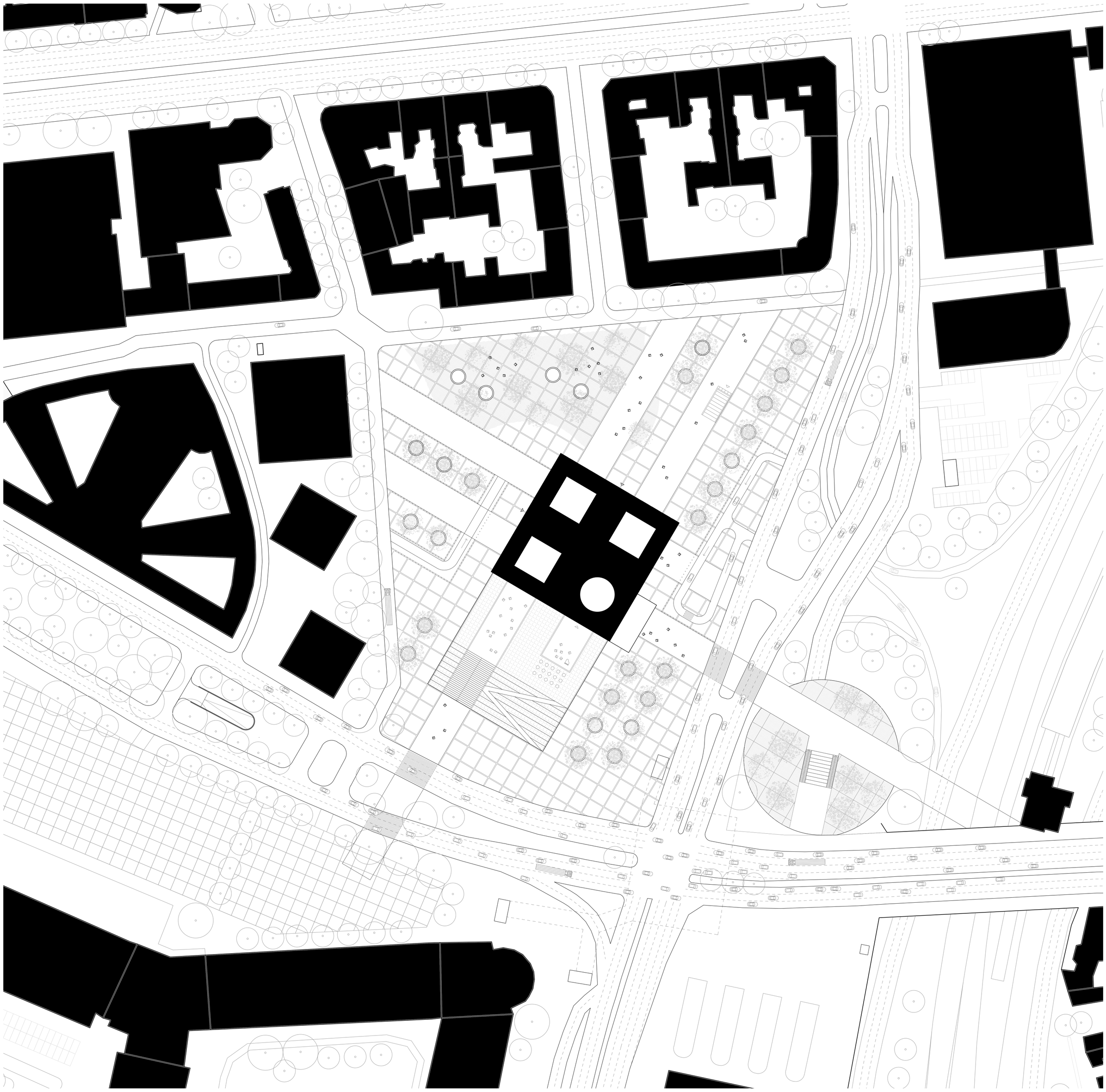
MESSE PERFORMANCE CUBE

Performing Arts Center Berlin

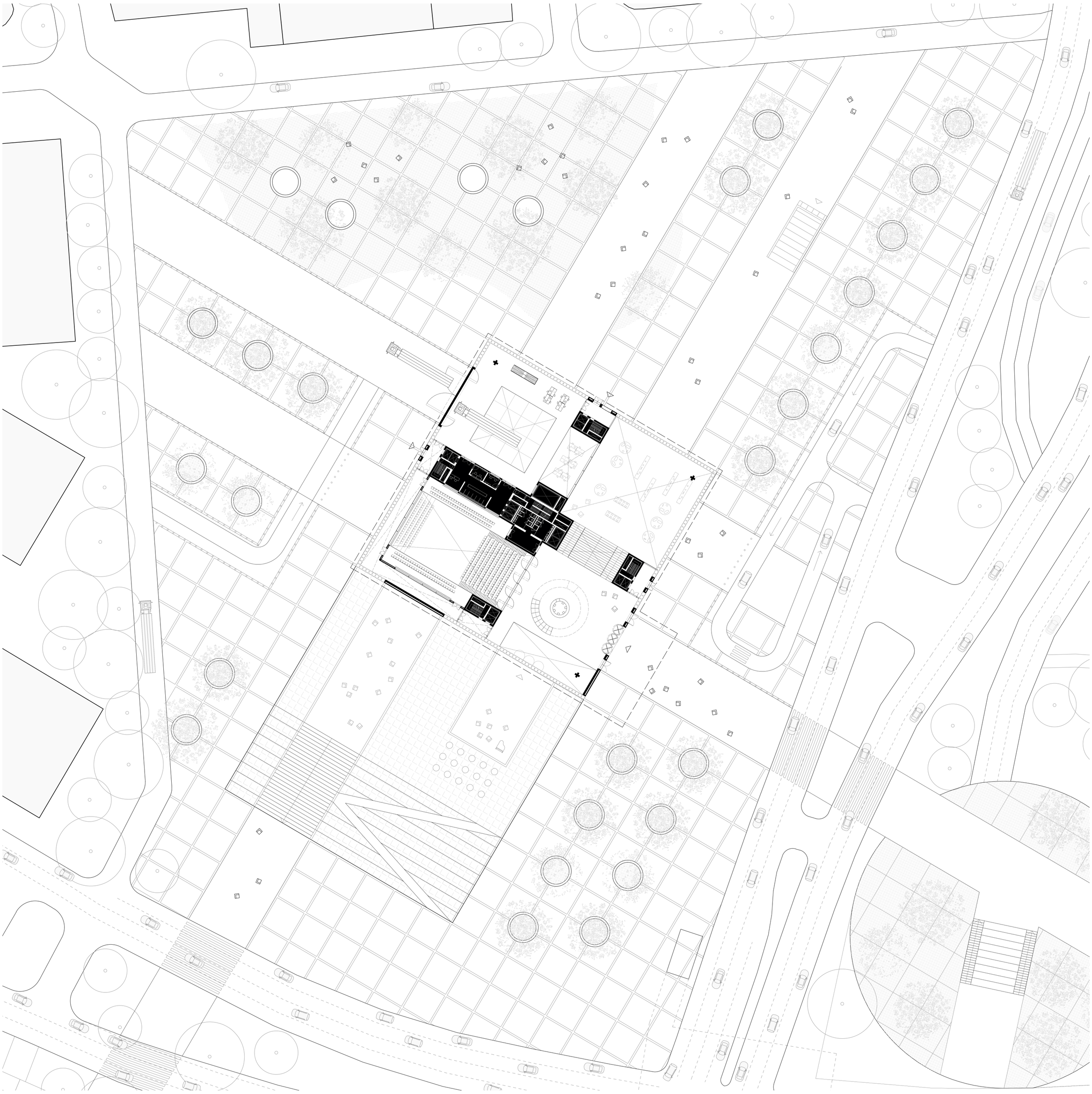
Messe Performance Cube

situation plan



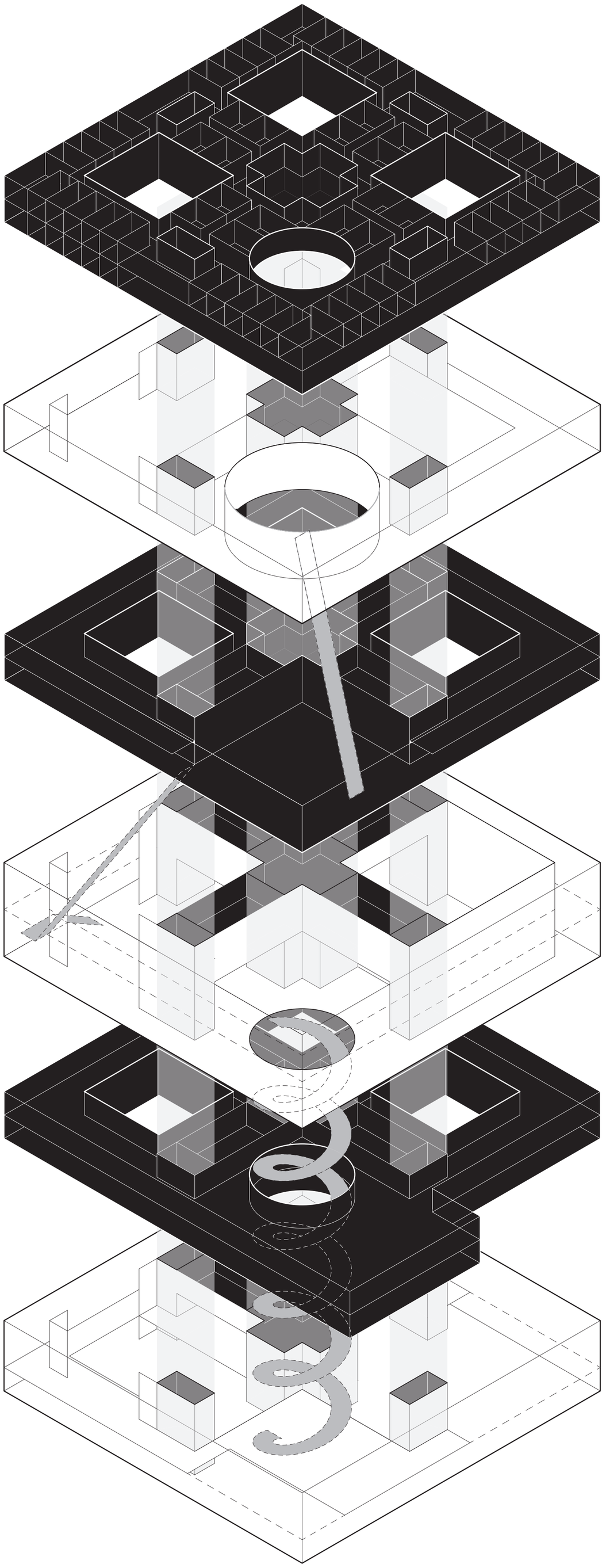
Messe Performance Cube

site plan



Messe Performance Cube

program axonometric



L12/L13 SUPPORT SPACES
rooftop bar
hotel lobby
hotel rooms
technical space

L10/L11 PERFORMANCE NETWORK
arena theater
perf./staff canteen
perf. lounge
drama & dance rehearsal
terrace

L08/L09 SUPPORT SPACES
arena lobby
management
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage
vocal/instr. rehearsal

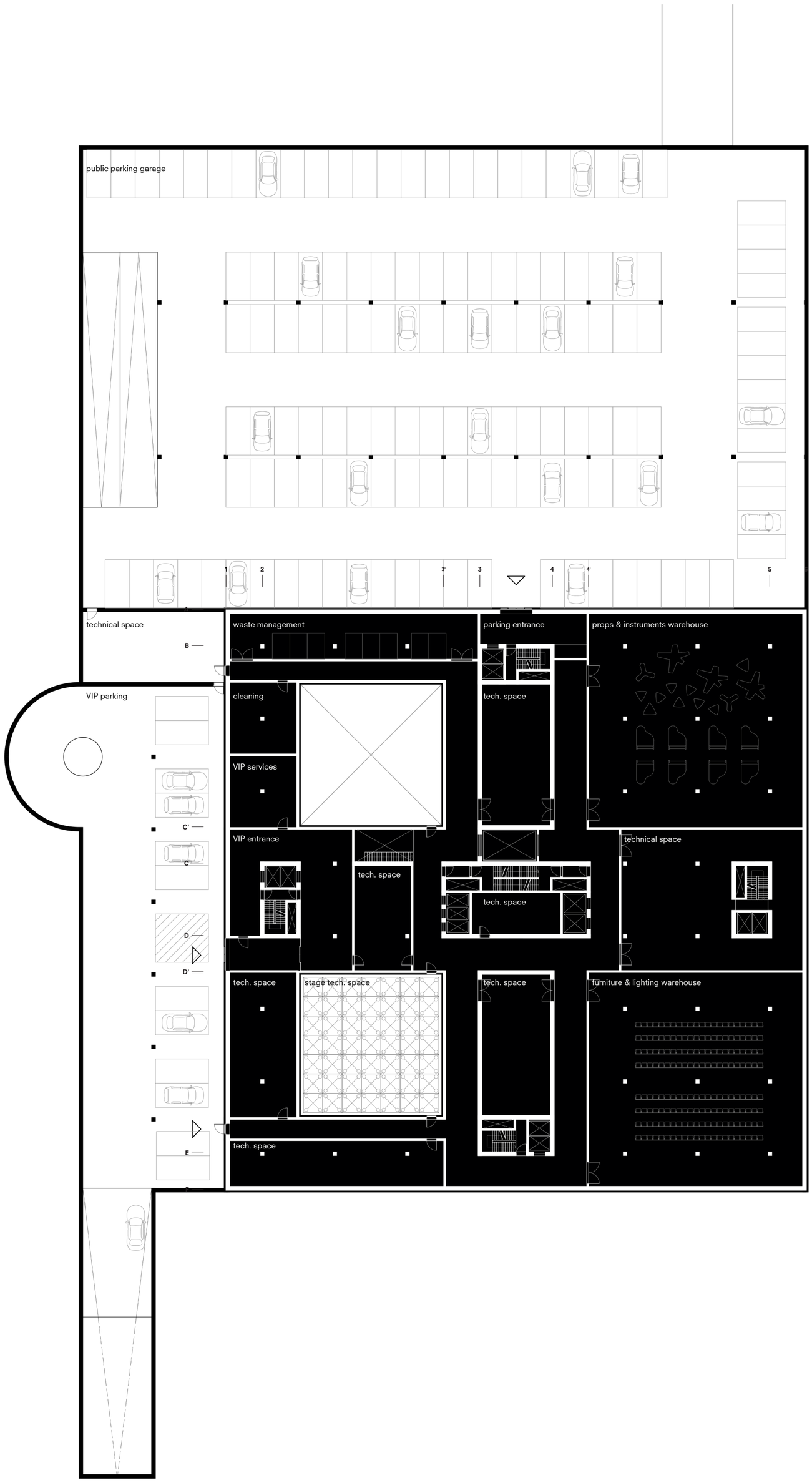
L04-L07 PERFORMANCE NETWORK
foyer
stage
auditorium

L02/L03 SUPPORT SPACES
bar/restaurant
offices
dressing rooms
make-up rooms
costume
technical space
sound & lighting
storage

GF00/L01 PERFORMANCE NETWORK
entrance
exhibition
black box
delivery bay
workshop

Messe Performance Cube

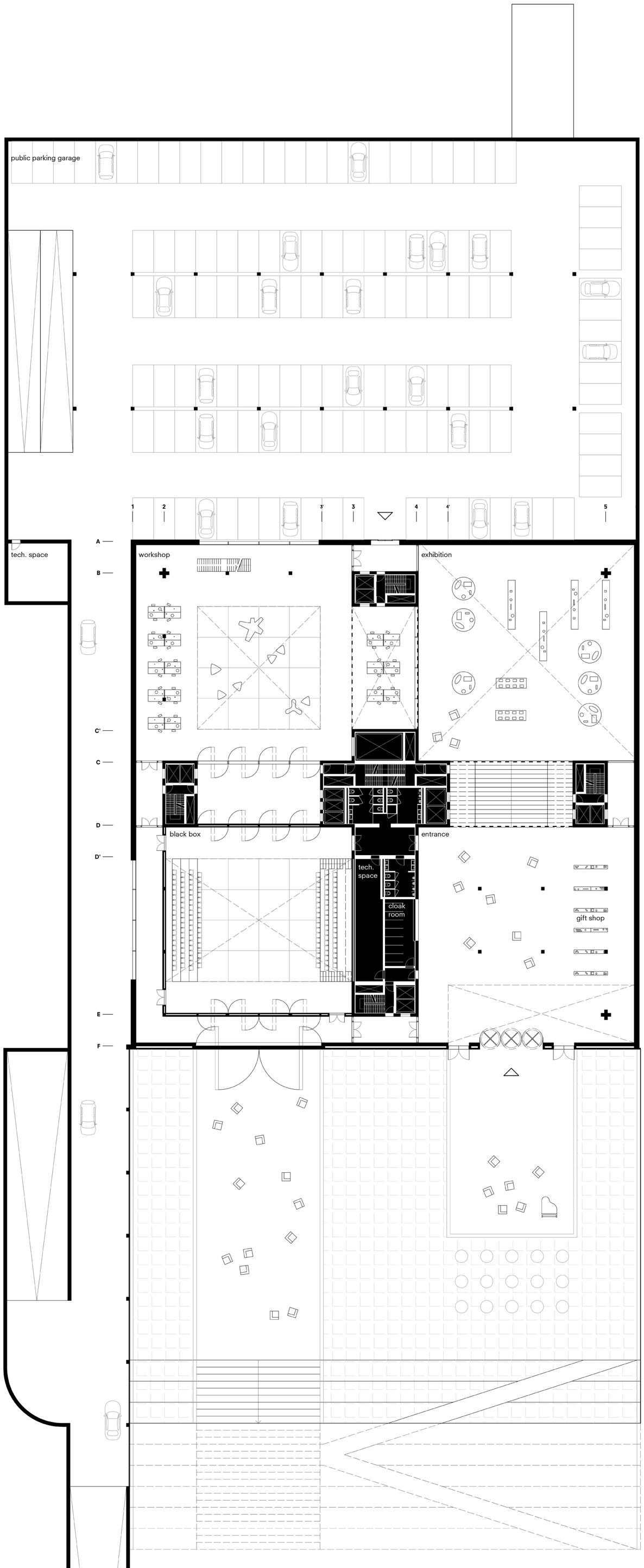
B-02 floor plan



2m 10m

Messe Performance Cube

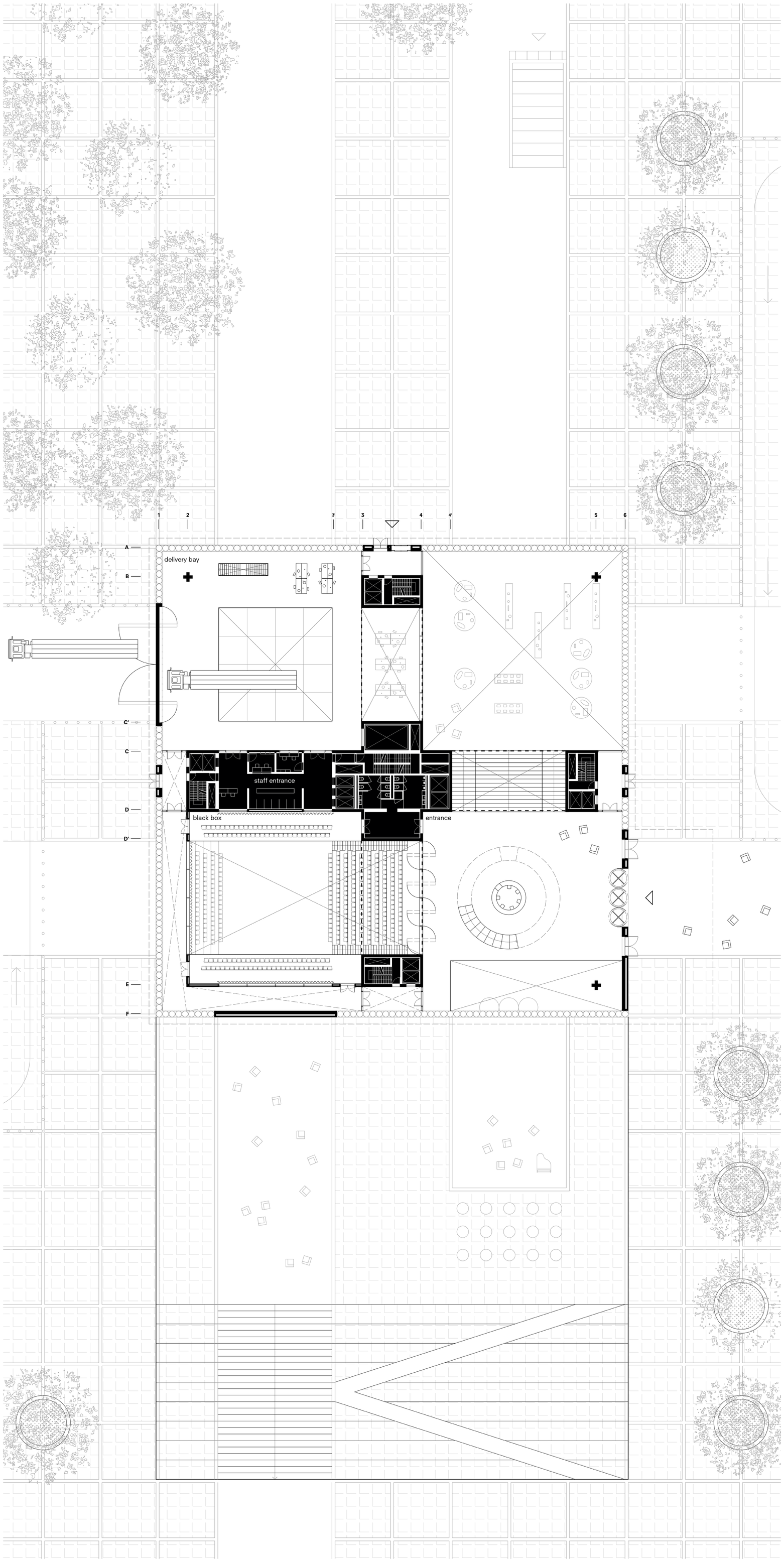
B-01 floor plan



2m 10m

Messe Performance Cube

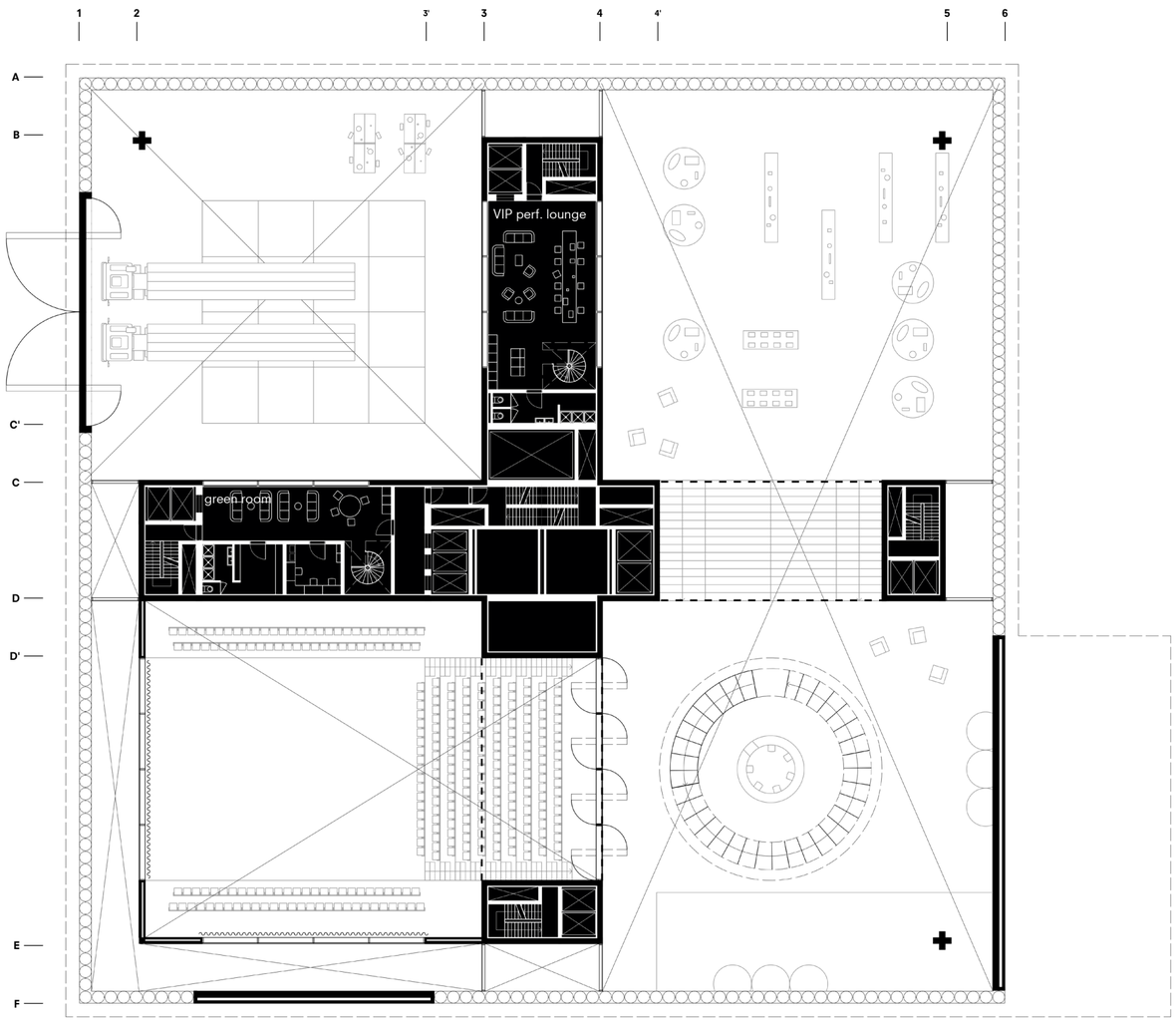
GF00 floor plan



2m 10m

Messe Performance Cube

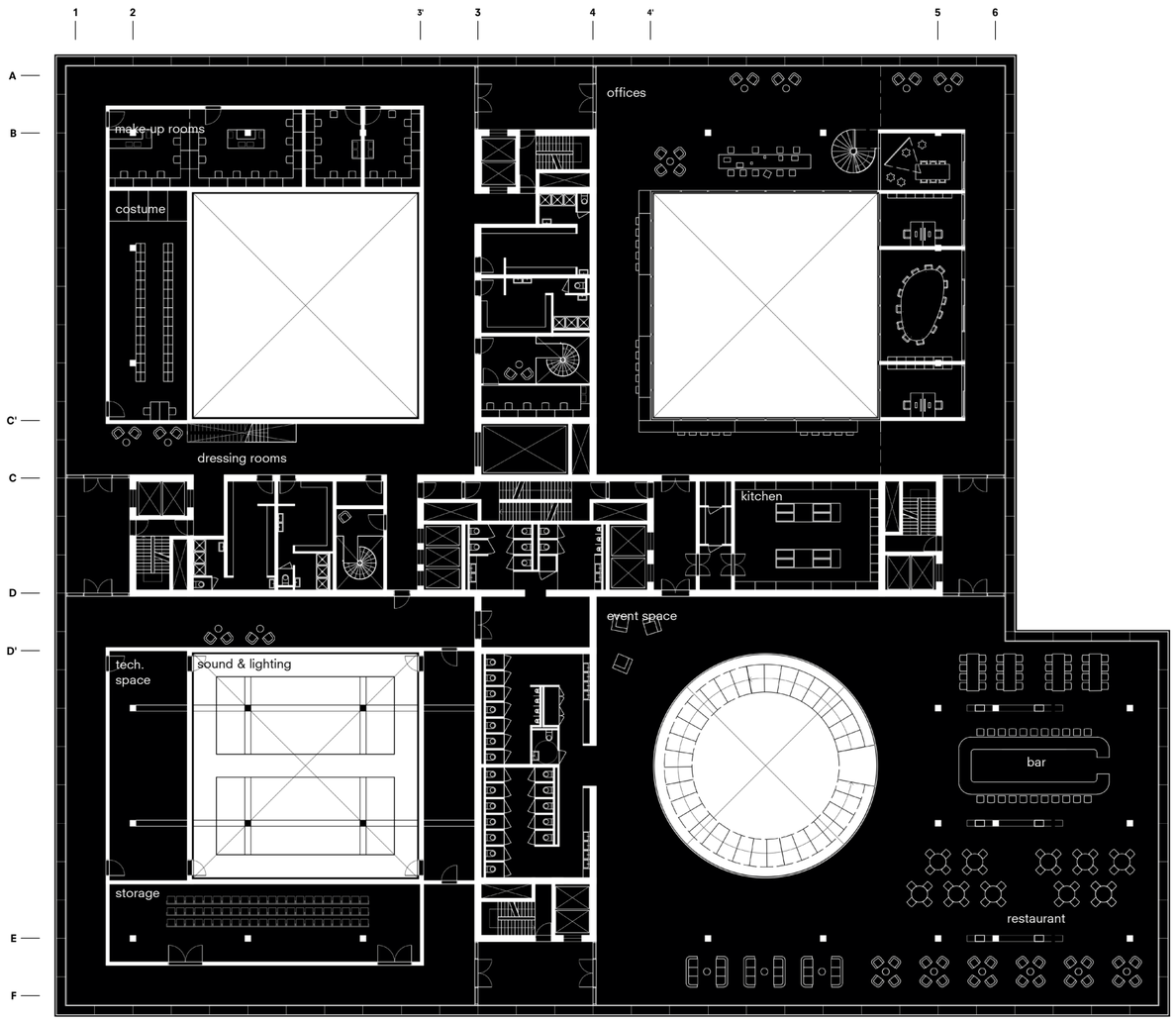
L01 floor plan

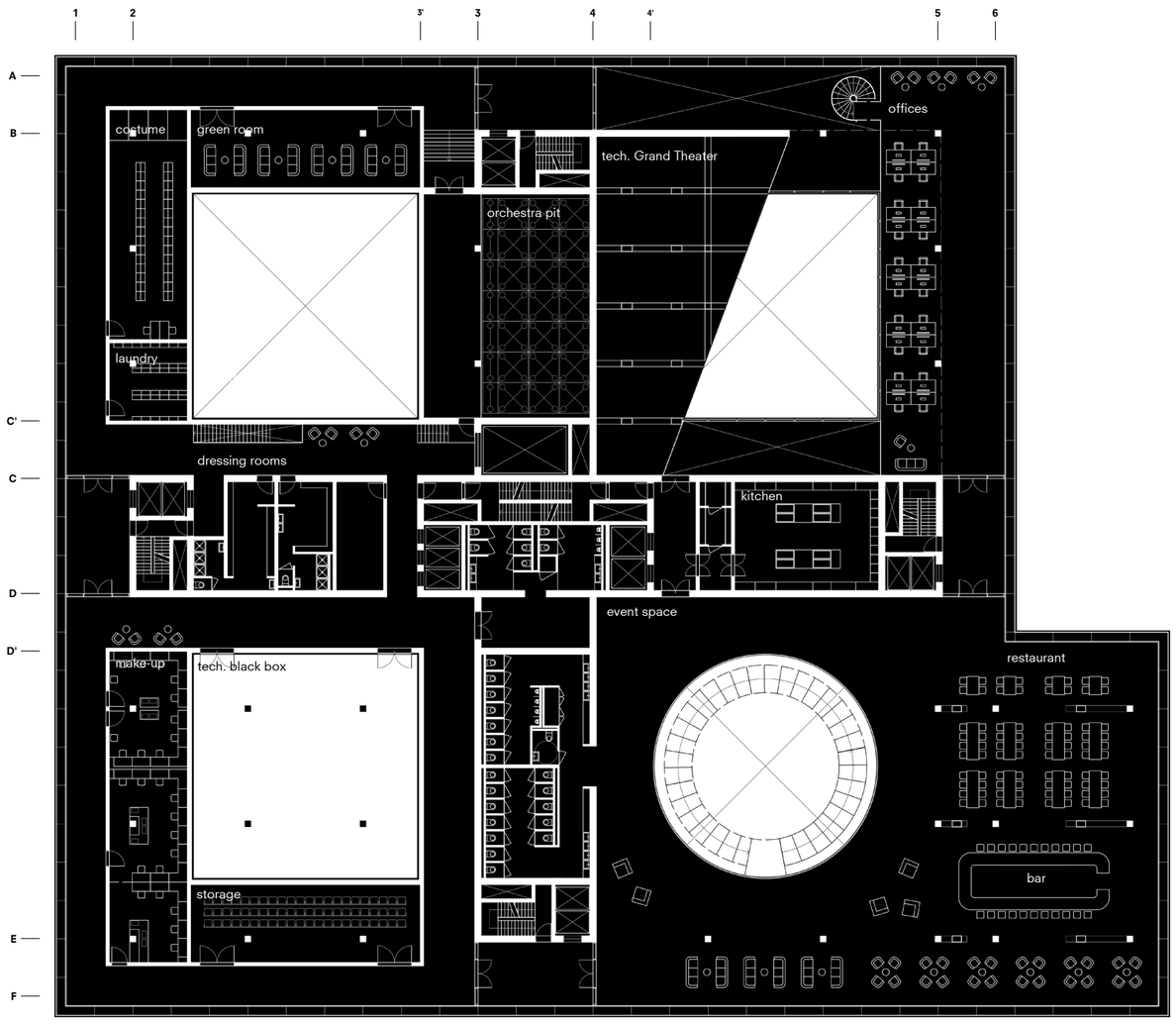


2m 10m

Messe Performance Cube

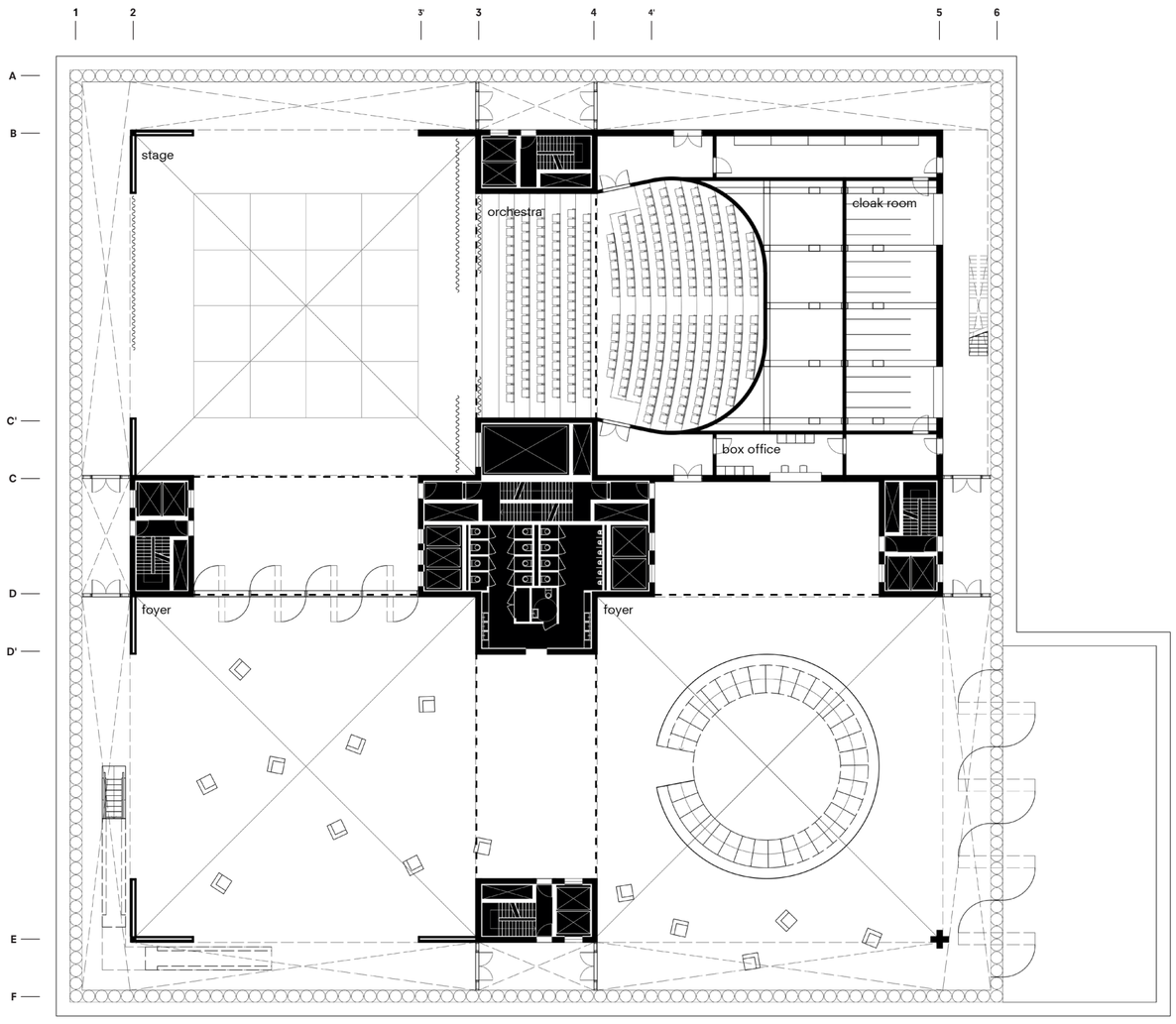
L02 & L03 floor plan

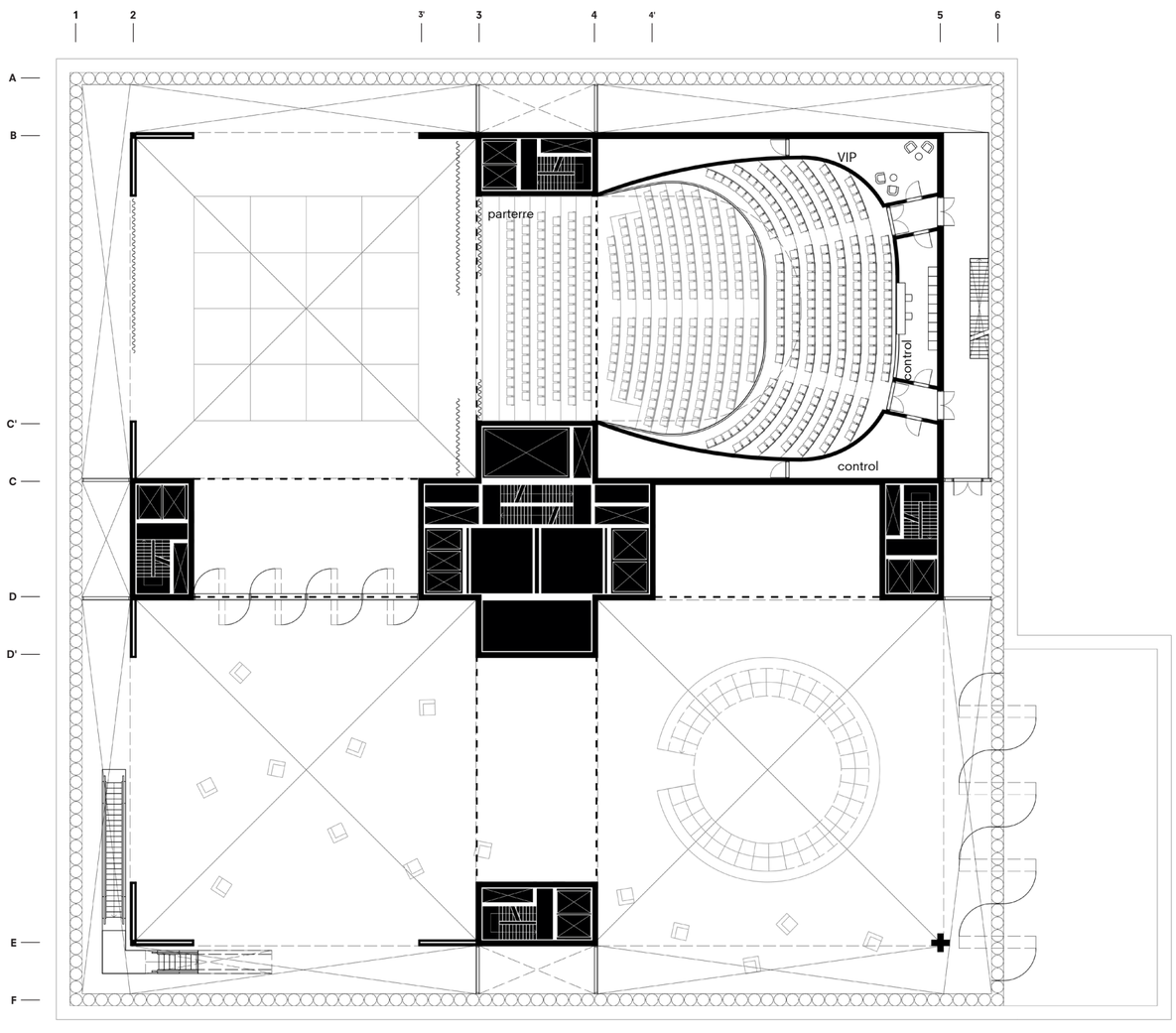




Messe Performance Cube

L04 & L05 floor plan

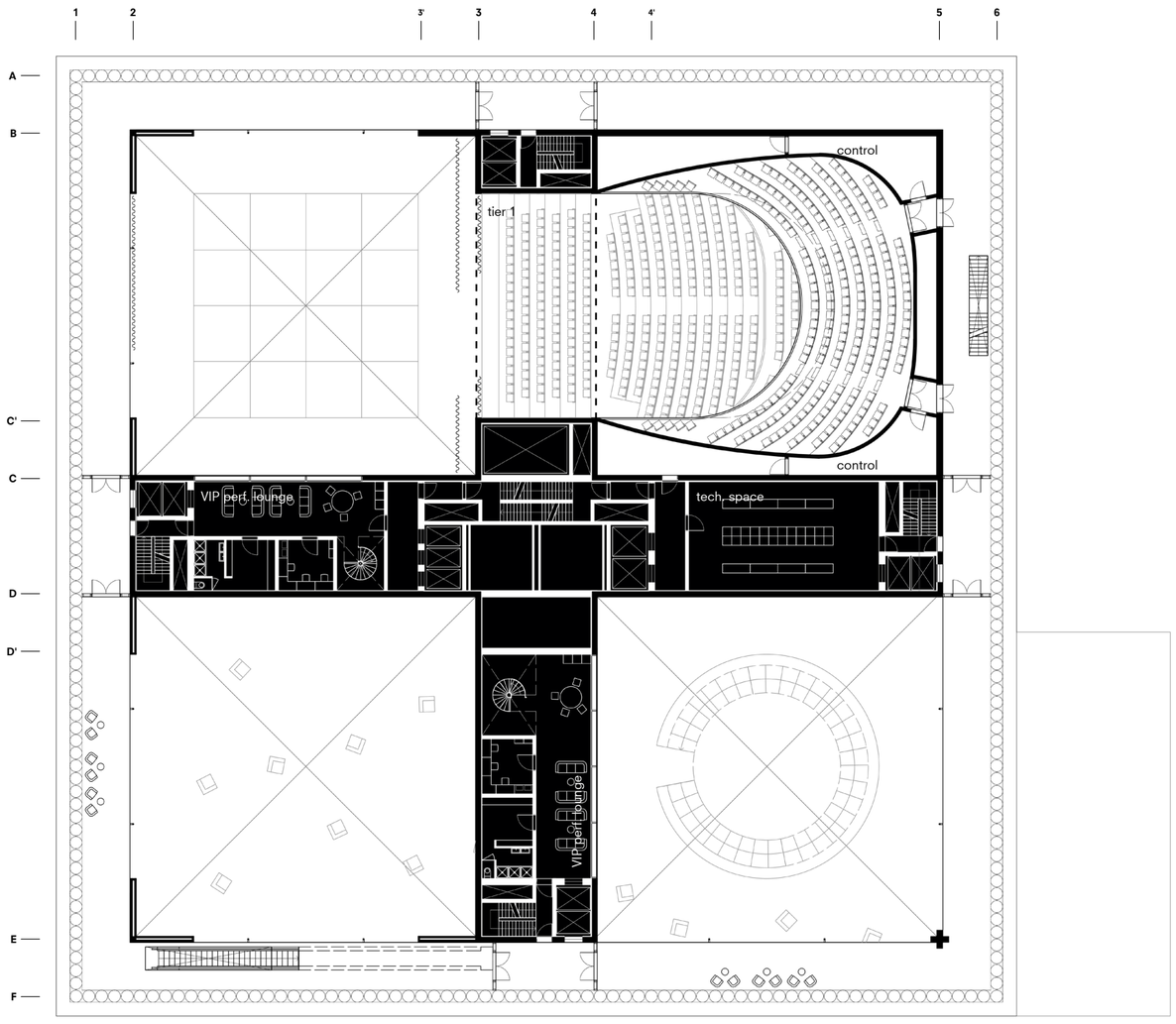




2m 10m

Messe Performance Cube

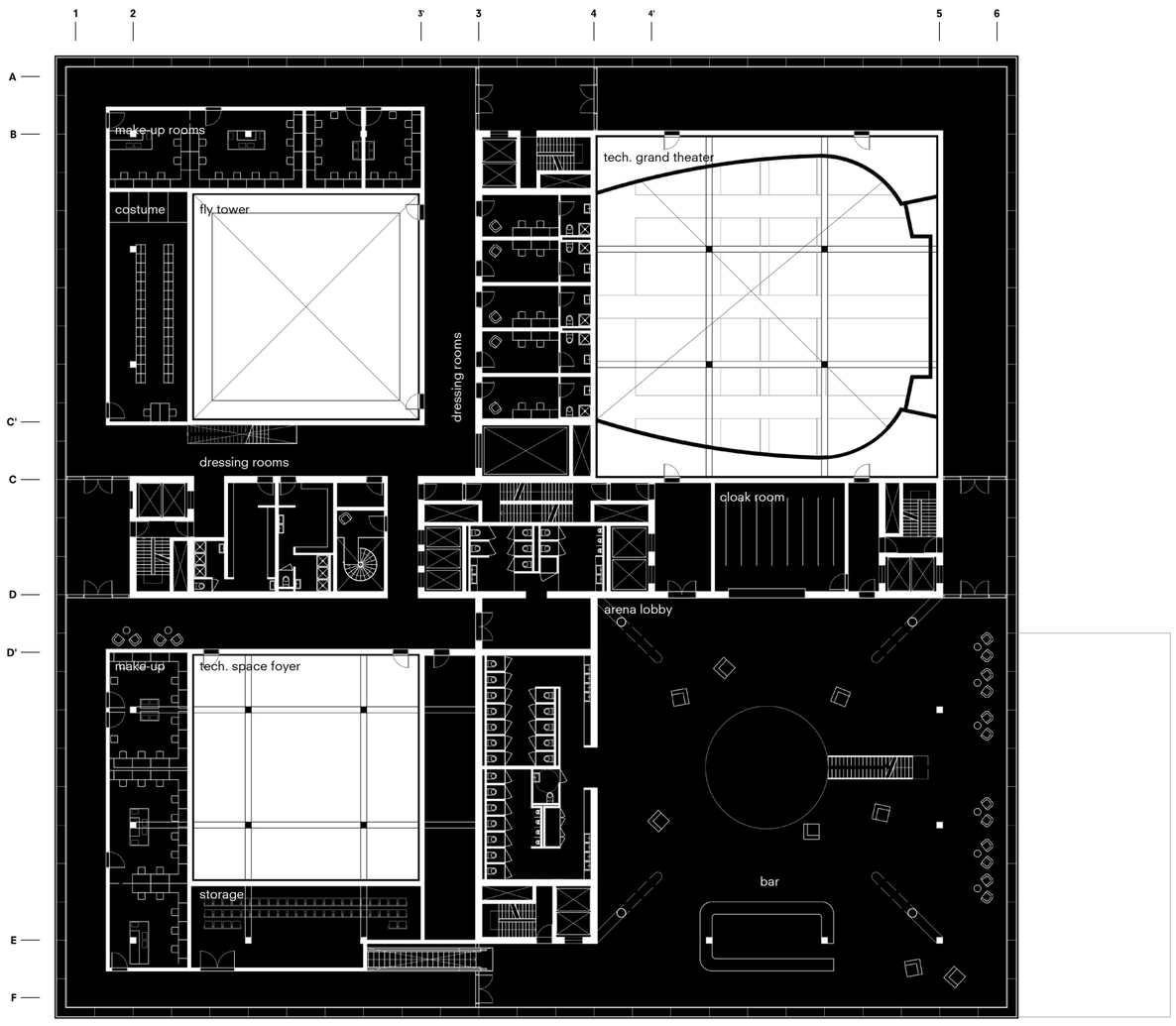
L06 & L07 floor plan

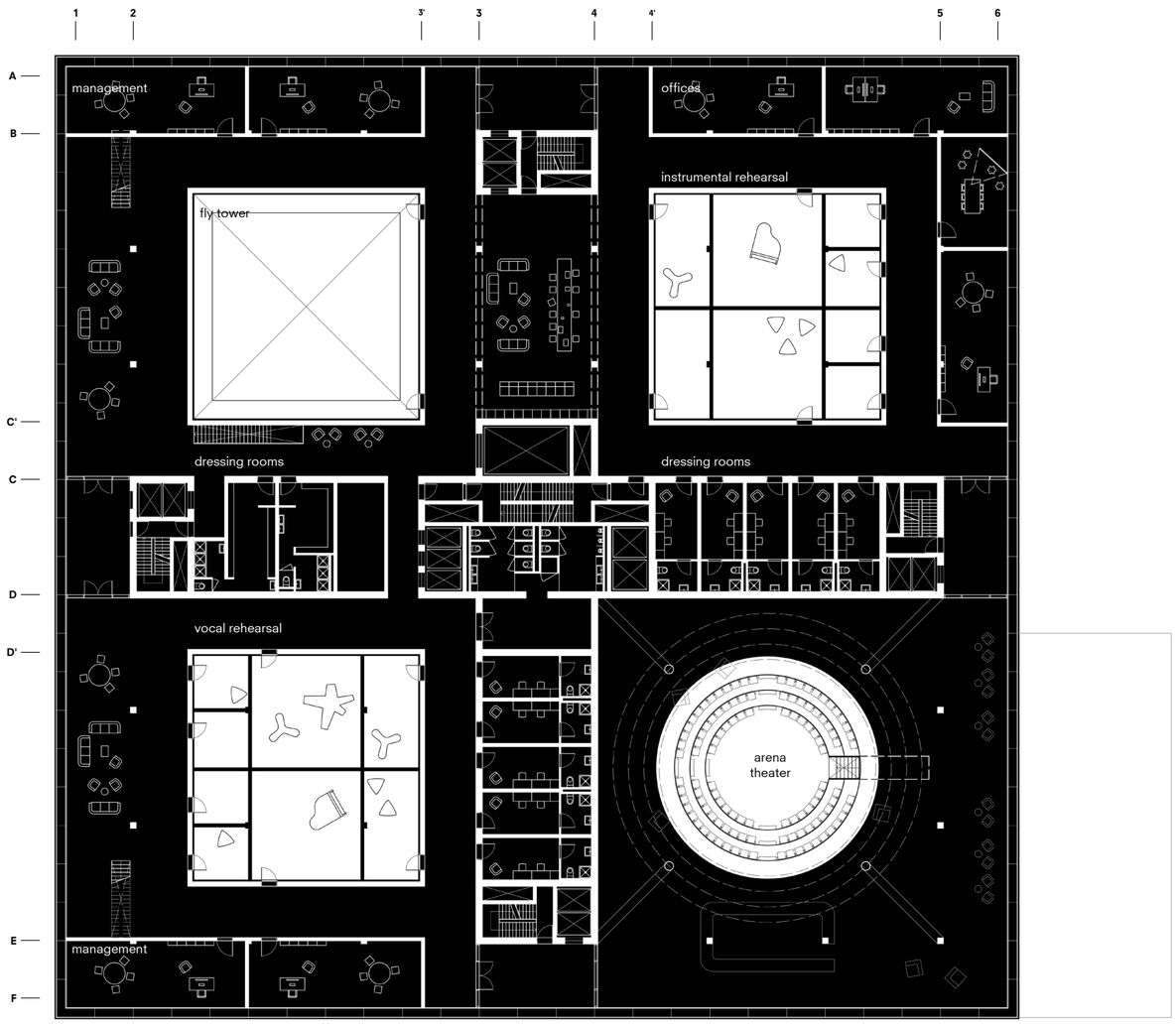


2m 10m

Messe Performance Cube

L08 & L09 floor plan

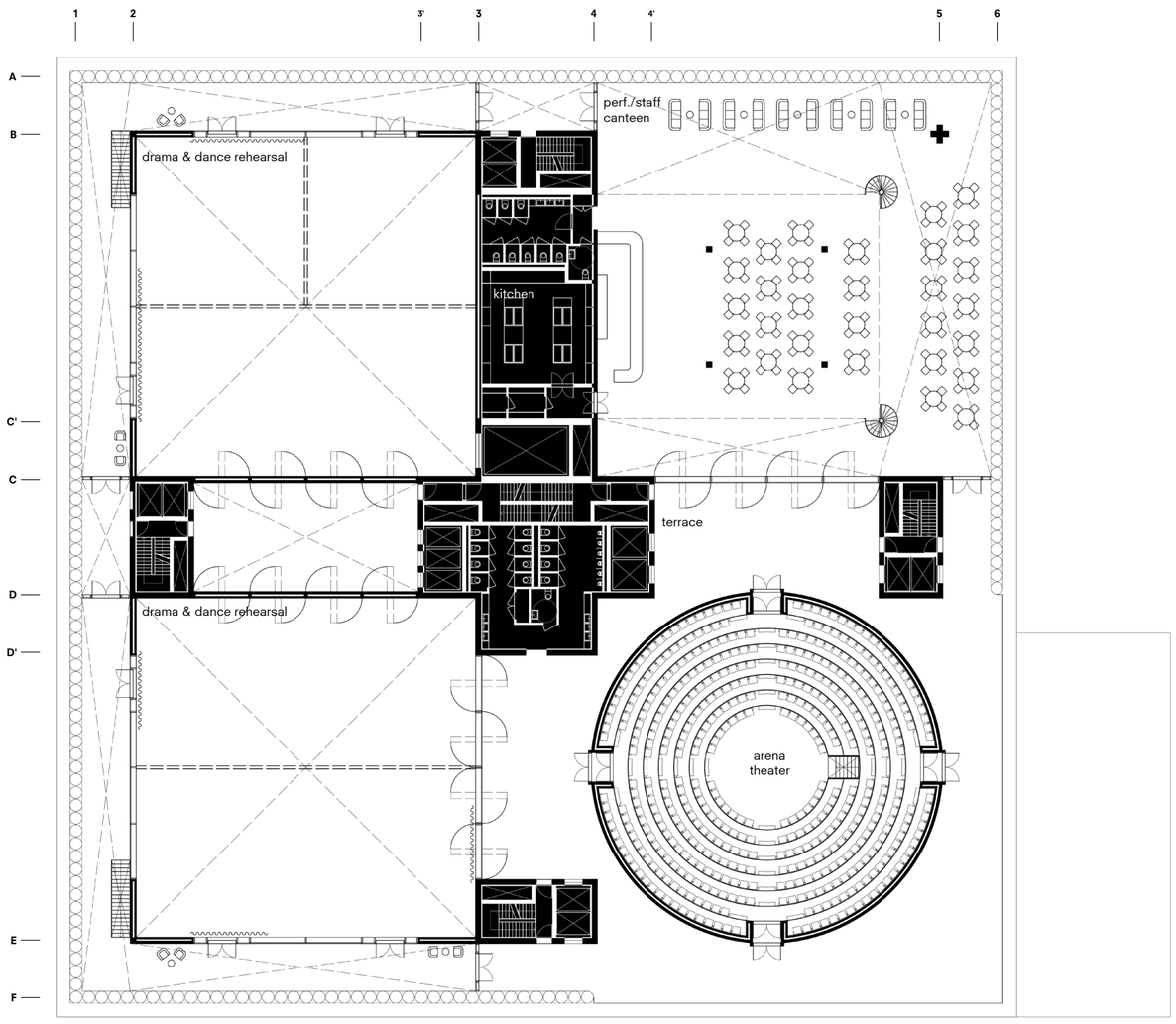


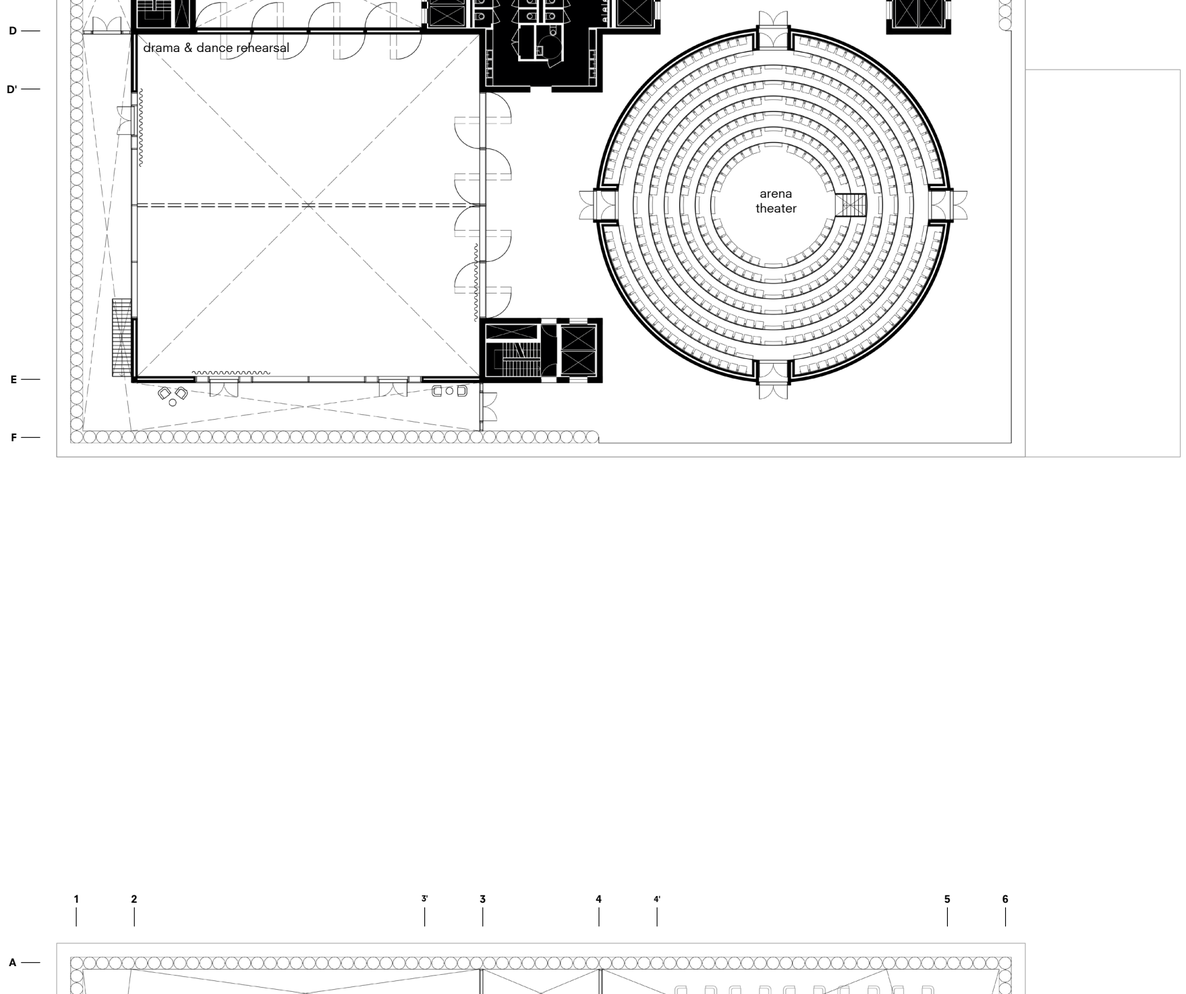


2m 10m

Messe Performance Cube

L10 & L11 floor plan

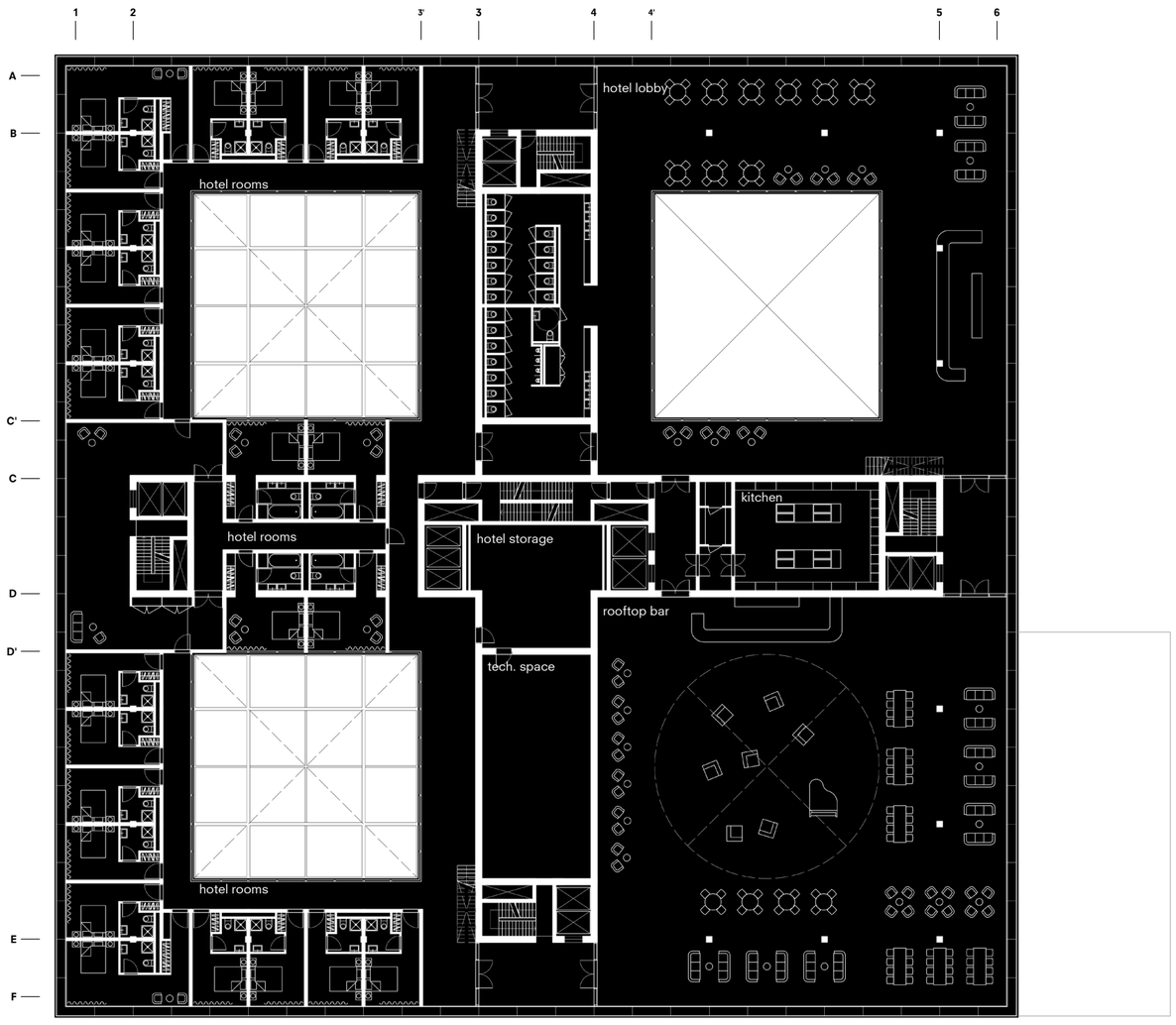


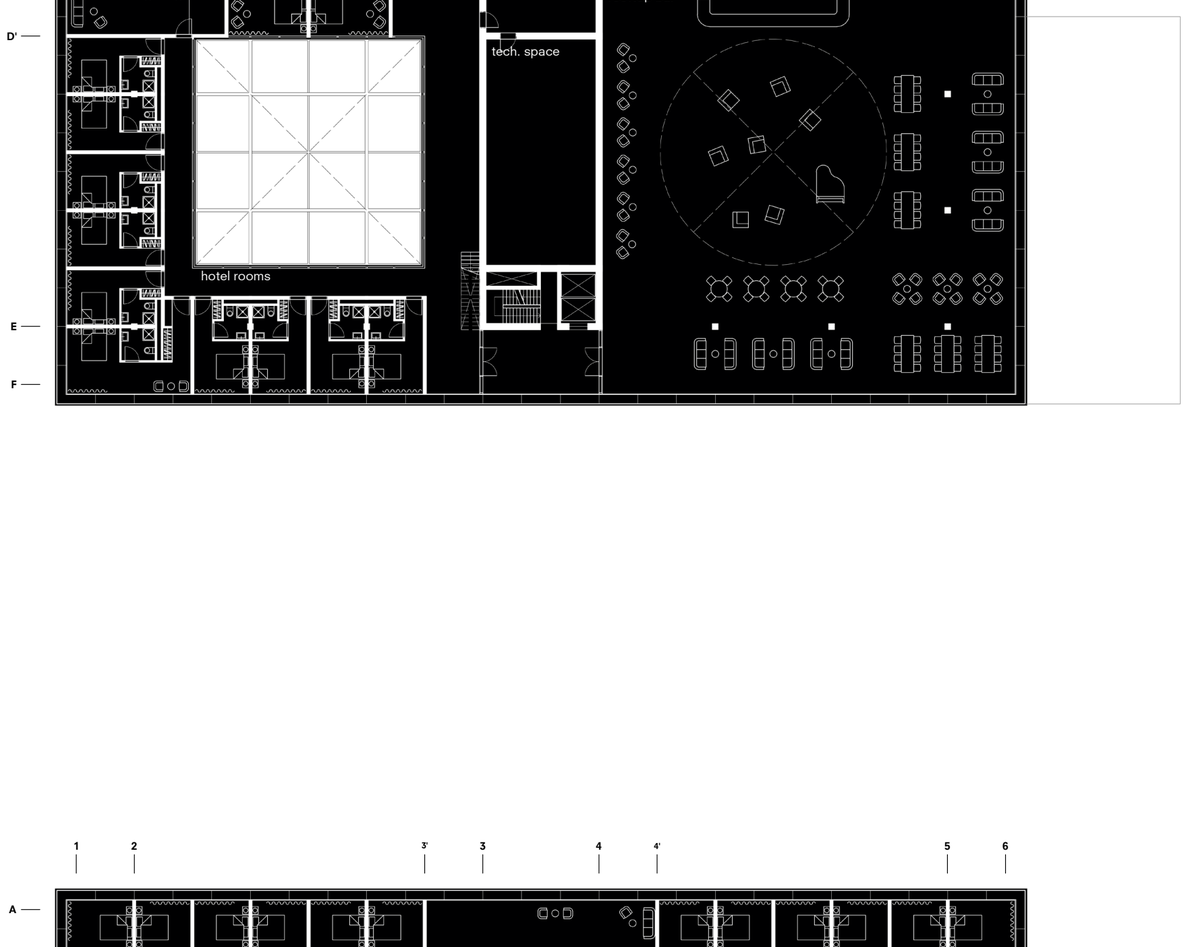


2m 10m

Messe Performance Cube

L12 & L13 floor plan

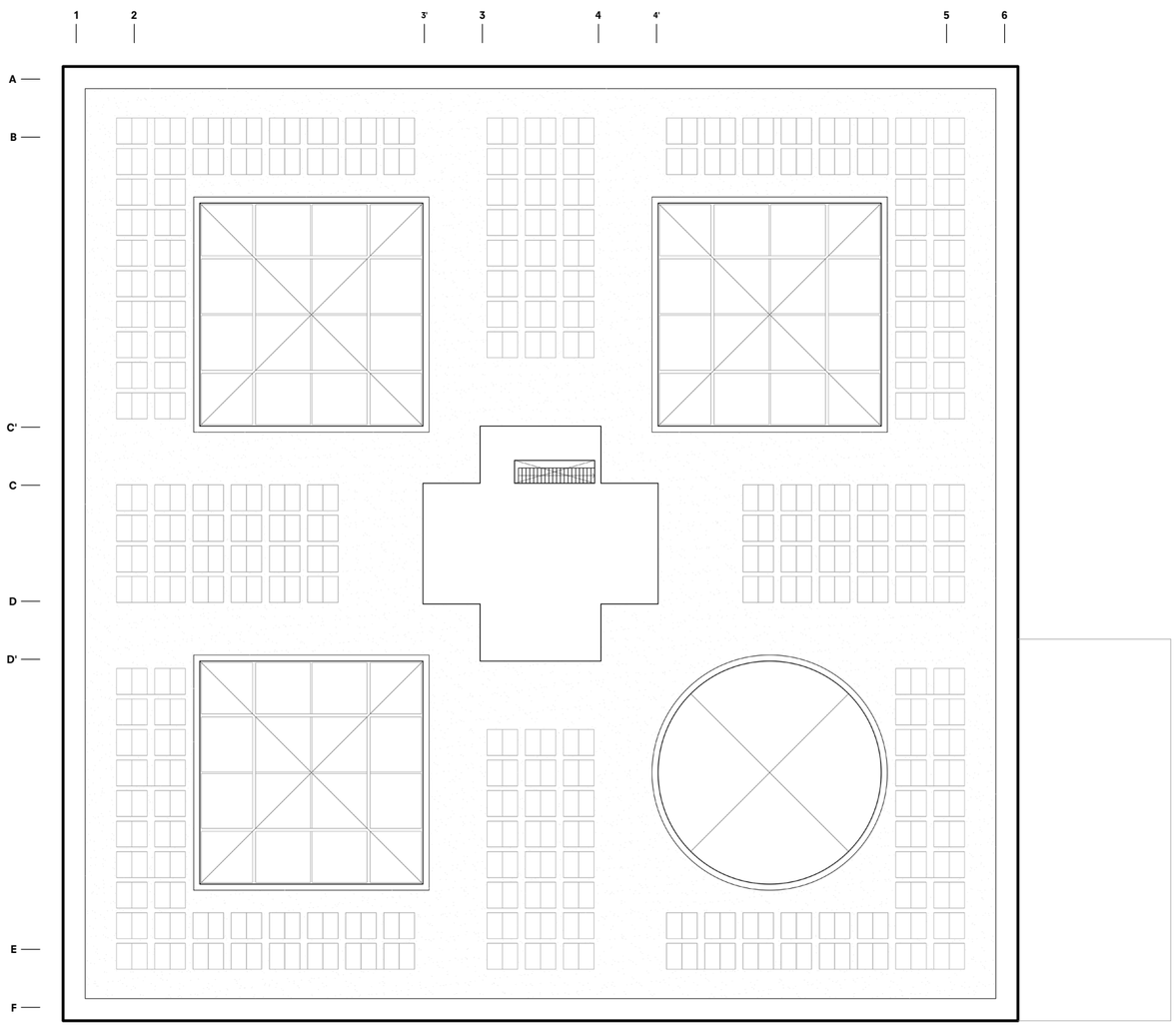




2m 10m

Messe Performance Cube

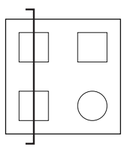
R14 roof plan

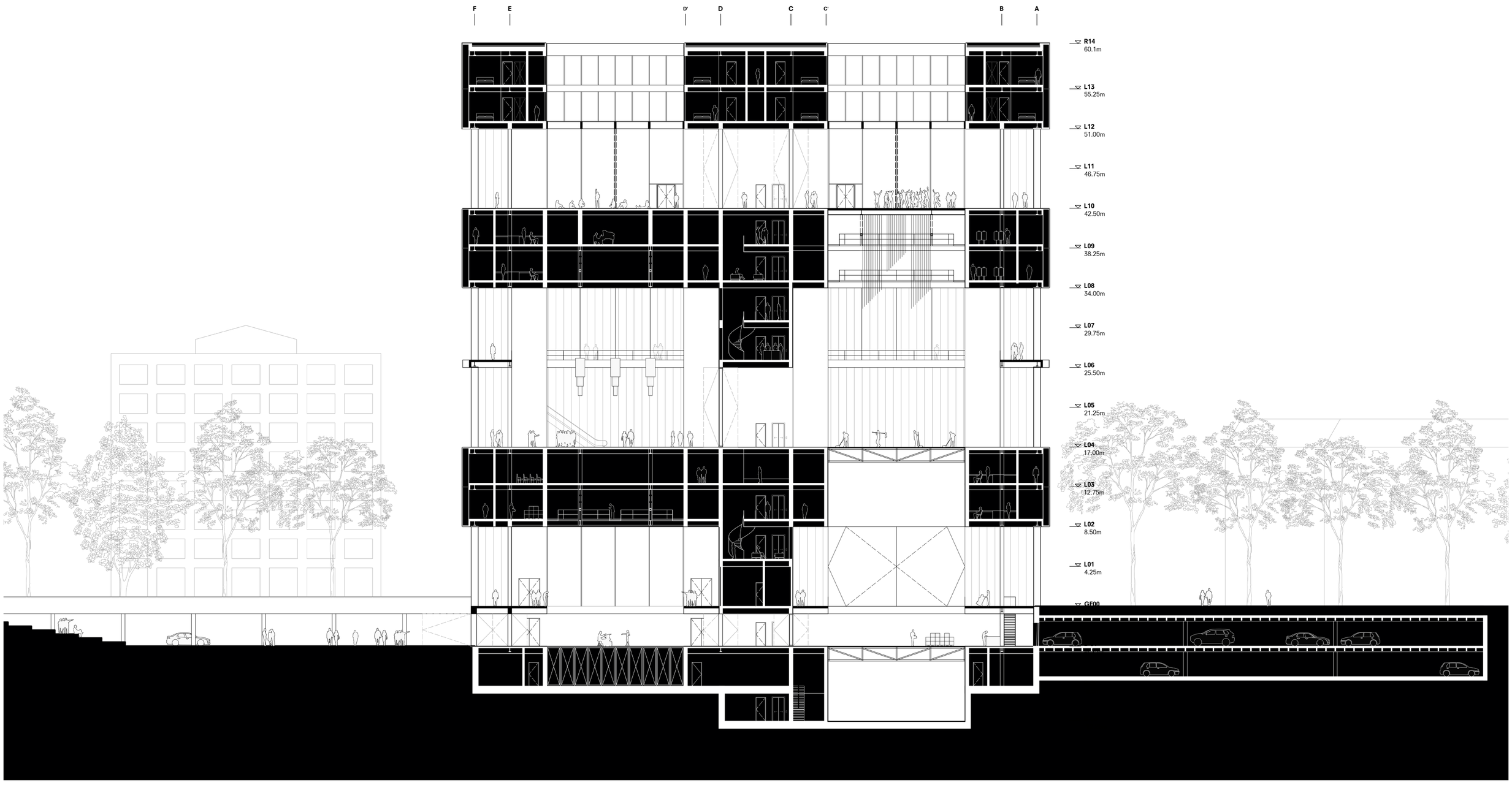


2m 10m

Messe Performance Cube

section AA

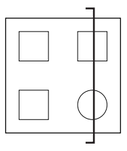


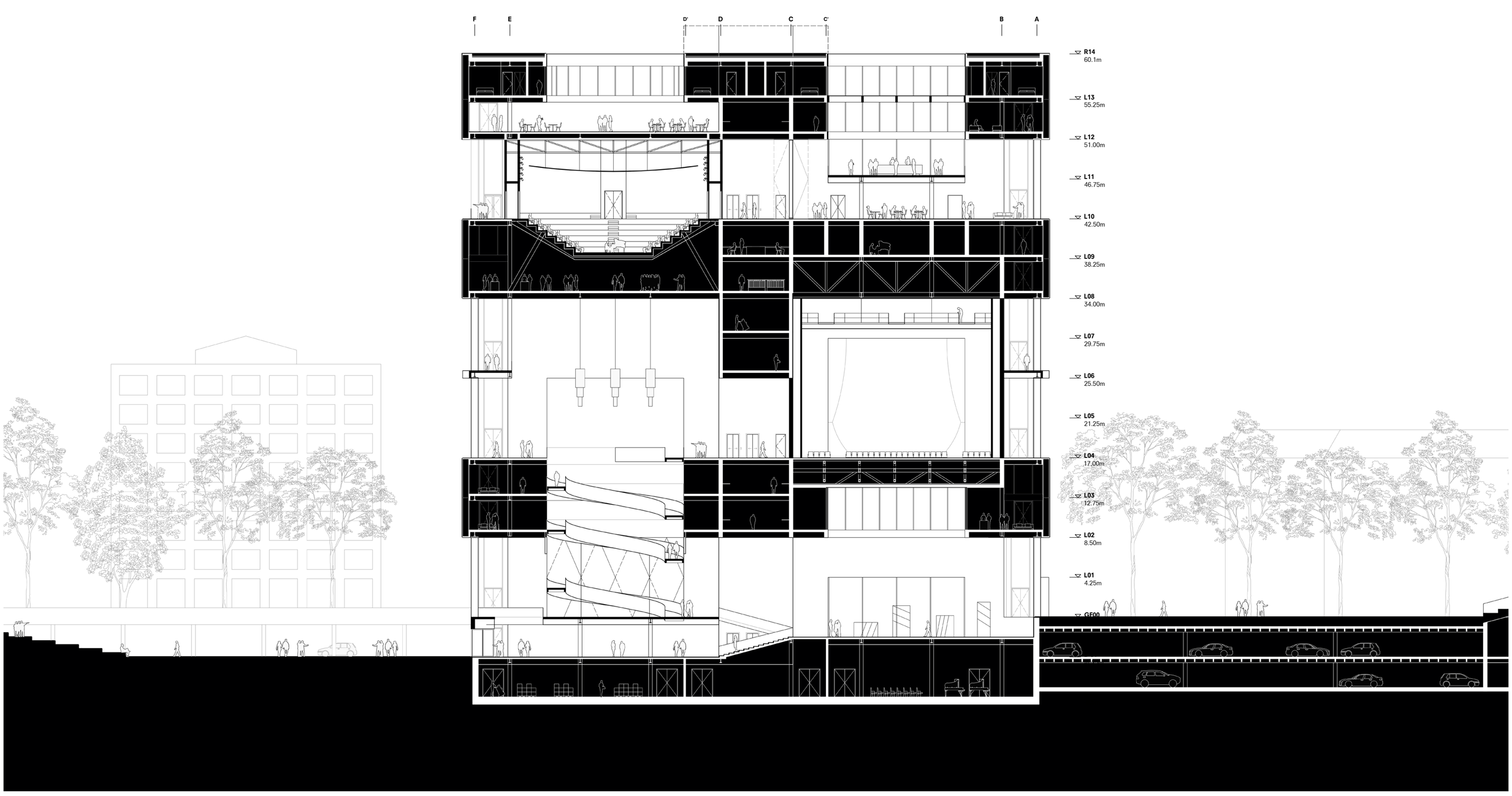


2m 10m

Messe Performance Cube

section BB

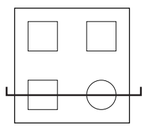


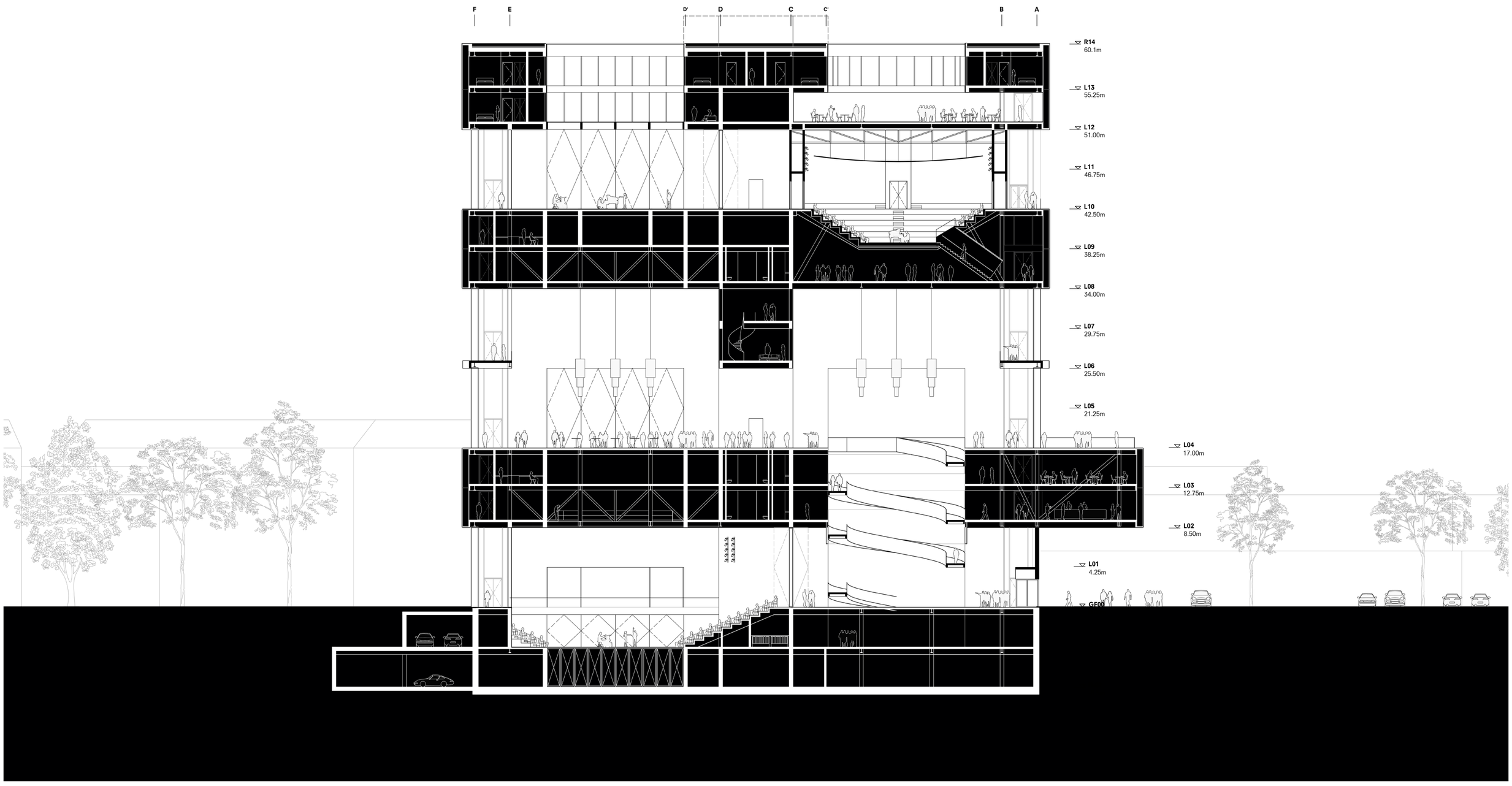


2m 10m

Messe Performance Cube

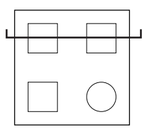
section CC

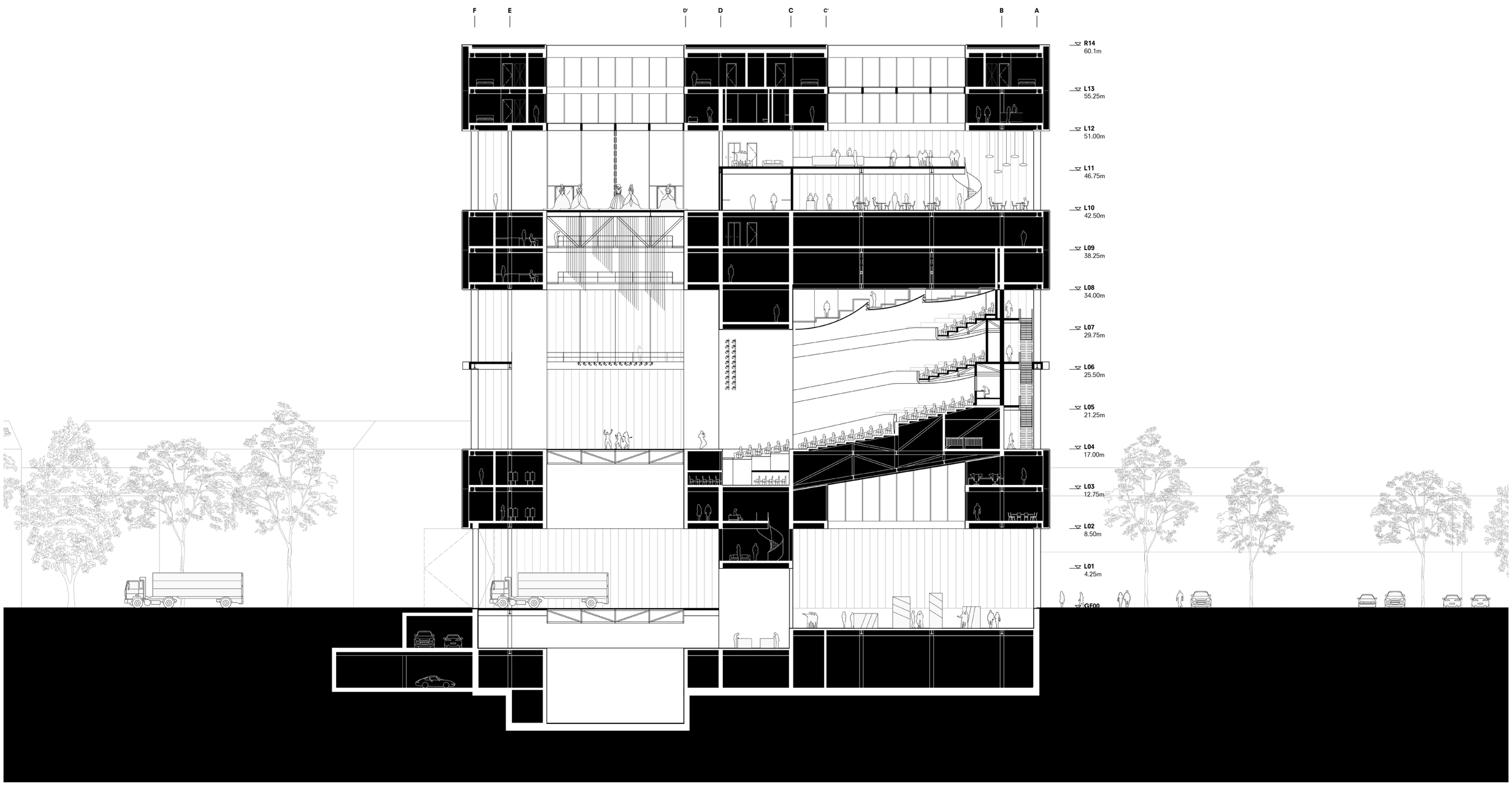




Messe Performance Cube

section DD

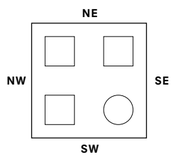


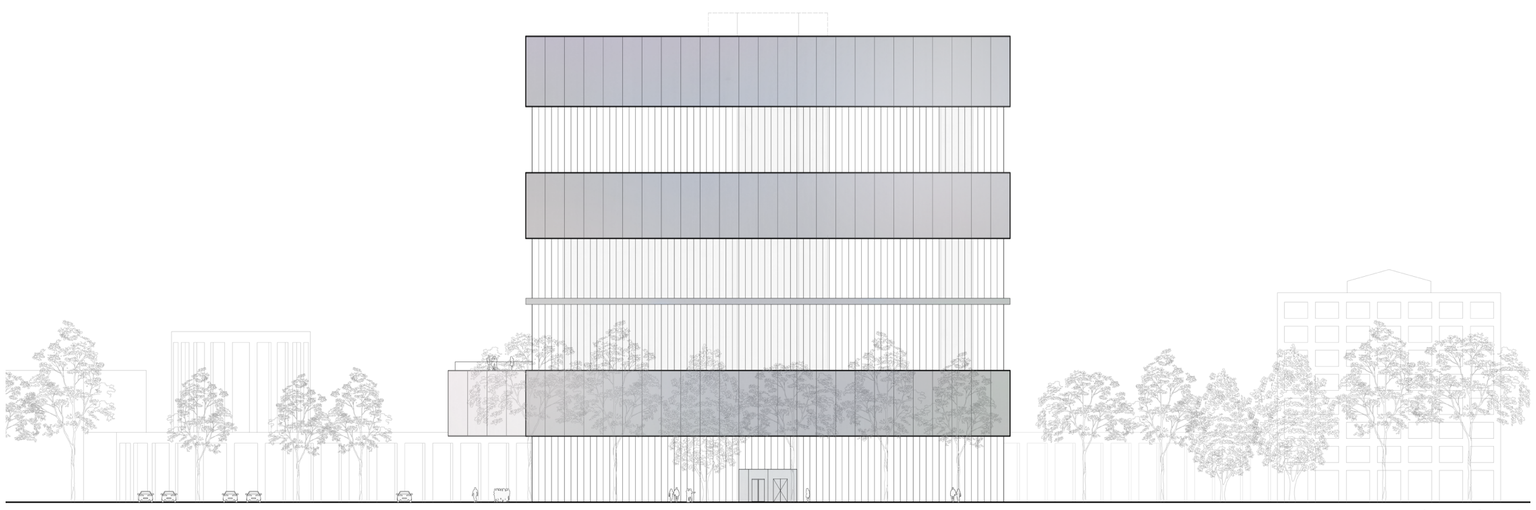


2m 10m

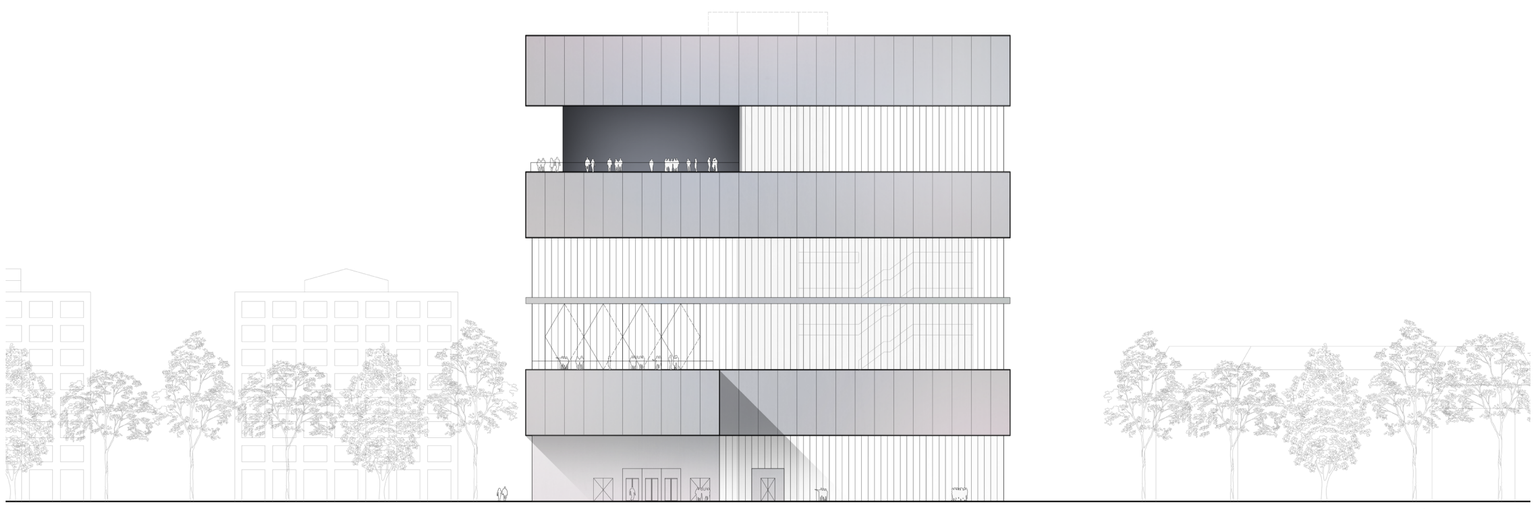
Messe Performance Cube

elevations



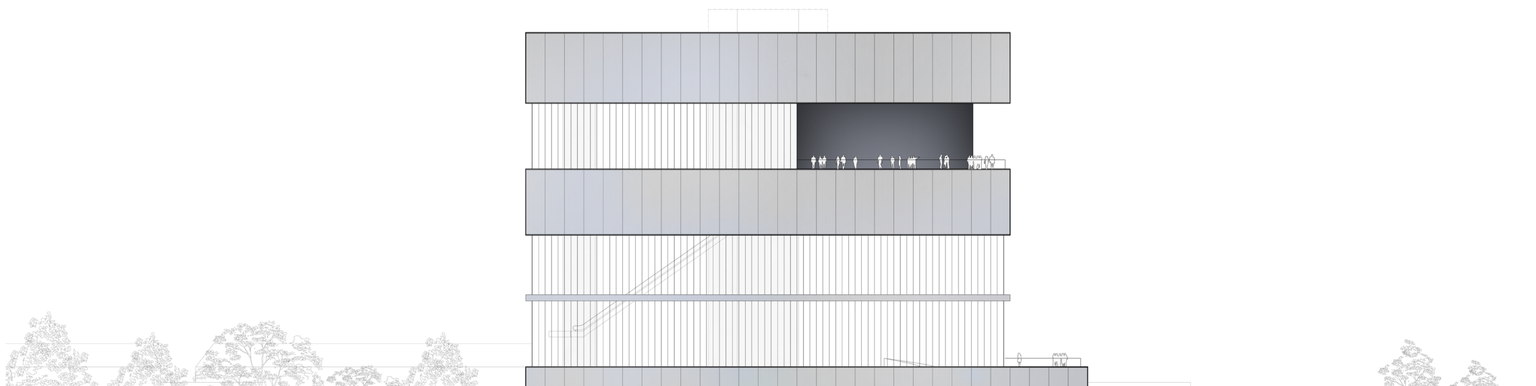


north-east facade



south-east facade

south-west facade

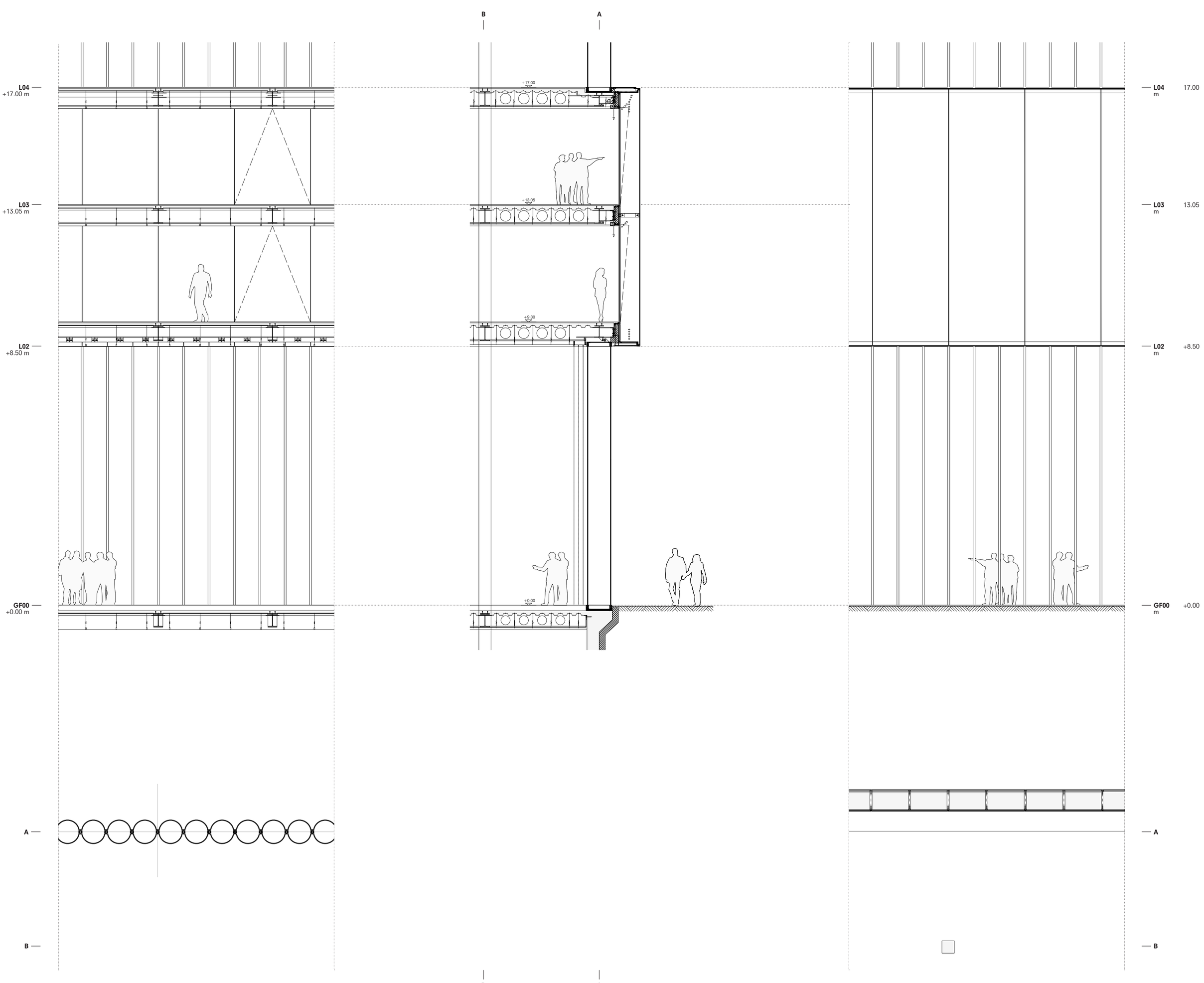


north-west facade

4m 20m

Messe Performance Cube

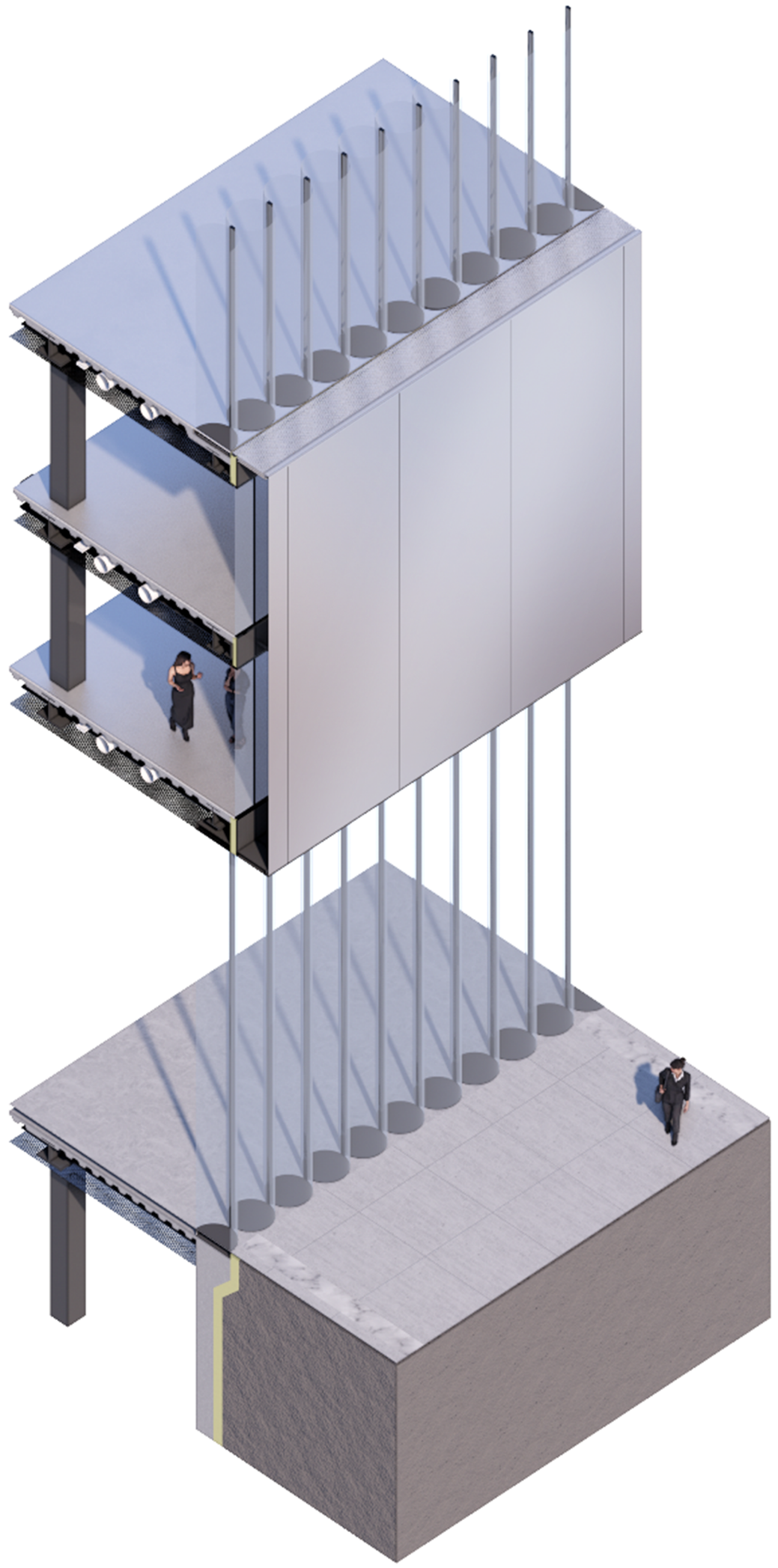
facade fragment



0.5m 2.5m

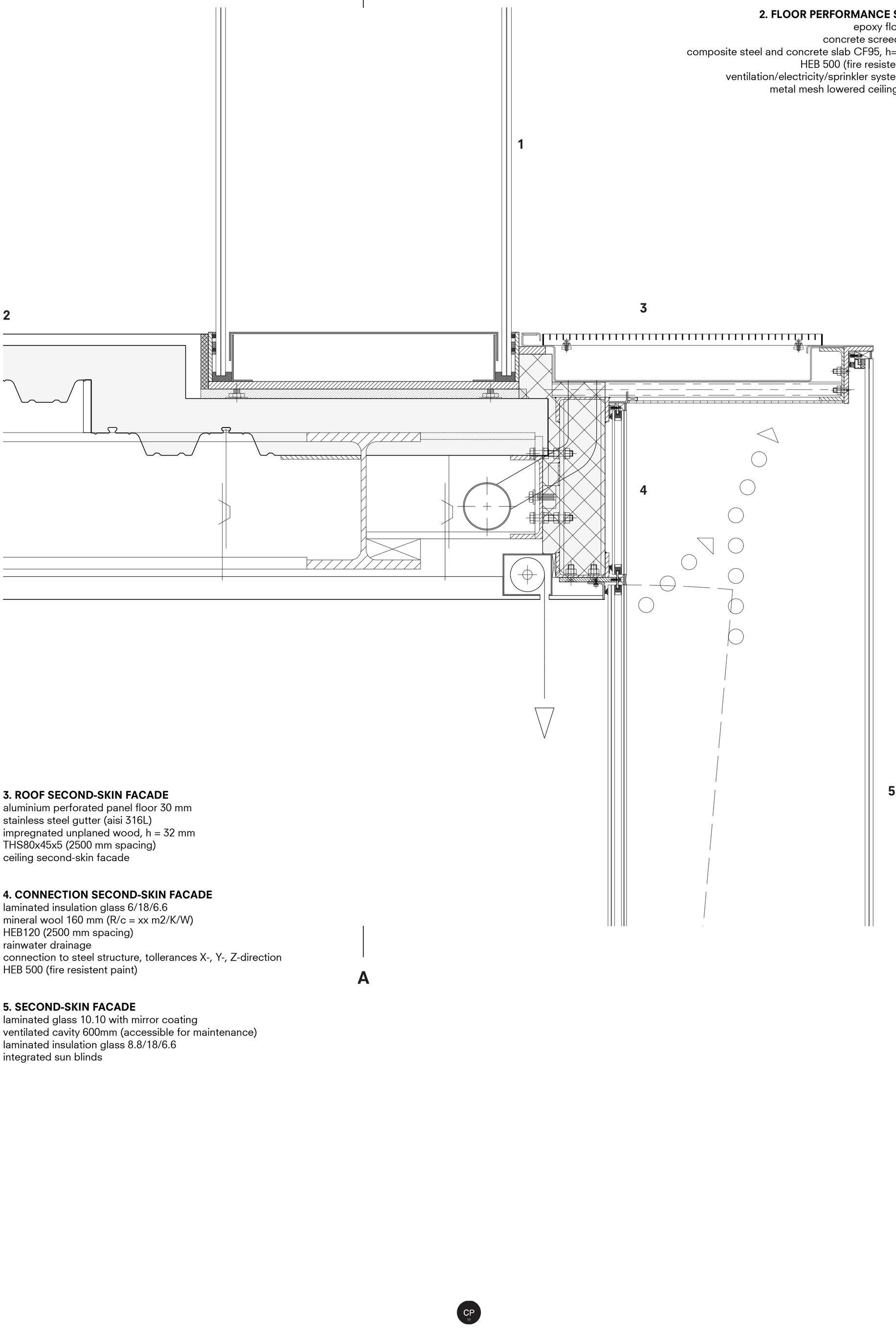
Messe Performance Cube

axonometric facade fragment



0.5m 2.5m

A



1. GLASS VACUUM TUBES Ø780
laminated glass 12.12
vacuum cavity
laminated glass 12.12
integrated LED lighting in mullions

2. FLOOR PERFORMANCE SPACES
epoxy floor finish
concrete screed 30 mm
composite steel and concrete slab CF95, h=150 mm
HEB 500 (fire resistent paint)
ventilation/electricity/sprinkler system cavity
metal mesh lowered ceiling system

3. ROOF SECOND-SKIN FACADE
aluminium perforated panel floor 30 mm
stainless steel gutter (aisi 316L)
impregnated unplaned wood, h = 32 mm
THS80x45x5 (2500 mm spacing)
ceiling second-skin facade

4. CONNECTION SECOND-SKIN FACADE
laminated insulation glass 6/18/6.6
mineral wool 160 mm (R/c = xx m2/K/W)
HEB120 (2500 mm spacing)
rainwater drainage
connection to steel structure, tollerances X-, Y-, Z-direction
HEB 500 (fire resistent paint)

5. SECOND-SKIN FACADE
laminated glass 10.10 with mirror coating
ventilated cavity 600mm (accessible for maintenance)
laminated insulation glass 8.8/18/6.6
integrated sun blinds

A

4mm 200mm

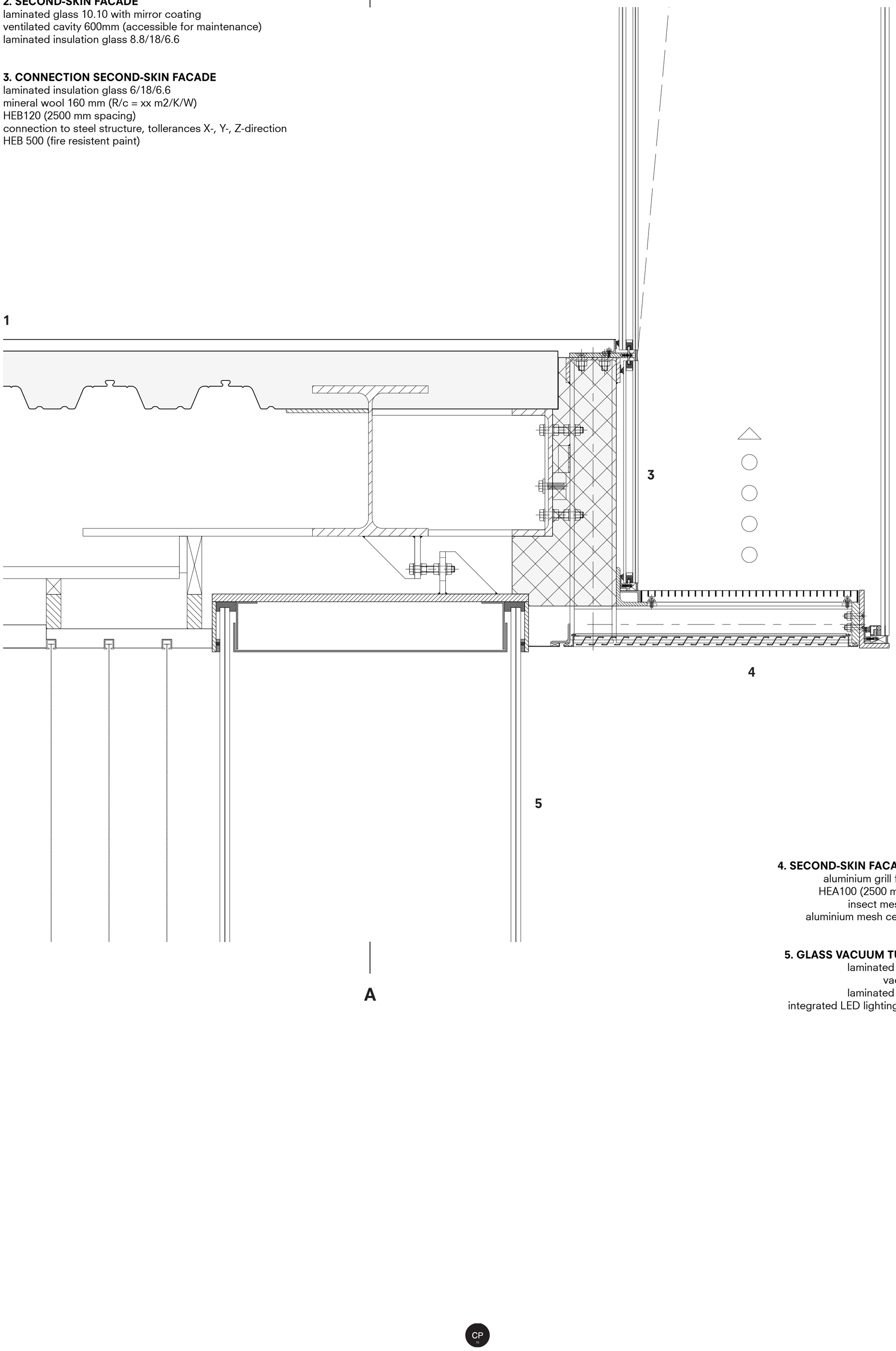
Messe Performance Cube

second-skin facade bottom detail

1. FLOOR SUPPORT SPACES
epoxy floor finish
concrete screed 30 mm
composite steel and concrete slab CF95, h=150 mm
HEB 500 (fire resistent paint)
ventilation/electricity/sprinkler system cavity
metal mesh lowered ceiling system
integrated curtain rails

2. SECOND-SKIN FACADE
laminated glass 10.10 with mirror coating
ventilated cavity 600mm (accessible for maintenance)
laminated insulation glass 8.8/18/6.6

3. CONNECTION SECOND-SKIN FACADE
laminated insulation glass 6/18/6.6
mineral wool 160 mm (R/c = xx m2/K/W)
HEB120 (2500 mm spacing)
connection to steel structure, tollerances X-, Y-, Z-direction
HEB 500 (fire resistent paint)



4. SECOND-SKIN FACADE FLOOR
aluminium grill floor 30 mm
HEA100 (2500 mm spacing)
insect mesh (aisi 316)
aluminium mesh ceiling 30 mm

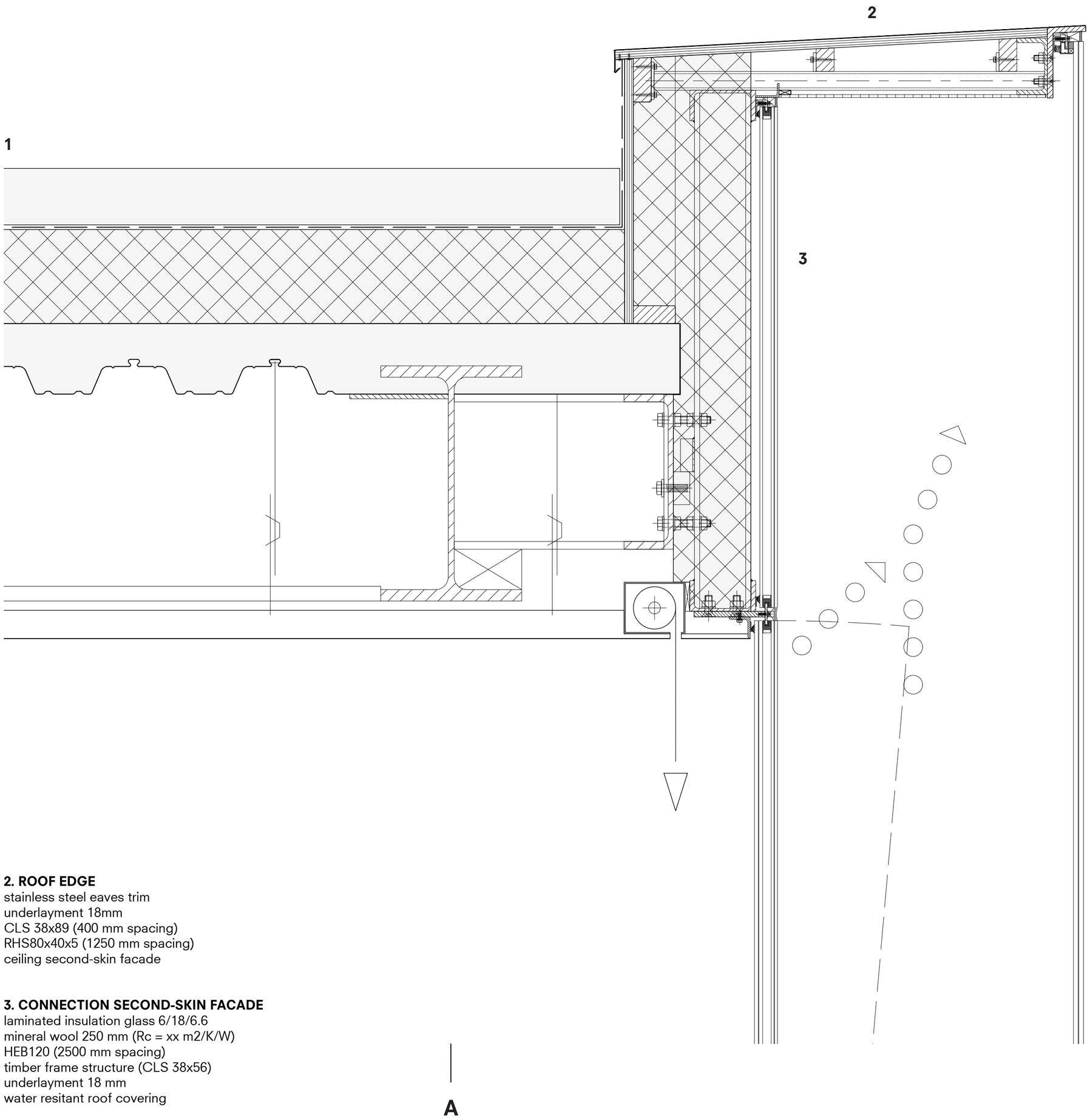
5. GLASS VACUUM TUBES Ø780
laminated glass 12.12
vacuum cavity
laminated glass 12.12
integrated LED lighting in mullions

4mm 200mm

Messe Performance Cube

second-skin facade roof detail

1. ROOF
reinforced concrete slab h=120 mm
protective and pressure-distributing layer
water resitant roof covering
Kingspan Unidek EcoPlus 210 mm (Rc = 6.0 m2/K/W)
composite steel and concrete slab CF95, h=150 mm
HEB 500 (fire resistent paint)
ventilation/electricity/sprinkler system cavity
metal mesh lowered ceiling system



2. ROOF EDGE
stainless steel eaves trim
underlayment 18mm
CLS 38x89 (400 mm spacing)
RHS80x40x5 (1250 mm spacing)
ceiling second-skin facade

3. CONNECTION SECOND-SKIN FACADE
laminated insulation glass 6/18/6.6
mineral wool 250 mm (Rc = xx m2/K/W)
HEB120 (2500 mm spacing)
timber frame structure (CLS 38x56)
underlayment 18 mm
water resitant roof covering

4. SECOND-SKIN FACADE
laminated glass 10.10 with mirror coating
ventilated cavity 60mm (accessible for maintenance)
laminated insulation glass 8.8/18/6.6
integrated sun blinds

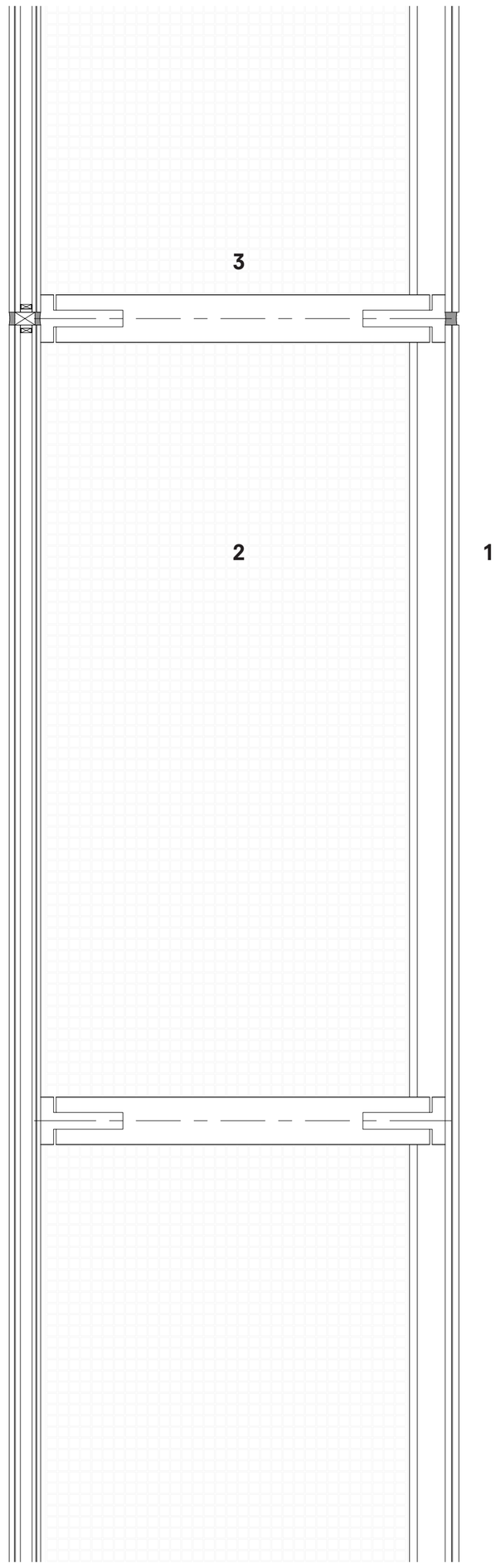
4mm 200mm

1. SECOND-SKIN FACADE
laminated glass 10.10 with mirror coating
ventilated cavity 600mm (accessible for maintenance)
laminated insulation glass 8.8/18/6.6
integrated sun blinds

2. SECOND-SKIN FACADE FLOOR
aluminium grill floor 30 mm
HEA100 (2500 mm spacing)
insect mesh (aisi 316)
aluminium mesh ceiling 30 mm

3. GLASS SPACER
pull-push rod glass
RHS80x120x5 (1250 mm spacing)

A



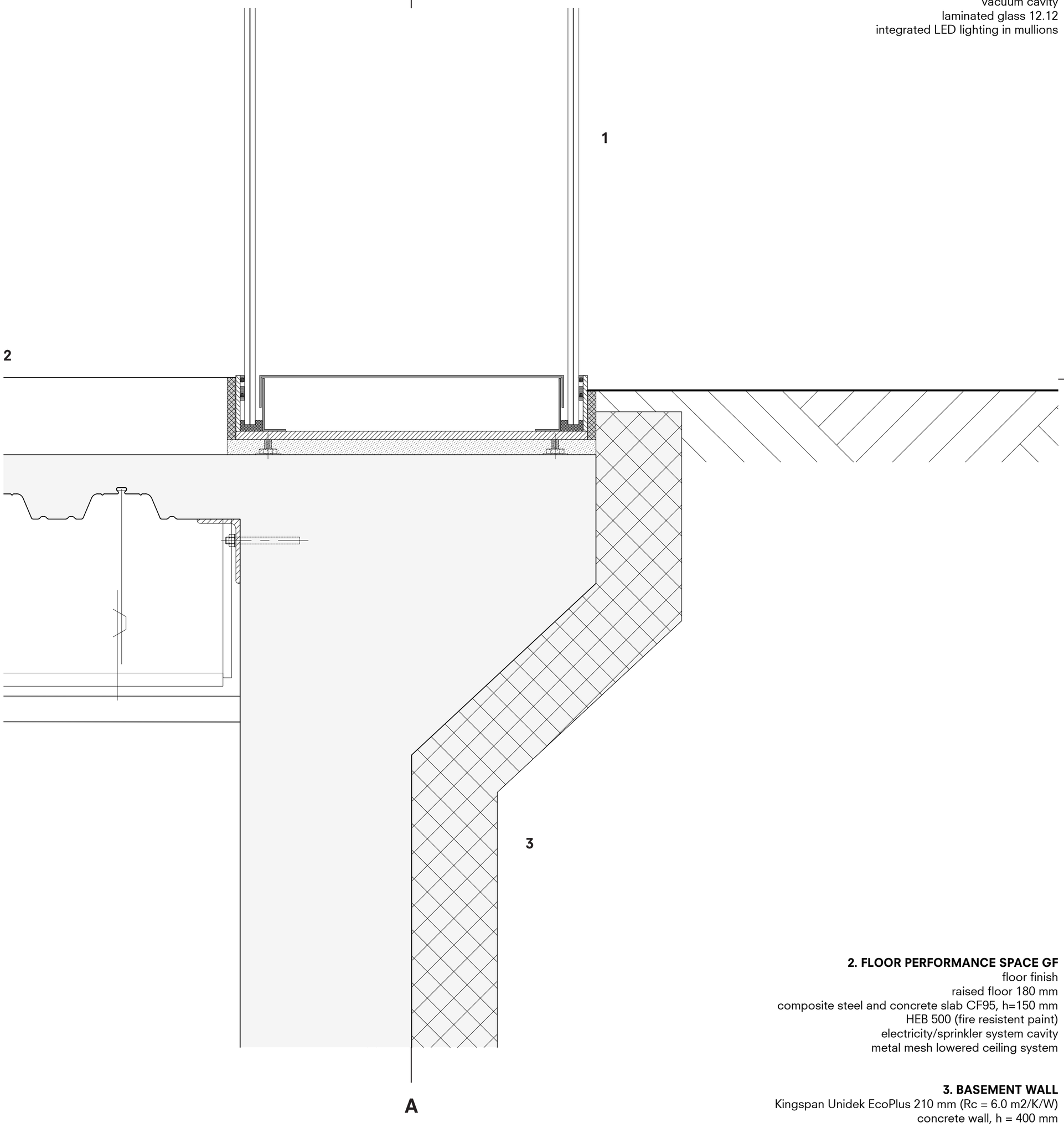
A

4mm 200mm

A

1

2



3

A

1. GLASS VACUUM TUBES Ø780
laminated glass 12.12
vacuum cavity
laminated glass 12.12
integrated LED lighting in mullions

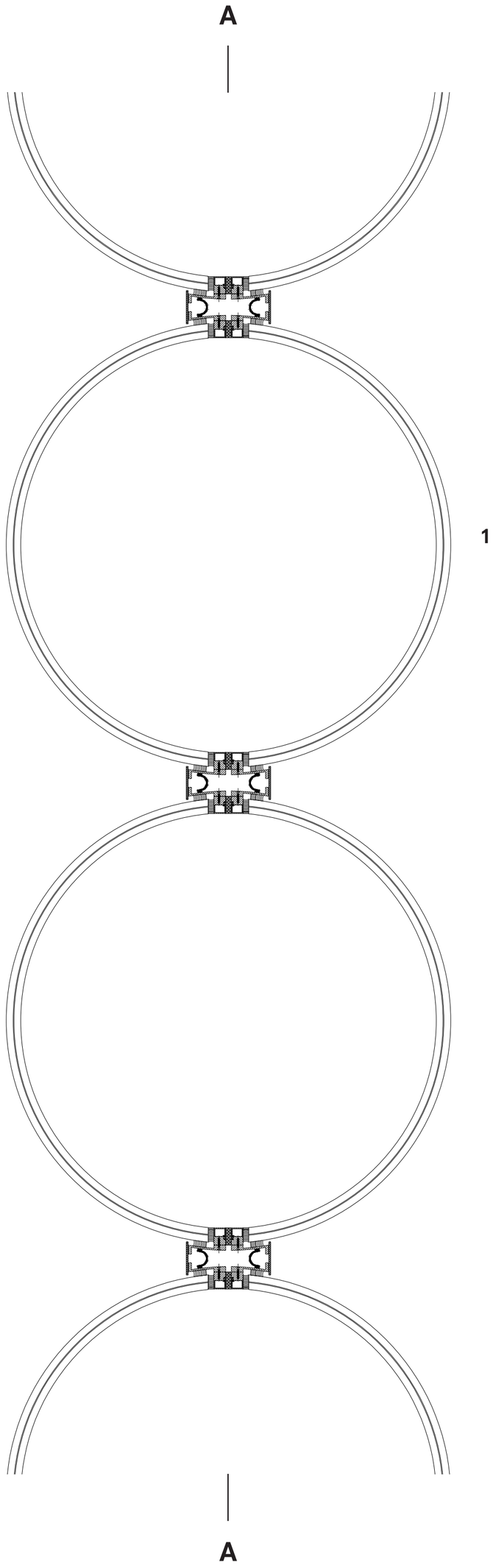
2. FLOOR PERFORMANCE SPACE GF
floor finish
raised floor 180 mm
composite steel and concrete slab CF95, h=150 mm
HEB 500 (fire resistent paint)
electricity/sprinkler system cavity
metal mesh lowered ceiling system

3. BASEMENT WALL
Kingspan Unidek EcoPlus 210 mm (Rc = 6.0 m2/K/W)
concrete wall, h = 400 mm

4mm 200mm

Messe Performance Cube

glass vacuum tubes horizontal detail

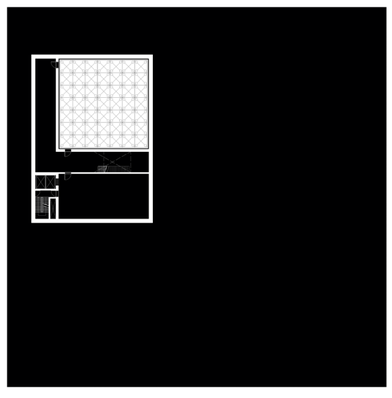


1. GLASS VACUUM TUBES Ø780
laminated glass 12.12
vacuum cavity
laminated glass 12.12
integrated LED lighting in mullions

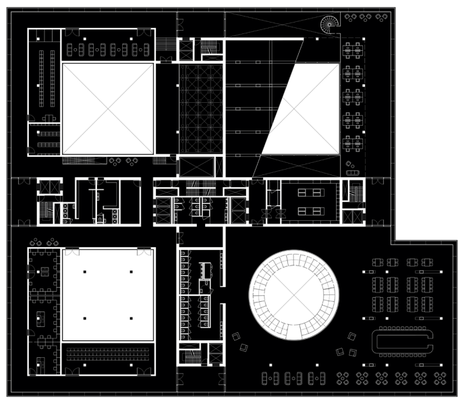
4mm 200mm

Messe Performance Cube

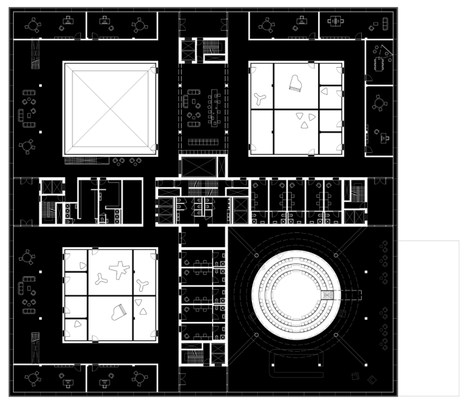
floor plan matrix



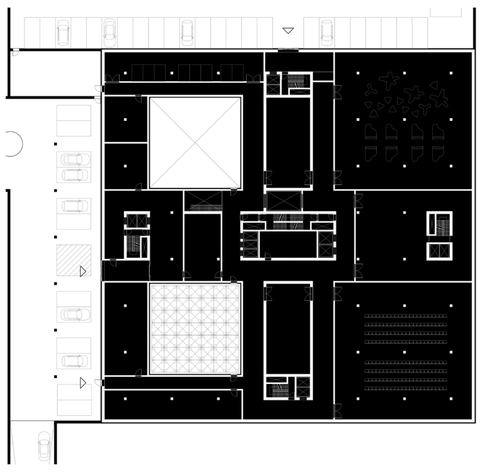
B-03



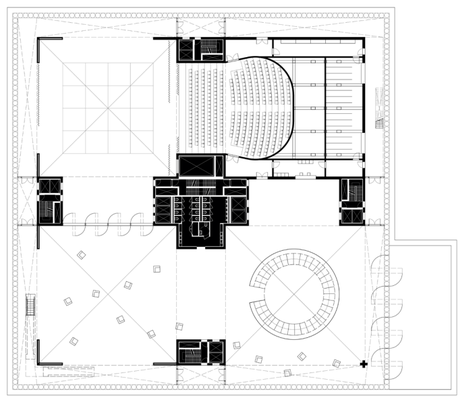
L03



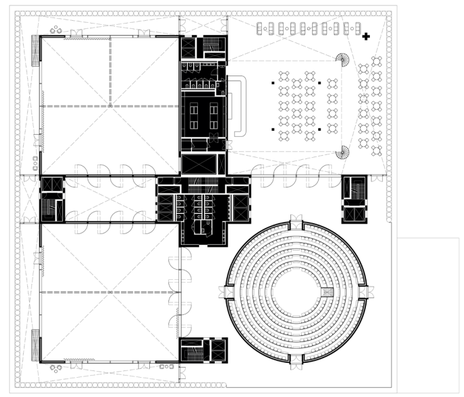
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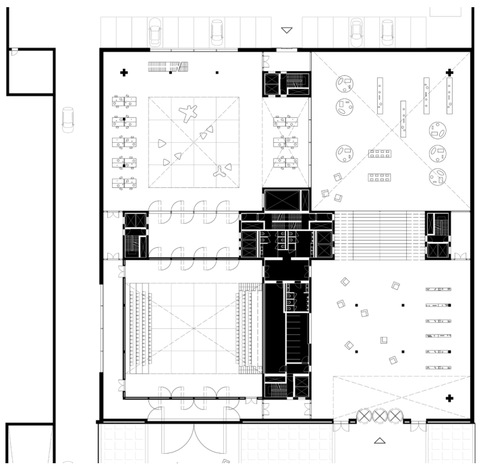
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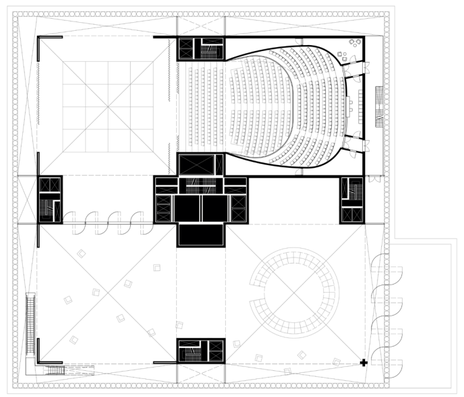
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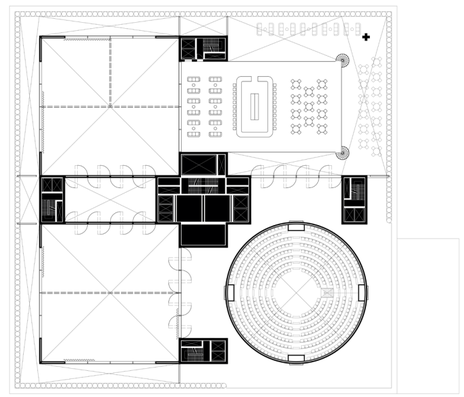
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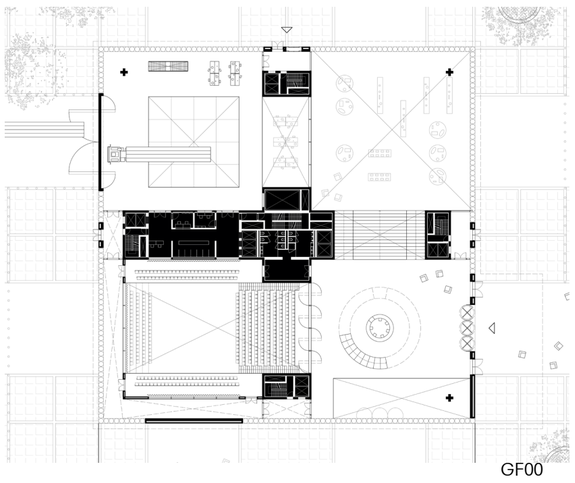
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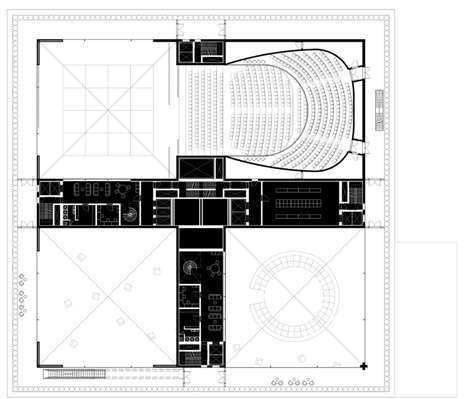
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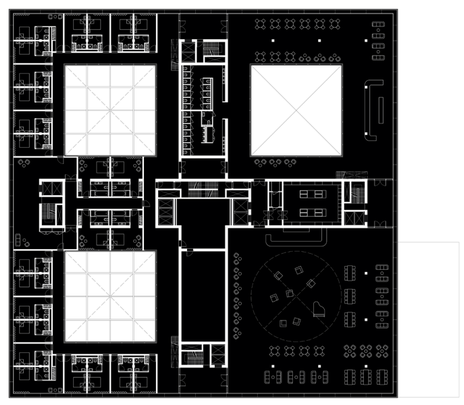
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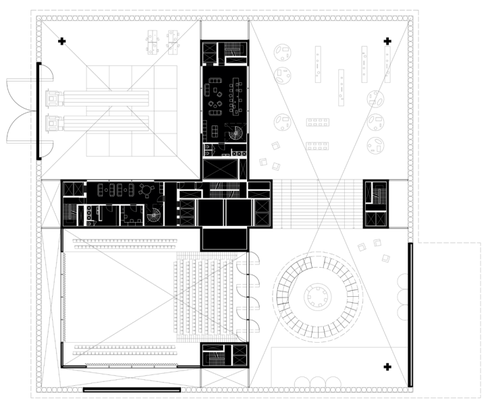
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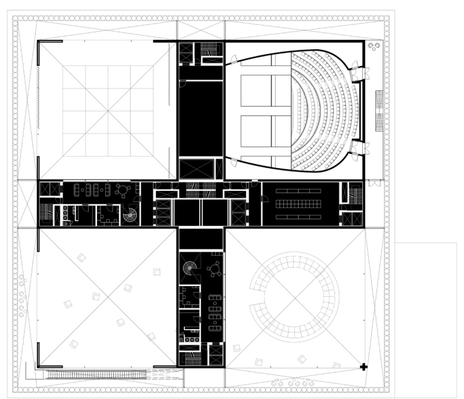
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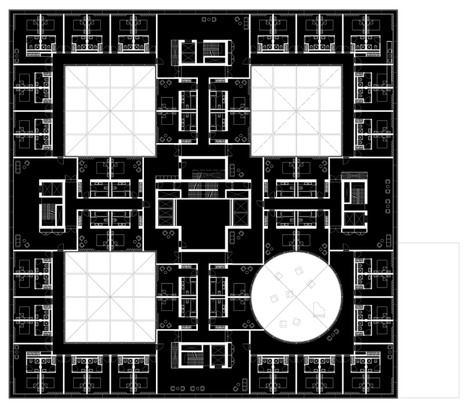
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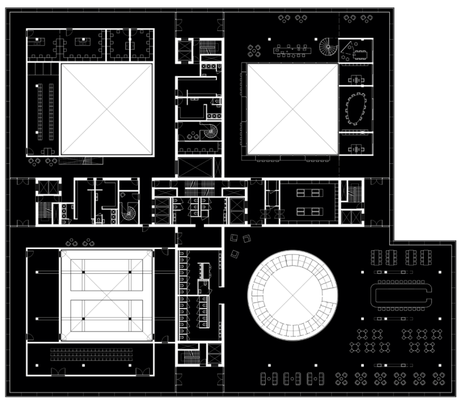
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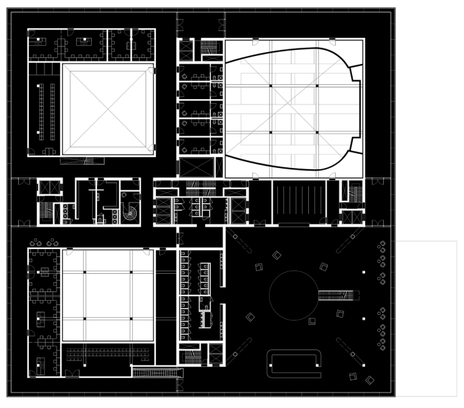
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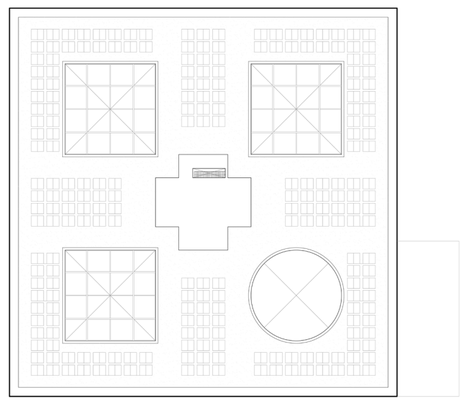
L13



L02



L08



R14

5m 25m