

THE TU DELFT KNOWLEDGE CENTER

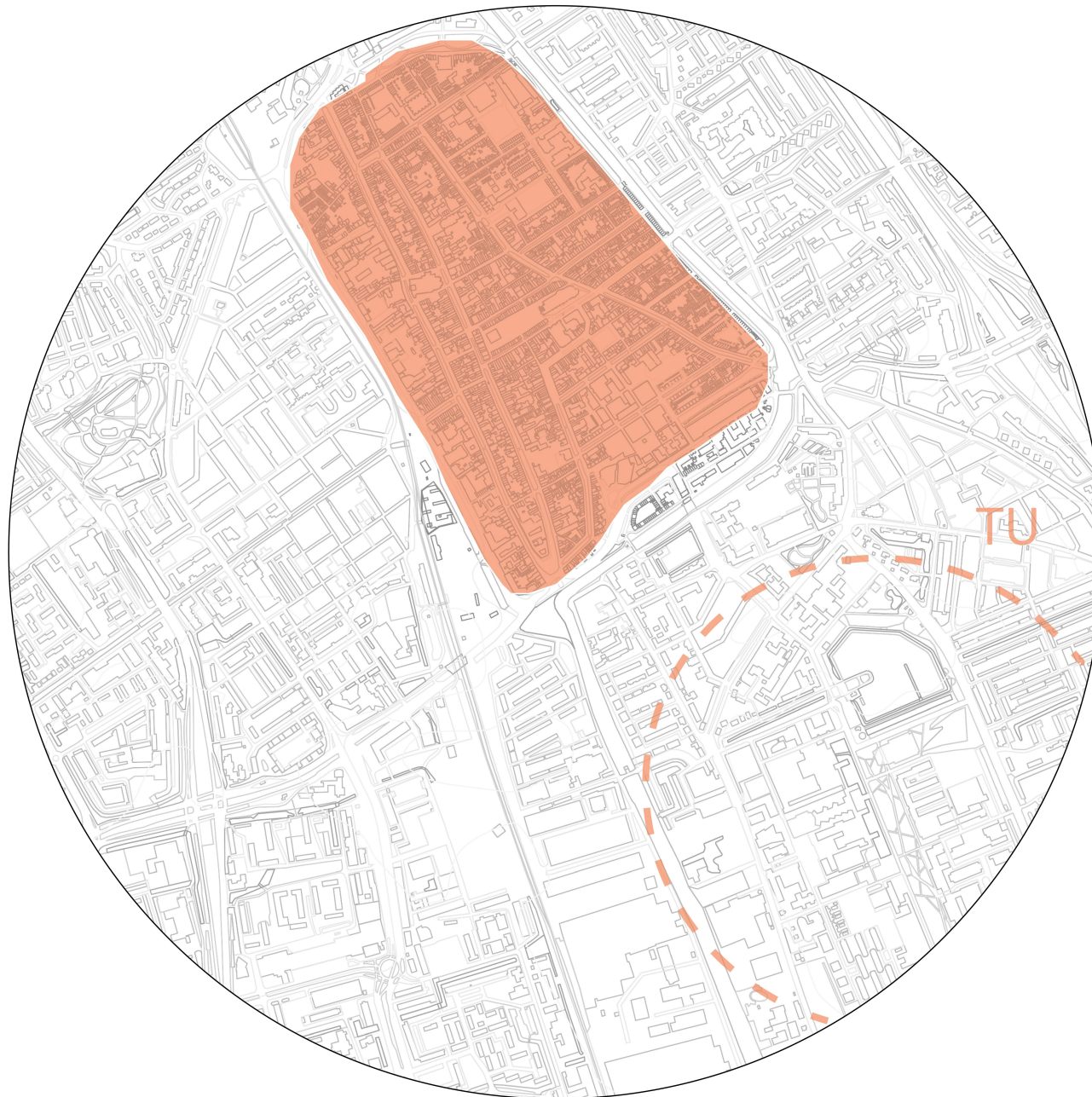
Felicia Hompus 4216210

THE URBAN INSTITUTION



EXPERTISE

THE UNIVERSITY AND THE CITY



RESEARCH QUESTIONS

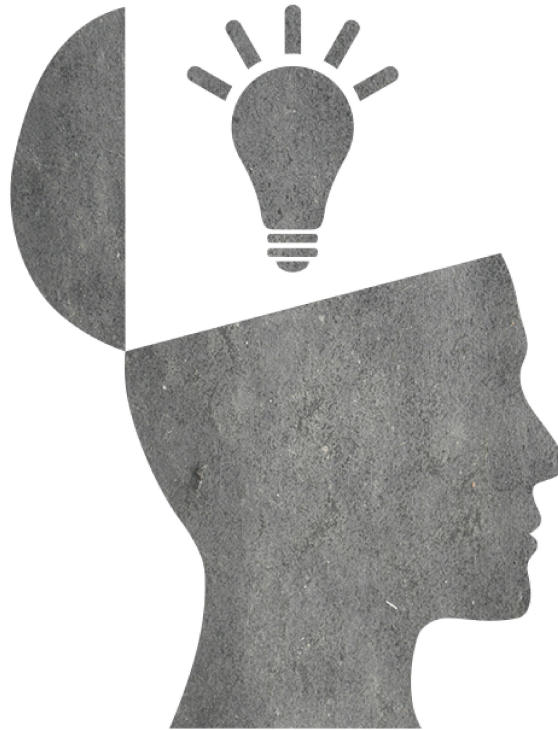
-
- HOW CAN THE SOCIAL RELATIONSHIP OF THE UNIVERSITY AND ITS CITY BE IMPROVED?
 - HOW CAN THE UNIVERSITY COLLECTIONS AND THE ARCHITECTURE OF THIS TO BE DESIGNED INSTITUTE CONTRIBUTE TO THAT?

THE UNIVERSITY COLLECTIONS

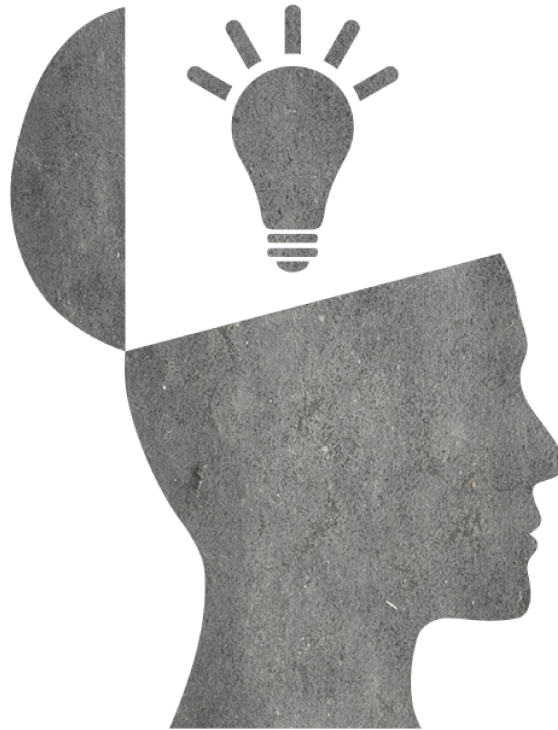


OPPORTUNITY TO SHOW THE TU DELFT UNIVERSITY TO THE PUBLIC
PLACE WHERE EVERYONE WILL FEEL AT HOME

SHARING KNOWLEDGE AND INTERDISCIPLINARY COLLABORATION



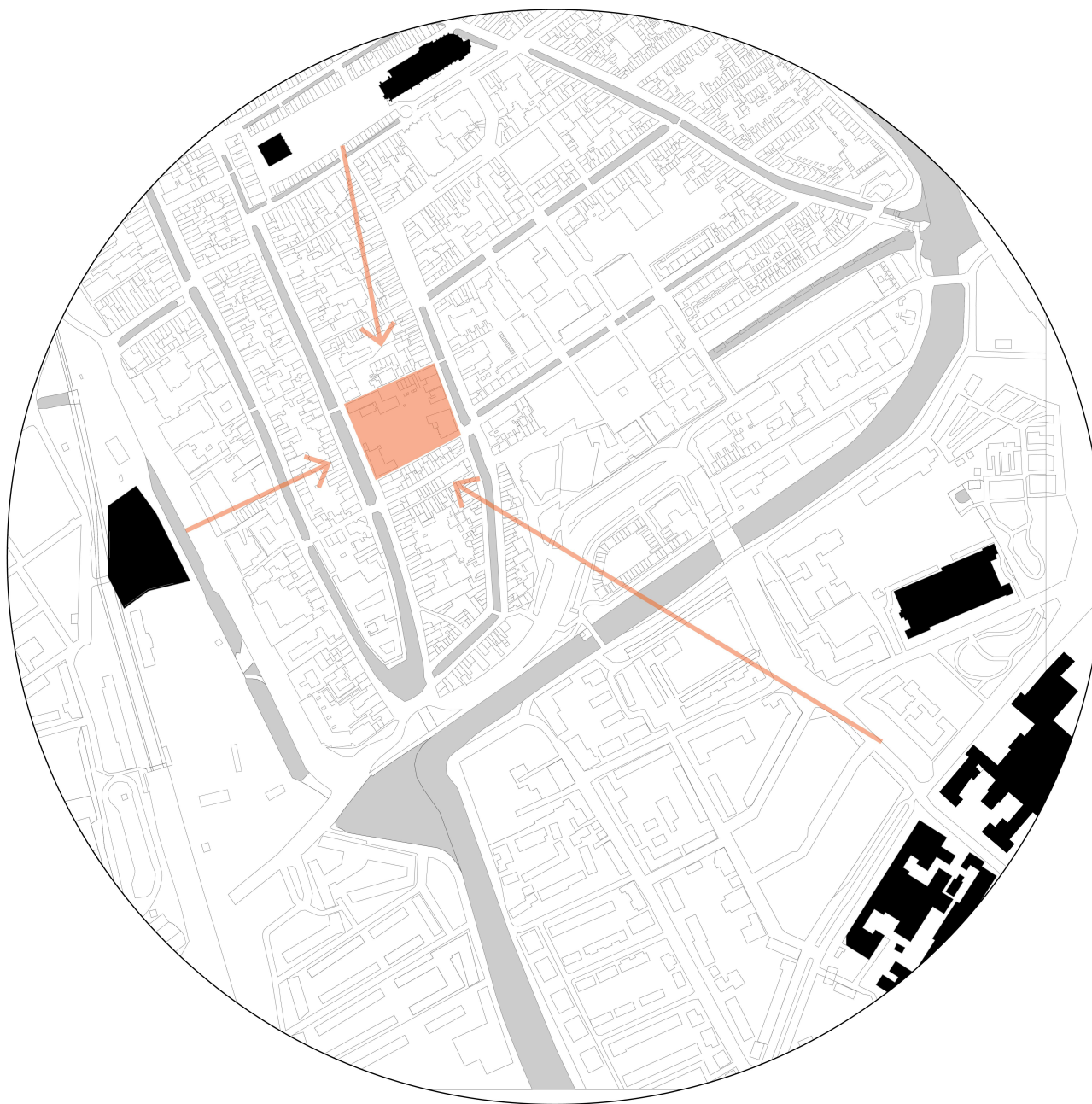
SHARING KNOWLEDGE AND INTERDISCIPLINARY COLLABORATION



- INFORMAL MEETING SPACE
- DETERMINING A SPECIFIC TOPIC OF KNOWLEDGE

KNOWLEDGE CENTER FOR SUSTAINABLE INNOVATION

CENTRAL LOCATION



IMPORTANT PASSAGEWAY



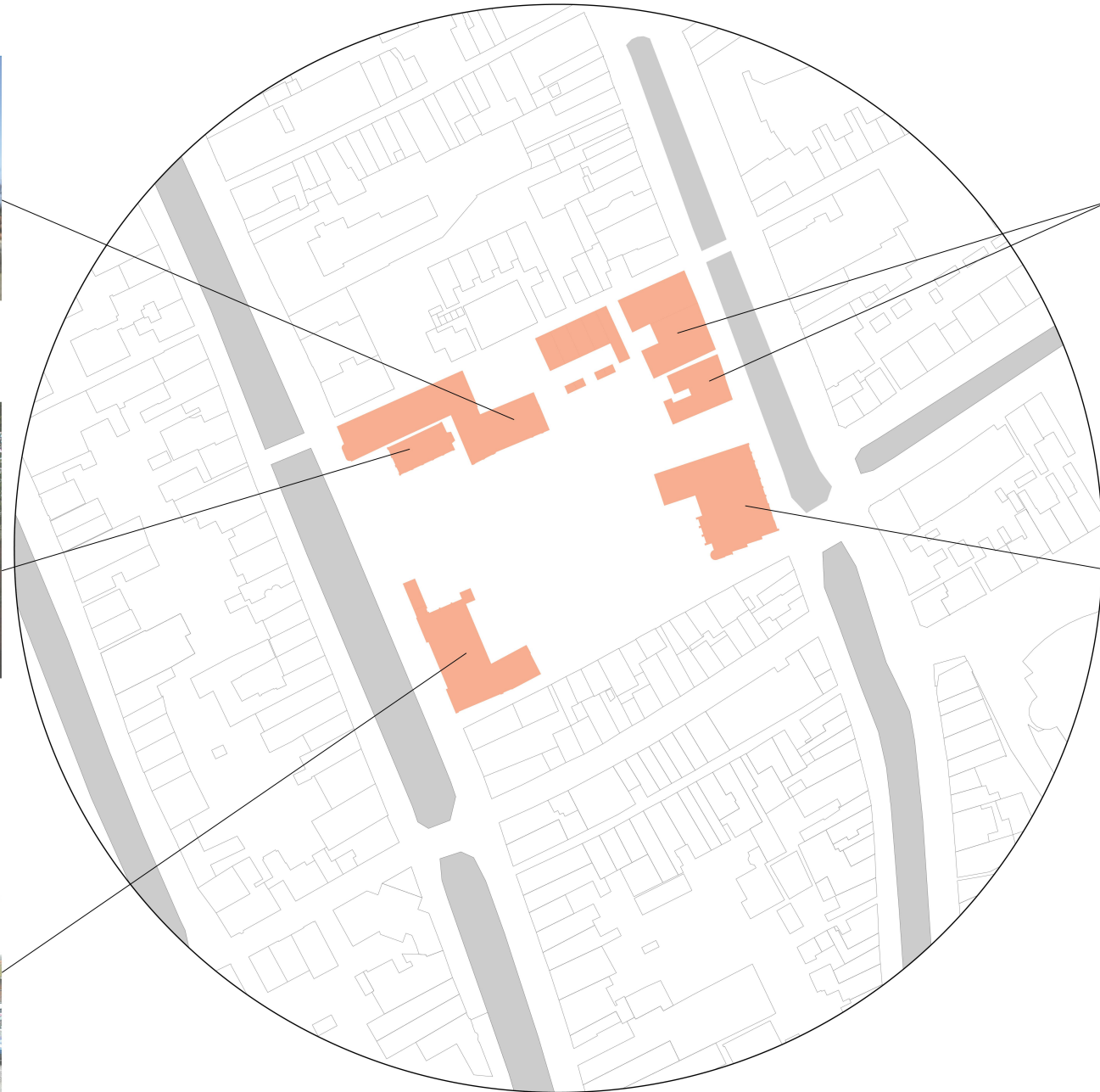
CANALS



COLLECTION OF BUILDINGS



COLLECTION OF BUILDINGS



SEQUENCE

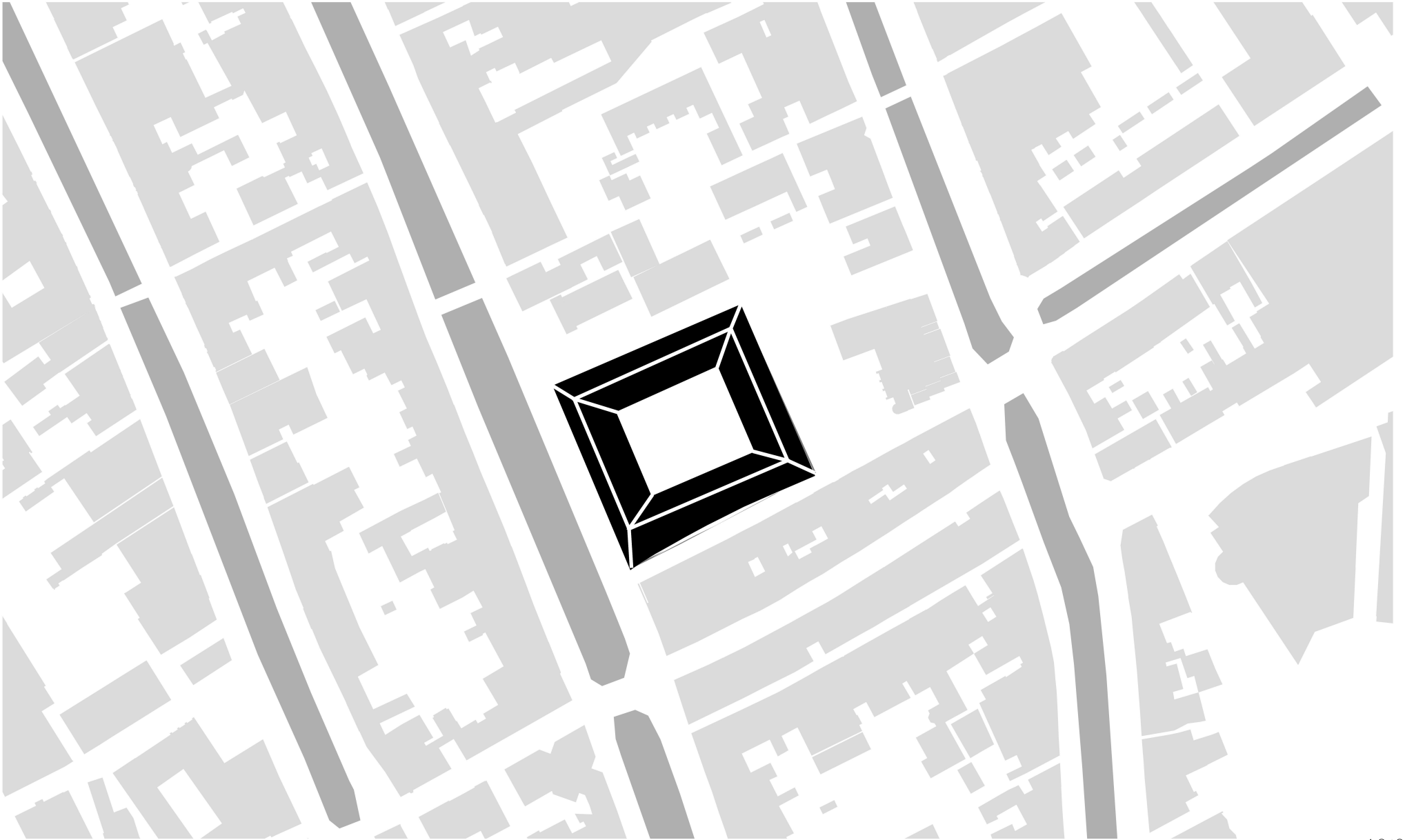




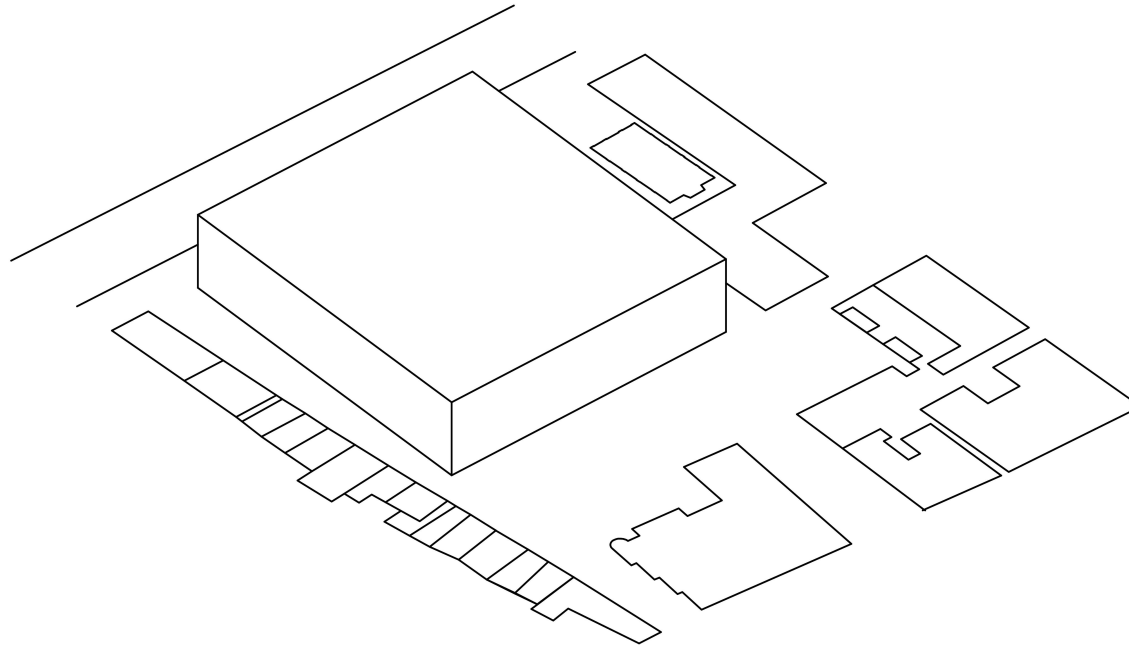
TOWN HALL DELFT



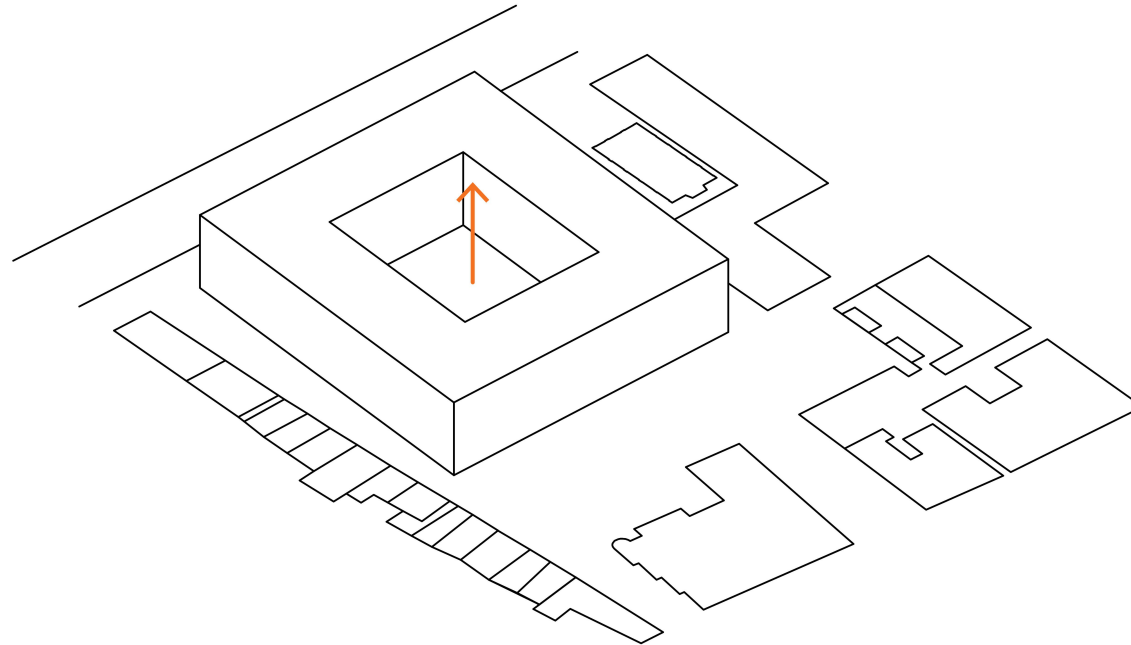
URBAN SITUATION



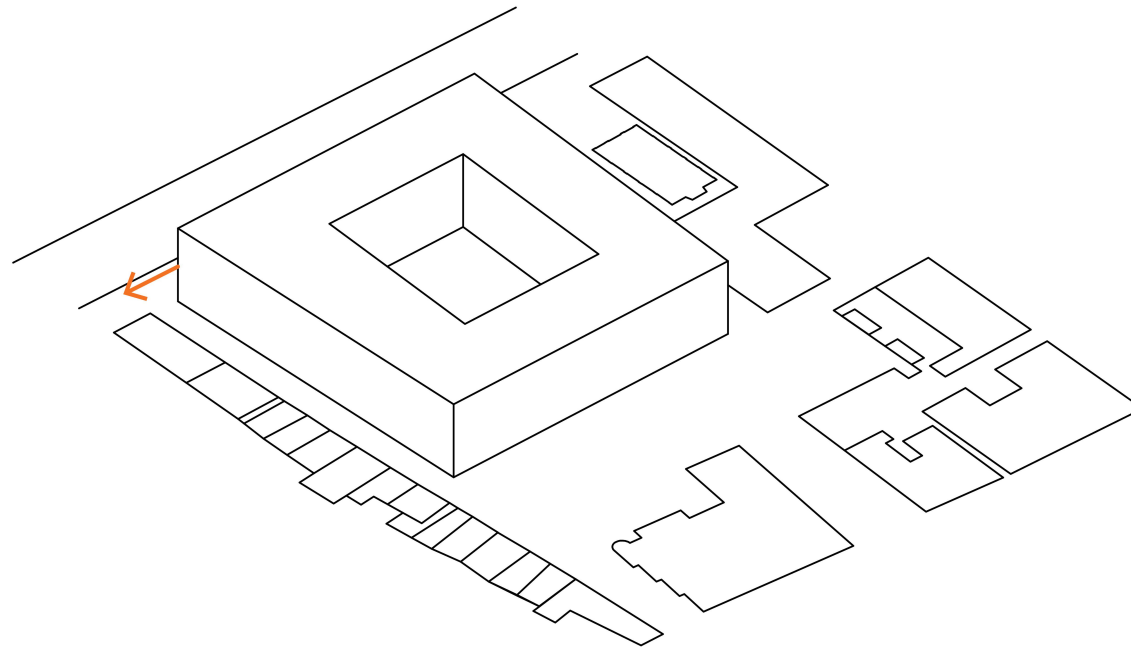
FORM DEVELOPMENT



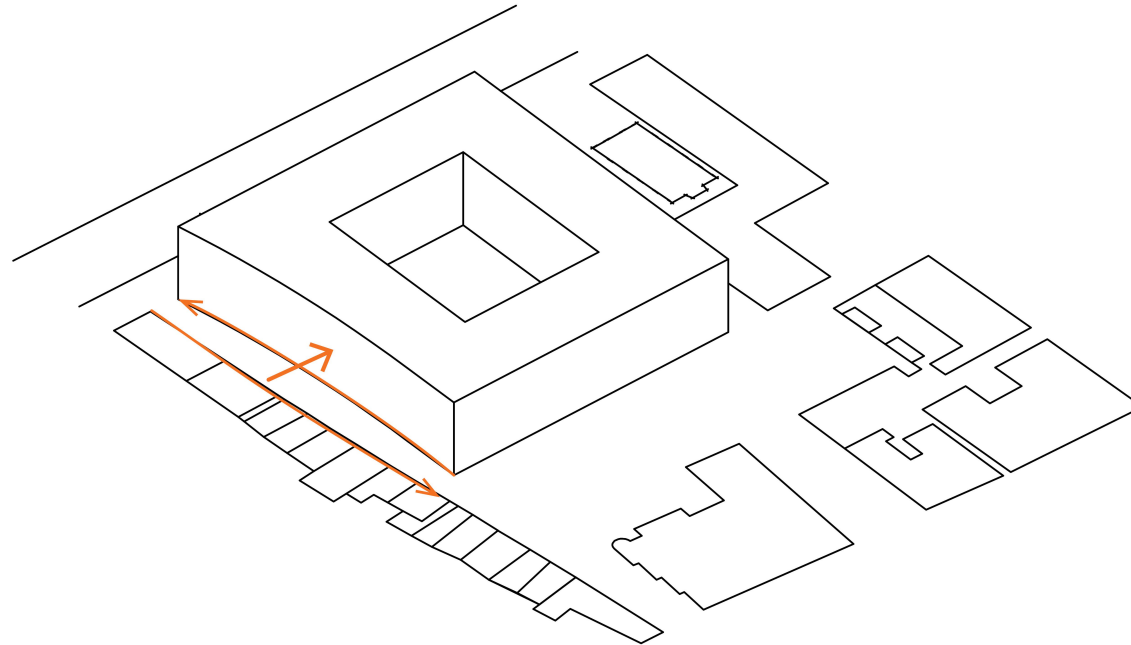
FORM DEVELOPMENT



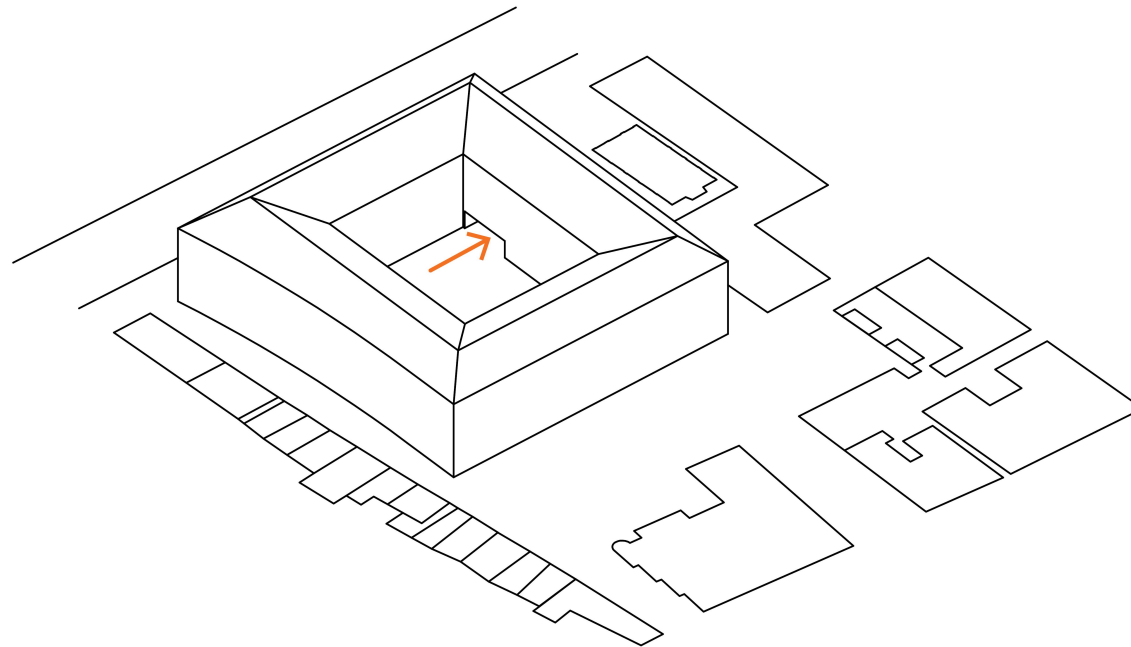
FORM DEVELOPMENT



FORM DEVELOPMENT



FORM DEVELOPMENT



OUTSIDE APPAERANCE



ANOTHER WORLD WITHIN



MATERIALIZATION



Load bearing brick



Cross laminated timber (CLT)

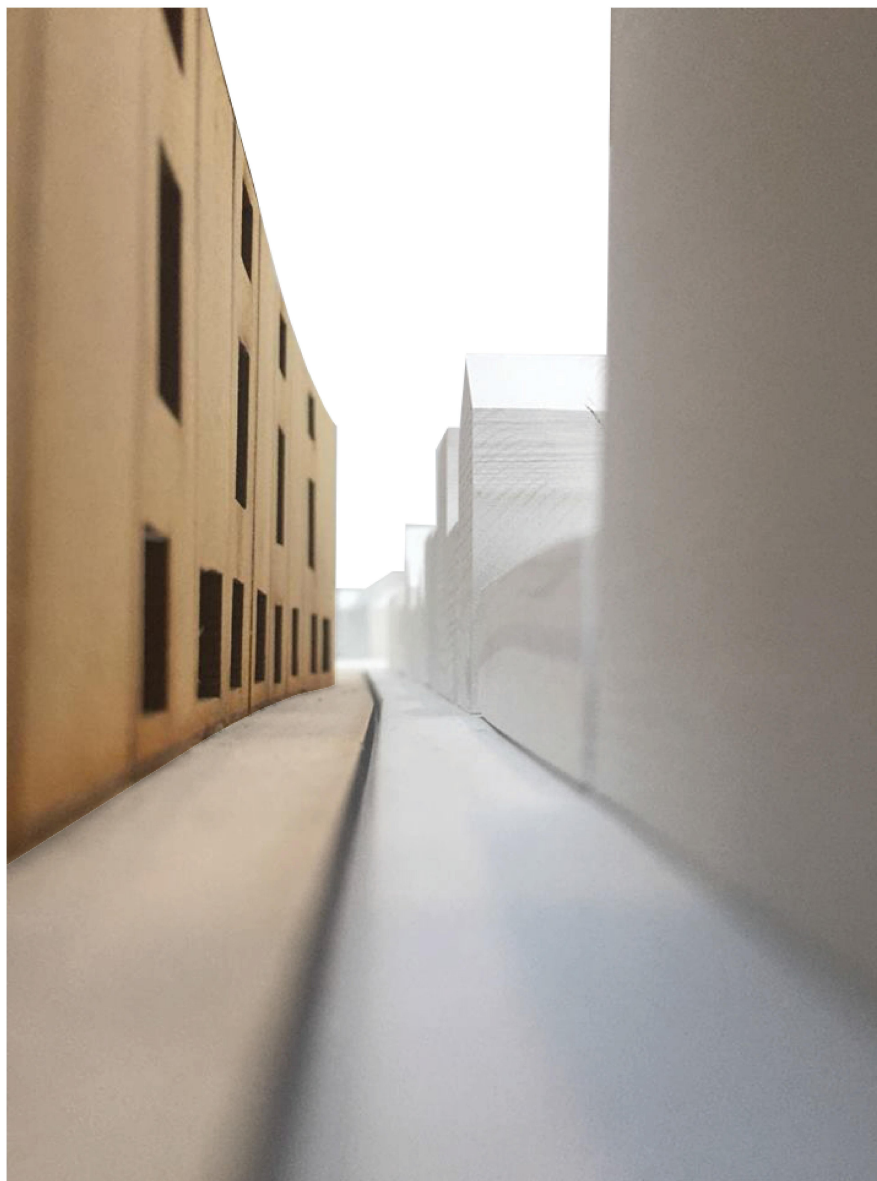
"Just like snowflakes no two pieces of wood can ever be the same anywhere on earth. I like to think that wood gives mother nature fingerprints in our buildings. It is mother nature's fingerprints that make our buildings connect to nature in the built environment."

- Michael Green

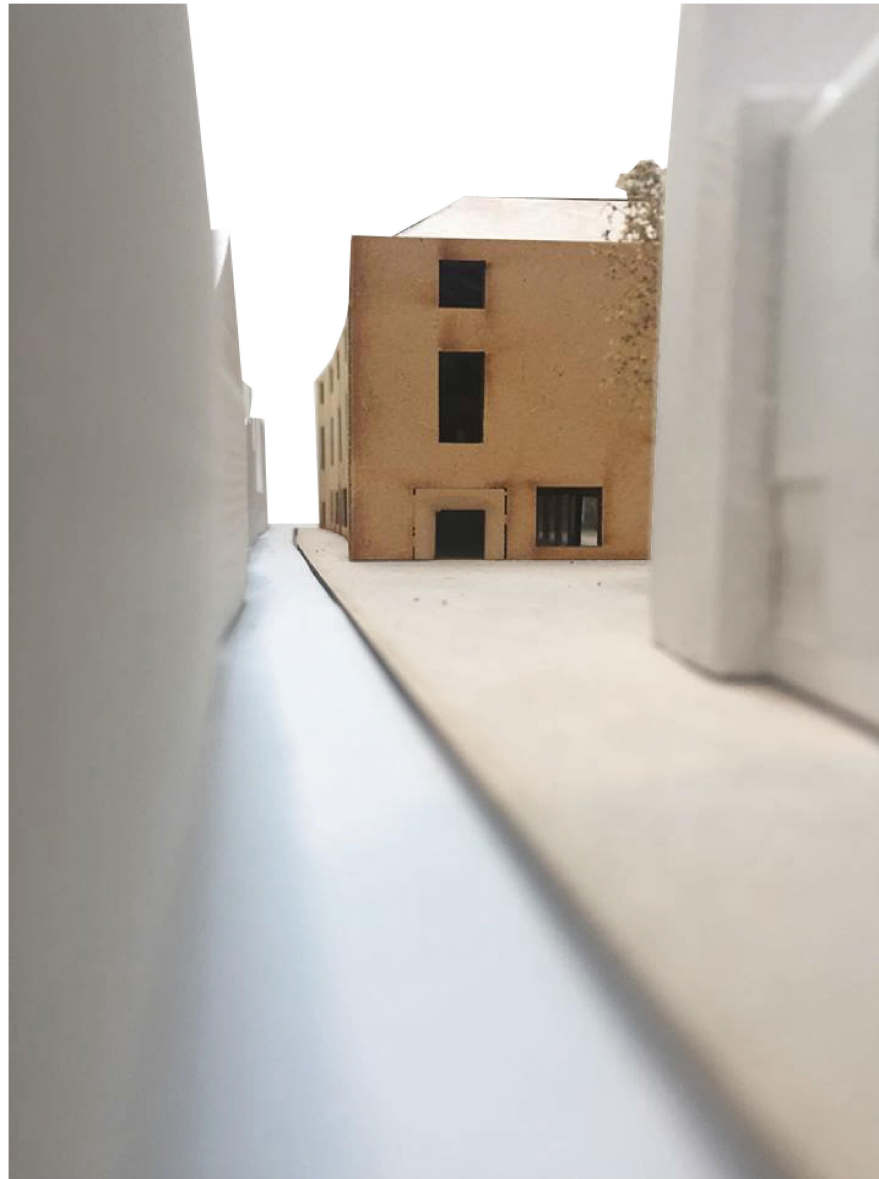


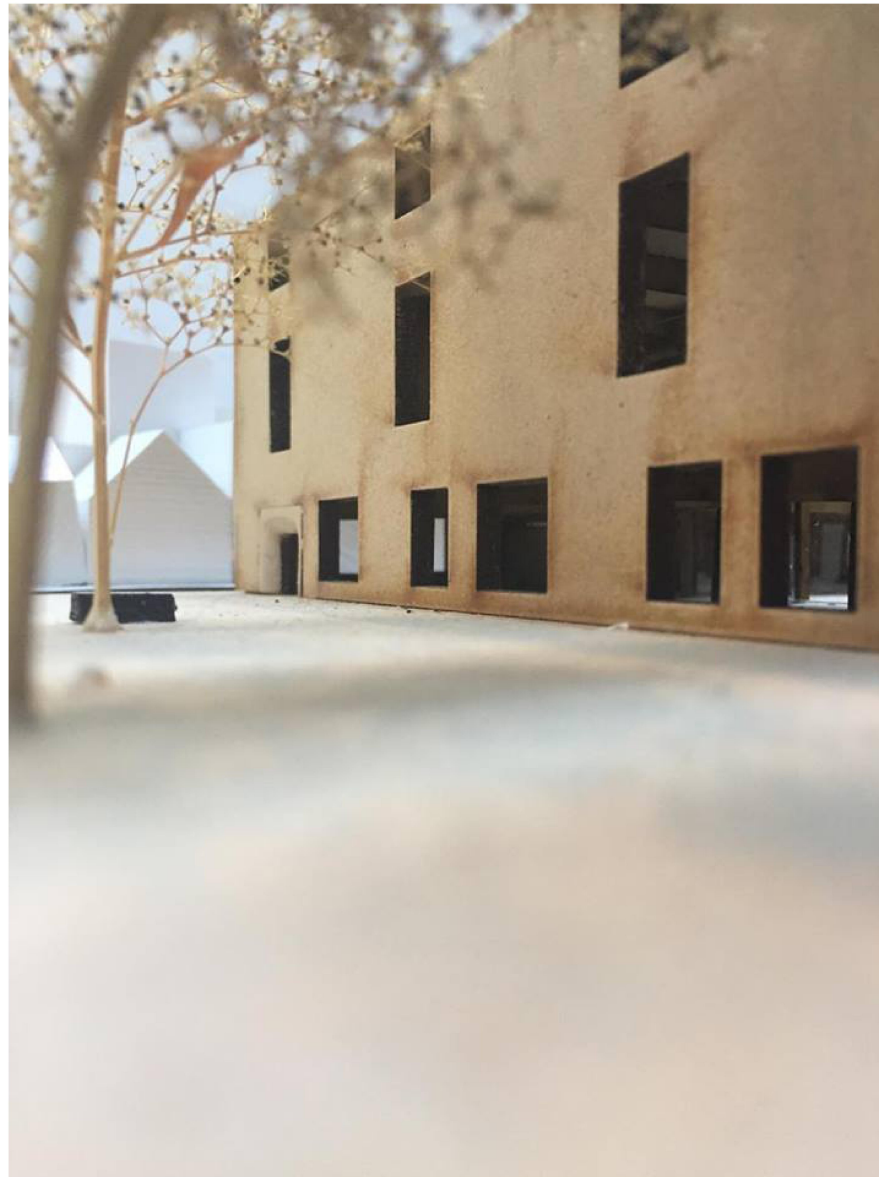
















THE COURTYARD



BIBLIOTHEQUE NATIONALE PARIS

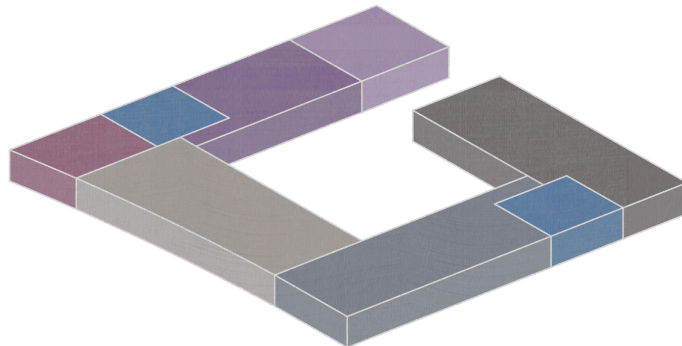
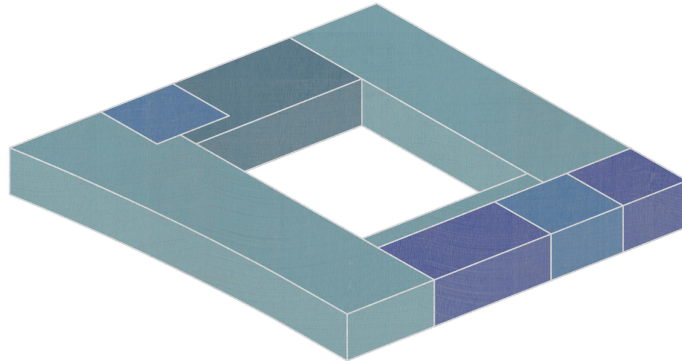
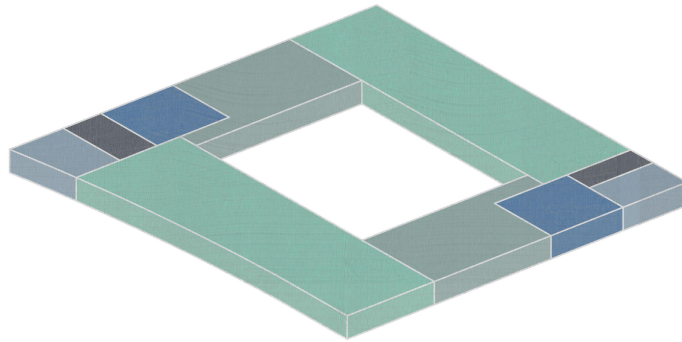


"Again, the wood was invoked as that realm where both knowledge and the unknown resided, which one could interpret as being either Eden or Arcady."
- Mark Pimlott

A WORLD WITHIN



PROGRAM



Total floor surface: 5557 m²

Technical space 
90 m²

Research space 
78 m²

Open archive 
- Archive area 1 271 m²
- Archive area 2 271 m²

Study space 
- Study area 1 440 m²
- Study area 2 438 m²

Auditorium 
146 m²

Depôt 
225 m²

Exhibition 
- Exhibition 1 650 m²
- Exhibition 2 510 m²

Celebration room 
- Extension of café 135 m²

Café 
202 m²

Storage 
105 m²

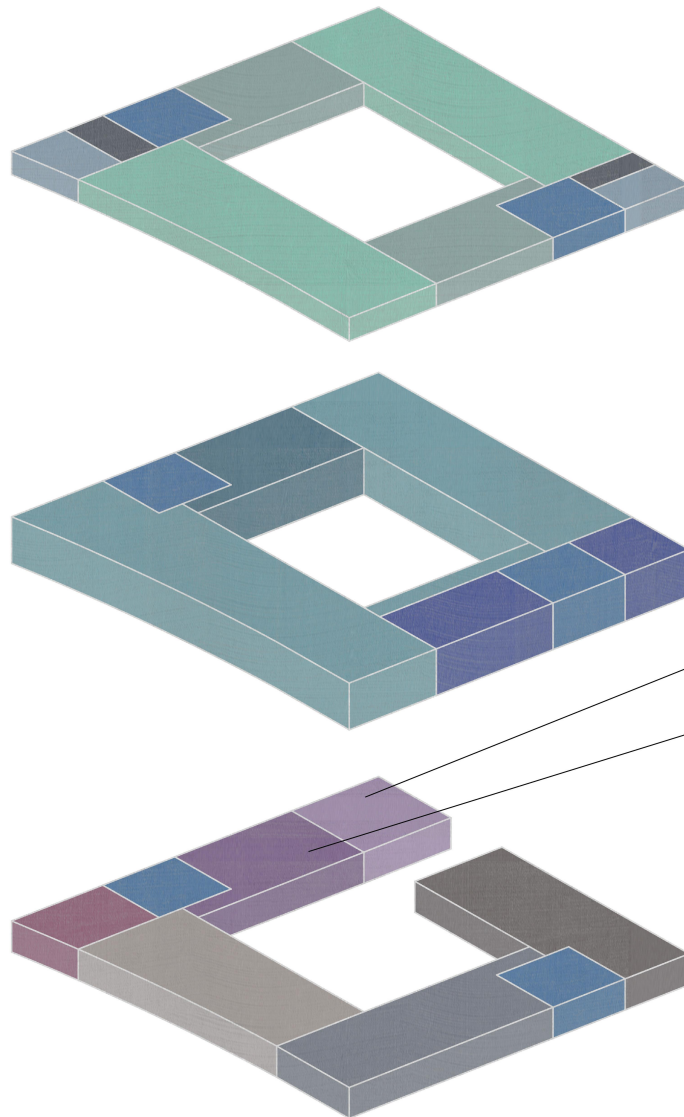
Office wing 
337 m²

Workshop 
337 m²

Infrastructure 
575 m²

Lobby/exhibition 
337 m²

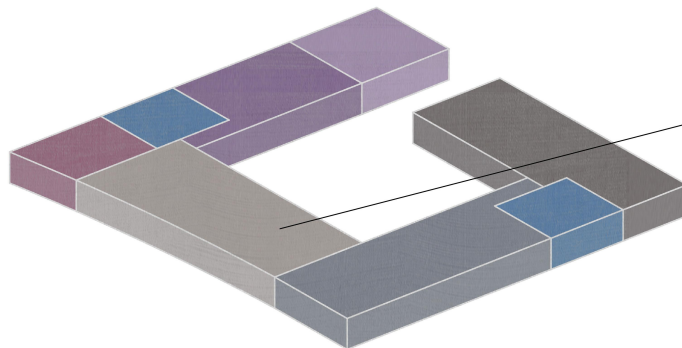
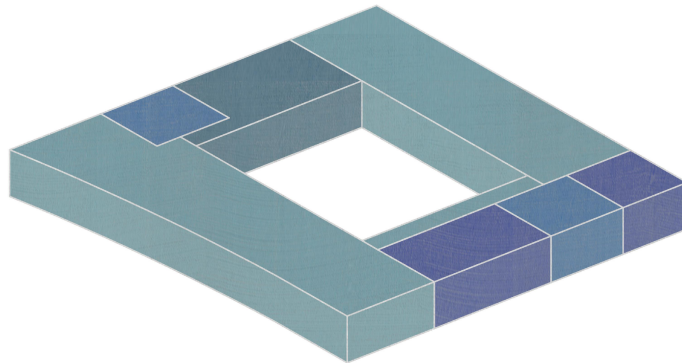
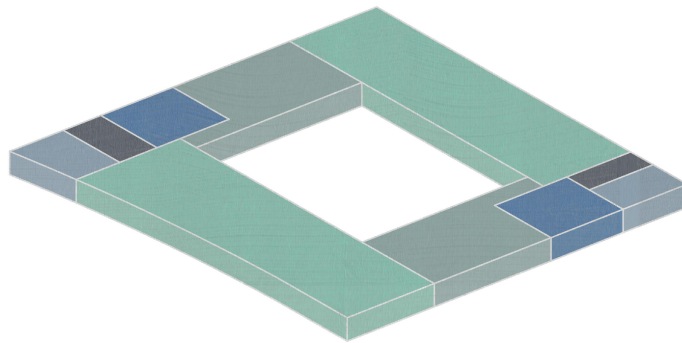
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
		Storage	105 m ²
Office wing	337 m ²	Workshop	337 m ²
Infrastructure	575 m ²	Lobby/exhibition	337 m ²

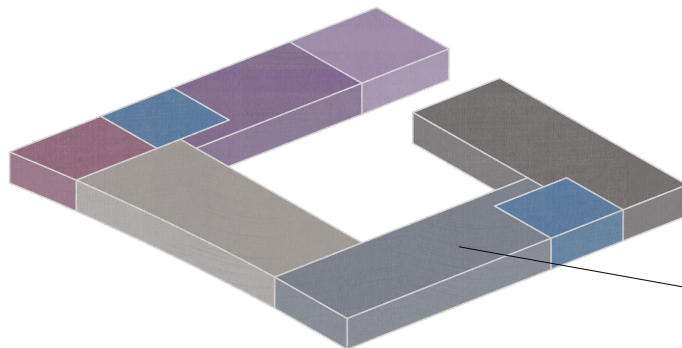
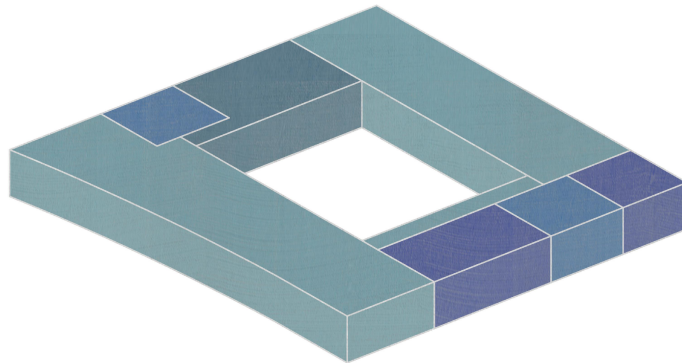
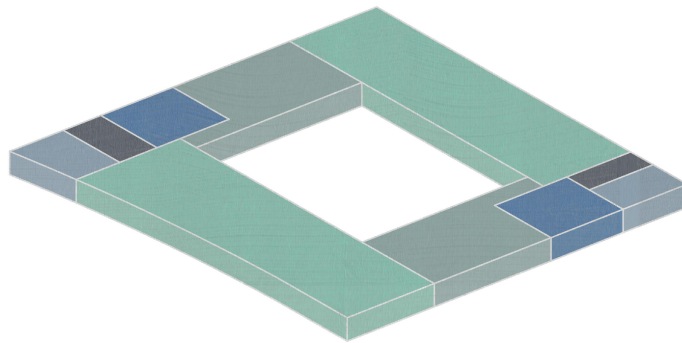
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
		Storage	105 m ²
Office wing	337 m ²	Workshop	337 m ²
Infrastructure	575 m ²	Lobby/exhibition	337 m ²

PROGRAM



Total floor surface: 5557 m²

Technical space 
90 m²

Research space 
78 m²

Open archive 
- Archive area 1 271 m²
- Archive area 2 271 m²

Study space 
- Study area 1 440 m²
- Study area 2 438 m²

Auditorium 
146 m²

Depôt 
225 m²

Exhibition 
- Exhibition 1 650 m²
- Exhibition 2 510 m²

Celebration room 
- Extension of café 135 m²

Café 
202 m²

Storage 
105 m²

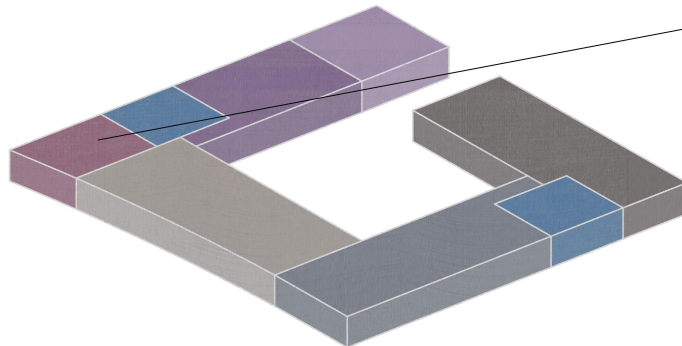
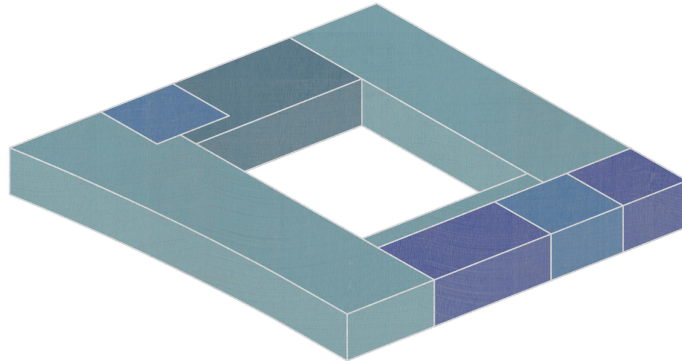
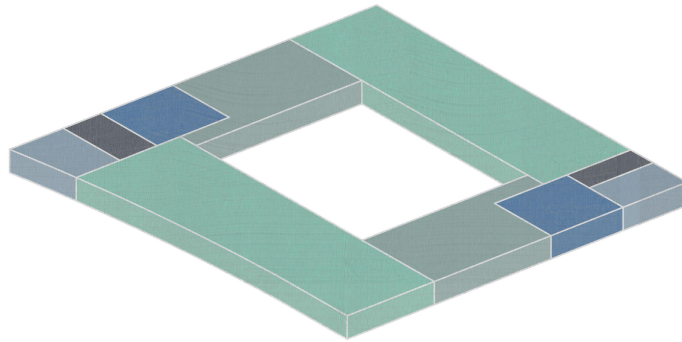
Office wing 
337 m²

Workshop 
337 m²

Infrastructure 
575 m²

Lobby/exhibition 
337 m²

PROGRAM



Total floor surface: 5557 m²

Technical space
90 m²

Research space
78 m²

Open archive
- Archive area 1 271 m²
- Archive area 2 271 m²

Study space
- Study area 1 440 m²
- Study area 2 438 m²

Auditorium
146 m²

Depôt
225 m²

Exhibition
- Exhibition 1 650 m²
- Exhibition 2 510 m²

Celebration room
- Extension of café 135 m²

Café
202 m²

Storage
105 m²

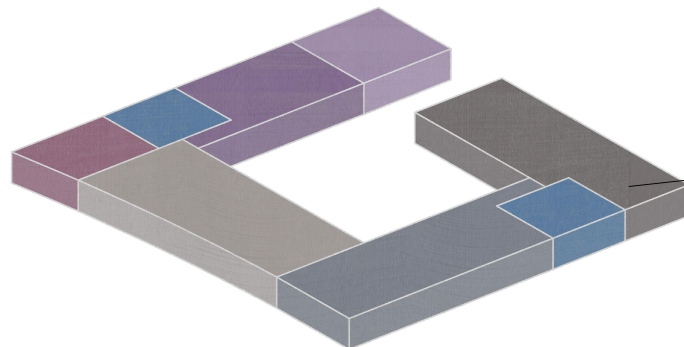
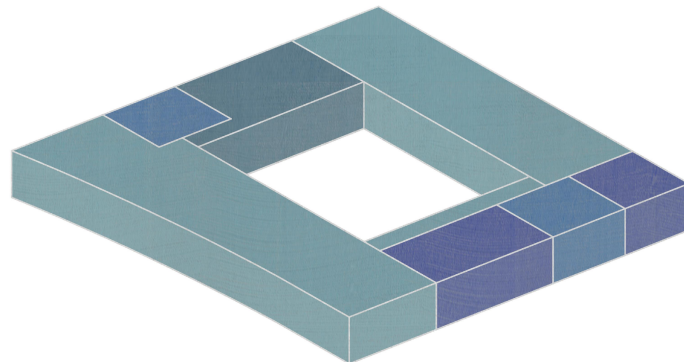
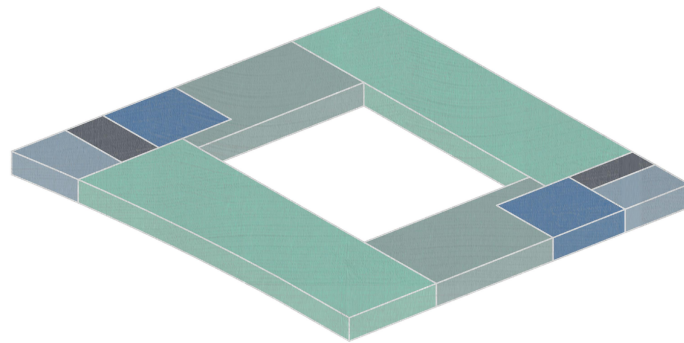
Office wing
337 m²

Workshop
337 m²

Infrastructure
575 m²

Lobby/exhibition
337 m²

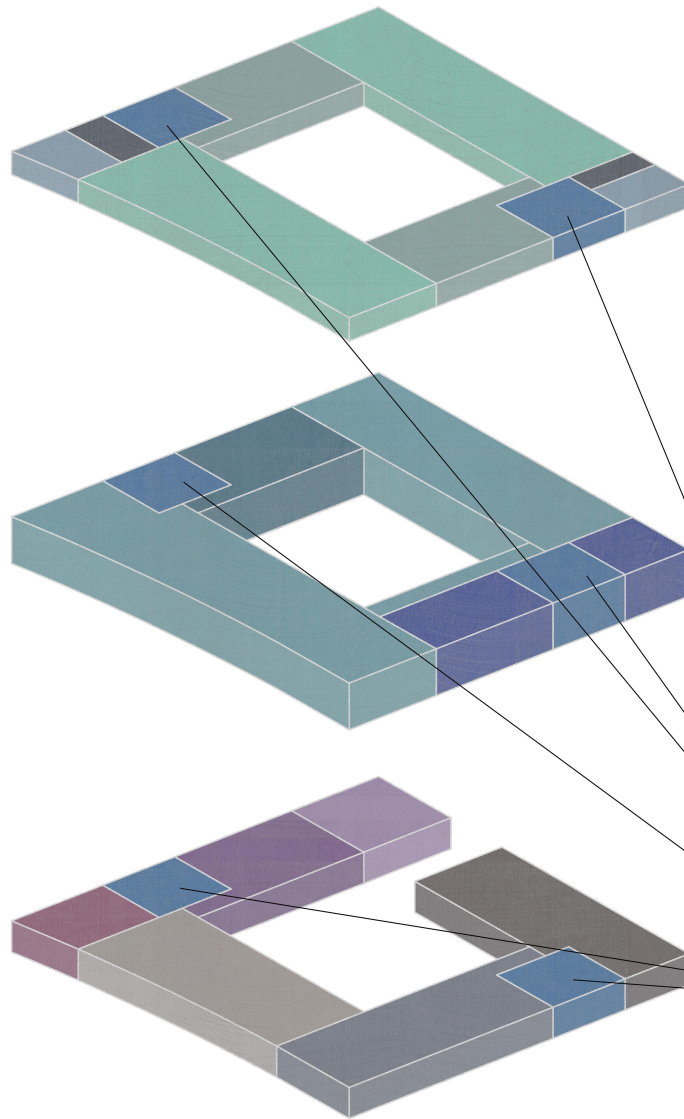
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

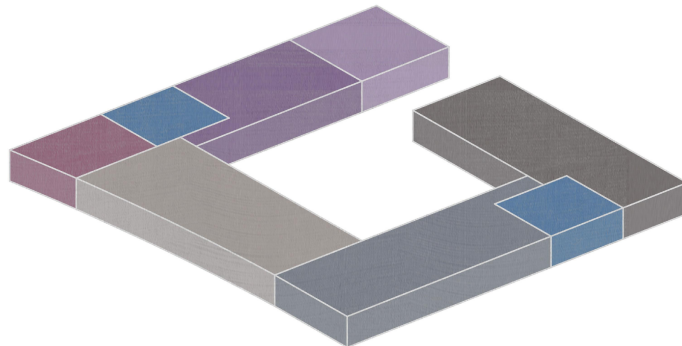
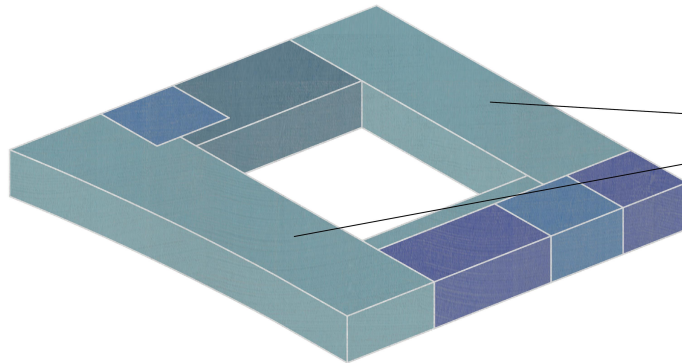
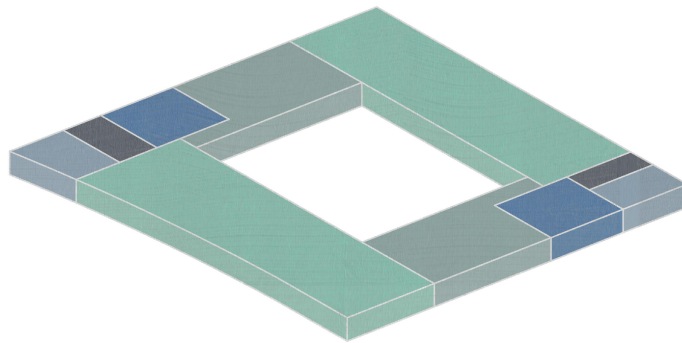
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

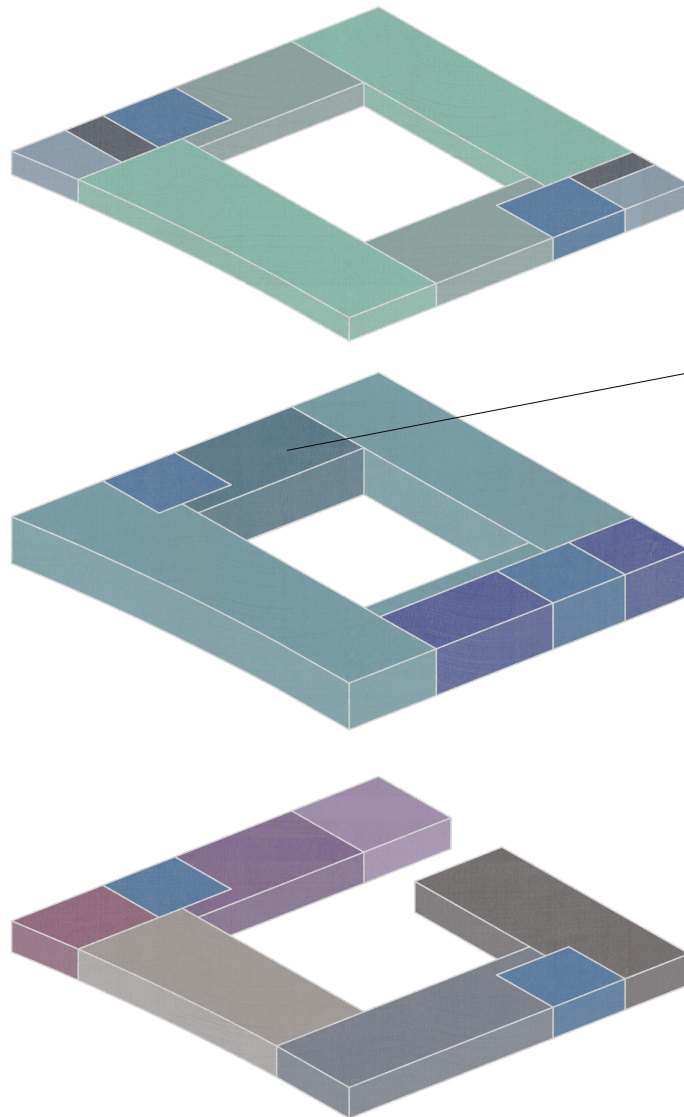
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

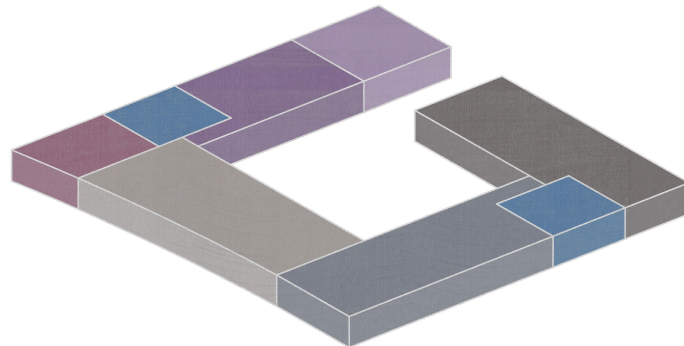
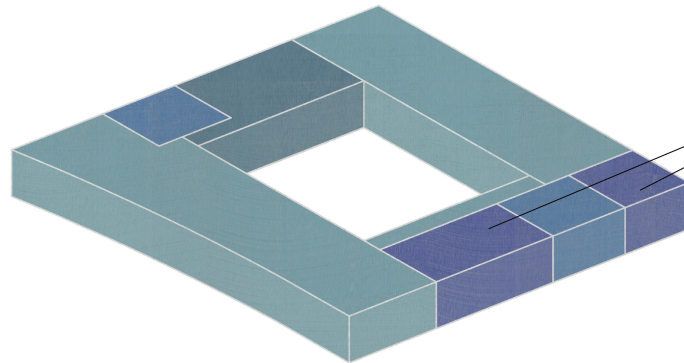
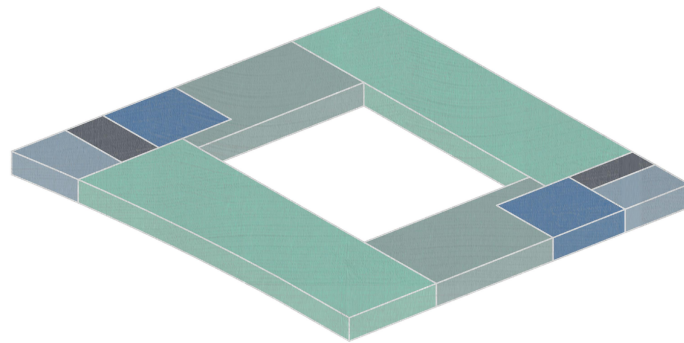
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

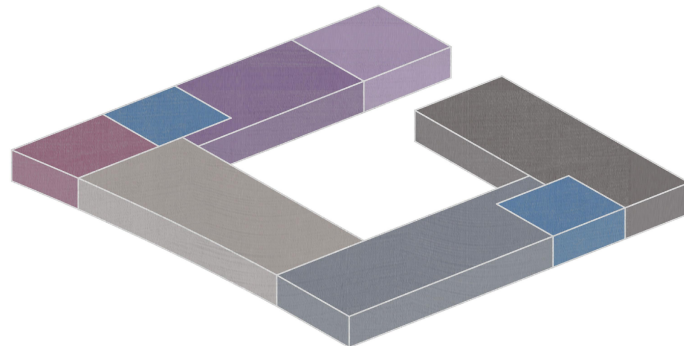
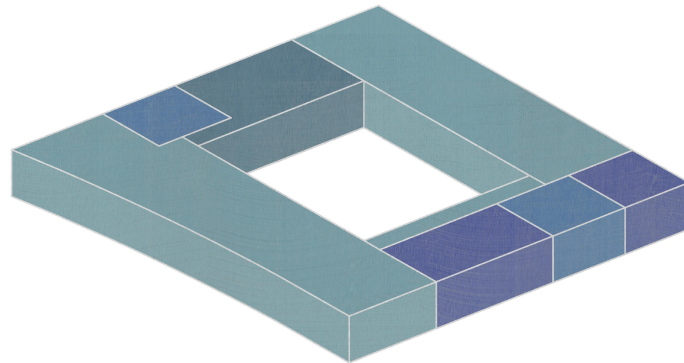
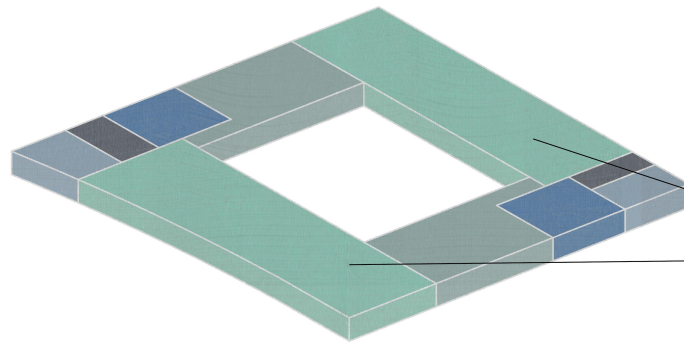
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

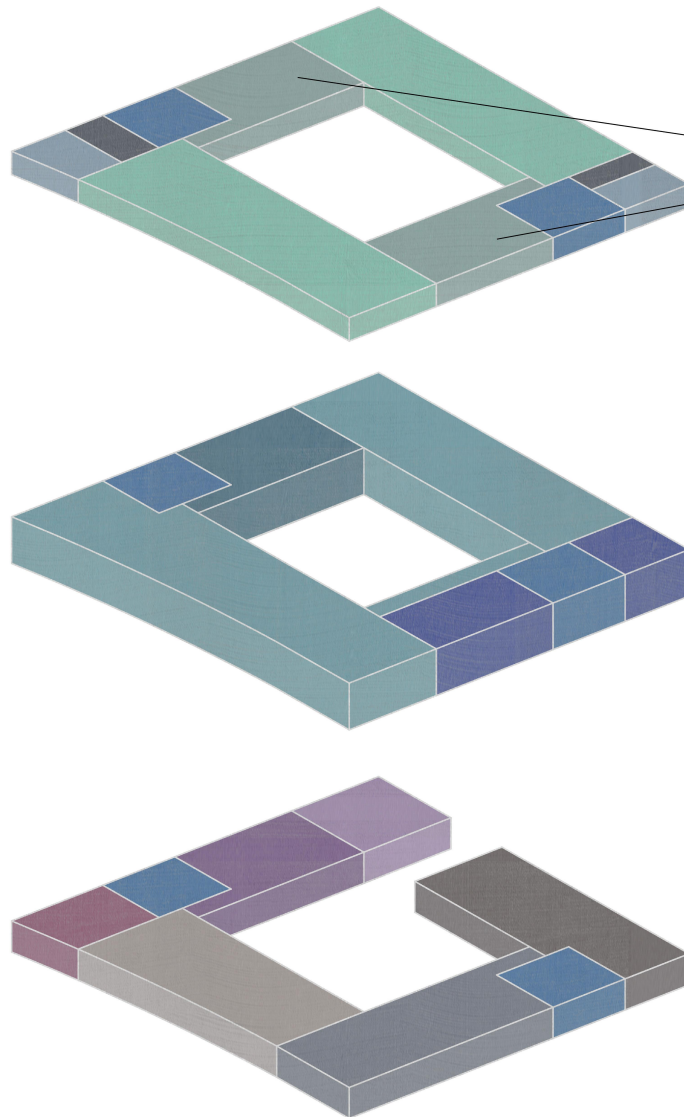
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
		Storage	105 m ²
Office wing	337 m ²	Workshop	337 m ²
Infrastructure	575 m ²	Lobby/exhibition	337 m ²

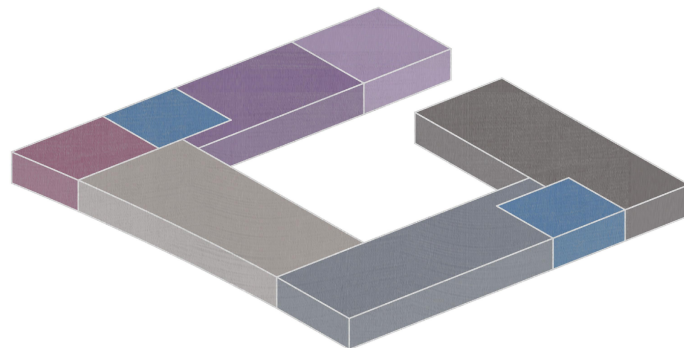
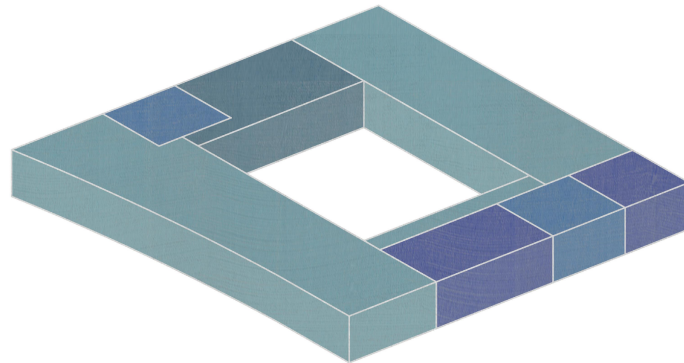
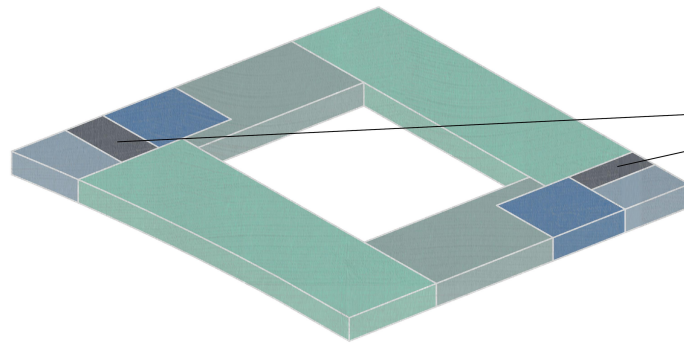
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
		Storage	105 m ²
Office wing	337 m ²	Workshop	337 m ²
Infrastructure	575 m ²	Lobby/exhibition	337 m ²

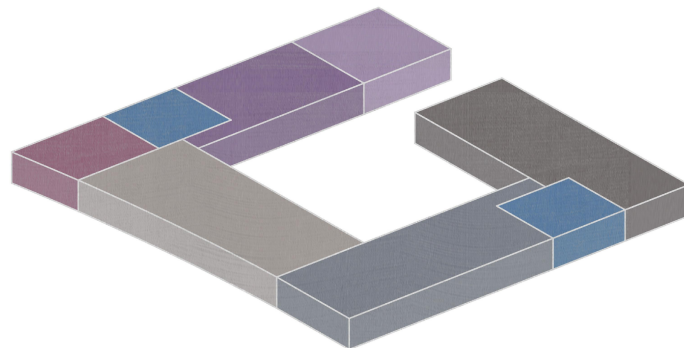
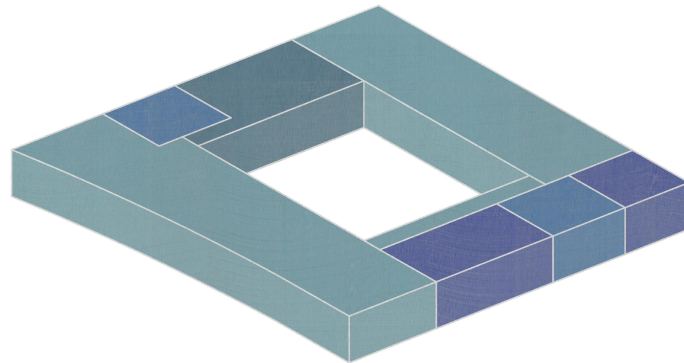
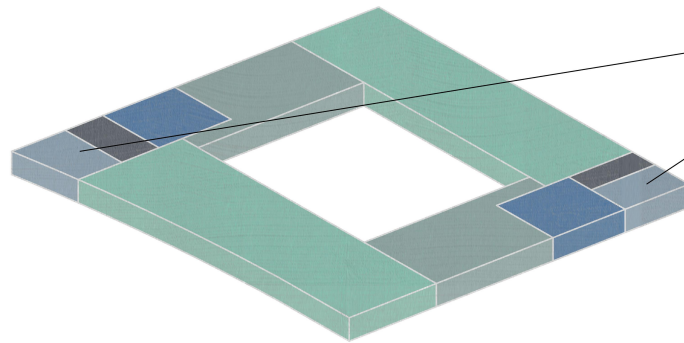
PROGRAM



Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

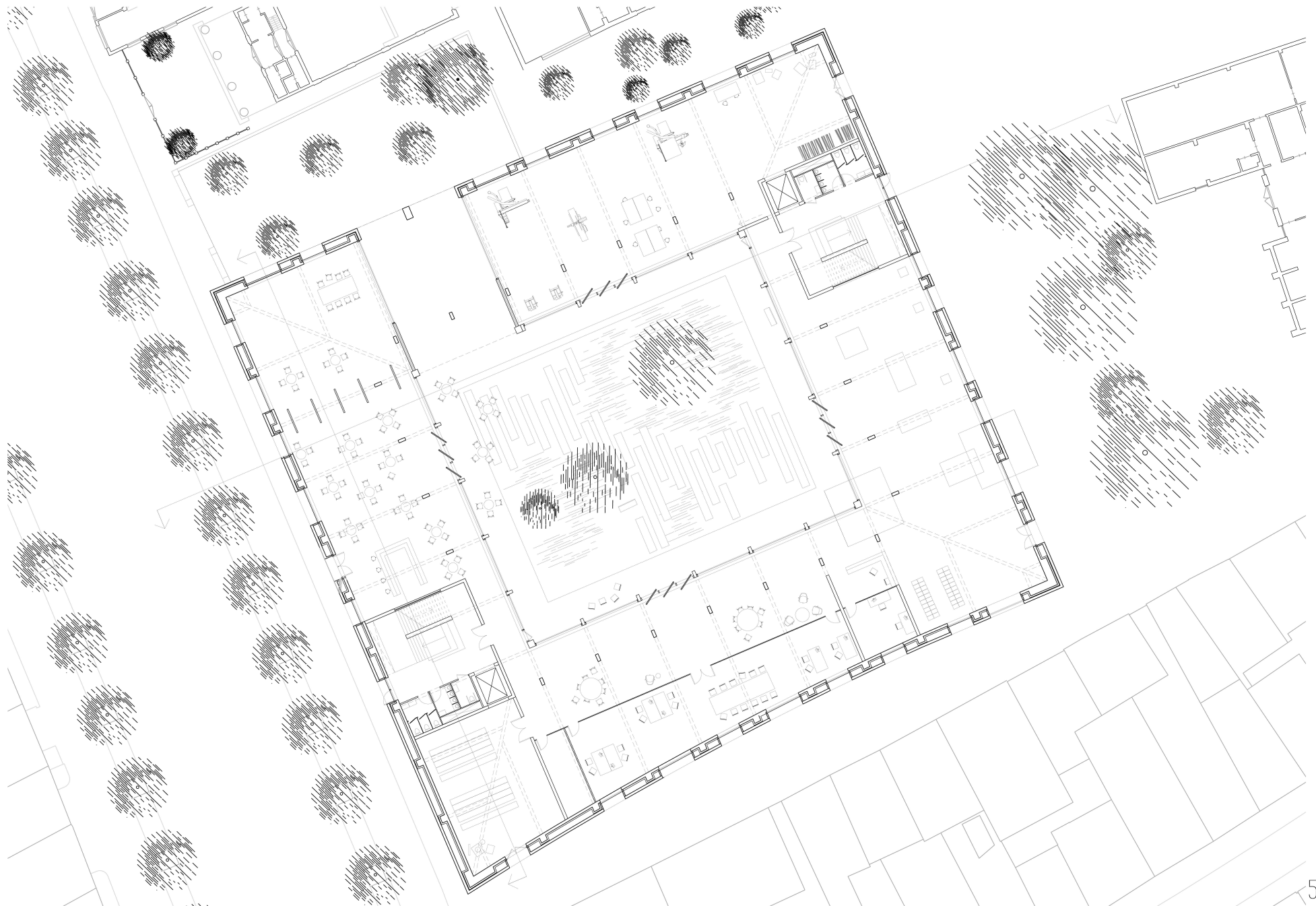
PROGRAM



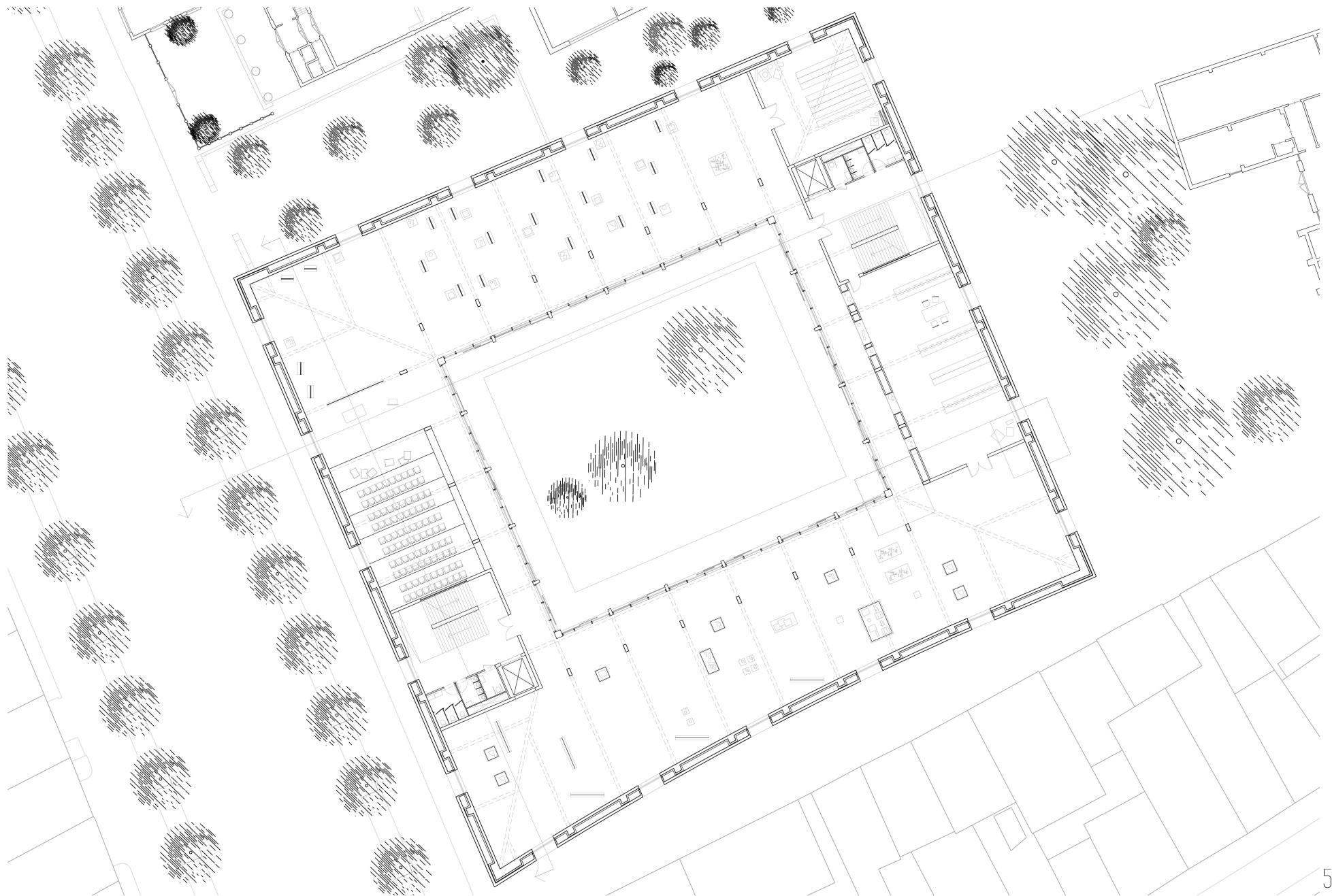
Total floor surface: 5557 m²

Technical space	90 m ²	Research space	78 m ²
Open archive		Study space	
- Archive area 1	271 m ²	- Study area 1	440 m ²
- Archive area 2	271 m ²	- Study area 2	438 m ²
Auditorium	146 m ²	Depôt	225 m ²
Exhibition		Celebration room	
- Exhibition 1	650 m ²	- Extension of café	135 m ²
- Exhibition 2	510 m ²	Café	202 m ²
Storage	105 m ²	Office wing	337 m ²
Workshop	337 m ²	Infrastructure	575 m ²
Lobby/exhibition	337 m ²		

GROUND FLOOR



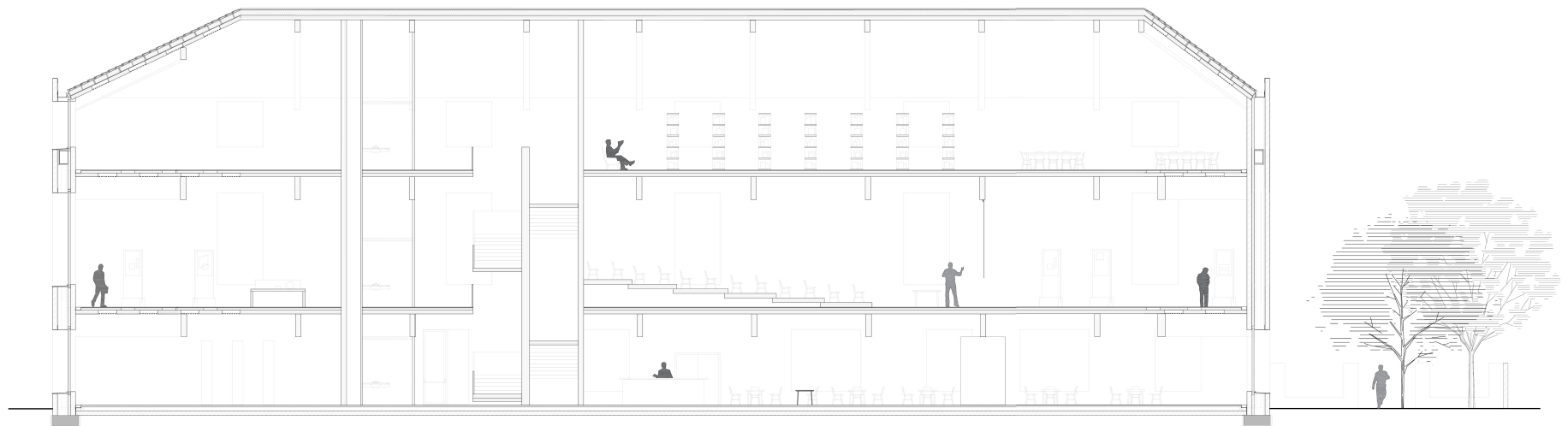
FIRST FLOOR



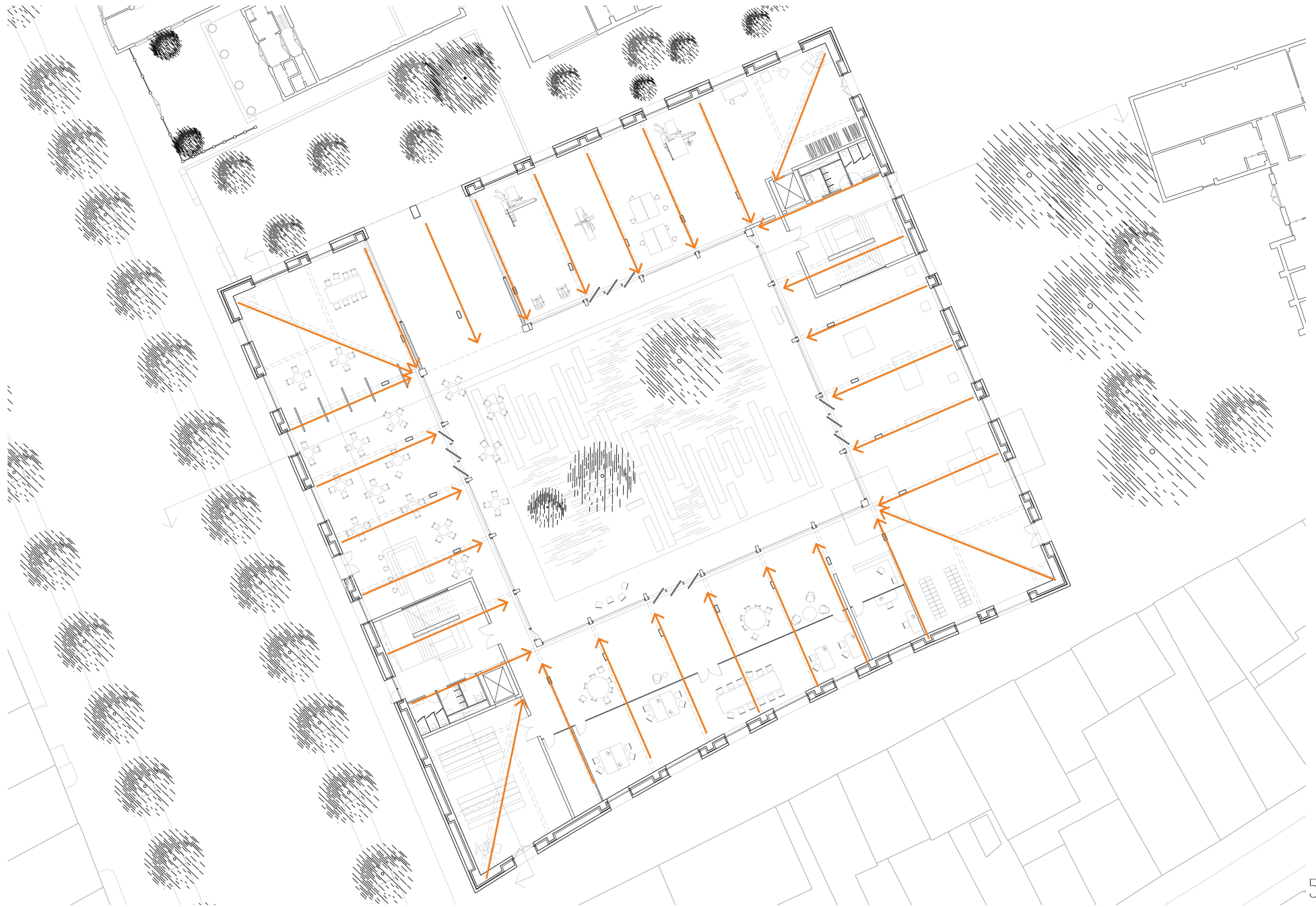
SECOND FLOOR







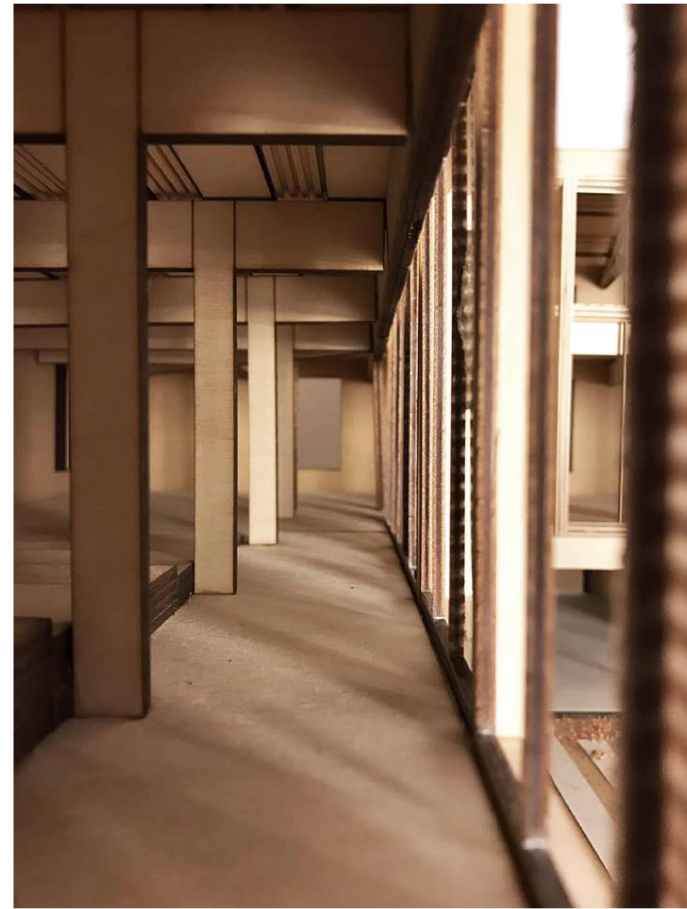
EMPHASIZING THE COURTYARD



ROUTING



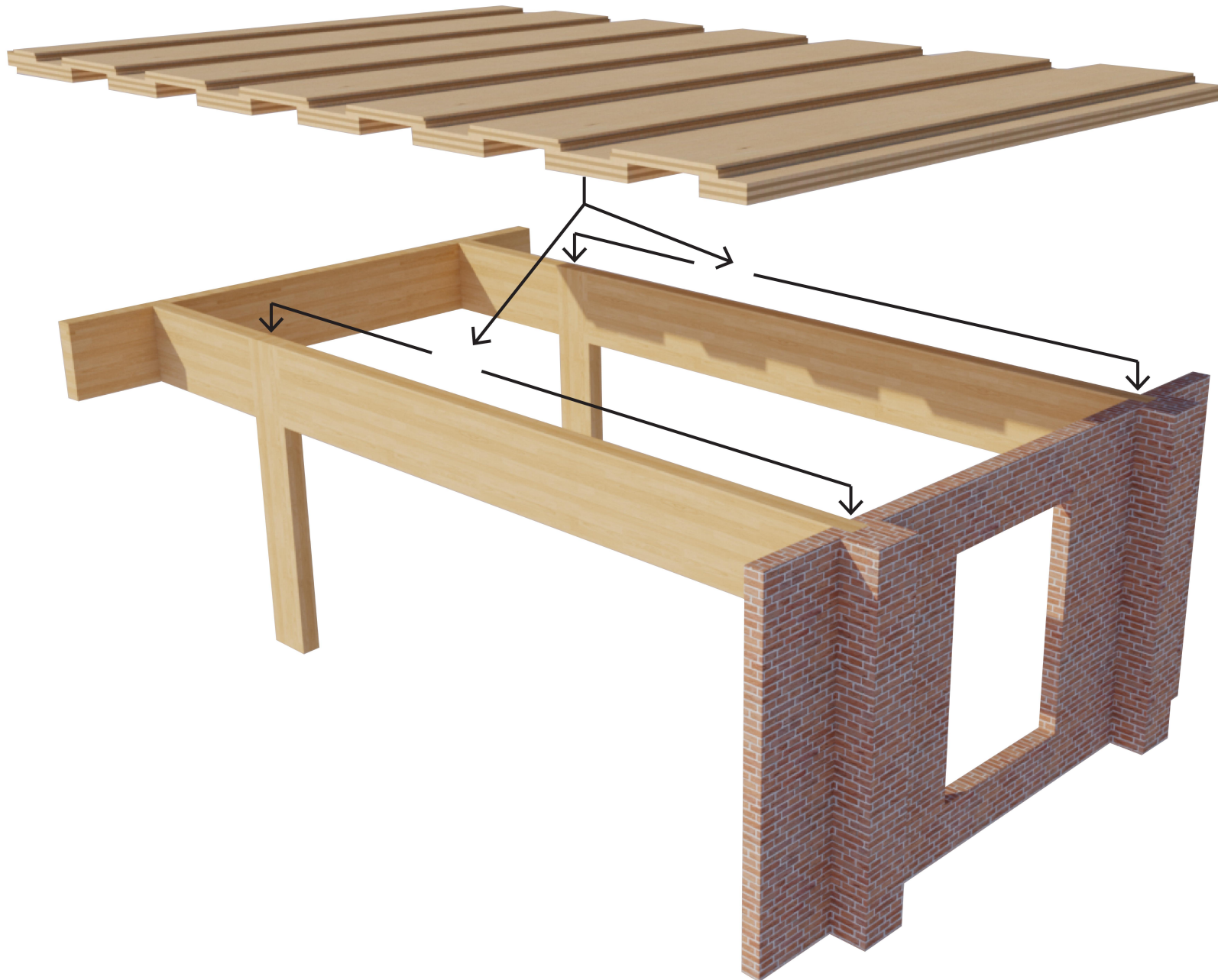
A VISUAL CORRIDOR



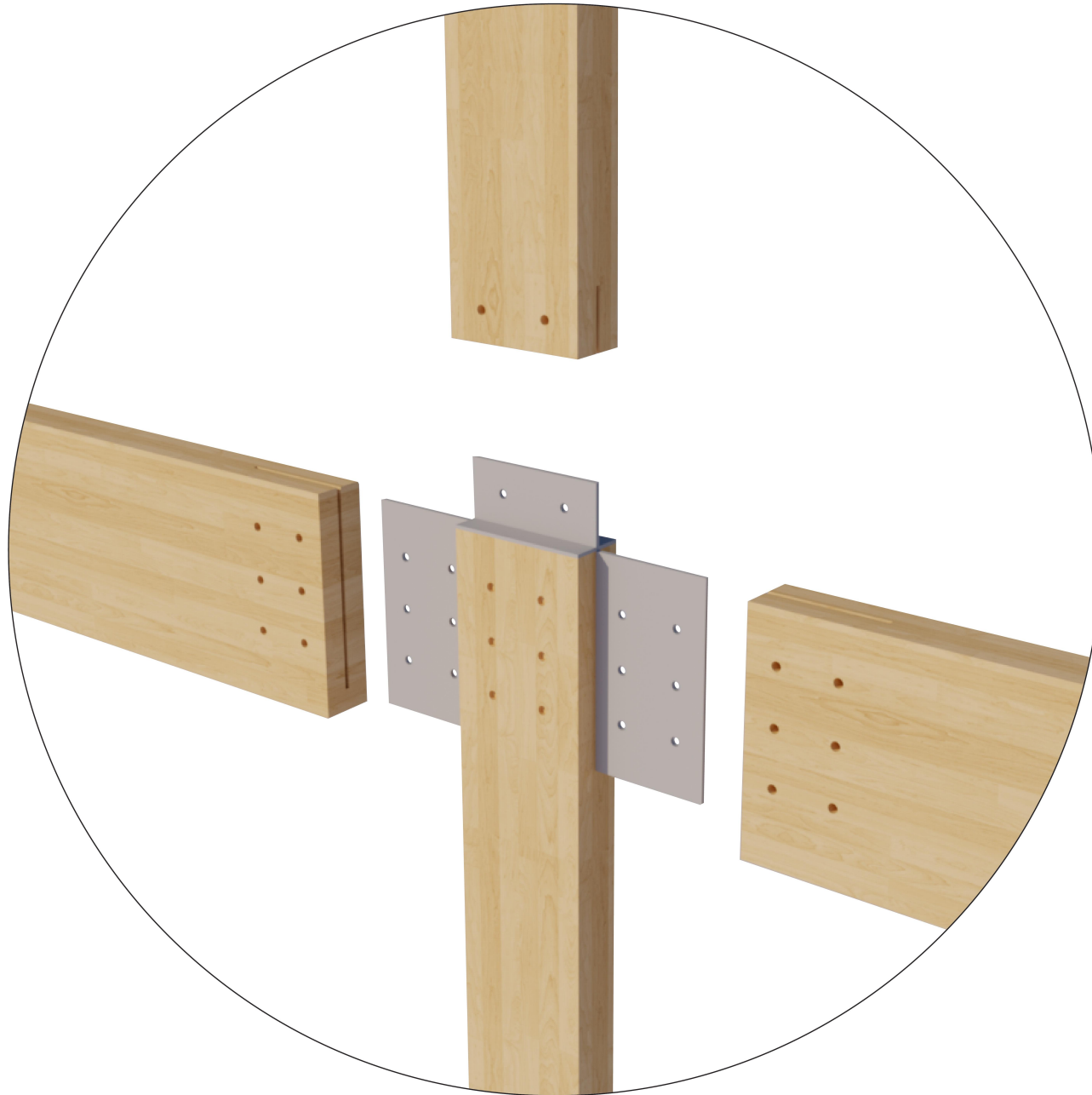
CORES



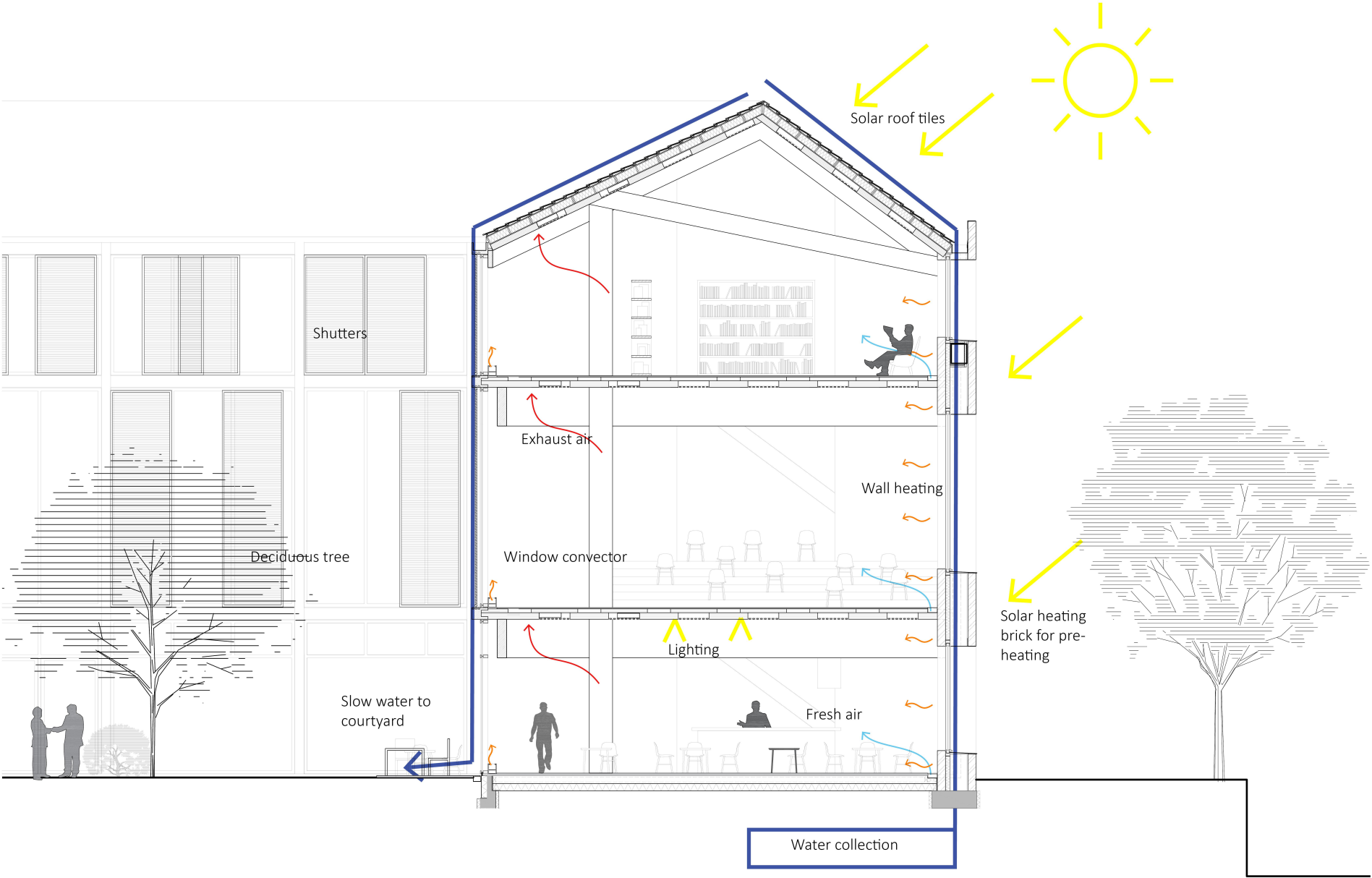
LOAD TRANSFER



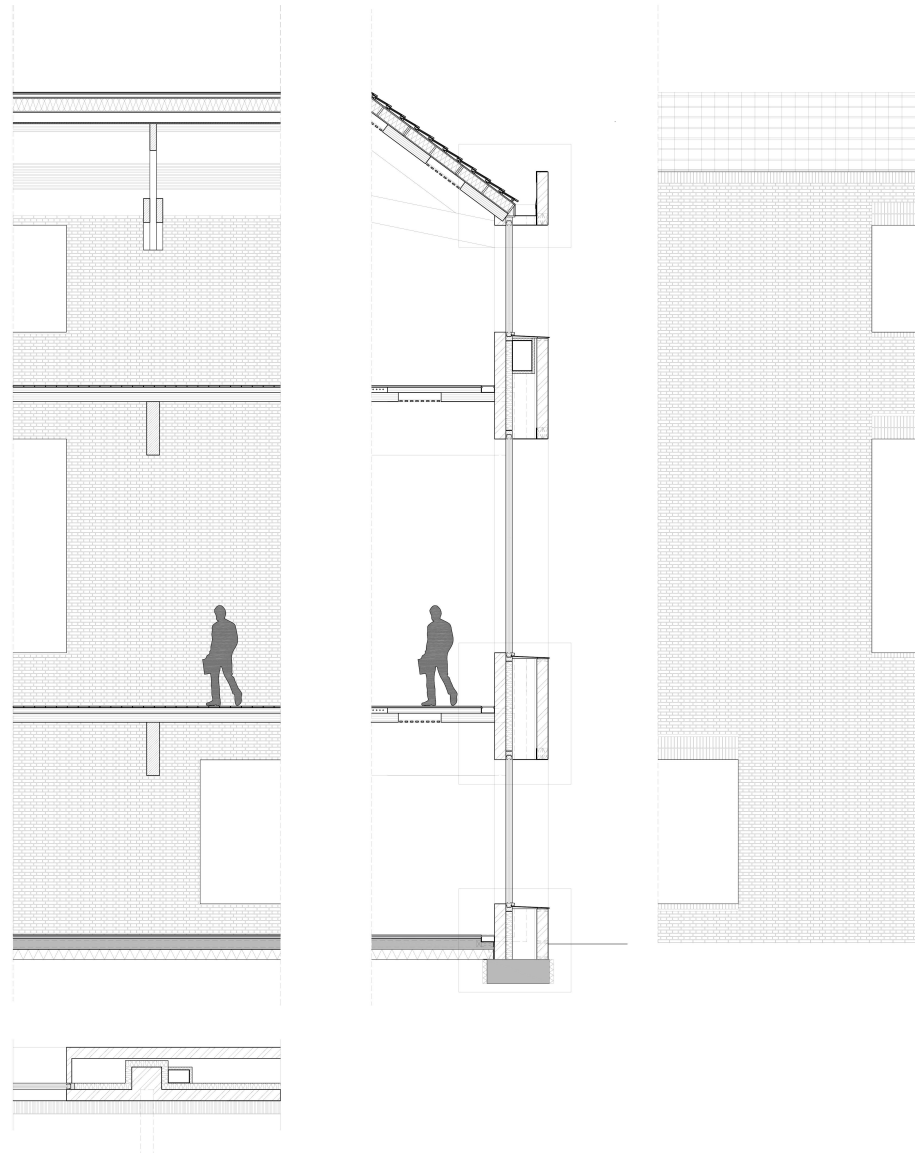
CONNECTION COLUMN AND BEAM



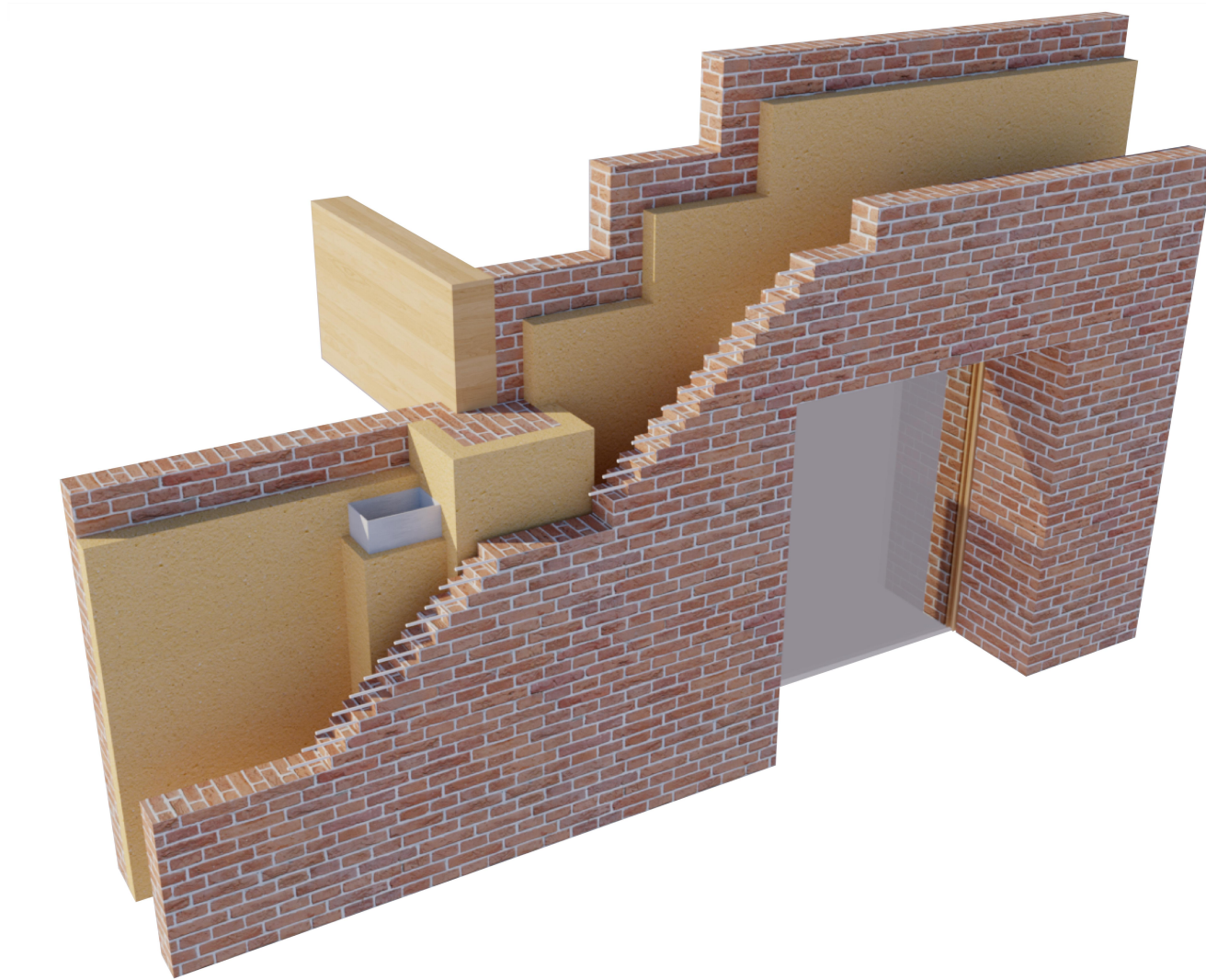
CLIMATE AND SUSTAINABLE DIAGRAM



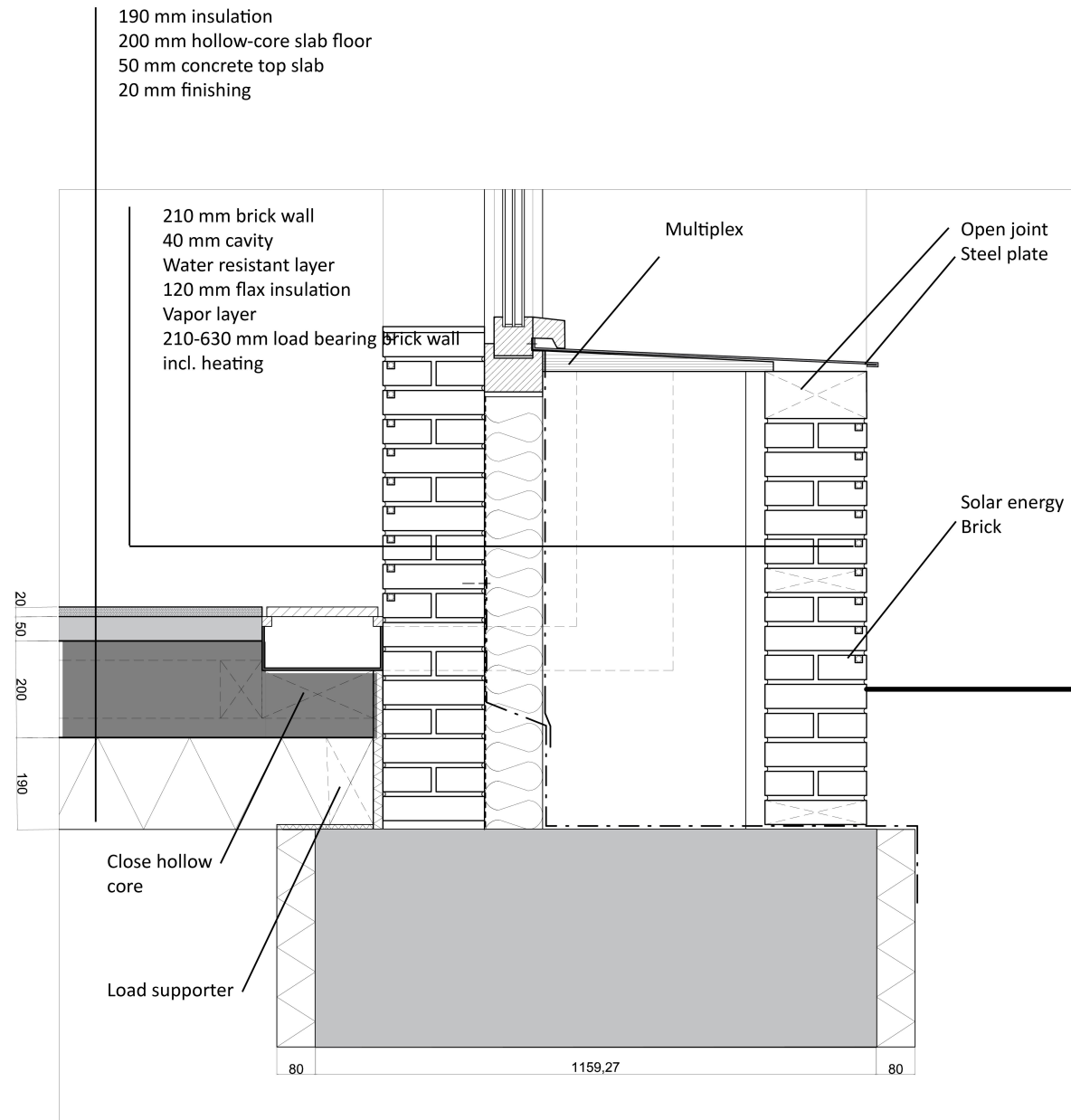
FACADE FRAGMENT LOAD BEARING BRICK WALL

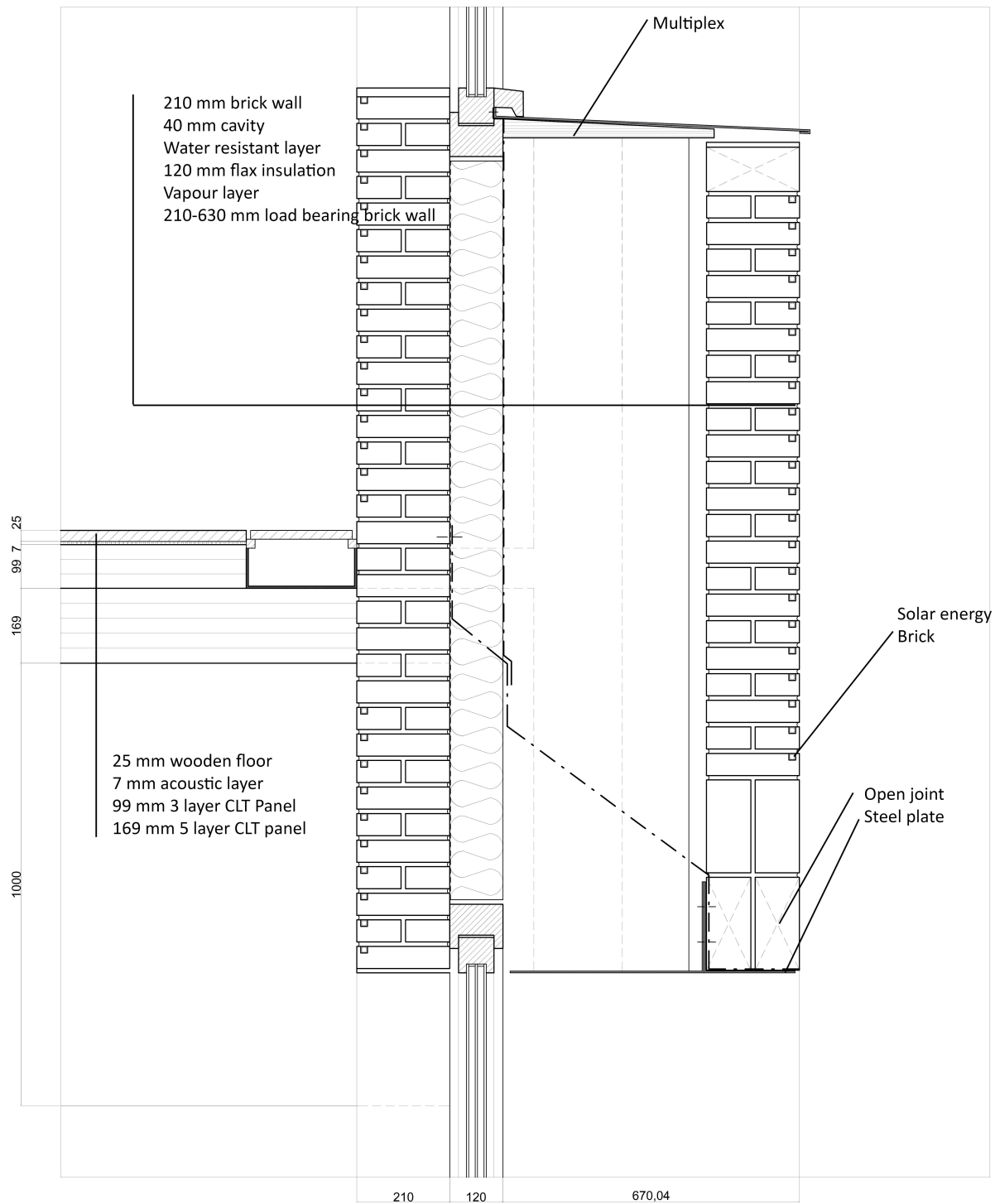


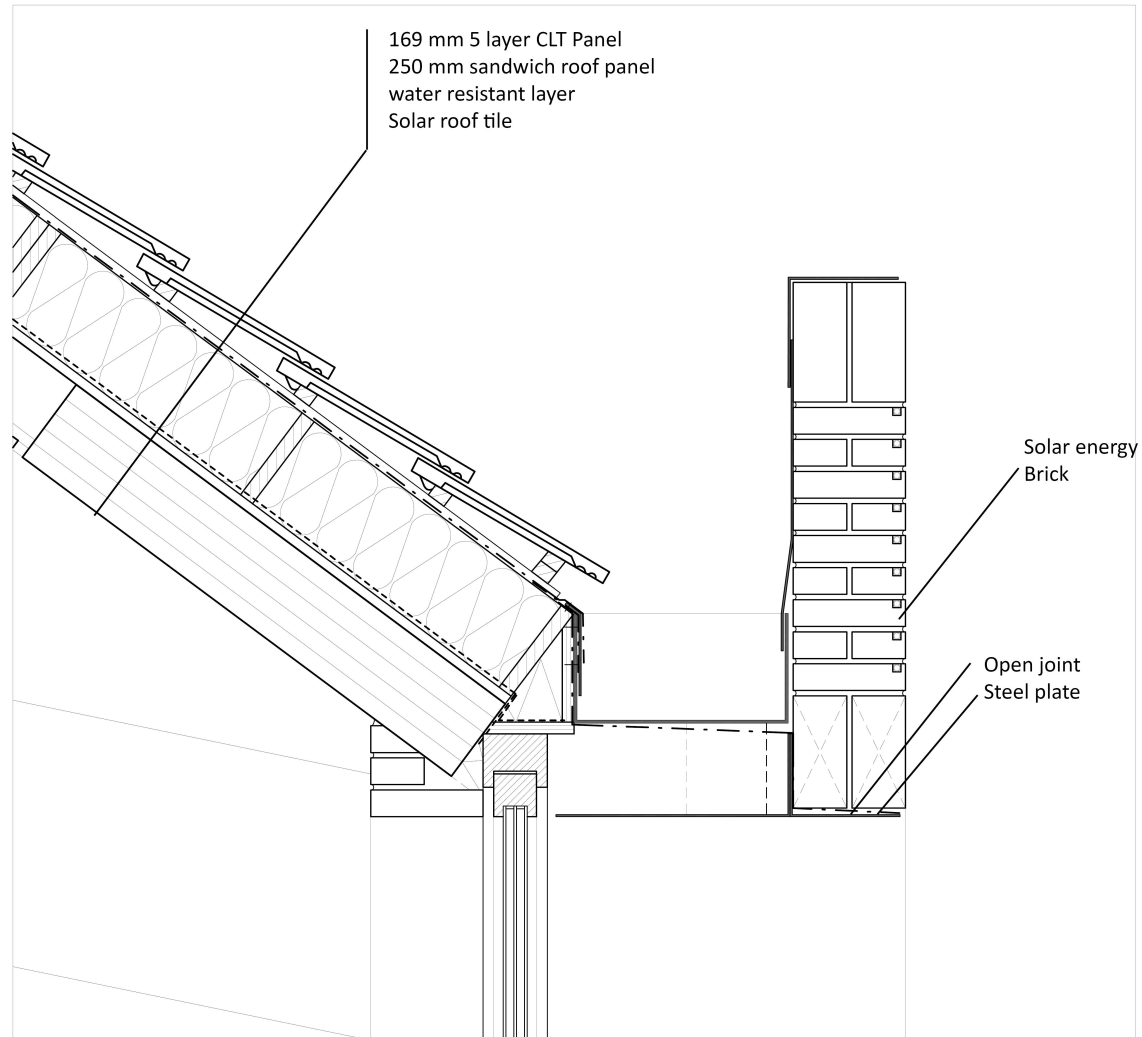
WALL SYSTEM



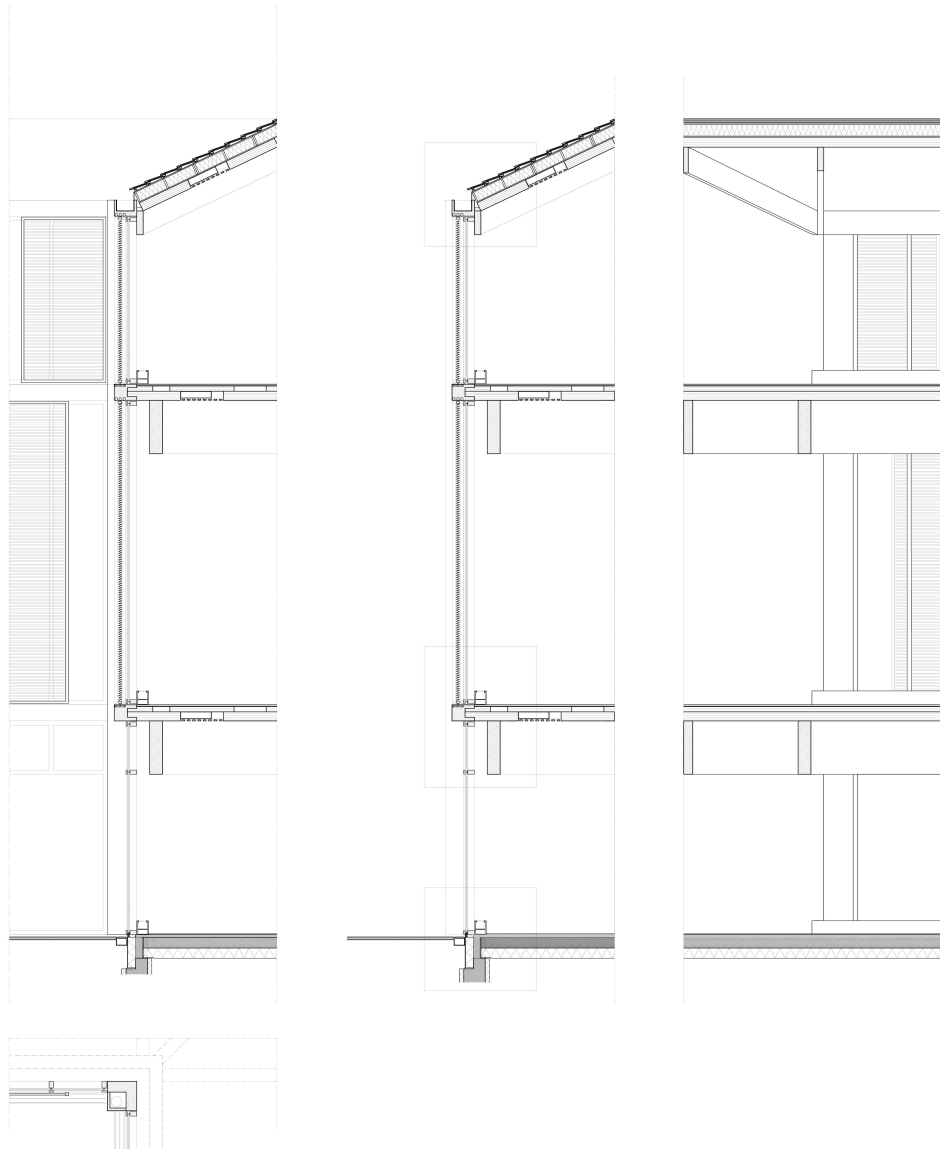
DETAILING OF THE OUTER FACADE



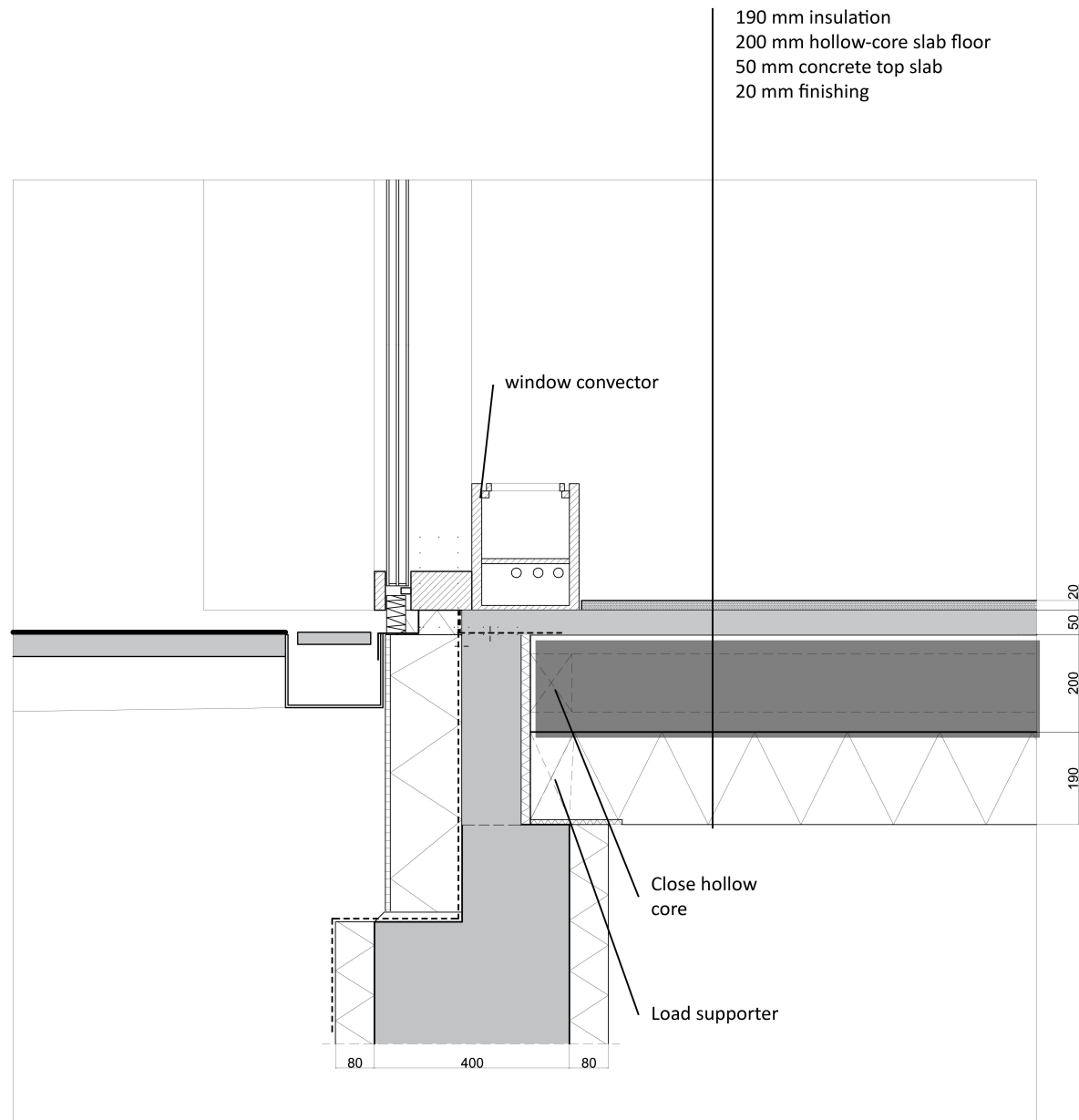


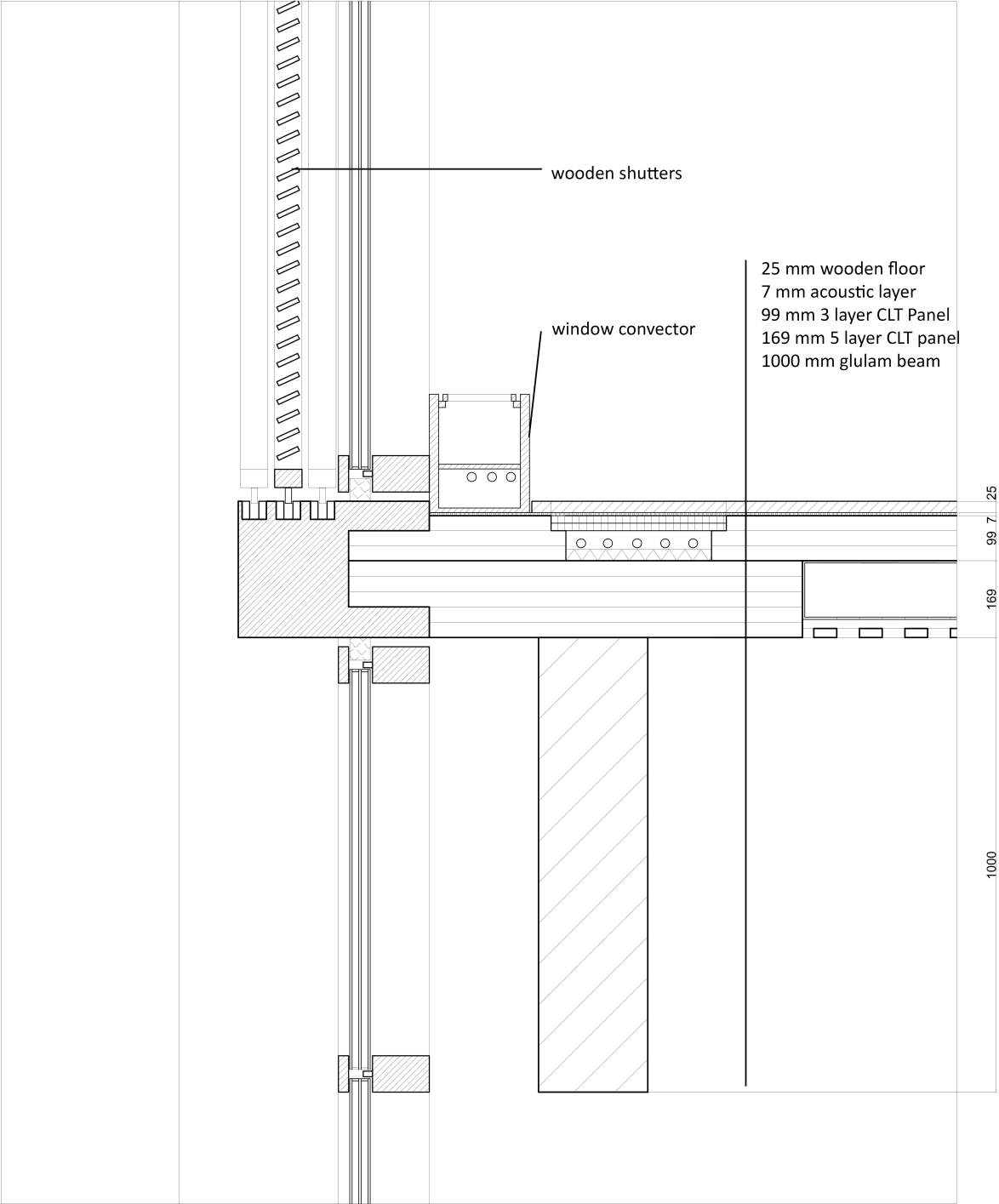


FACADE FRAGMENT COURTYARD FACADE

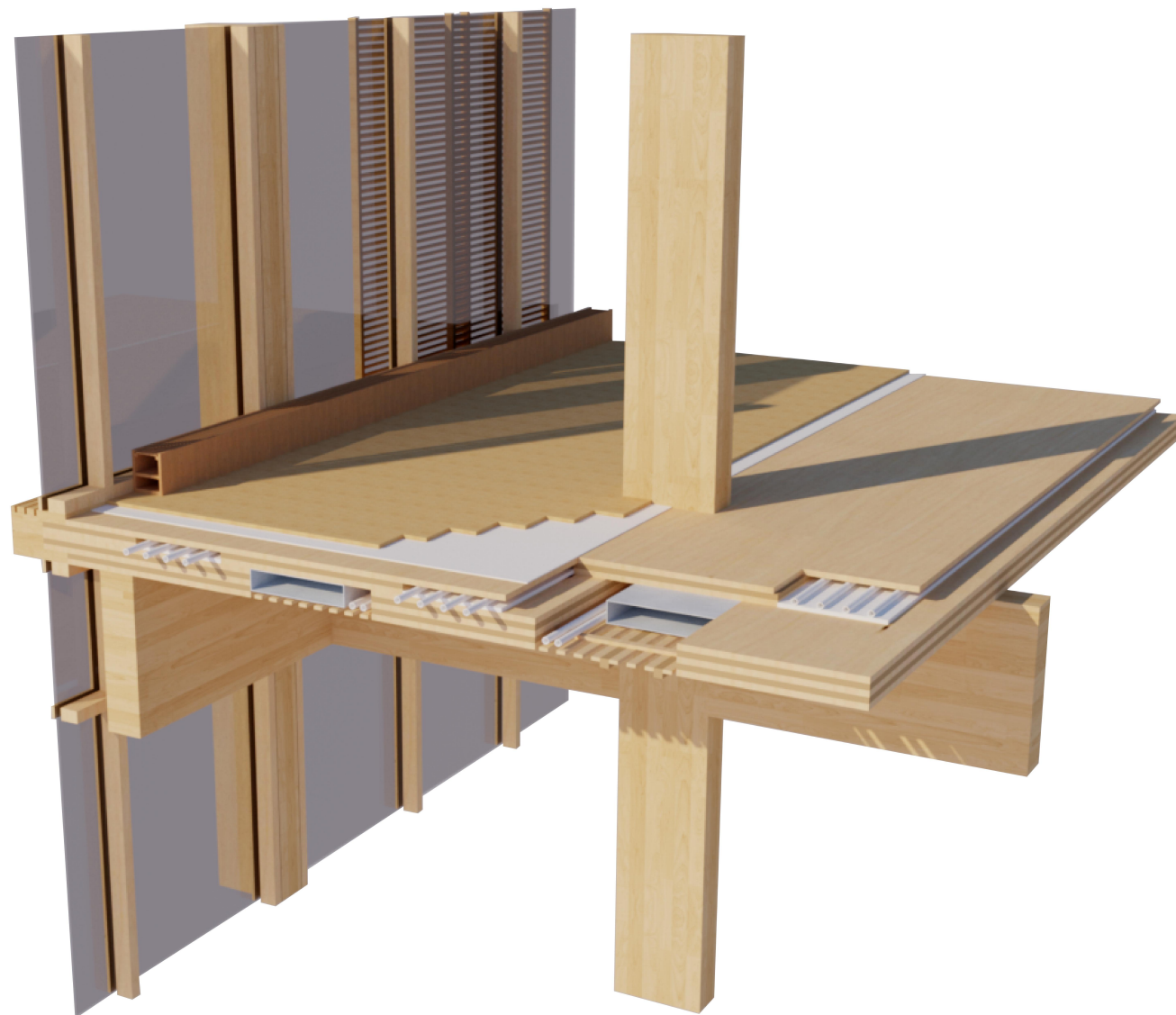


DETAILING OF THE COURTYARD FACADE

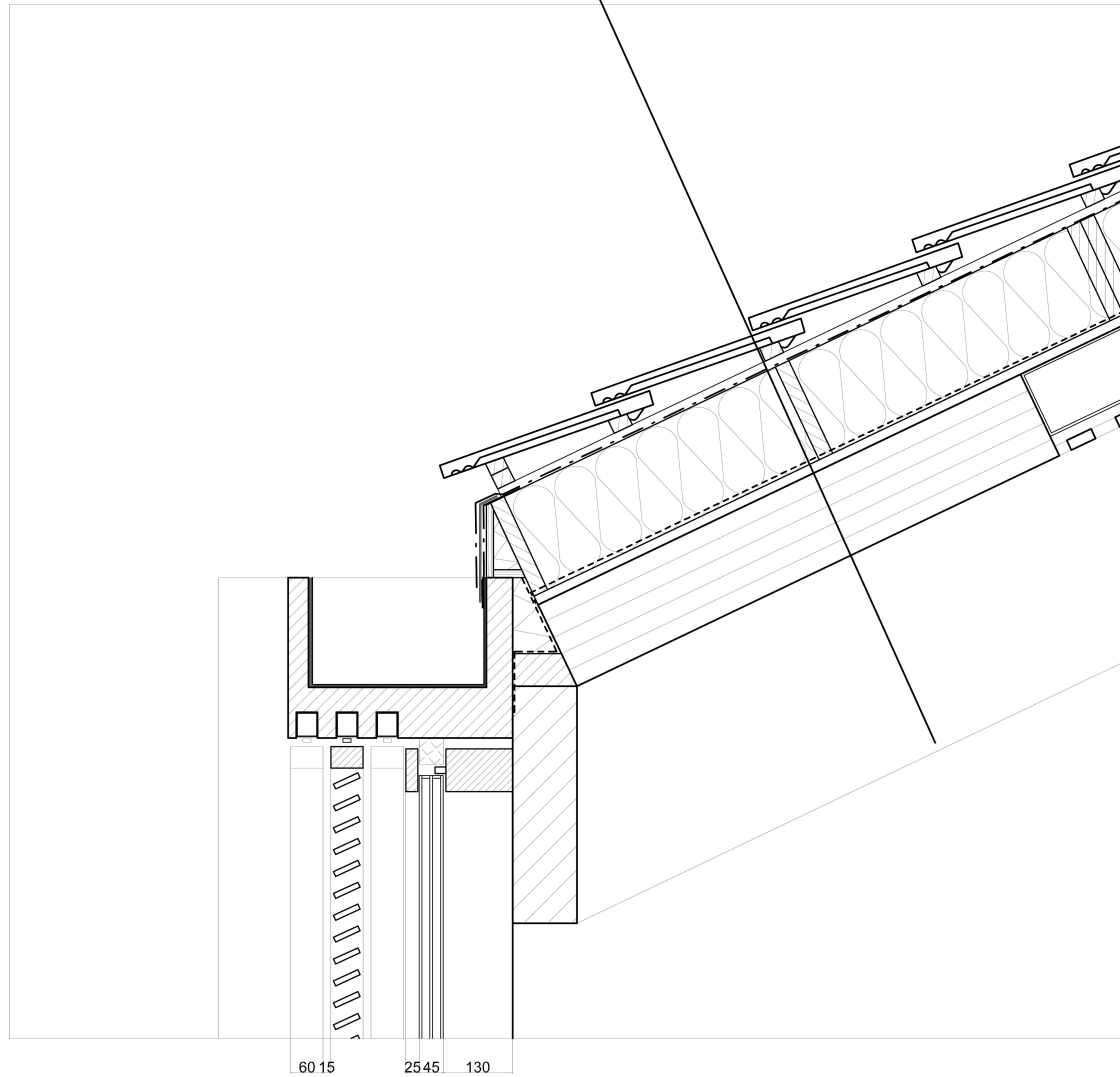




FLOOR ARRANGEMENT



400 mm glulam beam
169 mm 5 layer CLT Panel
250 mm sandwich roof panel
water resistant layer
Solar roof tile



GROUND FLOOR LOBBY/EXHIBITION



ATTRACTION TOWARDS THE LIGHT



A VISIBLE INFRASTRUCTURE



EXHIBITION FURNITURE



A VIEW OF THE CANAL



A LIGHT AND SPACIOUS ATMOSPHERE



CONNECTION TO THE COURTYARD



EXHIBITION FURNITURE BLENDS INTO THE BUILDING



SPACE FOR LECTURES



A SHELTERED TOP FLOOR



SOCIAL RELEVANCE



THANK YOU

