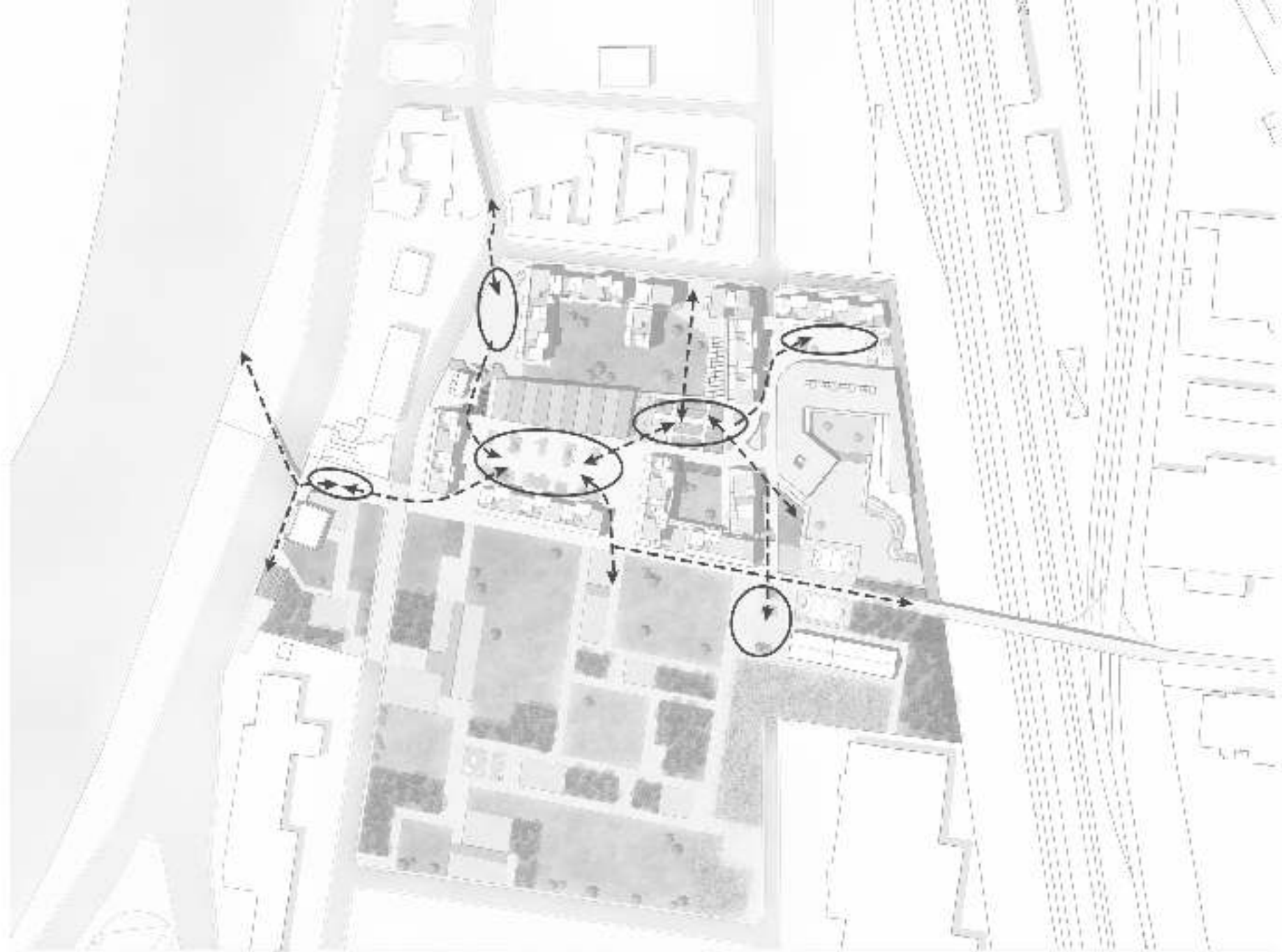


CROSS-SECTION BB'

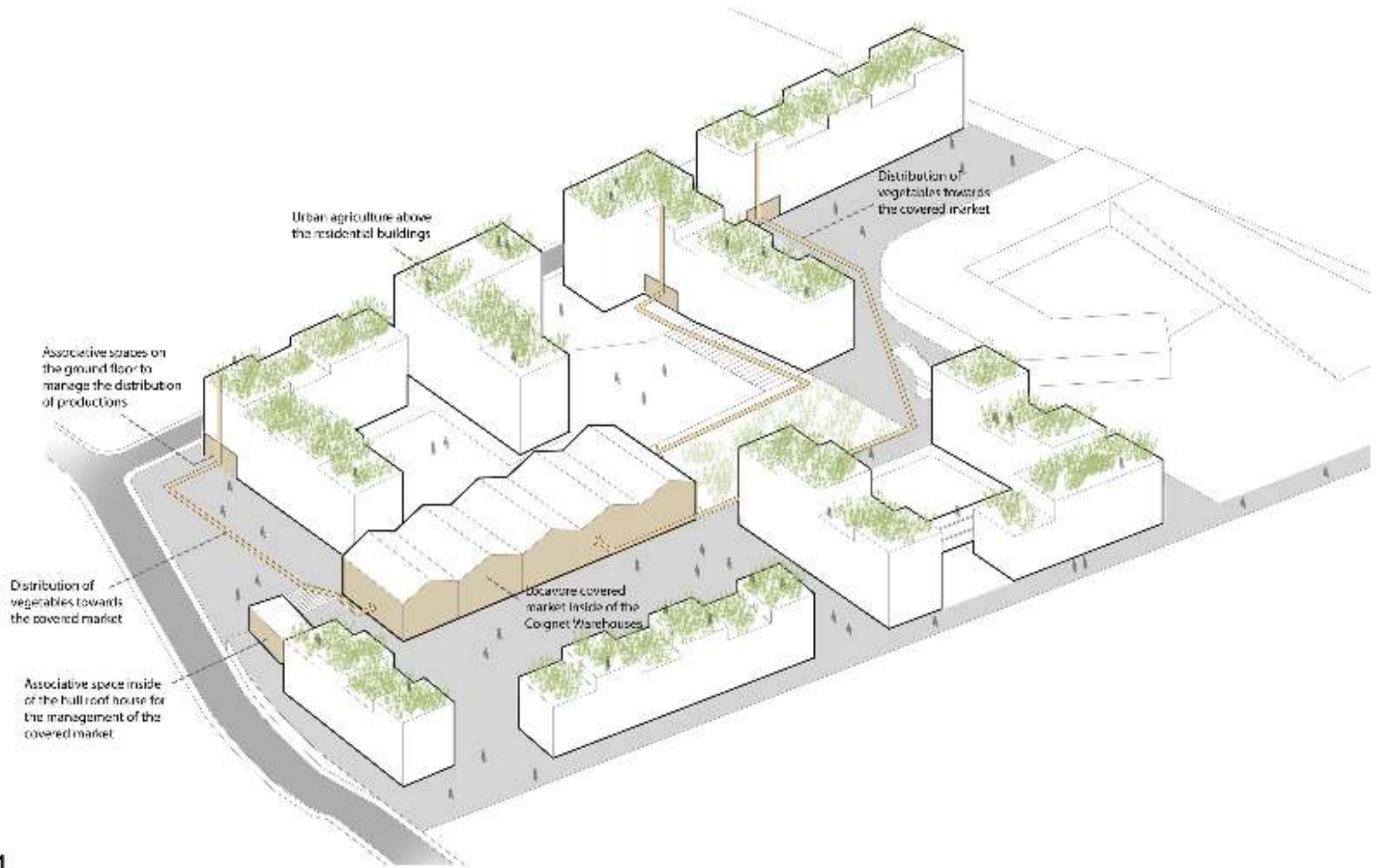
## CROSS-SECTION OF THE LANDSCAPE





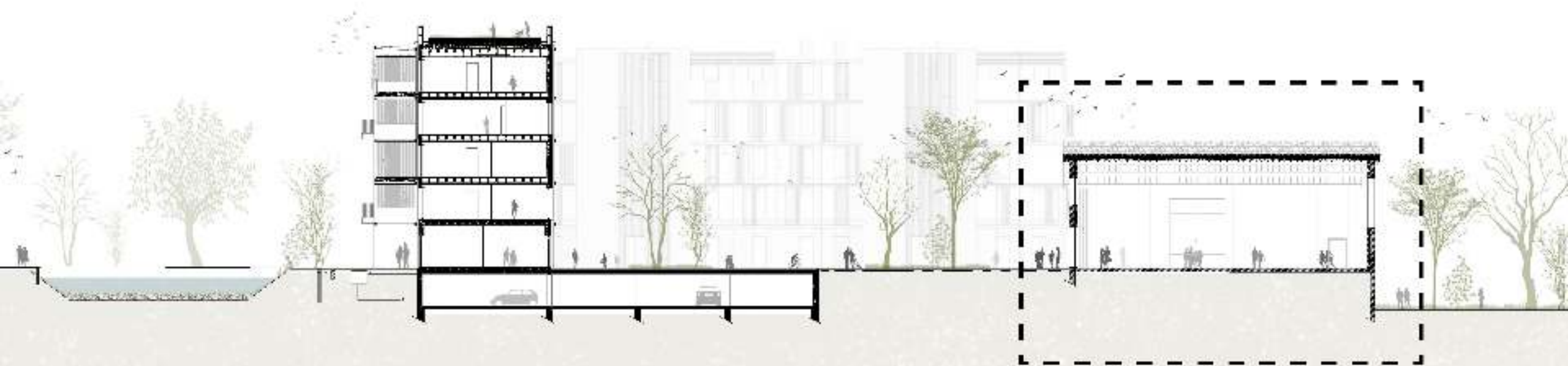








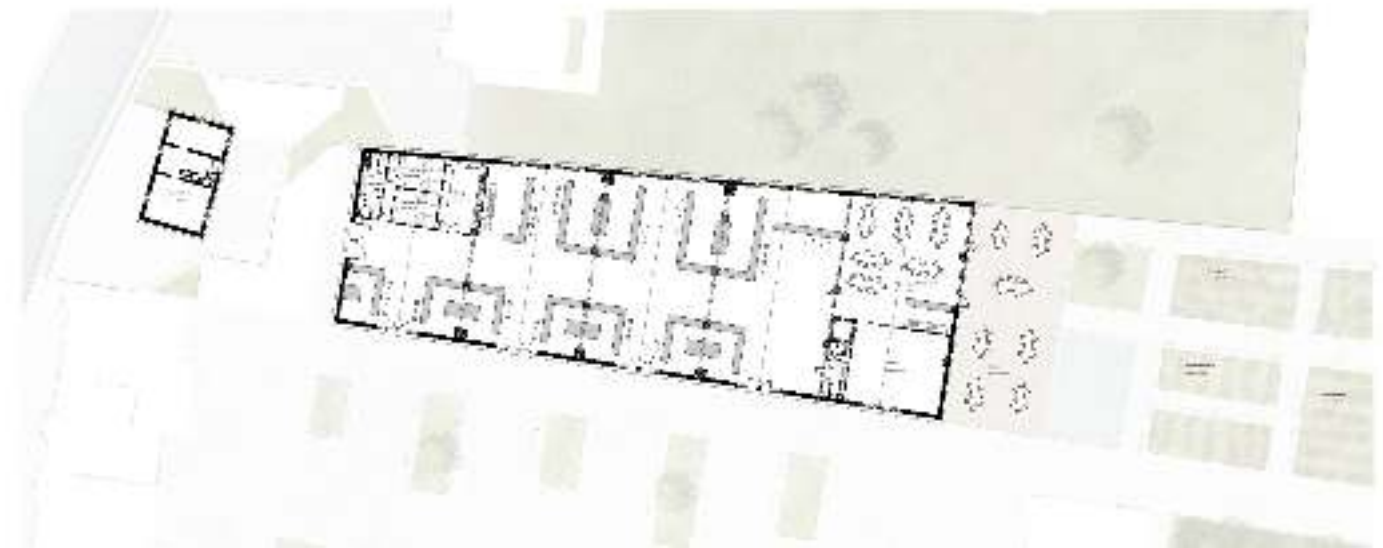
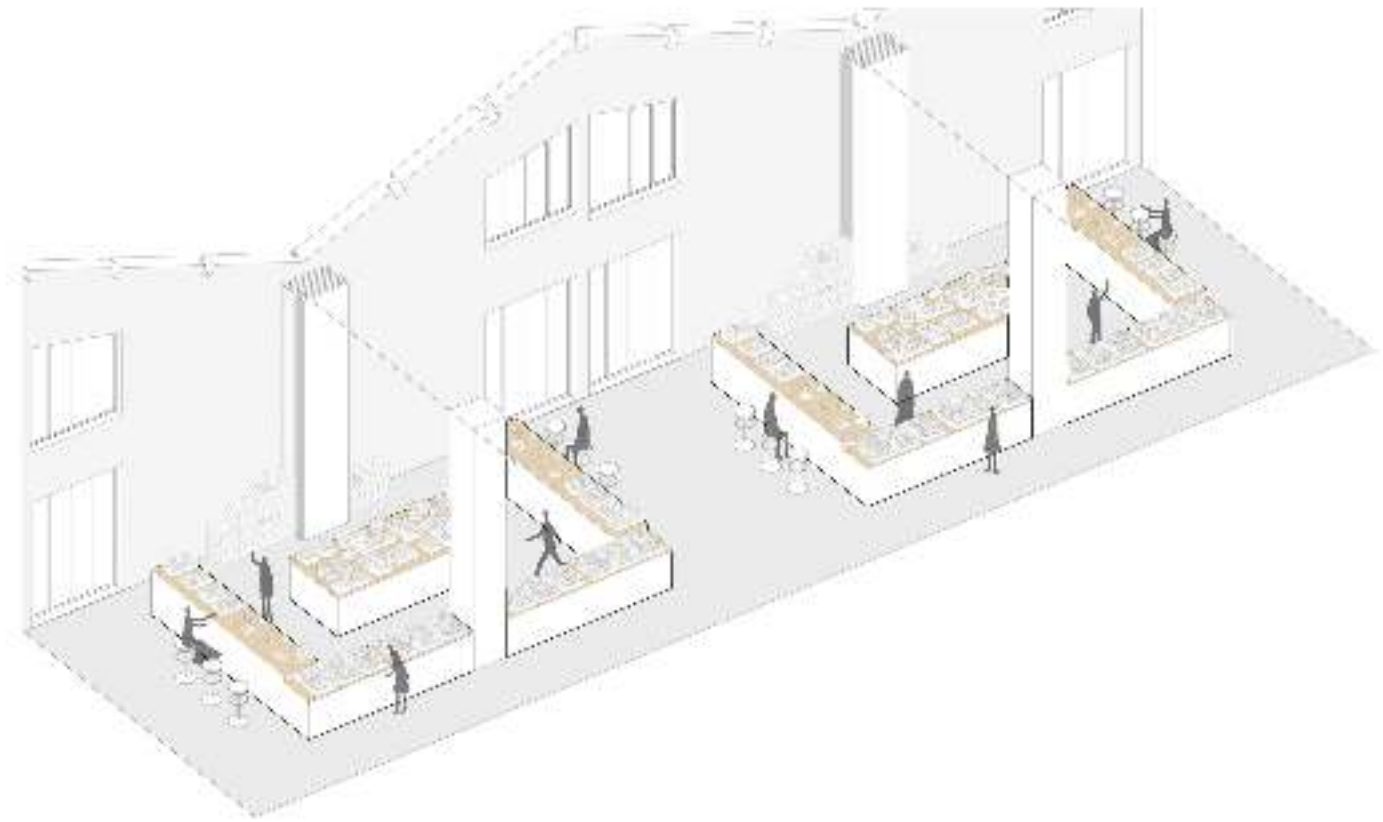
# WAREHOUSE





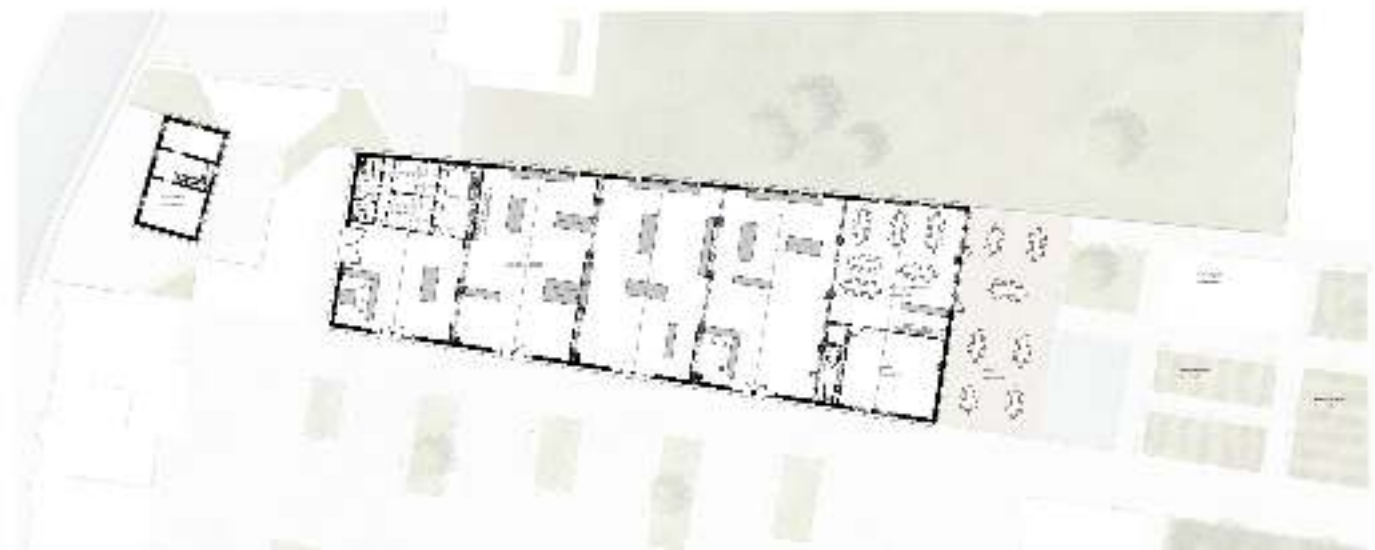
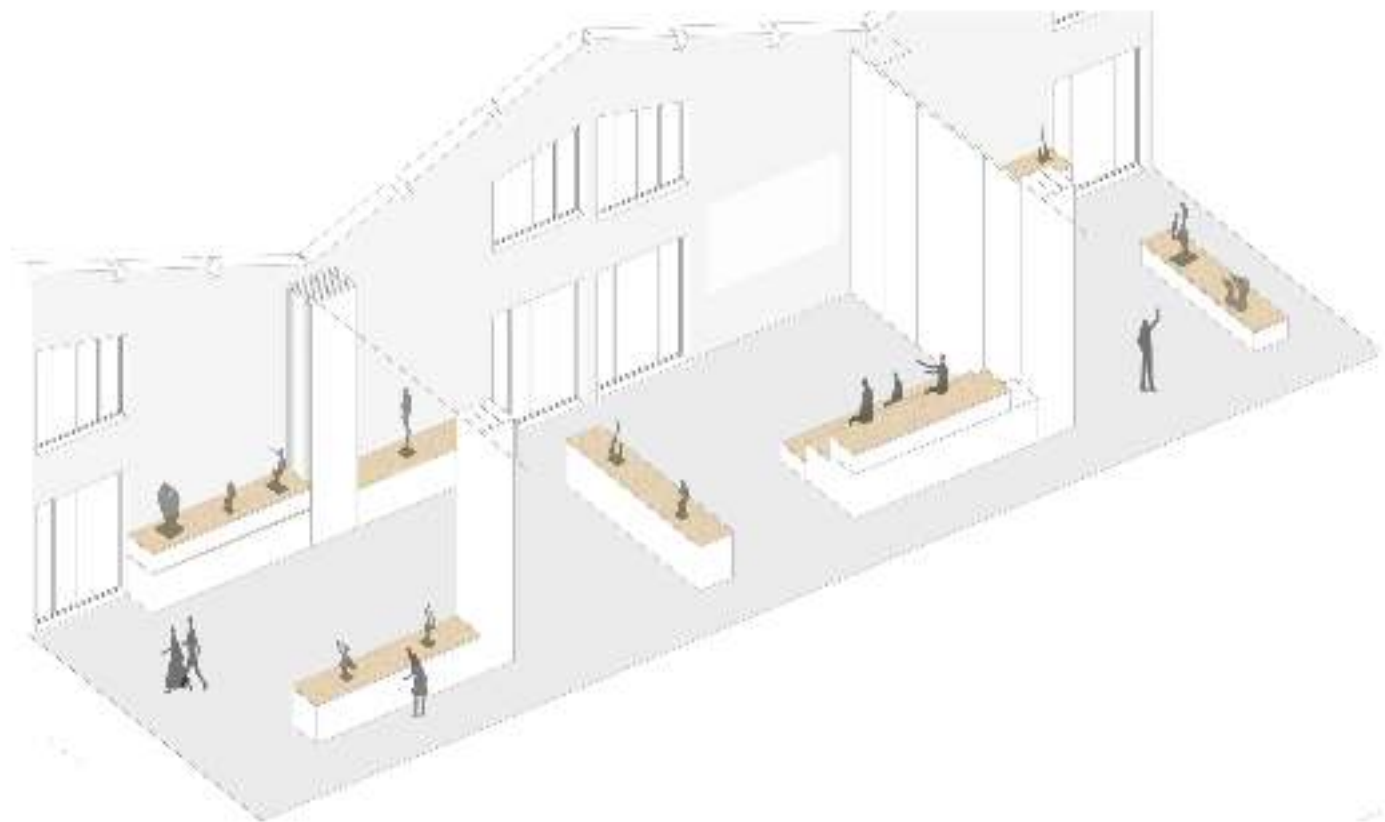
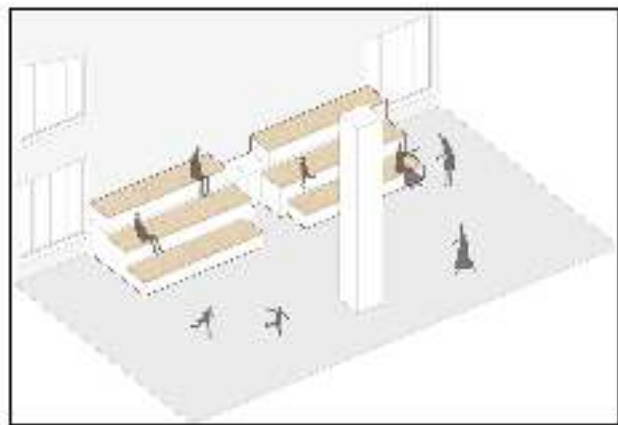
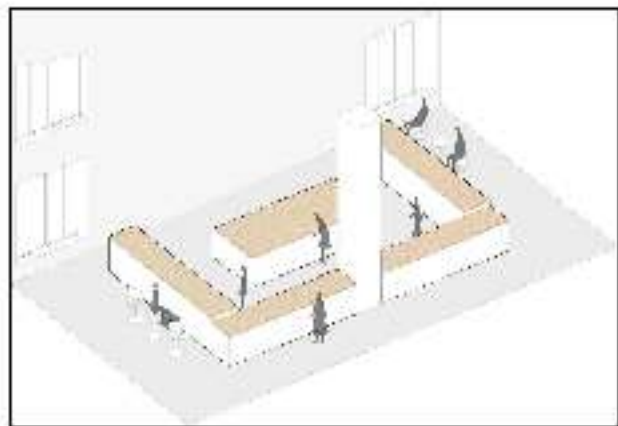


# LOCAVORE MARKET



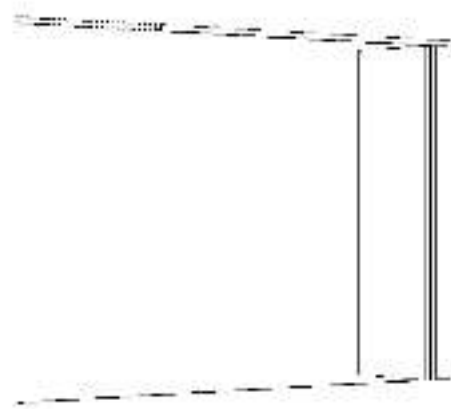


# ADAPTABILITY

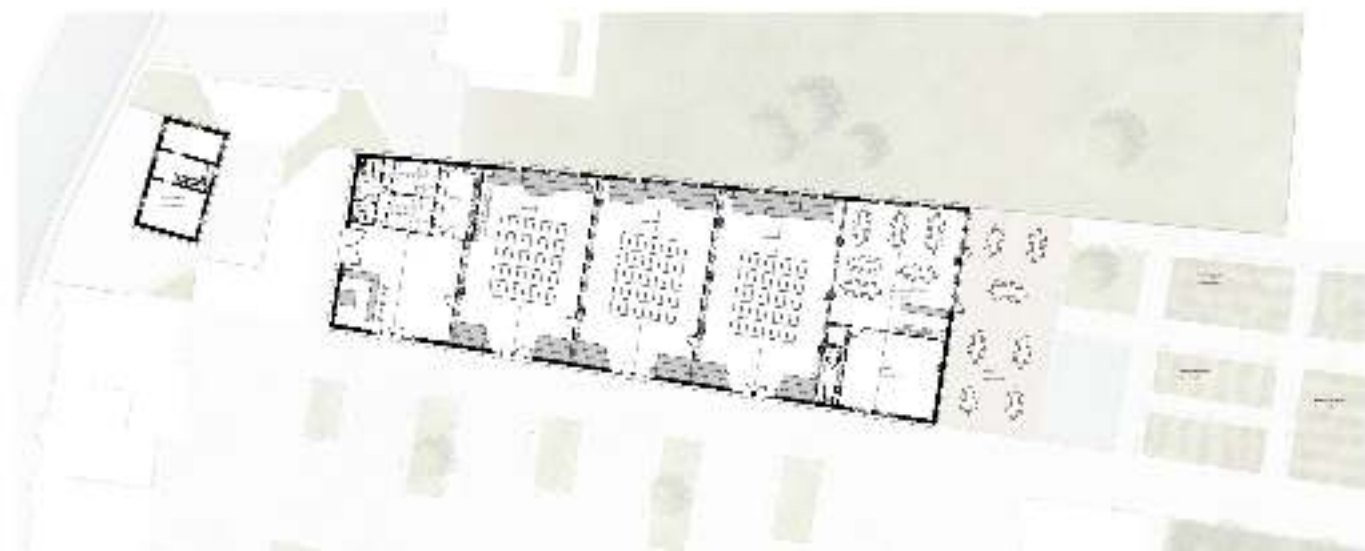
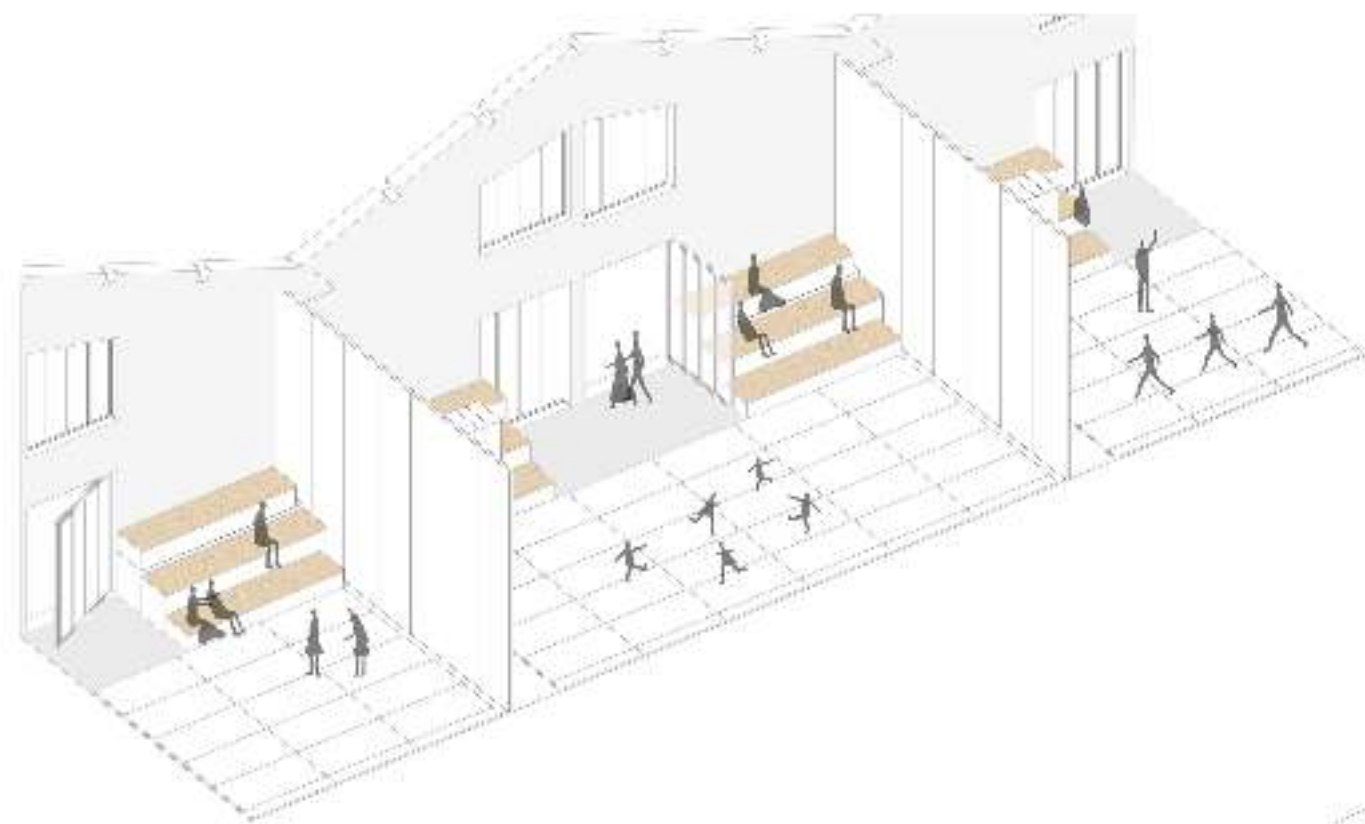
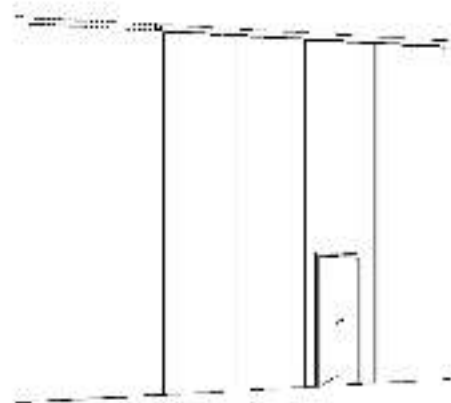




## DIVERSITY OF USE



PRODUCT REFERENCE:  
DERMA HÜPPE  
VARIFLEX ADJUST E CLASSIC



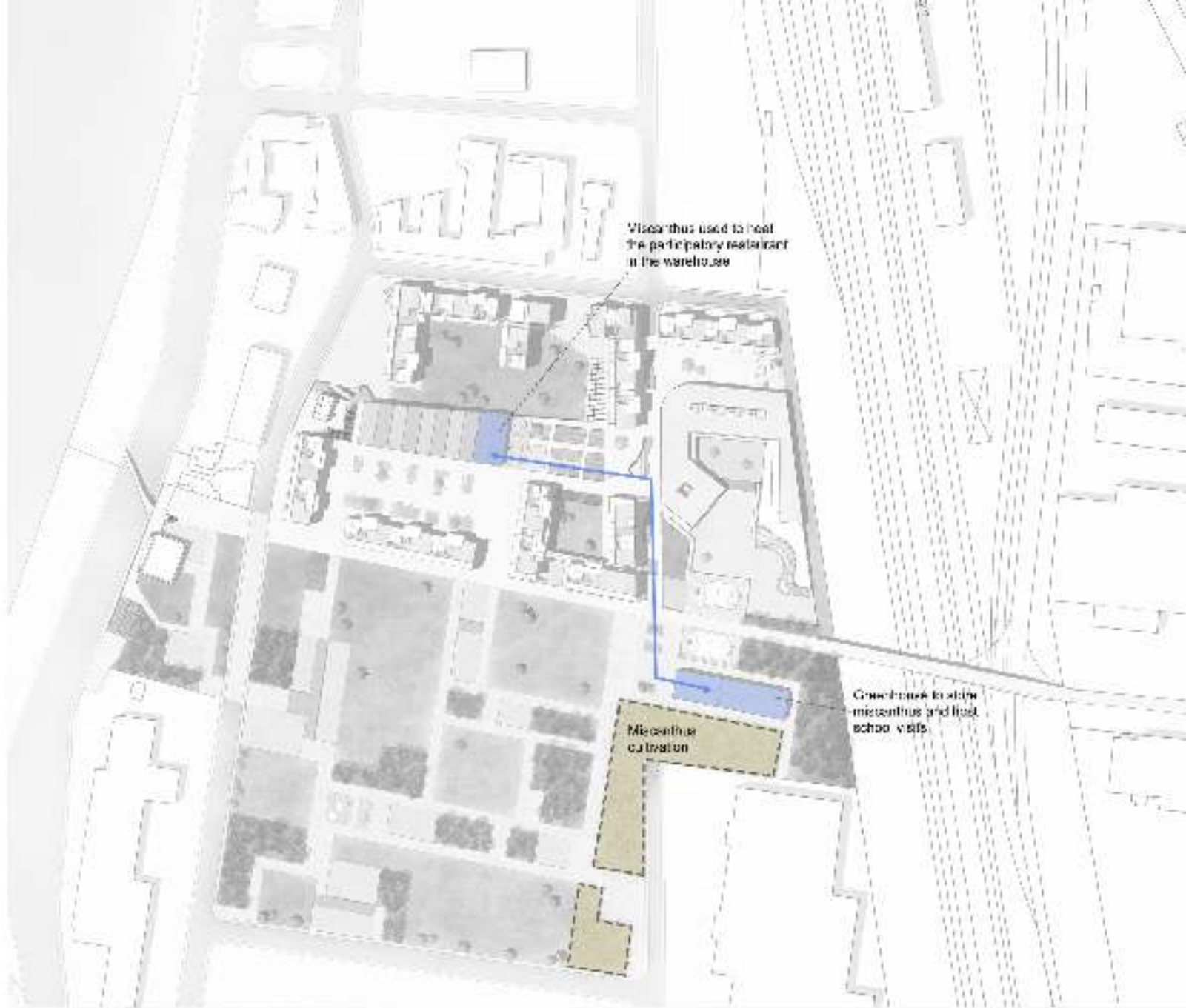
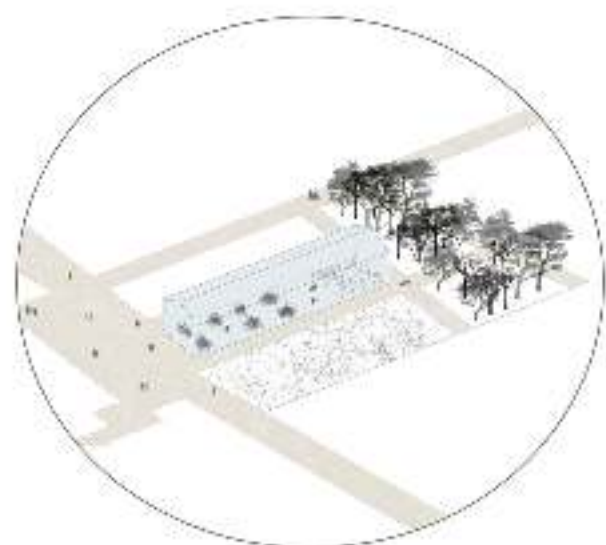
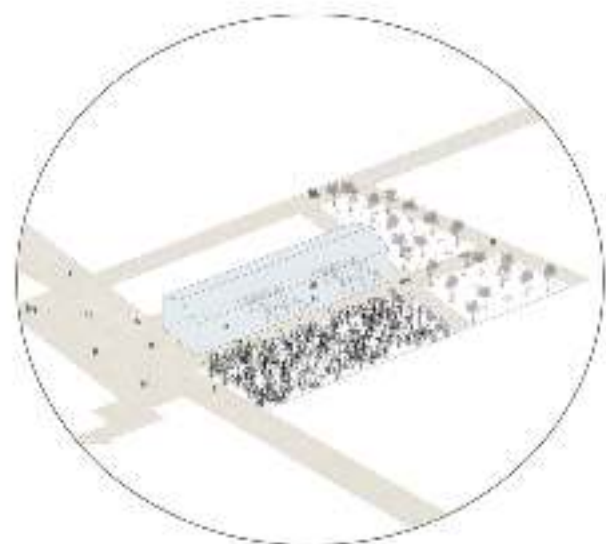






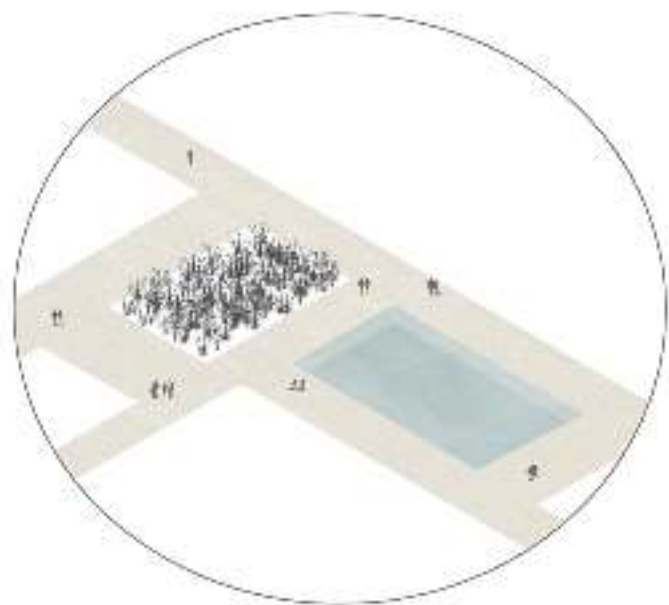


# CULTIVATION OF MISCANTHUS

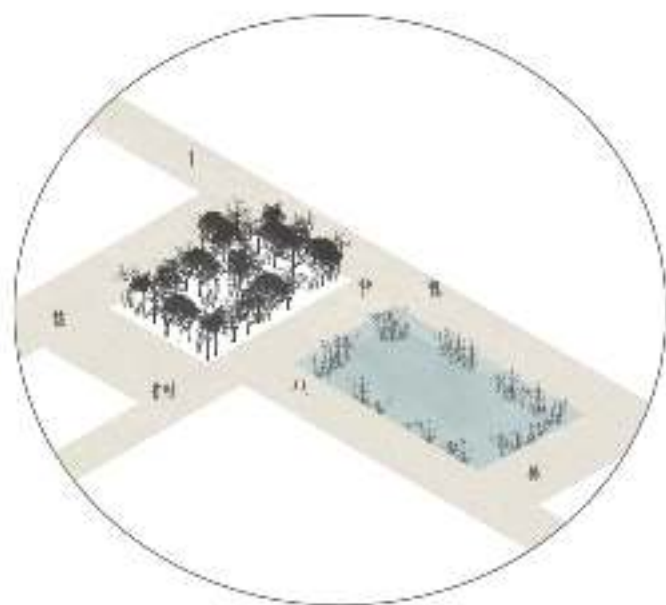




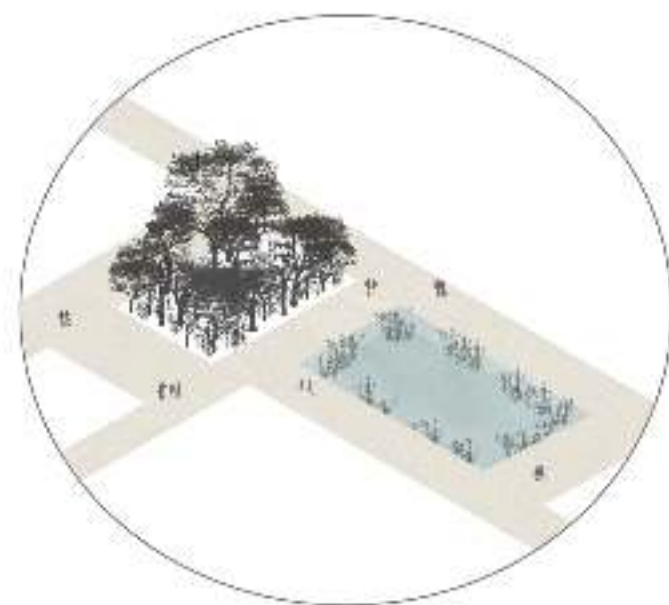
## URBAN FORESTS : THE MIYAWAKI METHOD



PLANTATION



DEVELOPMENT

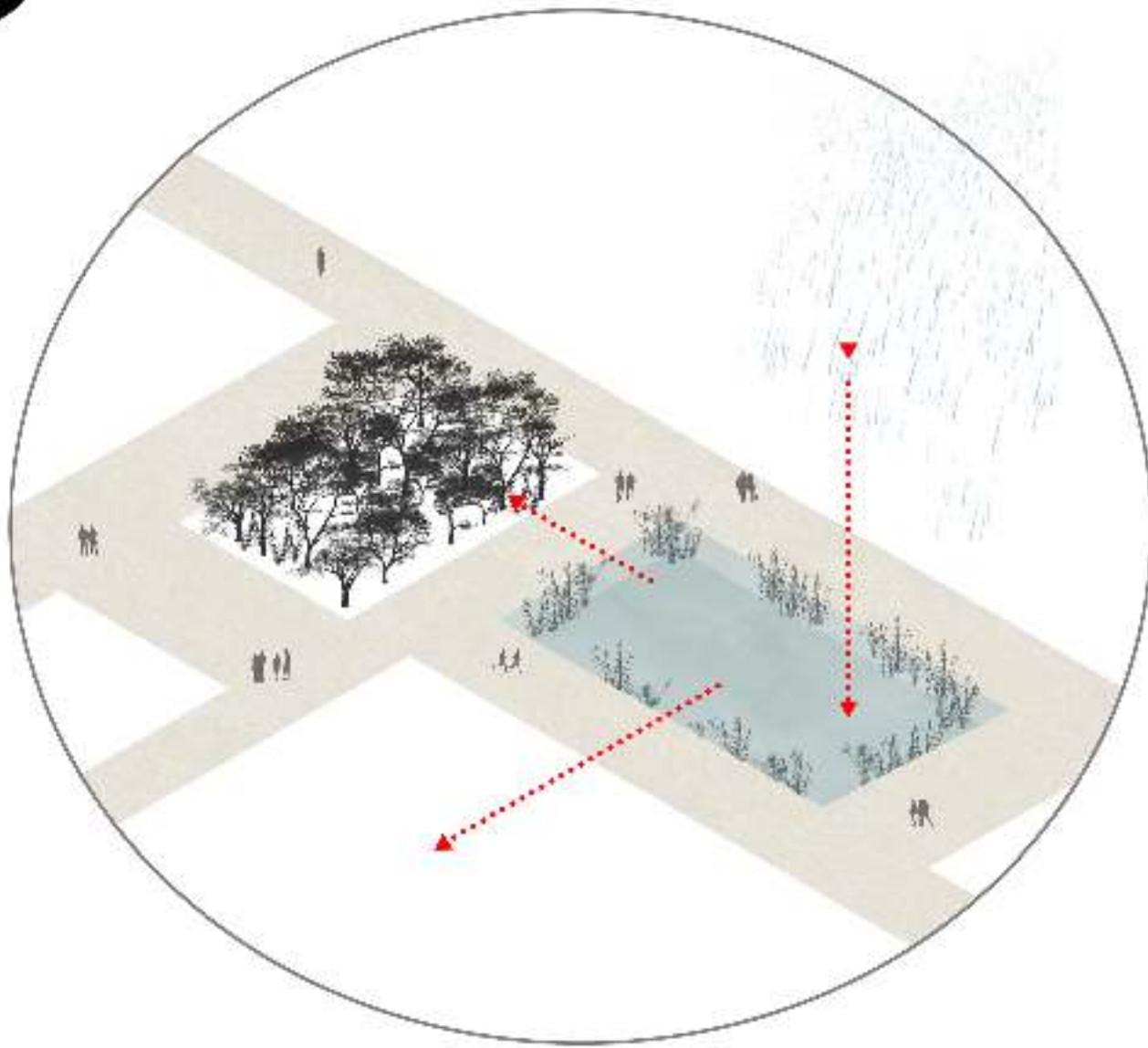


BIODIVERSITY



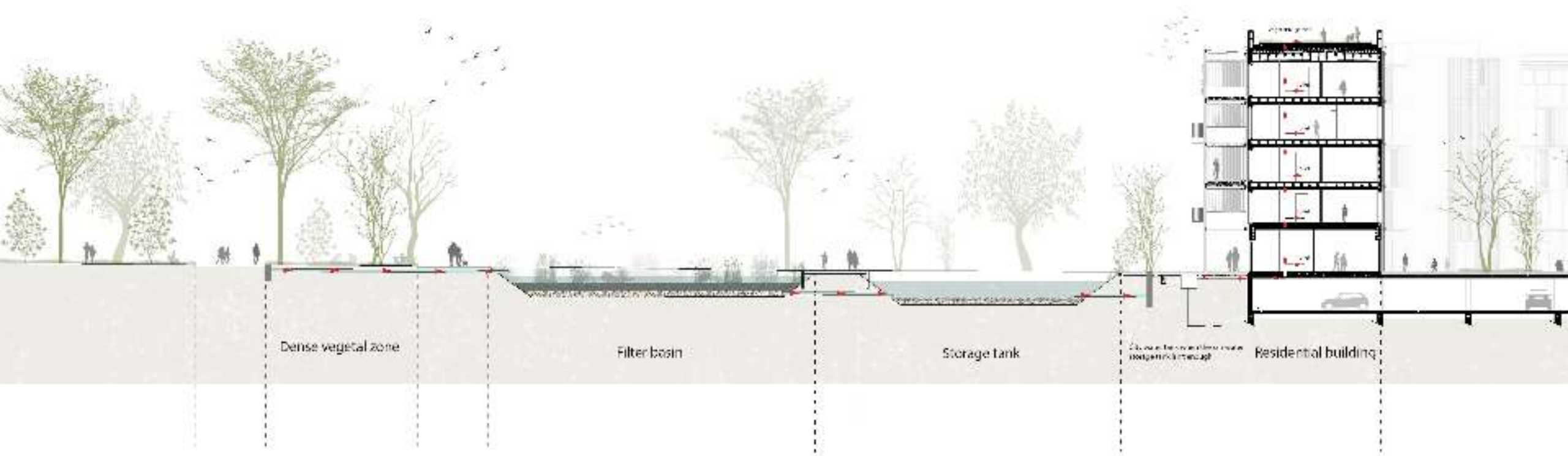


## PHYTOREMEDIATION BASINS





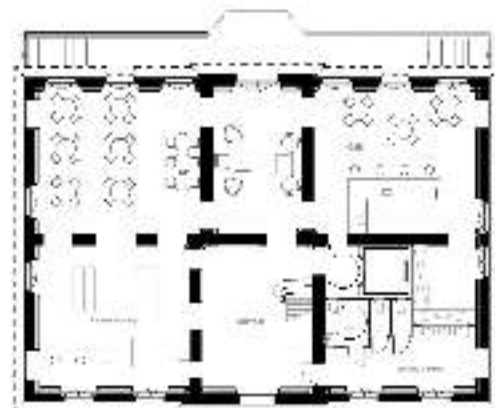
## FILTER BASINS



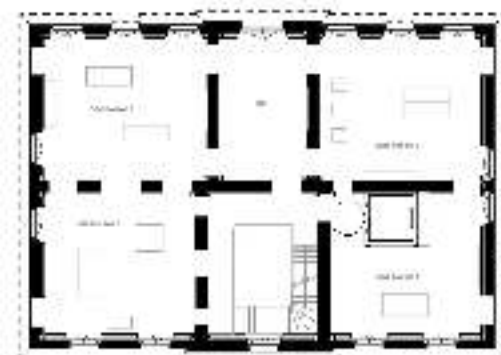




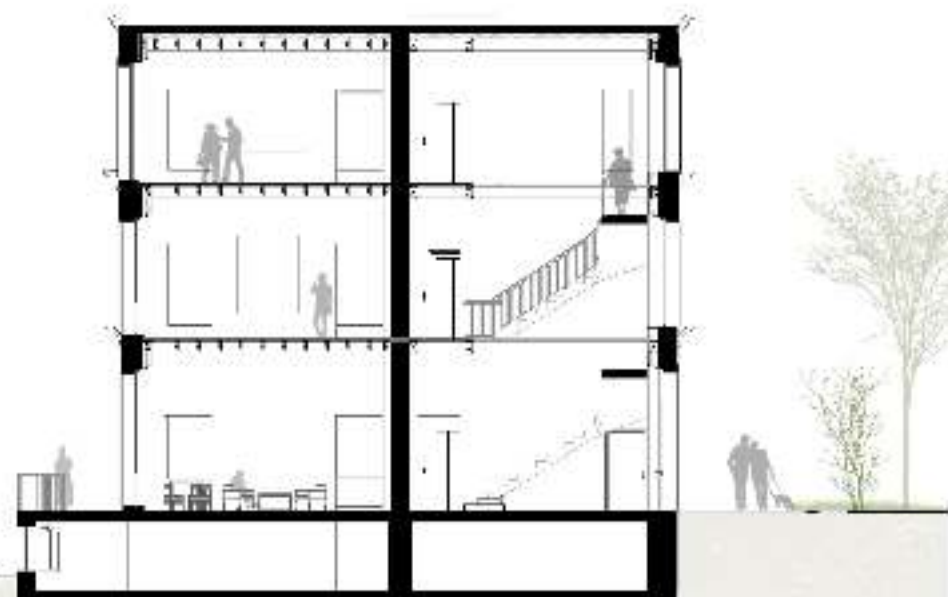
# COIGNET HOUSE



COIGNET HOUSE PLAN  
GROUND FLOOR



COIGNET HOUSE PLAN  
FIRST FLOOR



CROSS-SECTION OF THE COIGNET HOUSE



WEST FACING FACADE OF THE COIGNET HOUSE

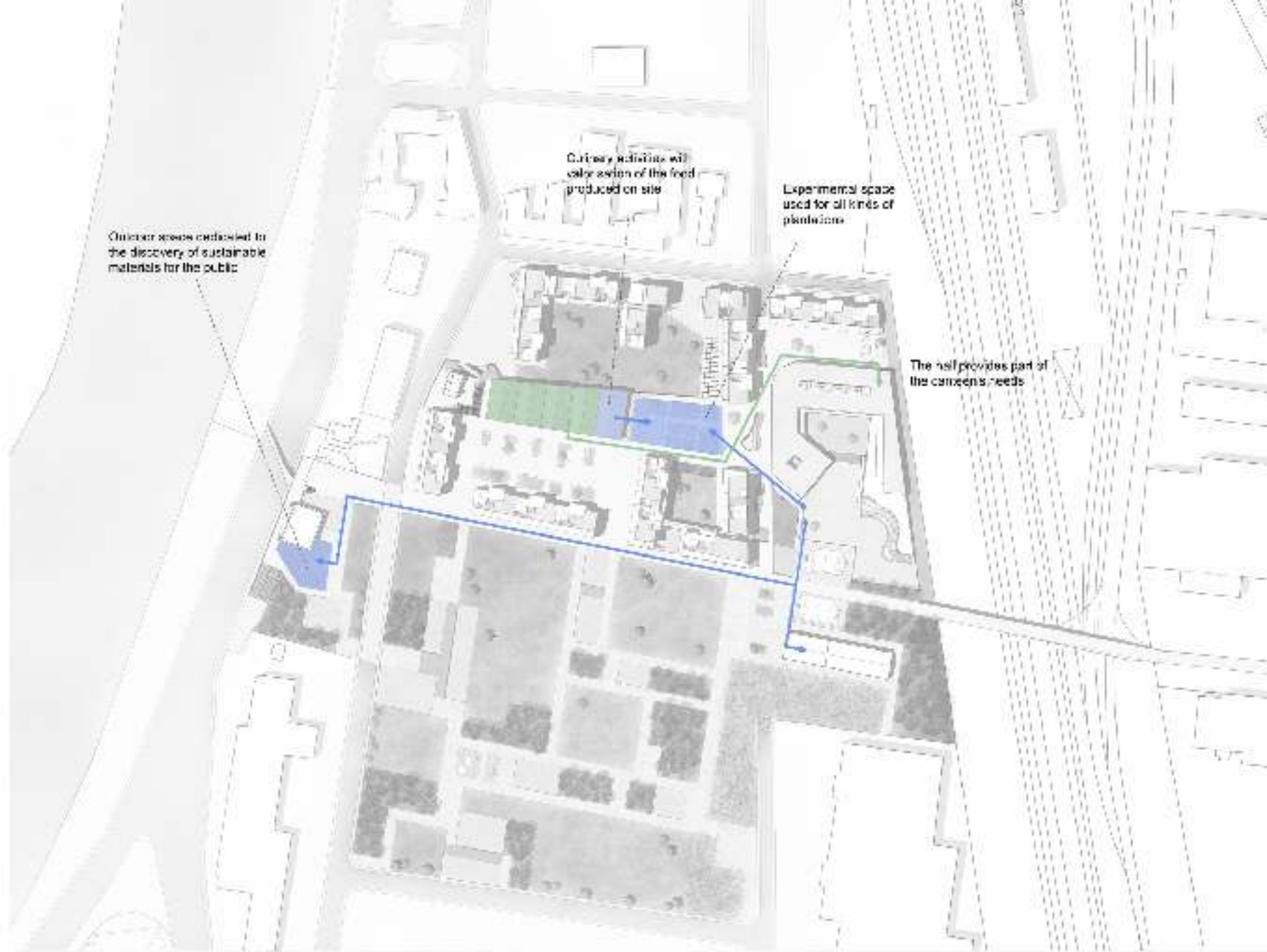








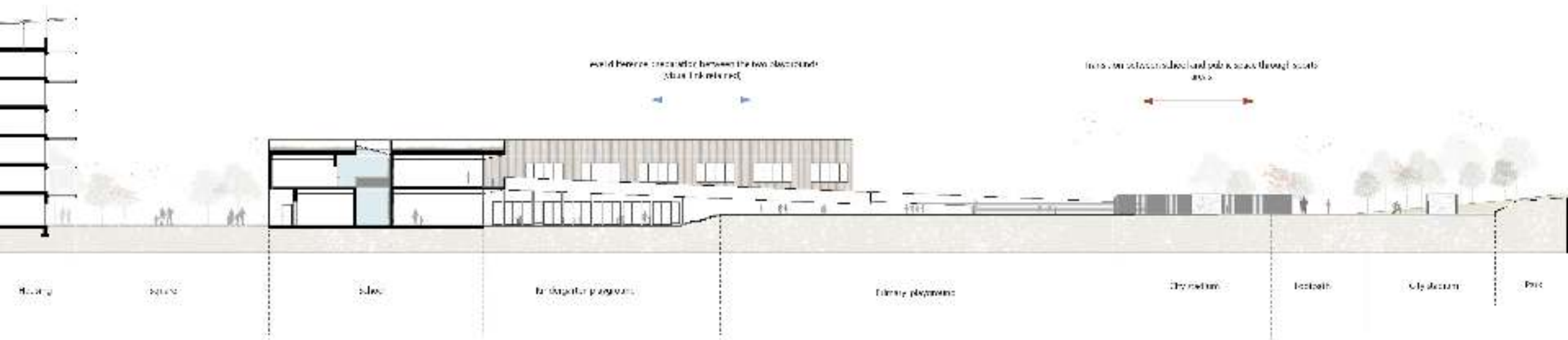
PARTICIPATORY WORKSHOP







# SCHOOL

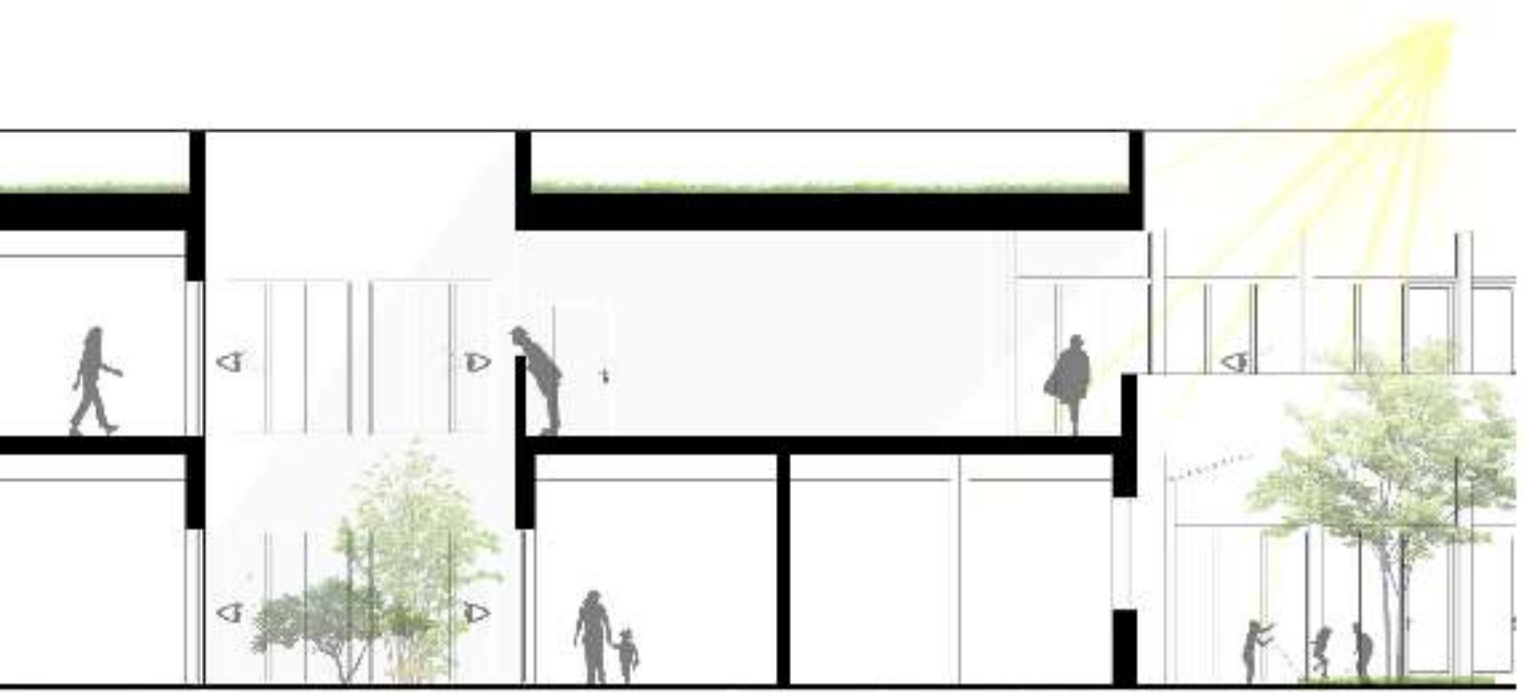


LANDSCAPE CROSS-SECTION BB' - SCHOOL

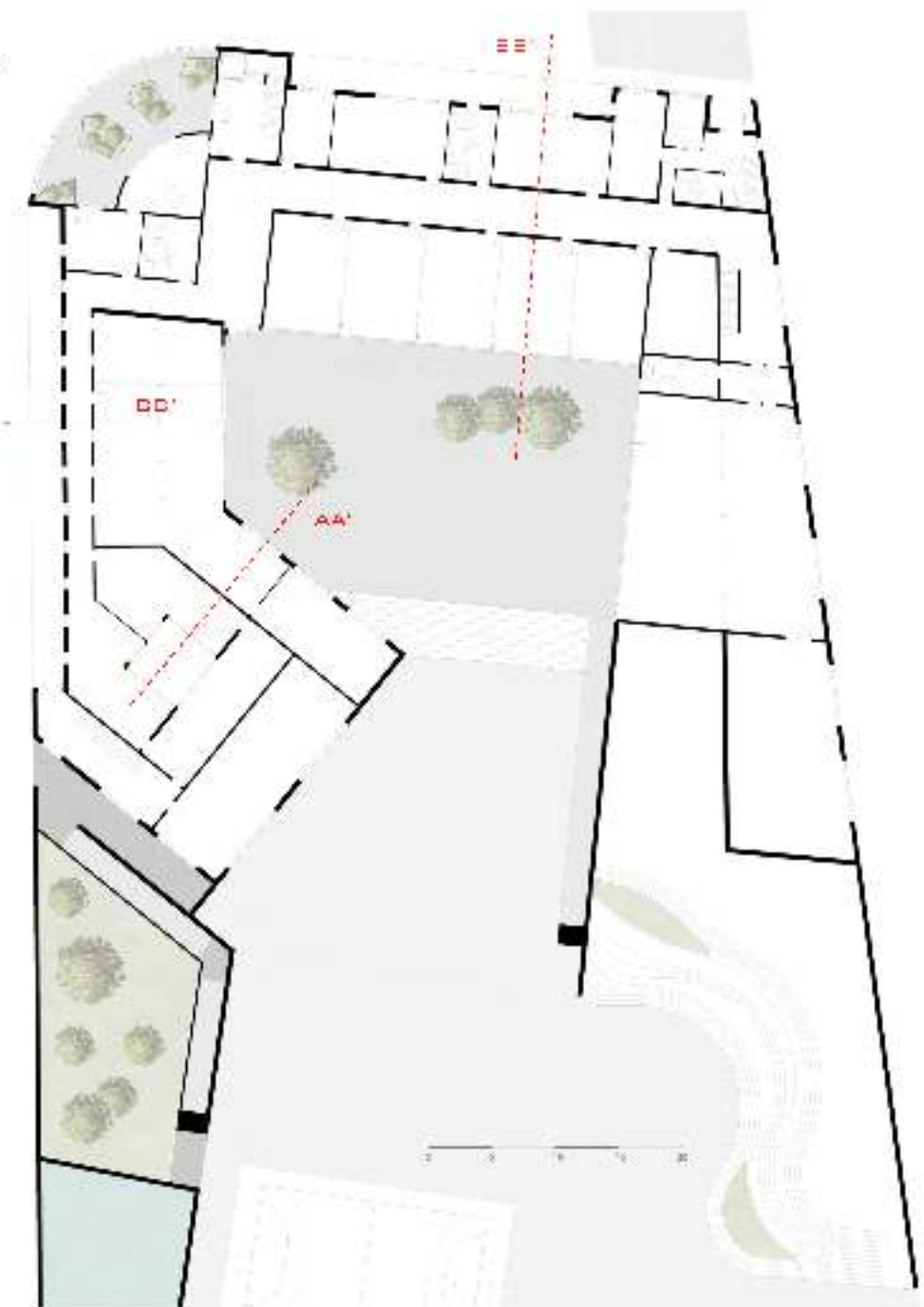
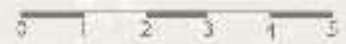


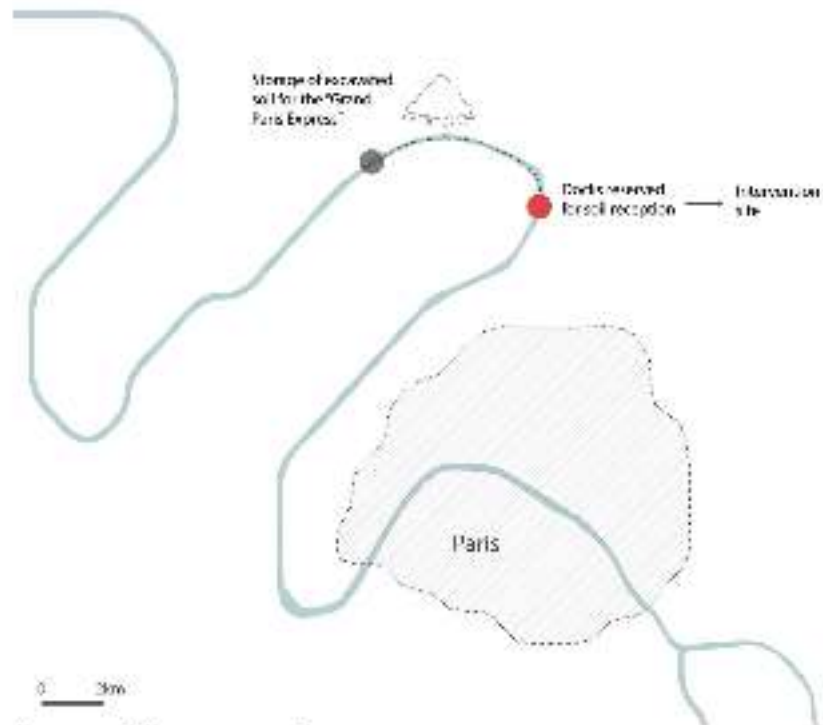
GROUND FLOOR PLAN

LEARNING  
OPEN SPACE  
PLAY OF GLANCES



CROSS-SECTION AA'

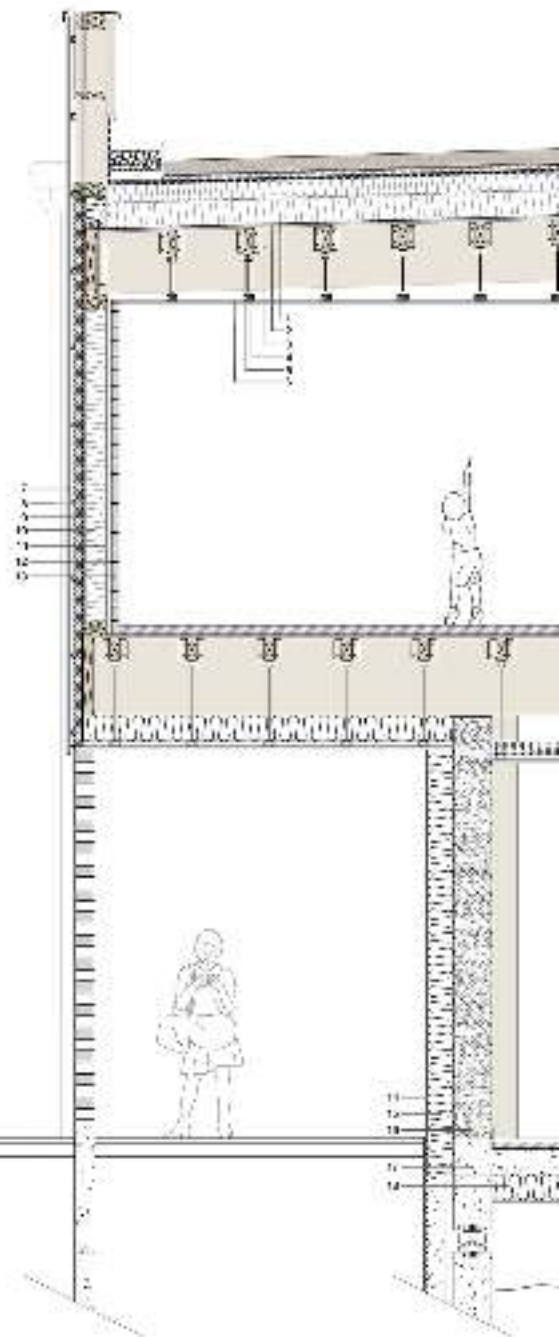




LOCAL MATERIAL DISTRIBUTION

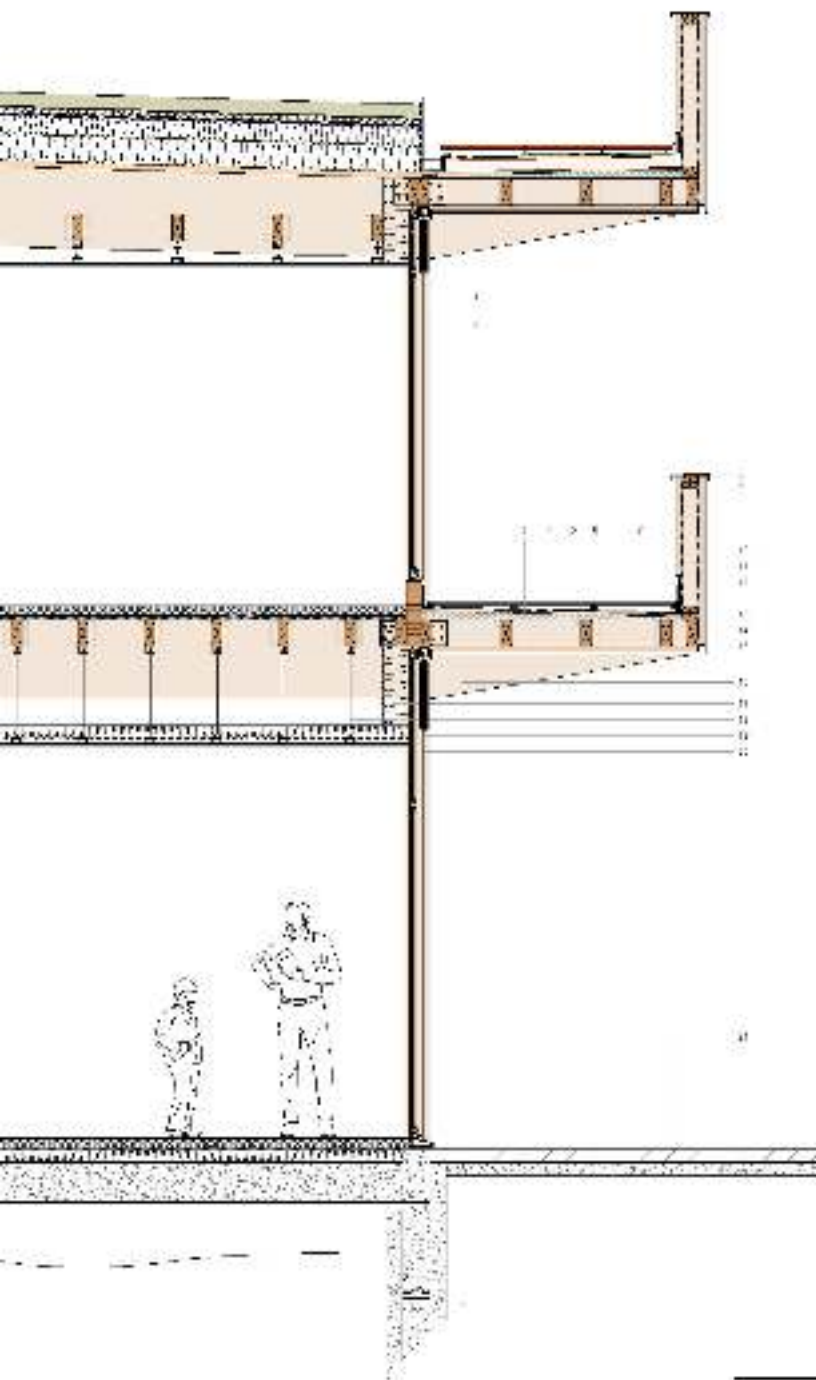
CONSTRUCTION DETAIL  
- EARTH CONCRETE WALL

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1: Steam brake PRO CLIMA - Intello Plus</li> <li>2: OSB Panel - ép. 22 mm</li> <li>3: Laminated timber beam - Scots pine - 450 x 260 mm</li> <li>4: Timber joist - Scots pine - 200 x 75 mm</li> <li>5: Acoustic suspender ISOVER - INTEGRA 2</li> <li>6: Plasterboard BA13 PLACO - ép.12,5 mm (x2)</li> <li>7: Timber cladding Nedlite Cover - 28 mm</li> <li>8: Insulating complex with waterproofing ISOXAT - Multisol Fiberwood 140 - 60 mm</li> <li>9: OSB Panel - 18 mm</li> </ol> | <ol style="list-style-type: none"> <li>10: Wood fiber panel ISOXAT - Multisol Fiberwood 140 - 160 mm</li> <li>11: Vapour barrier ISOVER - Vario Xtrasafe</li> <li>12: Air gap - technical vacuum - 40mm</li> <li>13: Argilech raw earth brick 60X110X220 mm</li> <li>14: Coating webertherm XM - 10 mm</li> <li>15: Wood fiber panel Isolat Multisol Fiberwood 140 - 200 mm</li> <li>16: Earth concrete wall - 300 mm</li> <li>17: Reinforced concrete for foundations and ground floor slab on crawl space - 200 mm</li> <li>18: Wood fiber panel Isolat Multisol Fiberwood 140 - 200 mm</li> </ol> |
|---|--|





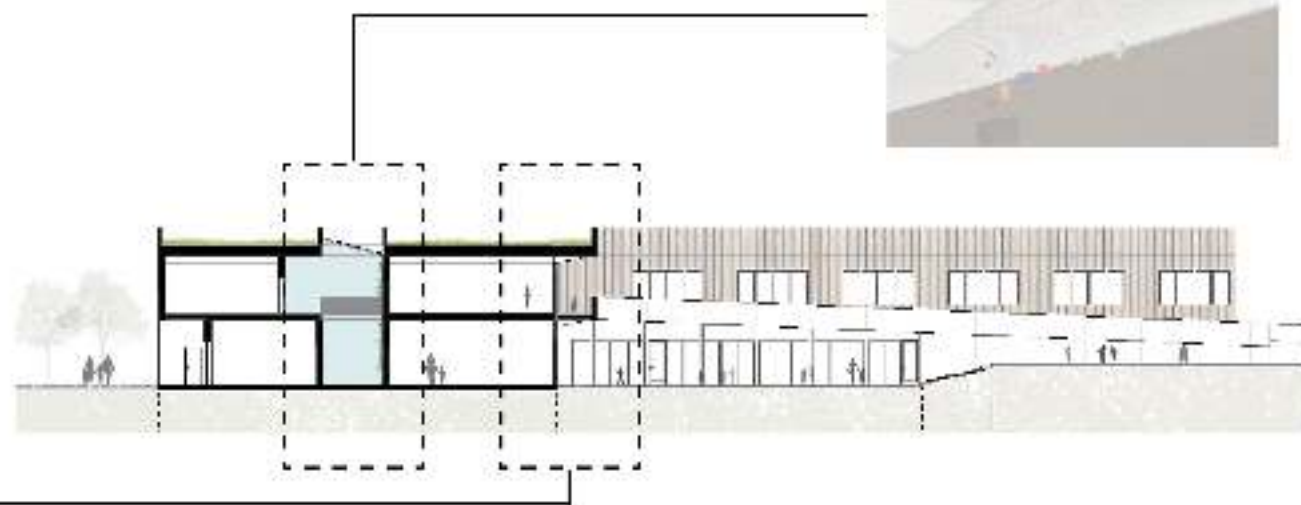
## CONSTRUCTION DETAIL - BB' - SOUTH FACING FACADE



- 1: Wood carpentry Scots pine Accoya + glazing Saint - Gobain Stadip Silence (Triple Glazing) + films SOLAR GARD - Ecolux
- 2: Laminated timber column - Scots pine with saturated colored Blanchon - 20 x 60 mm
- 3: Rafter in billiard cue
- 4: OSB panel - th. 22 mm
- 5: Waterproofing membrane SOPREMA - Mammoth NEO BASE SI
- 6: Terrace tiles support block
- 7: Terrace stone tile - 60 x 60 mm
  
- 8: Aluminium Coving
- 9: High clapboard wall 45 x 120 mm
- 10: Fibro-cement panel EQUITONE Natura - White - th. 12 mm
- 11: Batten with protection band EPDM - 50 x 50 mm
- 12: OSB panel - th. 18 mm
  
- 13: Bottom clapboard - 45 x 120 mm
- 14: Timber joist - 80 x 200 mm
- 15: Anti-insect grid
  
- 16: Laminated timber beam - Scots pine with saturated colored Blanchon - 20 x 60 cm
- 17: Wood fiber panel ISONAT - Multisol Fiberwood 140 - 200 mm
- 18: Acoustic suspender ISOVER - INTEGRA 2
- 19: Laminated timber column - Scots Pine - 20 x 20 cm
- 20: Solar protection with swivel blades
- 21: Pored cork flooring



**Ecophon**  
SAINT-GOBAIN

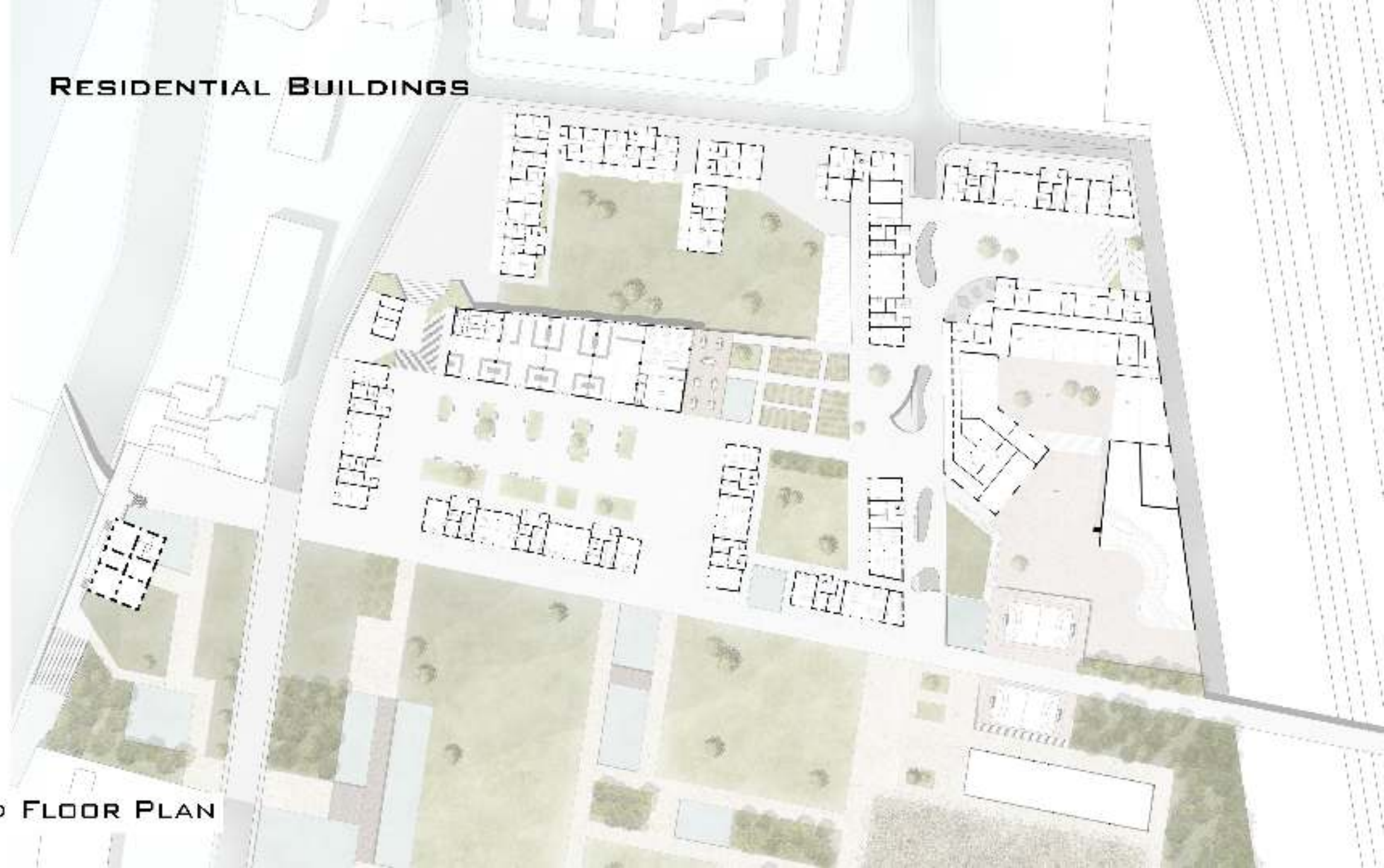






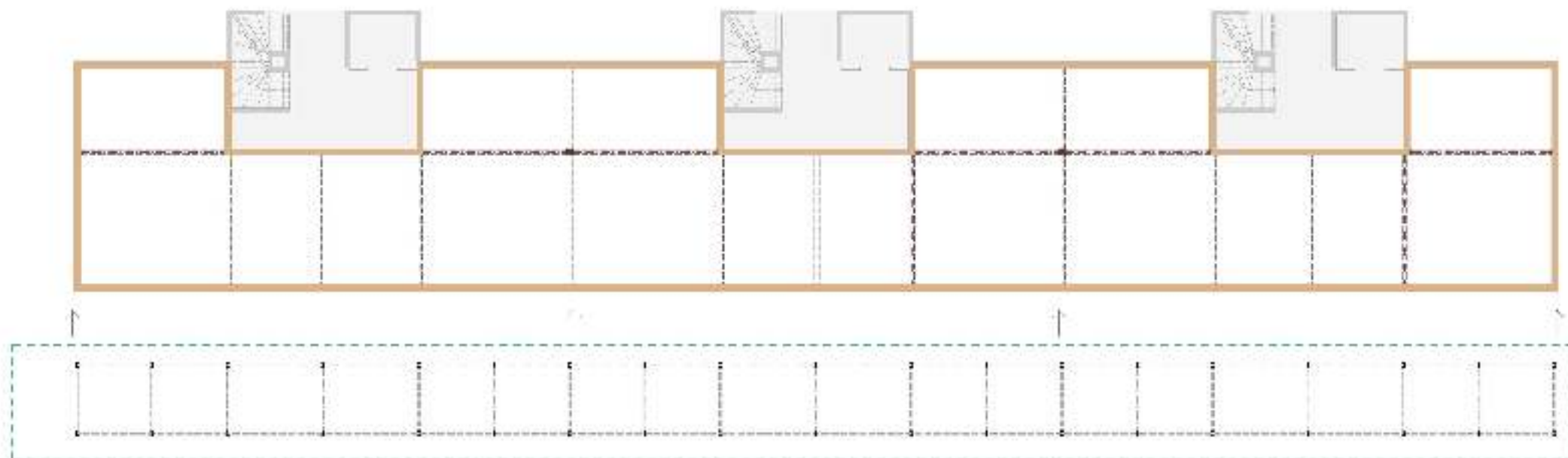







## RESIDENTIAL BUILDINGS



GROUND FLOOR PLAN



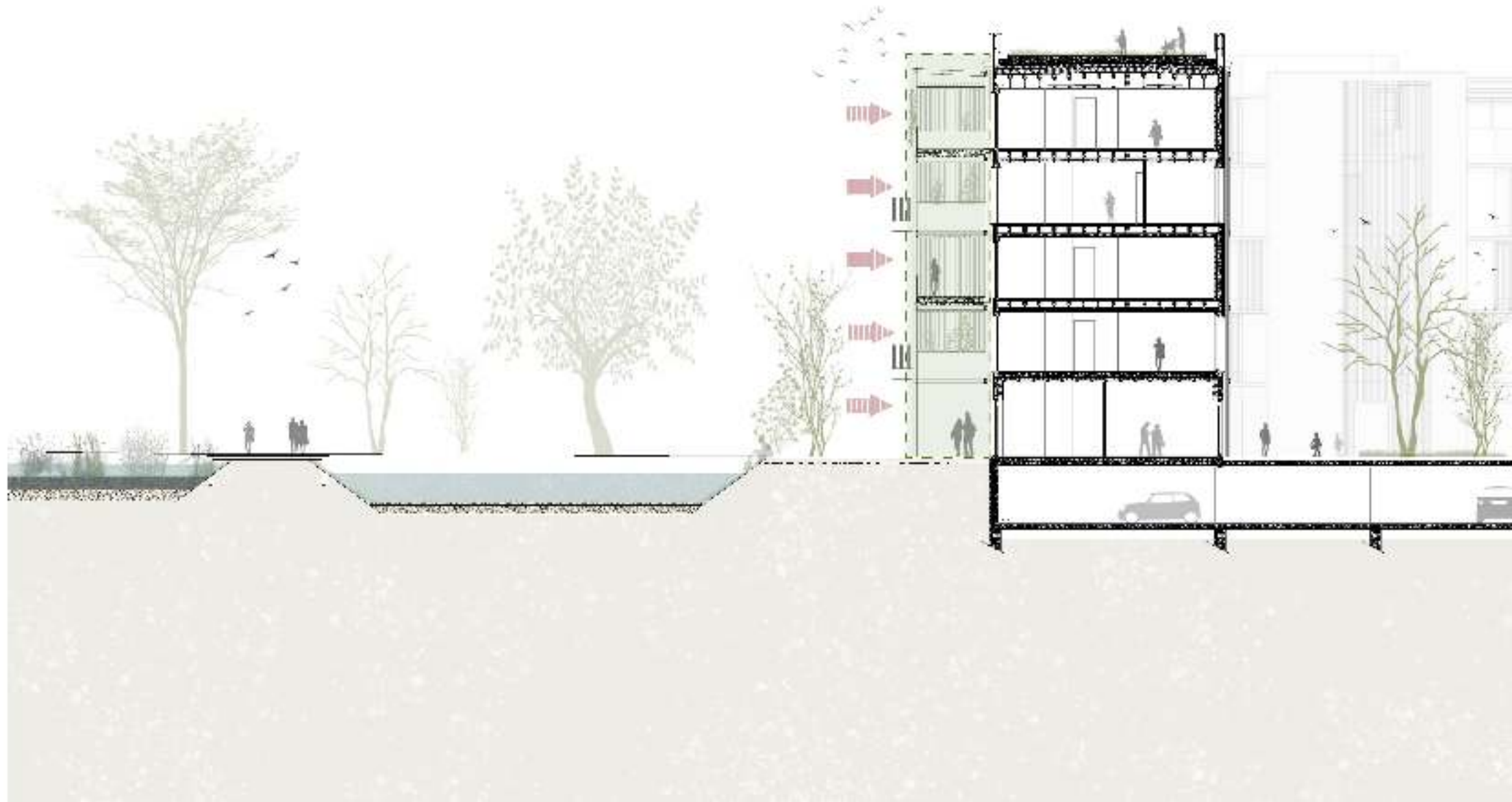


-  Concrete traffic core
-  Wood frame wall
-  Wooden pole
-  Wooden beam
-  Independent steel structure

## STRUCTURAL SYSTEM



# BUFFER SPACE

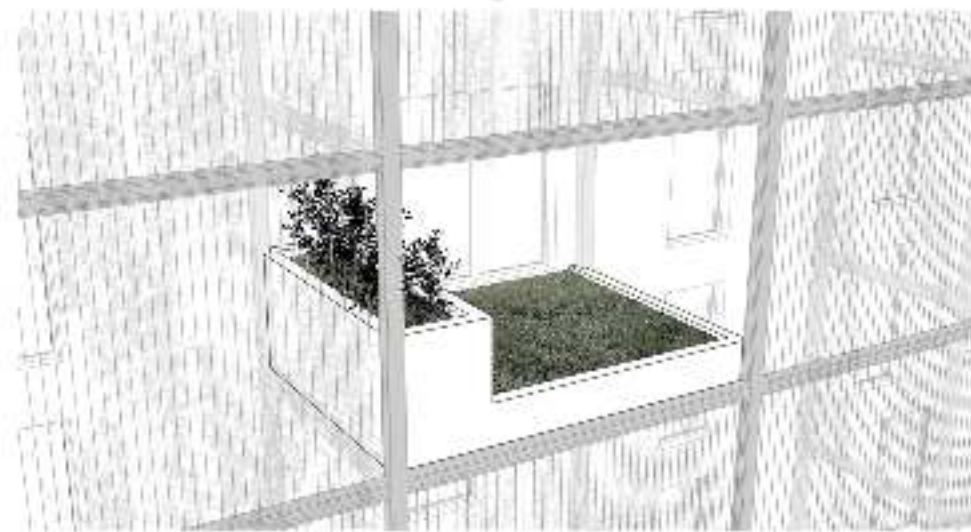
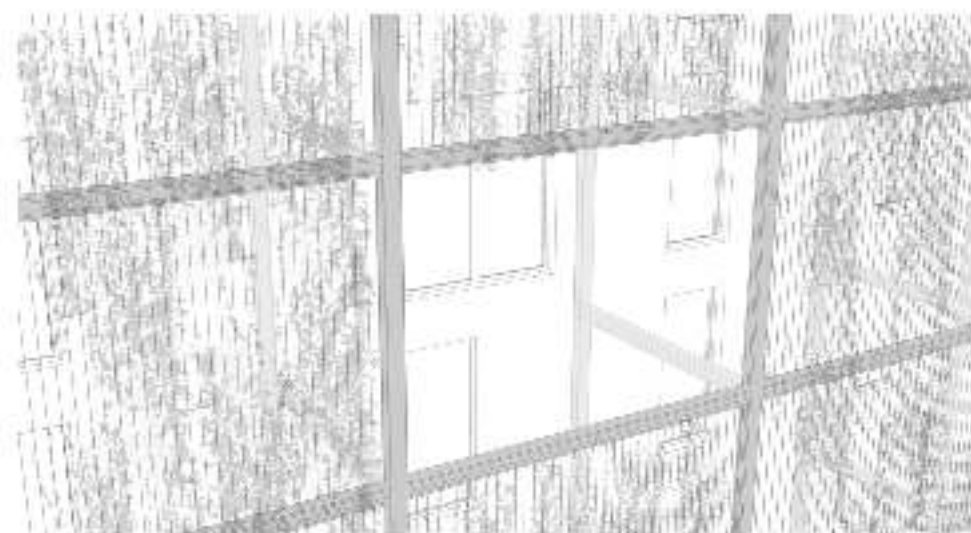
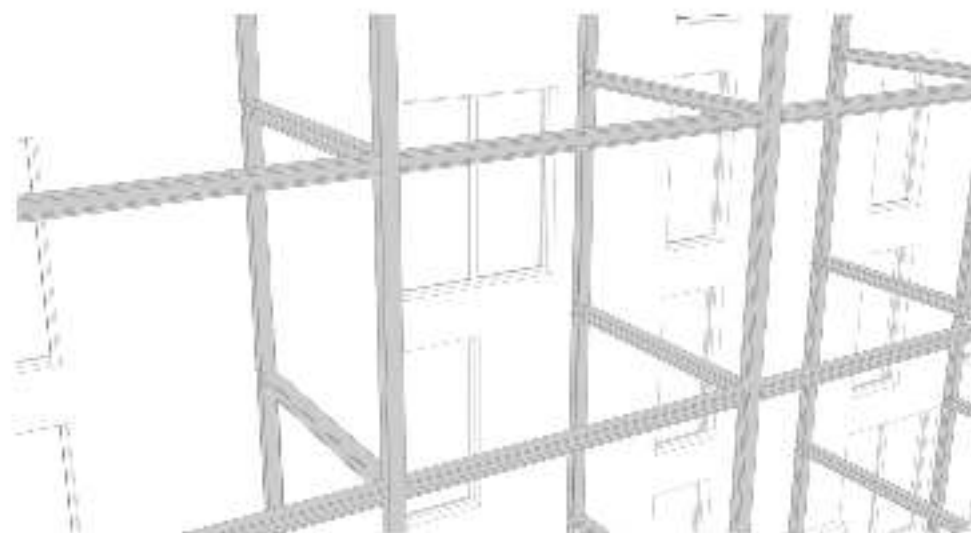


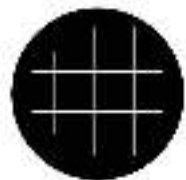


Feel

See

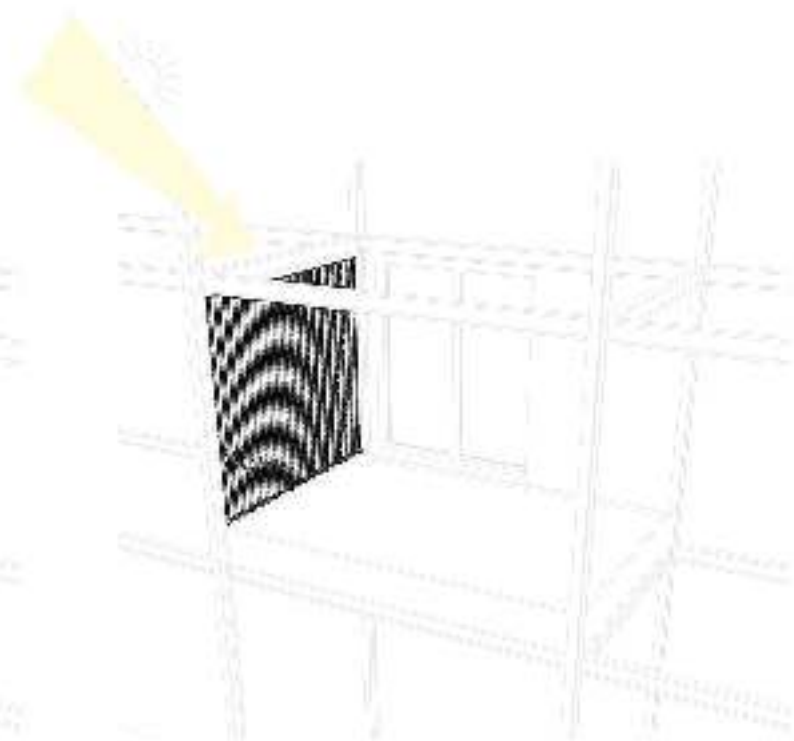
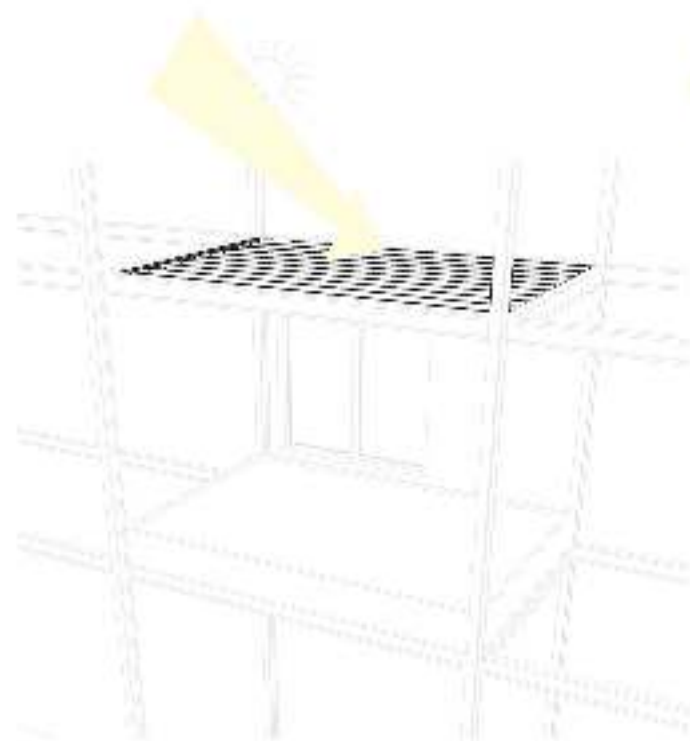
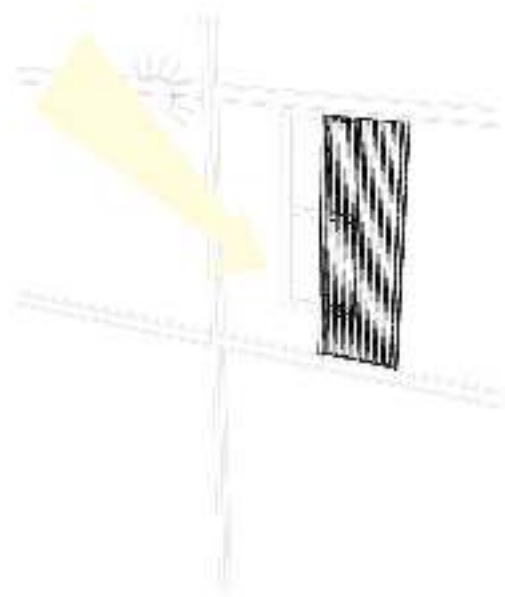
# PRINCIPLE OF THE SURROUNDING STEEL STRUCTURE





Feel

See



TO PROTECT



Edge steel upstand - lacquered white

Prefabricated concrete glass & Planter - Th. 5 cm

Substrate SOPREMA - Sopranature Green

Galvanised steel IPE 180 A

Concrete slab & Steel tray PCB 60 - 130 mm

Concrete worked to make a slope

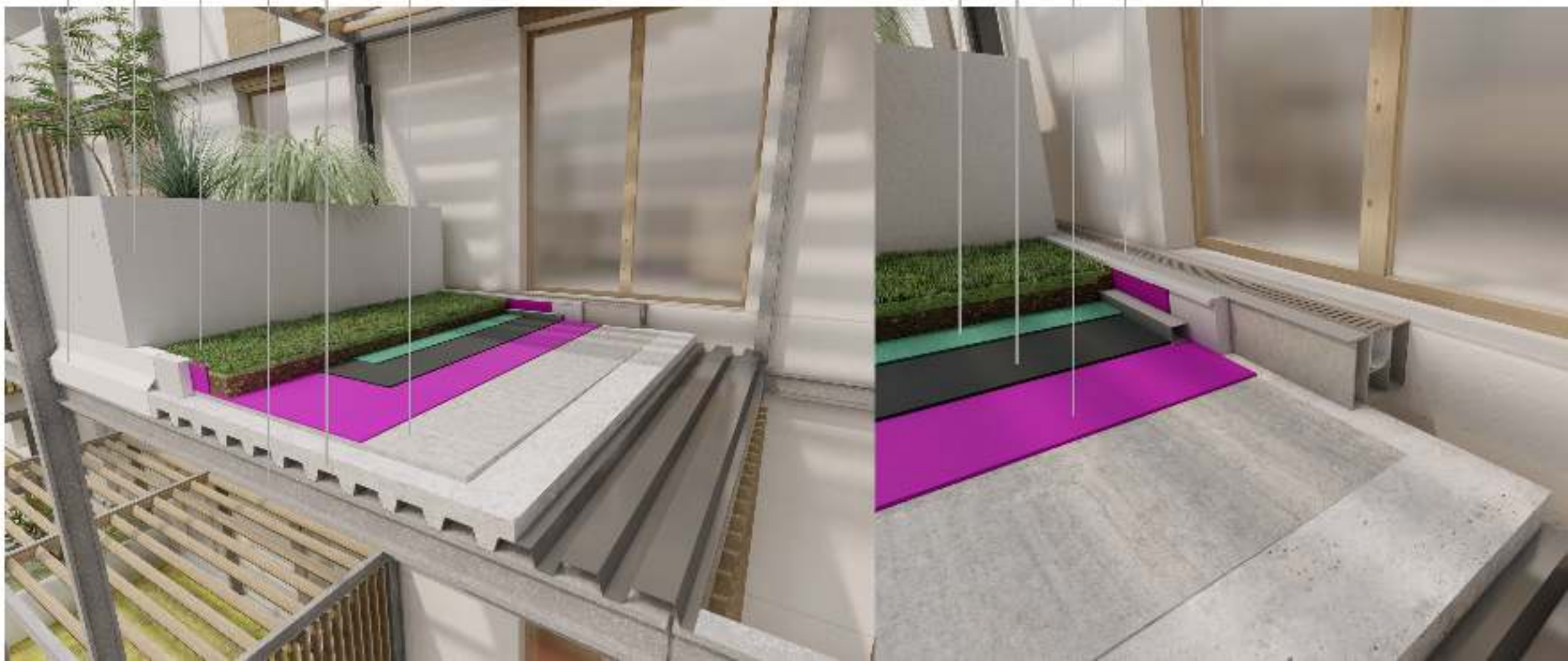
Filter SIPLAST - Gravifiltre

Drain DELTA TERRAXX - Th. 9 mm

Geotextile & Waterproofing membrane  
SOPREMA - Sopralen

Terrace gutter

Wood carpentry soots pine accoya  
- Glazing Saint Gobain Stadip Silence  
(triple glazing)







SHARED SPACE





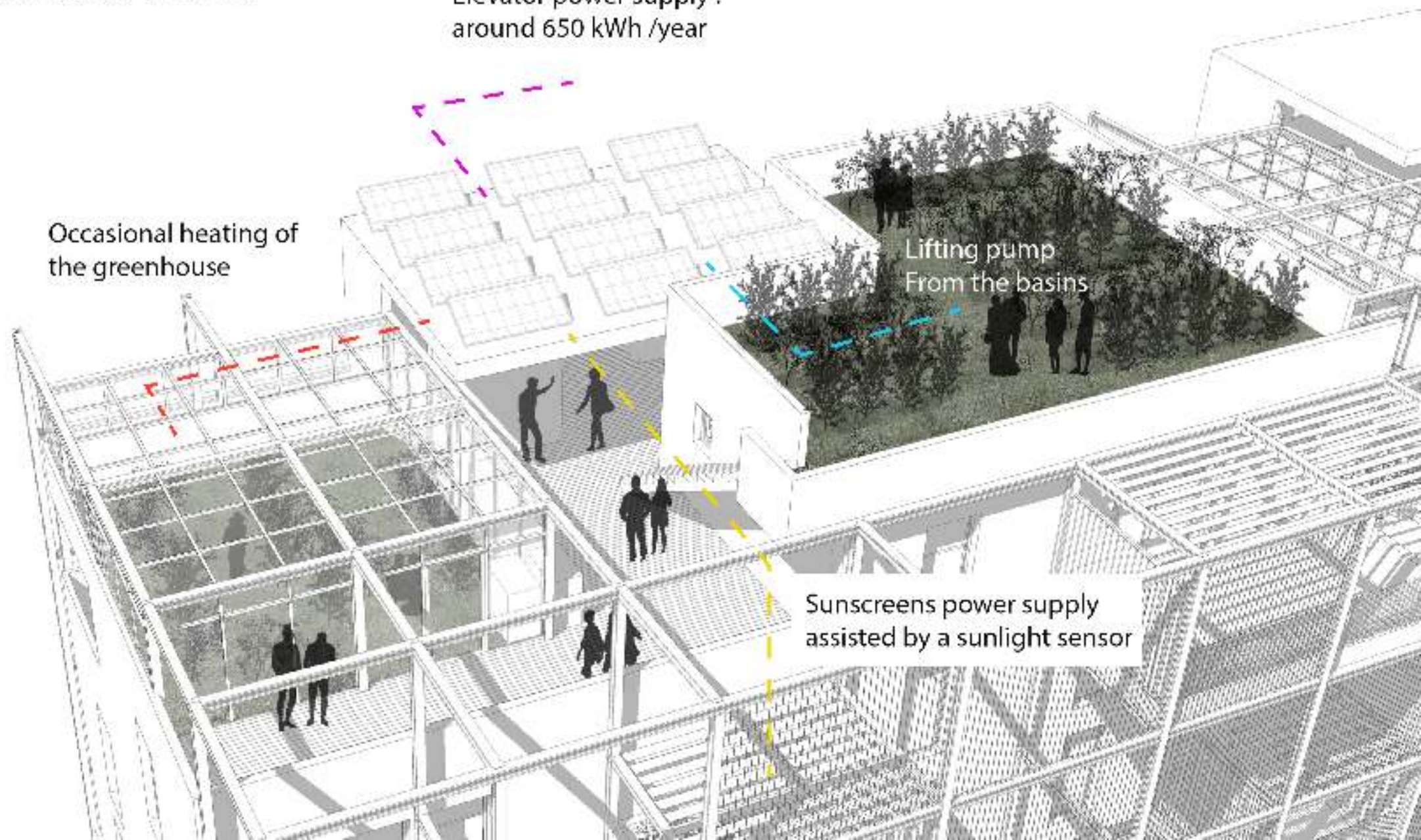
## SOLAR SYSTEM

Elevator power supply :  
around 650 kWh /year

Occasional heating of  
the greenhouse

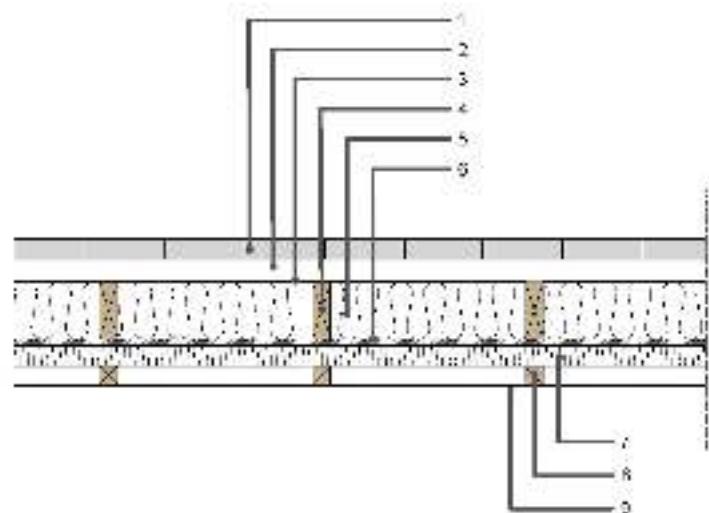
Lifting pump  
From the basins

Sunscreens power supply  
assisted by a sunlight sensor





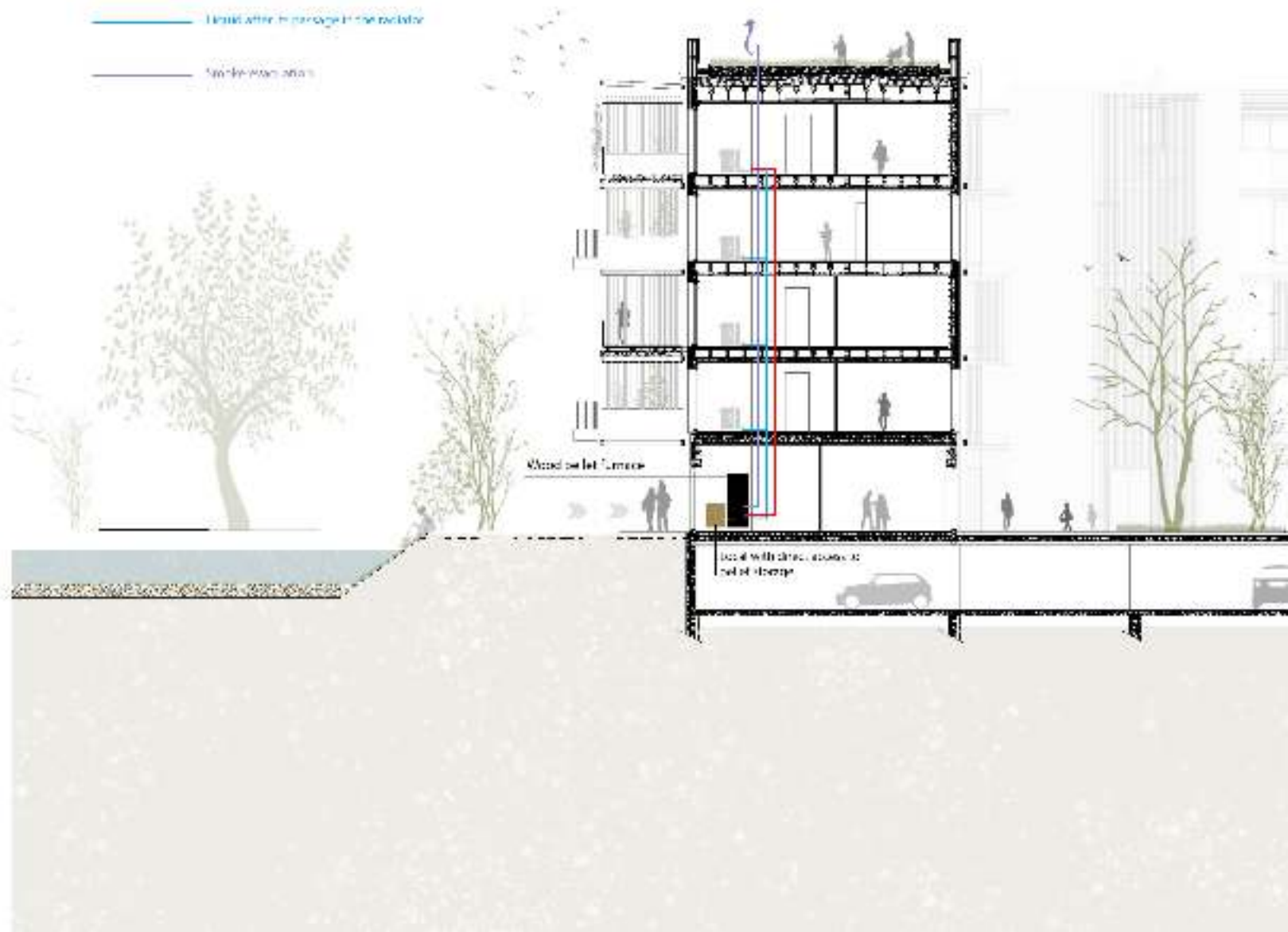
## CONSTRUCTION DETAIL EXTERIOR WALL



- 1: Raw clay brick ARGILUS - 60 x 110 x 220 mm
- 2: Air gap - Technical vacuum
- 3: Vapour barrier ISOVER - Vario Xtrasafe
- 4: Wood studs - 58 x 160 mm
- 5: Wood fiber panel ISONAT - Multisol Fiberwood 140 - 160 mm
- 6: Stressed OSB panel - th. 18 mm
- 7: Insulating complex with waterproofing ISONAT - Multisol Fiberwood 140 - 60mm
- 8: Batten with protection band EPDM - 50 x 50 mm
- 9: Fibro-cement panel EQUITONE Natura - white - th. 12 mm

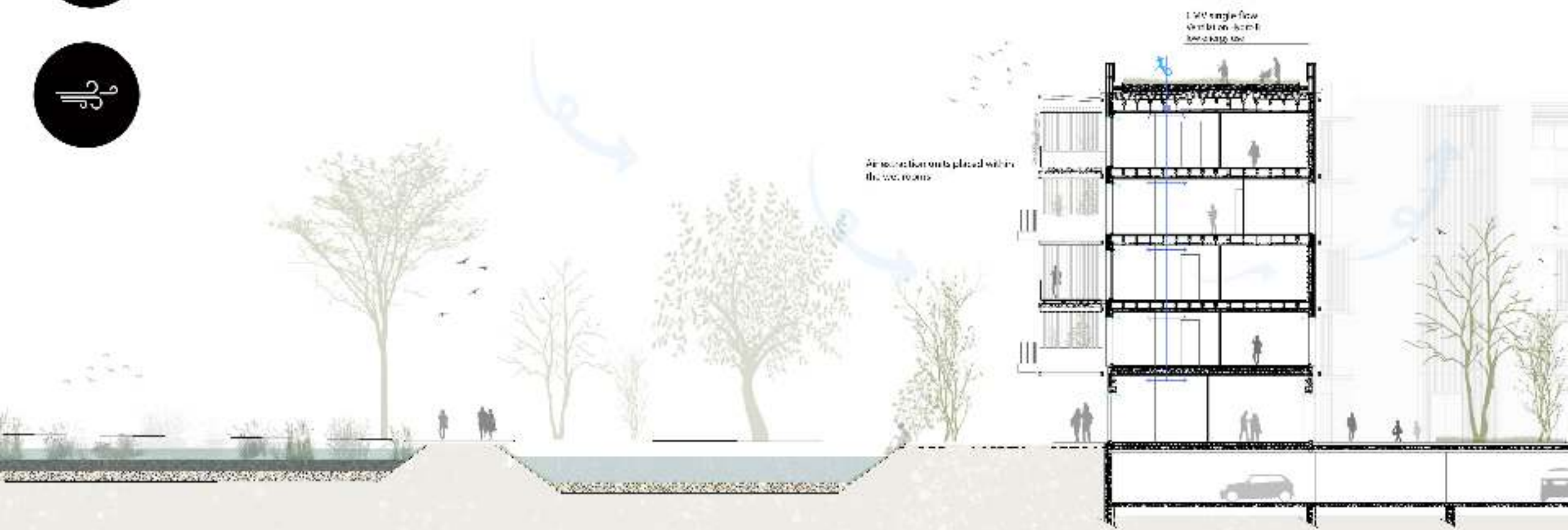
## HEATING SYSTEM

- Floor slab in build
- Heating water in passage in the radiator
- Heating water return





# VENTILATION SYSTEM



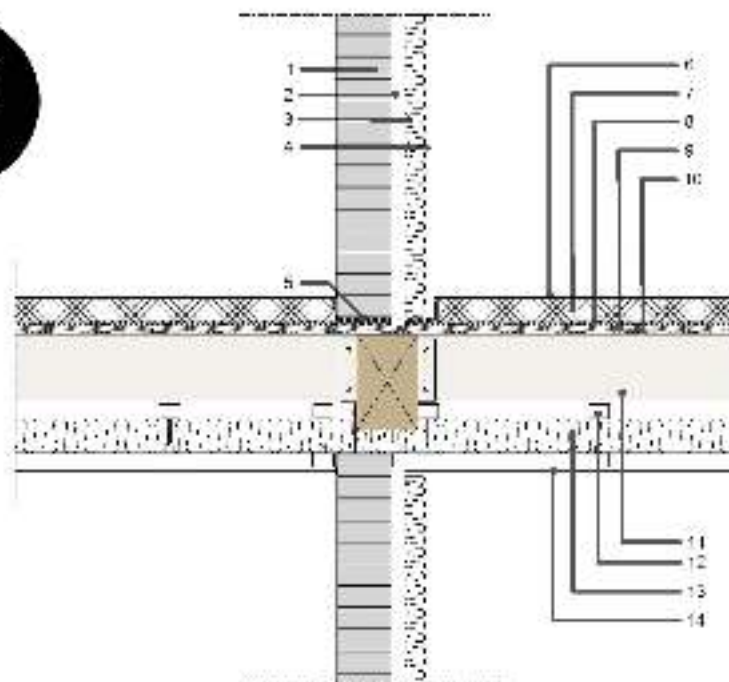


## CONSTRUCTIVE DETAIL PARTY WALL



## ACOUSTIC SYSTEM

Hear



- 1: Raw clay brick ARGILUS - 60 x 160 x 220 mm
- 2: Air gap - Technical vacuum
- 3: Acoustic insulation ISONAT - FLEX - 60 mm
- 4: Plasterboard BA13 PLACO - th. 12,5 mm (x2)
- 5: Resilient tape STEICO - Phaltex - th. 19 mm
- 6: Flooring FORBO - Marmoleum Décibel - th. 3,5 mm
- 7: Traditional mortar screed - 70 mm
- 8: Wood fiber resilient undercoat STEICO - Phaltex - th. 10 mm
- 9: OSB panel - th. 18 mm
- 10: Resilient tape STEICO Phaltex - th. 10 mm
- 11: Timber joist - 200 x 50 mm
- 12: Acoustic suspender ISOVER - INTEGRA 2
- 13: Wood fiber panel ISONAT - Multisol Fiberwood 140 - 100 mm
- 14: Plasterboard BA13 PLACO - th. 12.5 mm (x2)



Plasterboard PLACO - Two layers of BA 13: Rw 50 dB

Acoustic insulation ISONAT - FLEX 60 mm

Air gap - Technical vacuum - 40 mm

Raw clay brick ARGITECH - 160 mm: Rw 40 dB



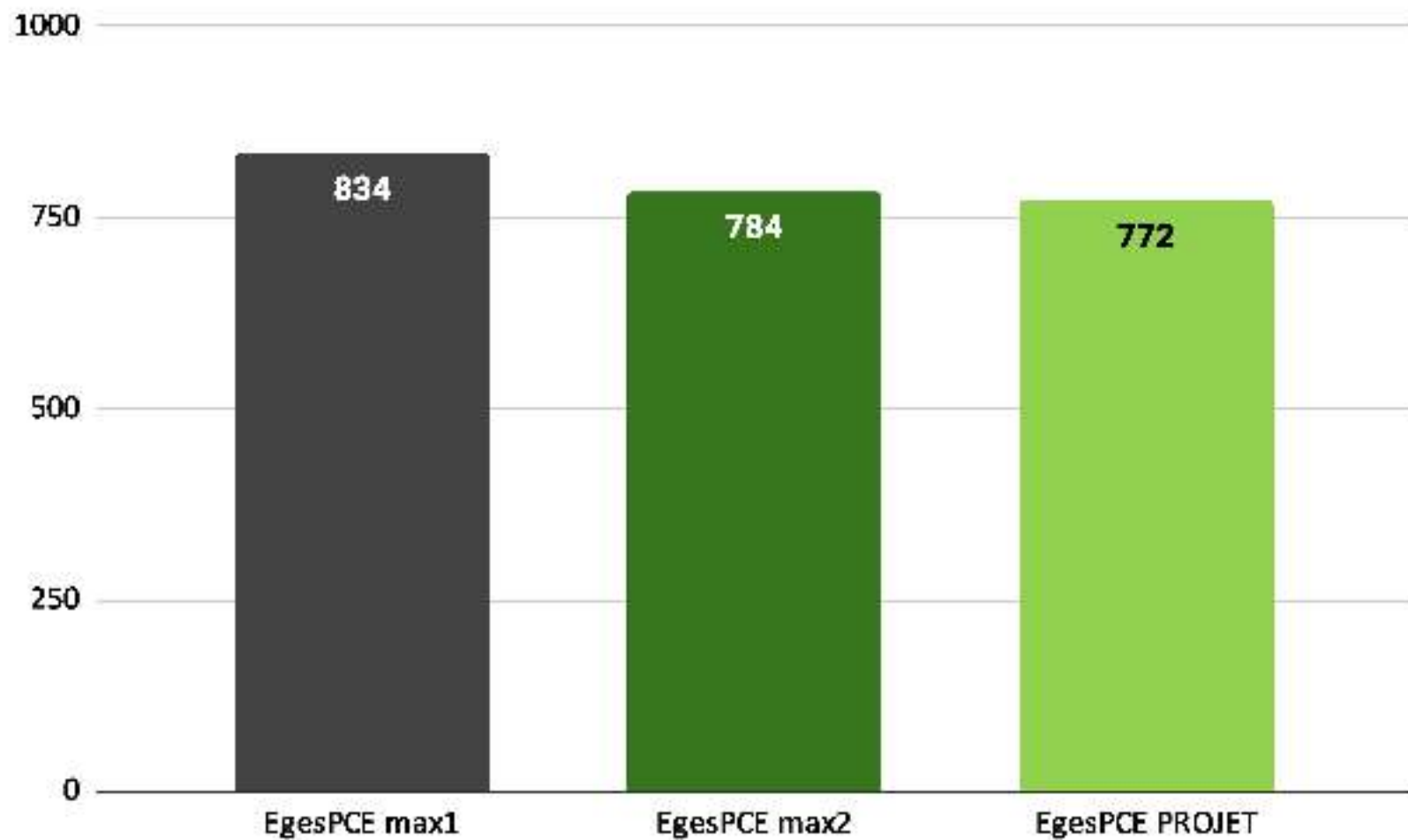
Greenroof: noise attenuation index > 30 db

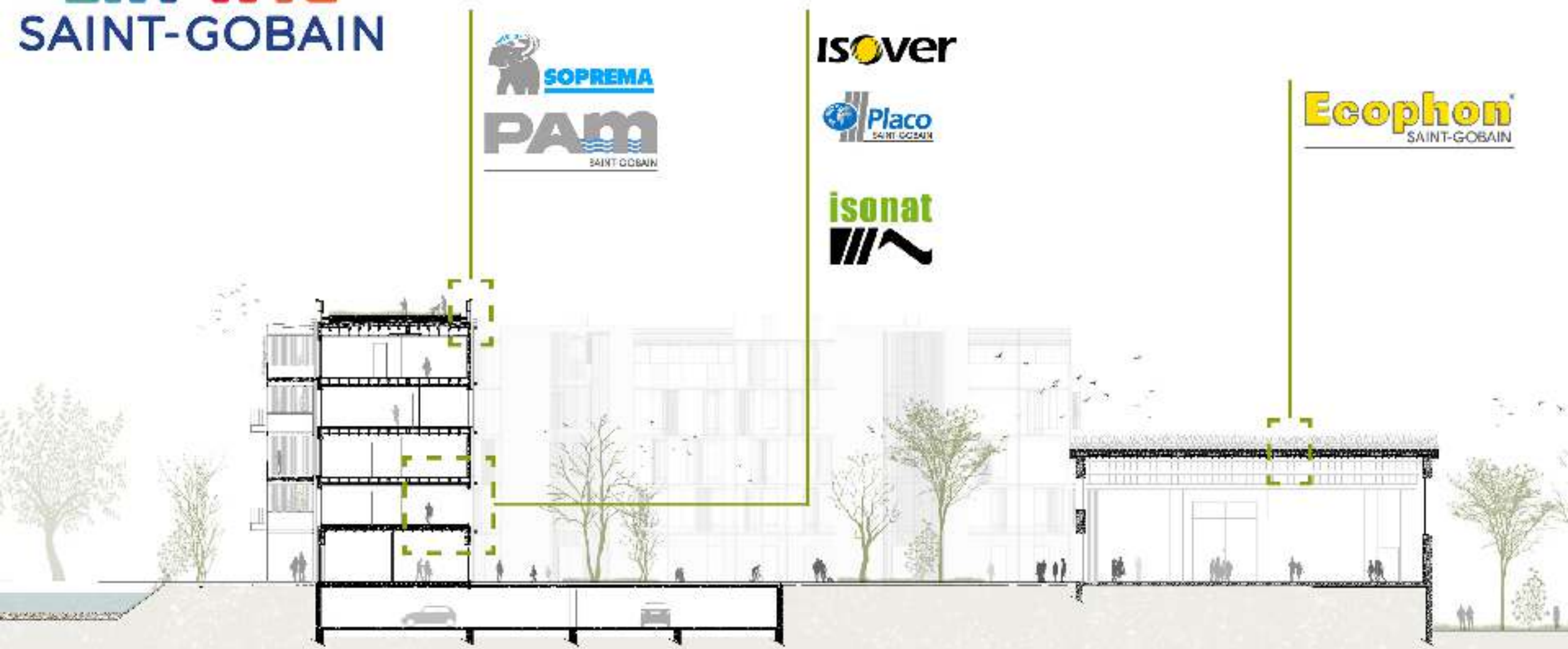
Facade wall: noise attenuation index > 30 db

Interstorey floor: with acoustic treatment noise attenuation index > 58 db



## CARBON IMPACT PCE







THANK YOU FOR YOUR ATTENTION !

