

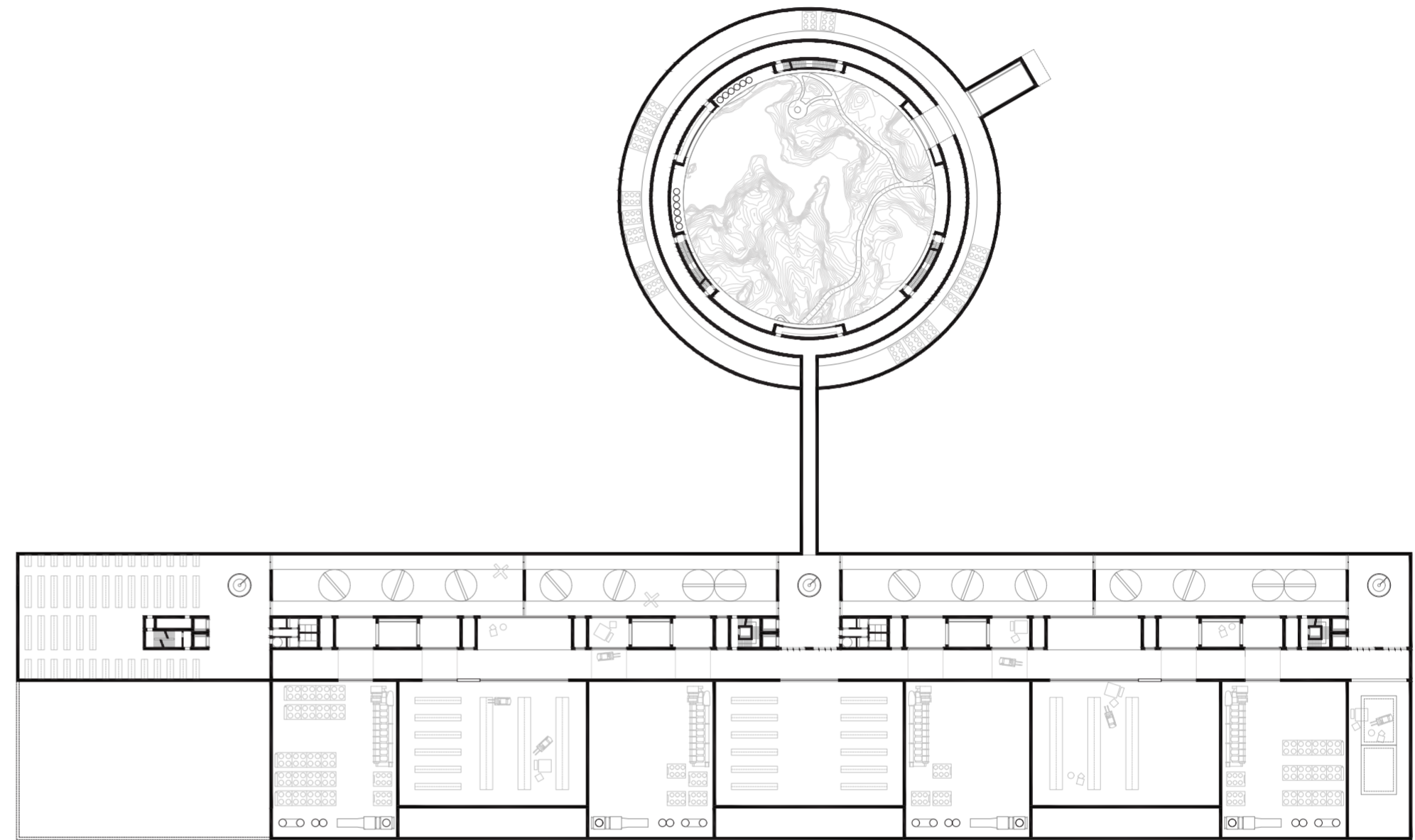
# KLIMAFORUM BERLIN

**Drawing Set - Klimaforum Berlin**  
Stijn Drolenga - 4569784

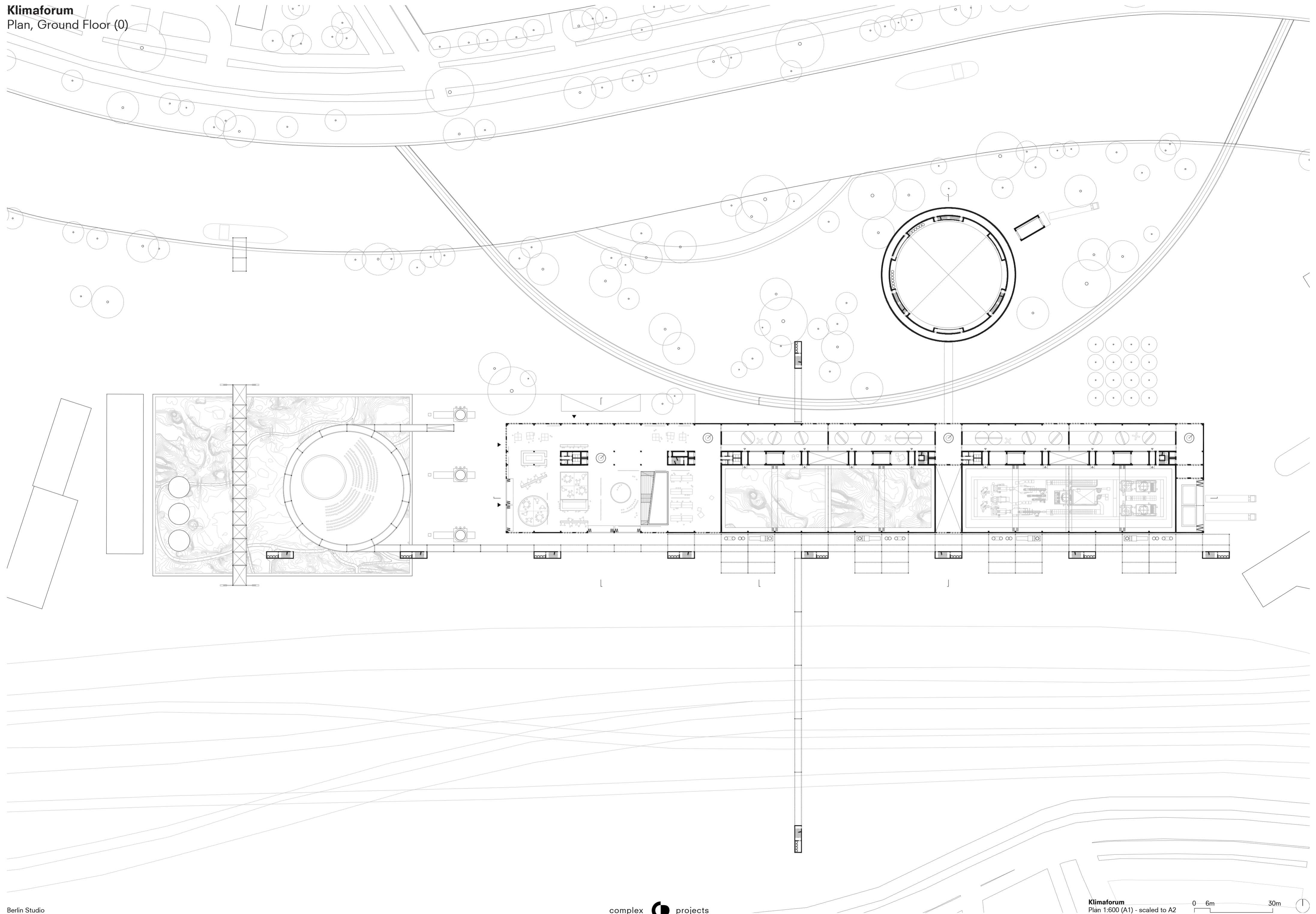
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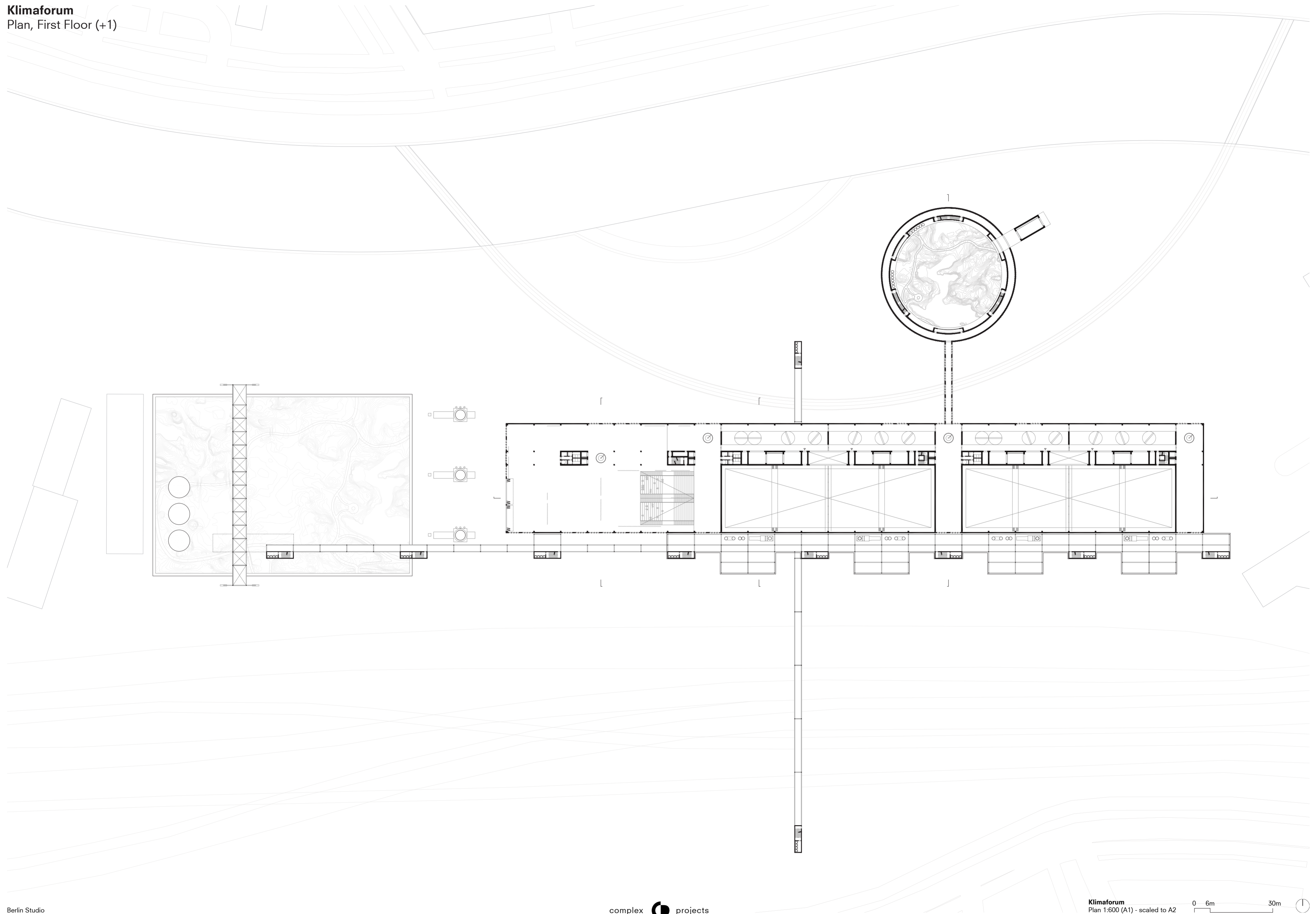




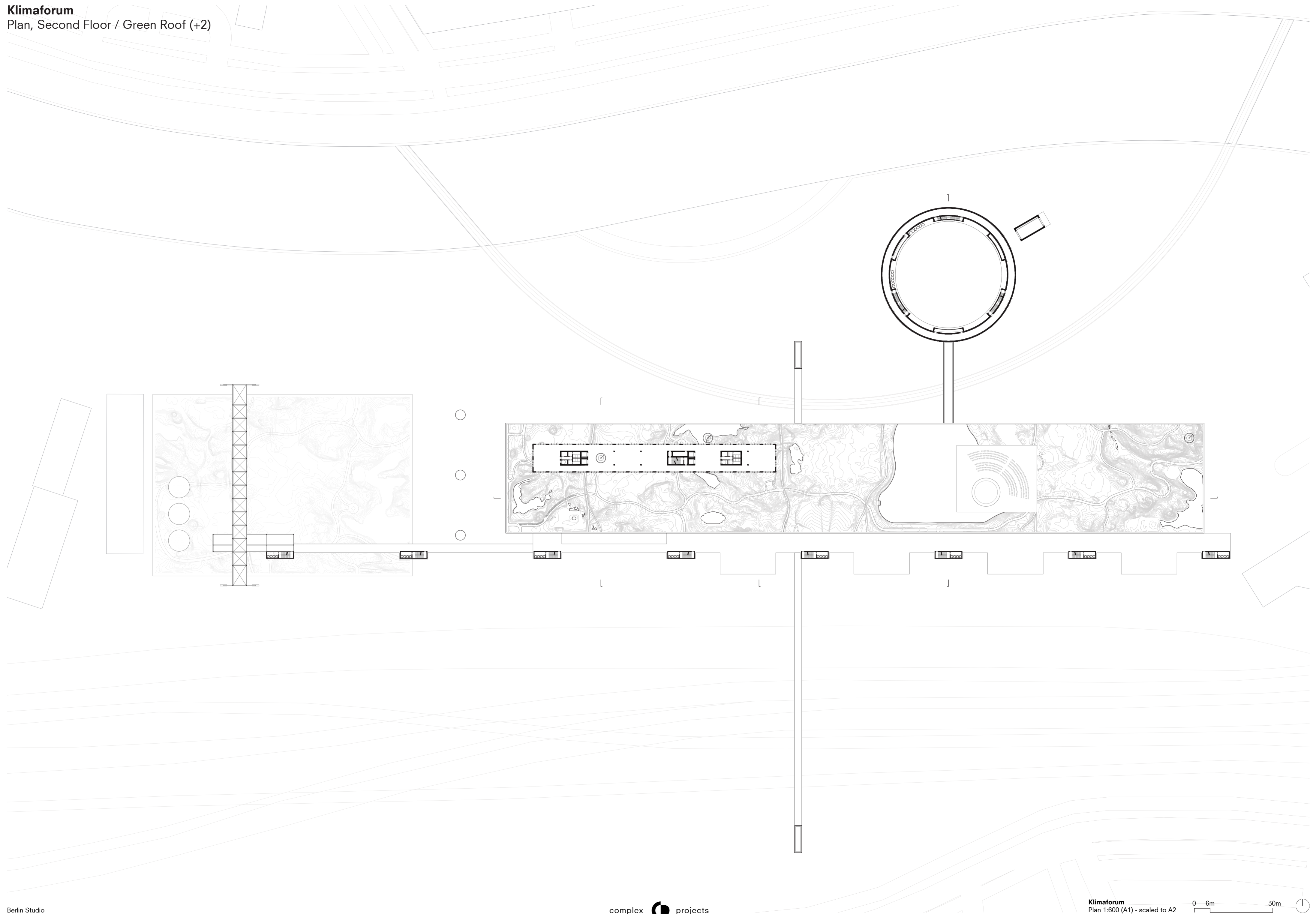
**Klimaforum**  
Plan, Ground Floor (0)

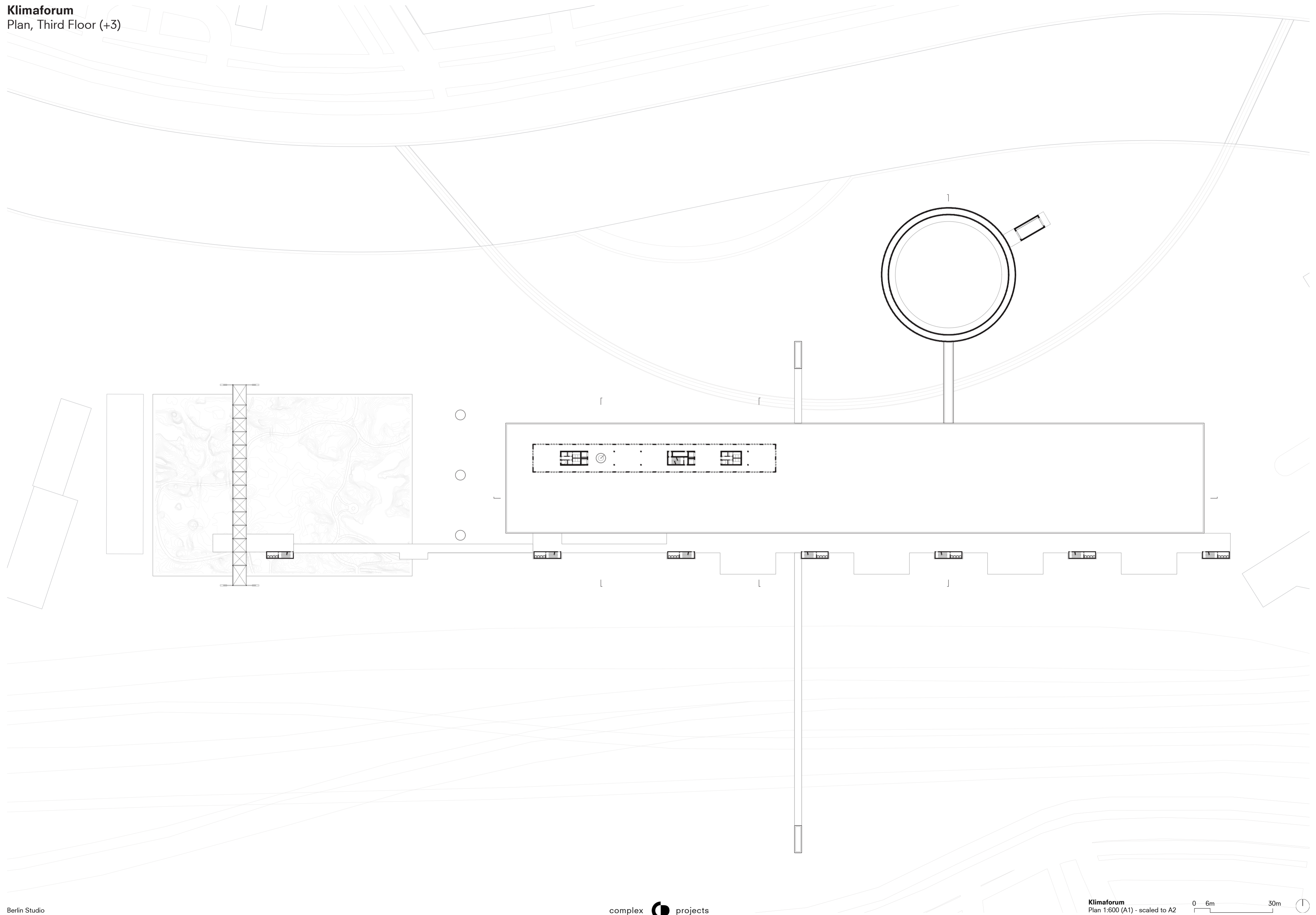


**Klimaforum**  
Plan, First Floor (+1)

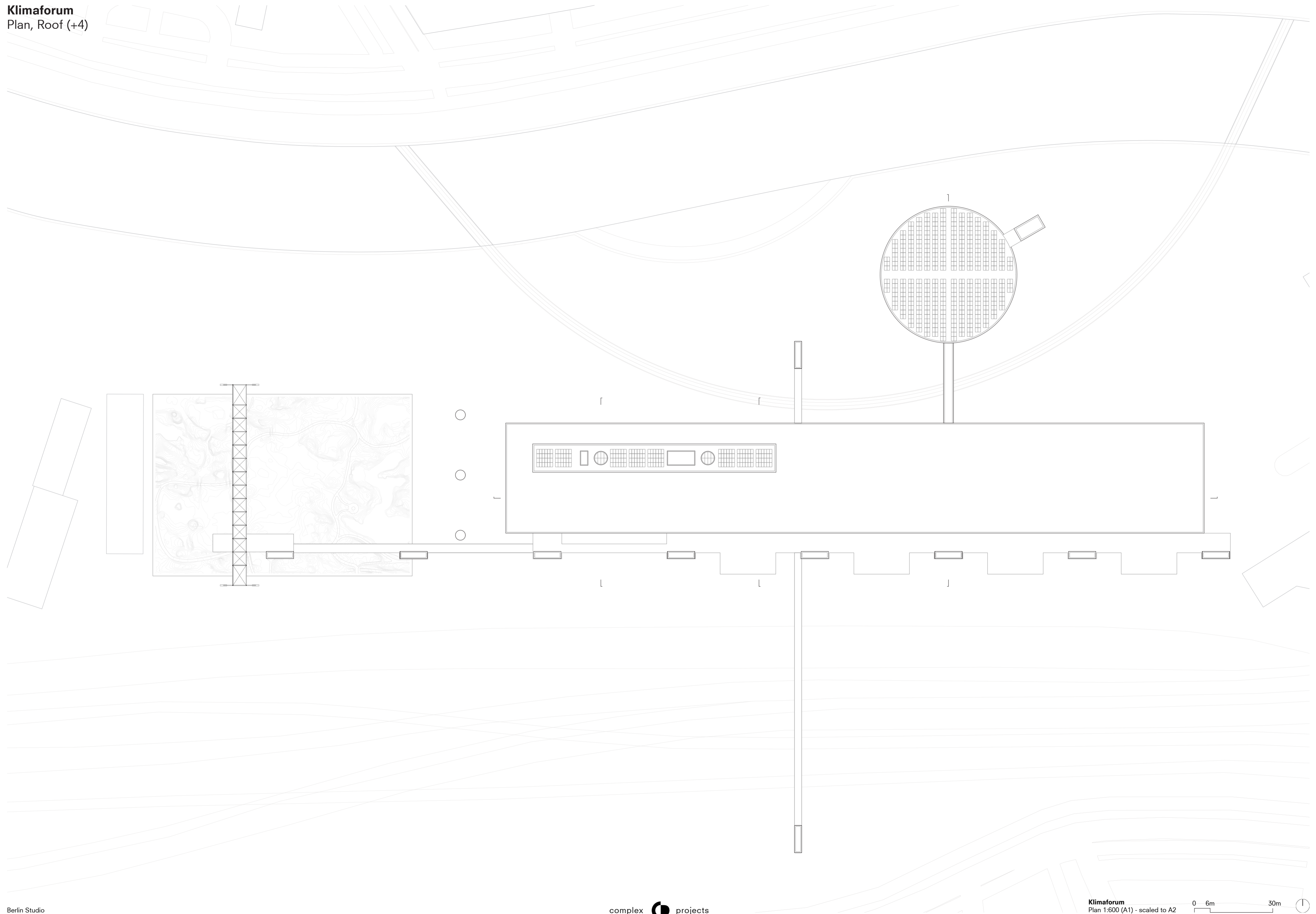


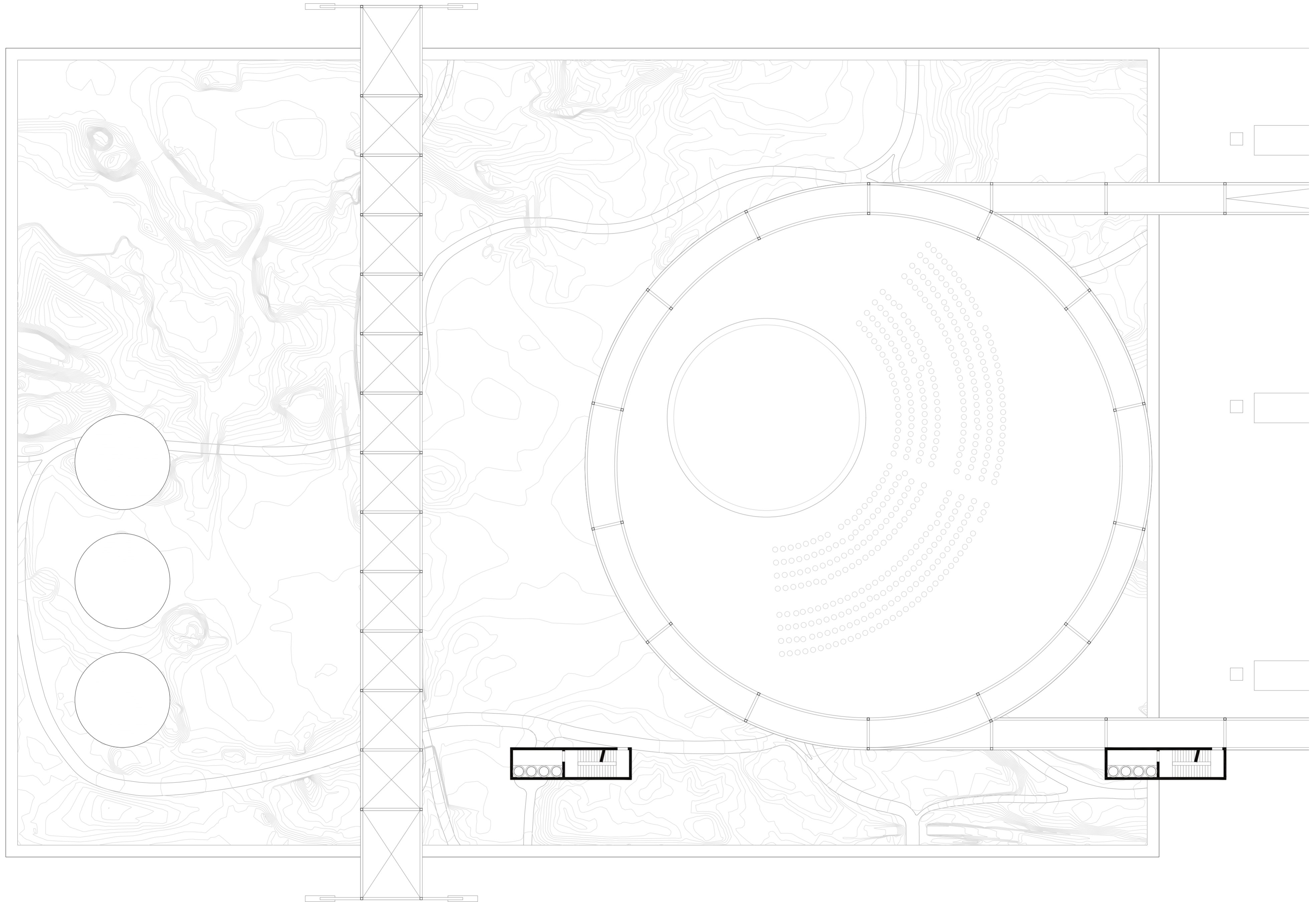
**Klimaforum**  
Plan, Second Floor / Green Roof (+2)

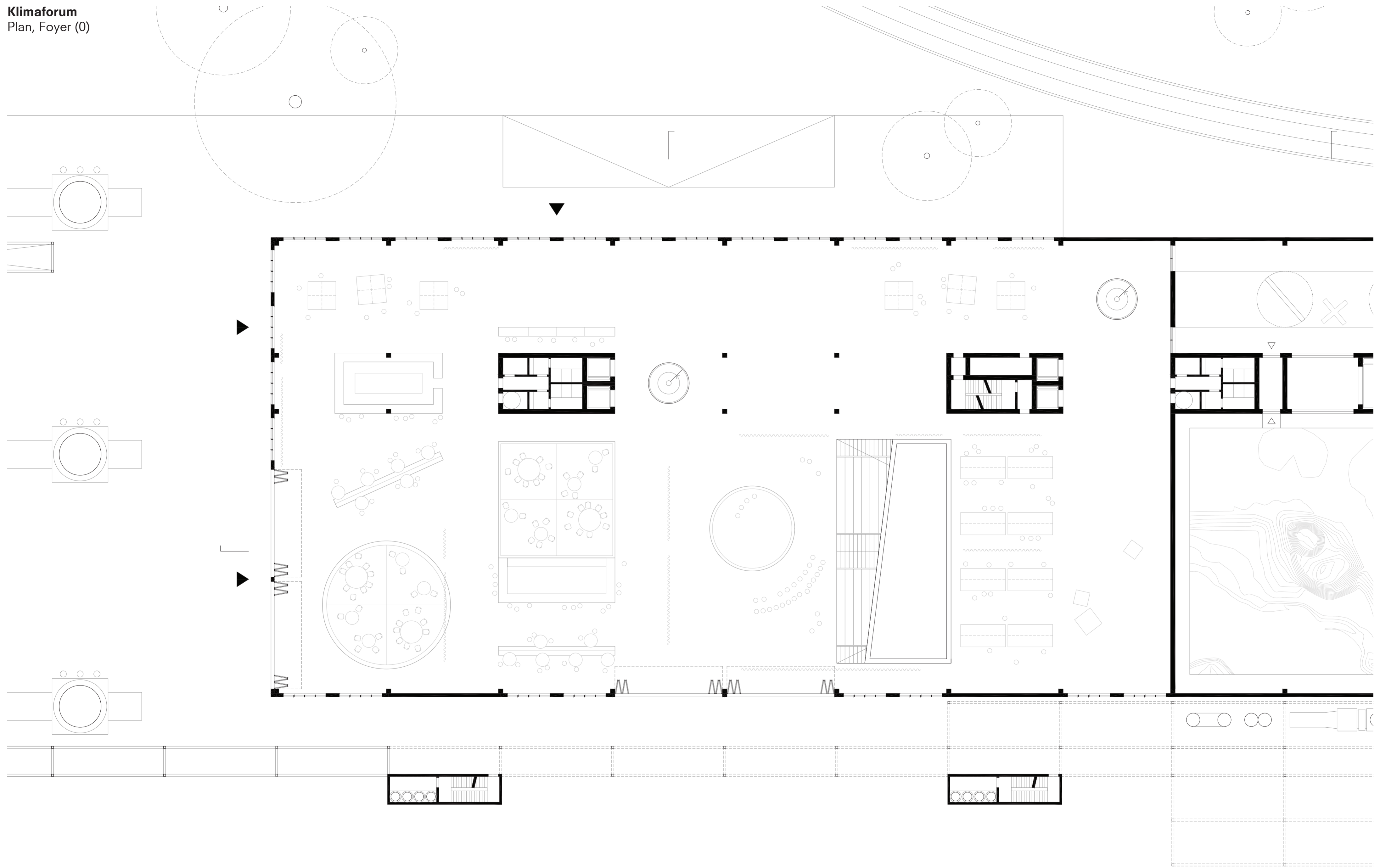


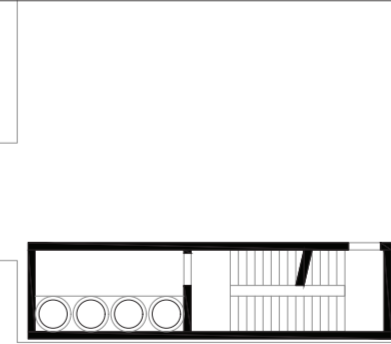
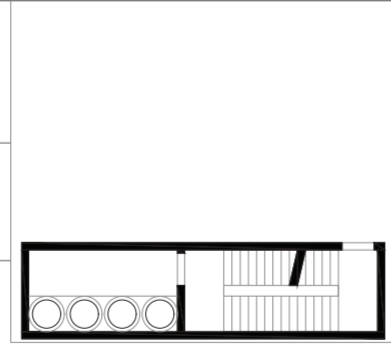
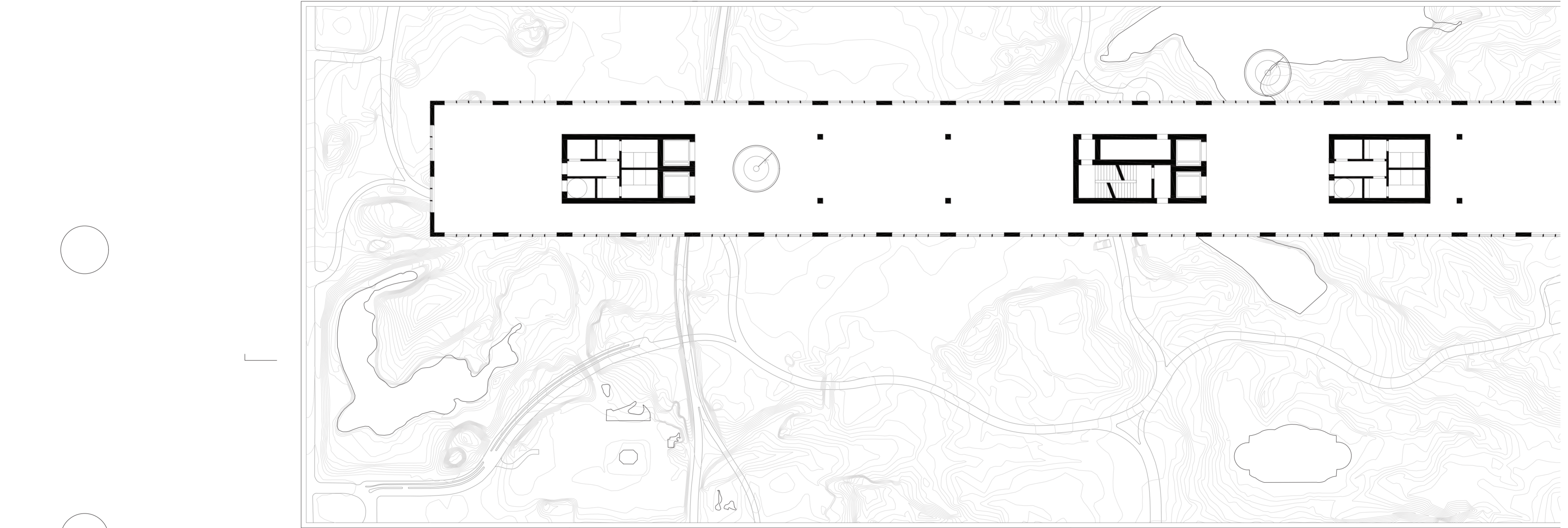
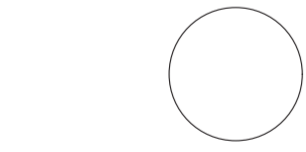
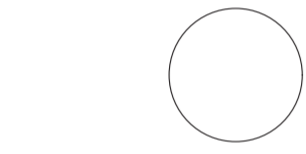
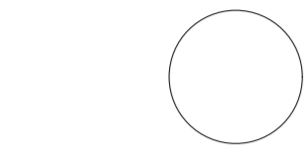


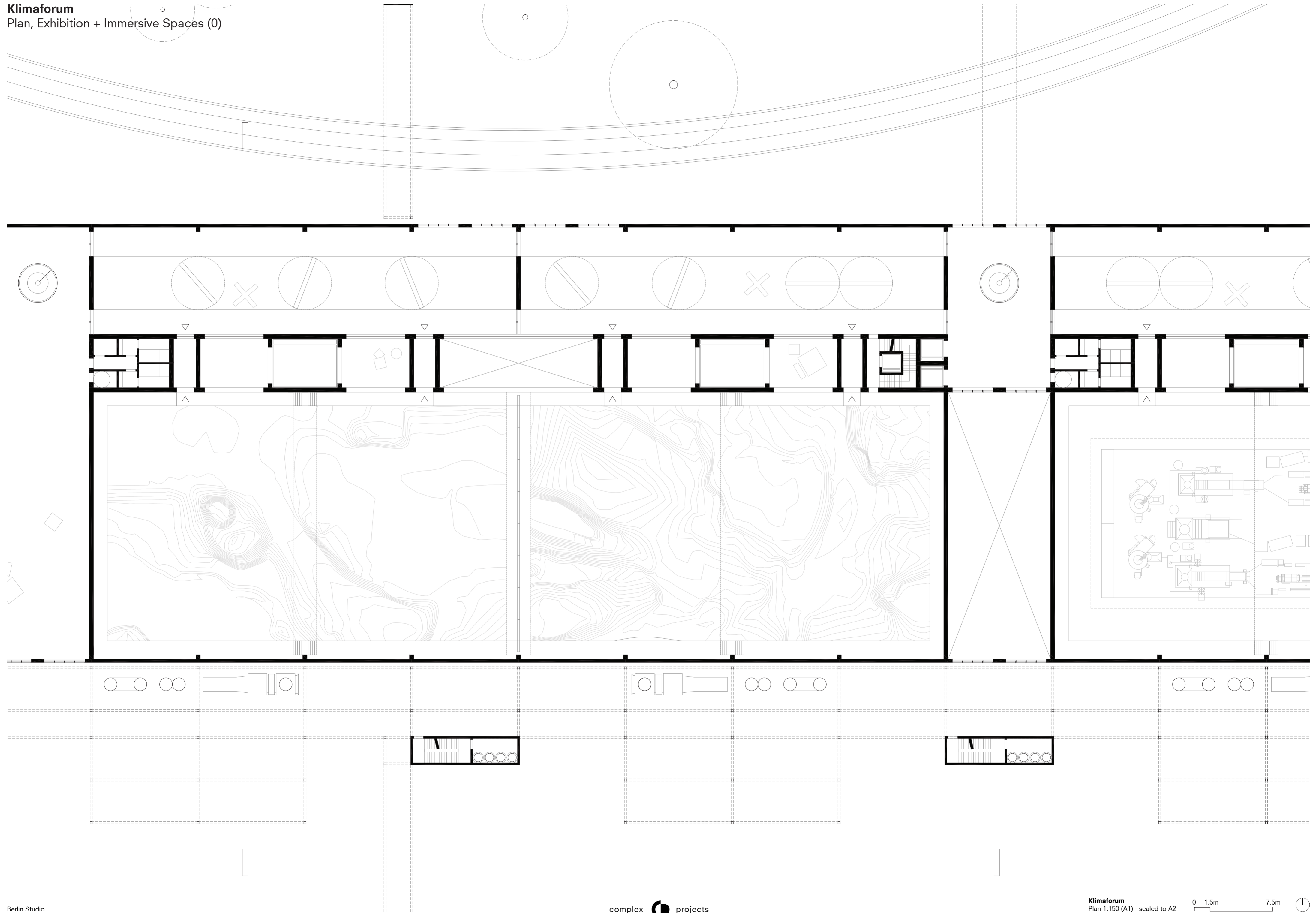


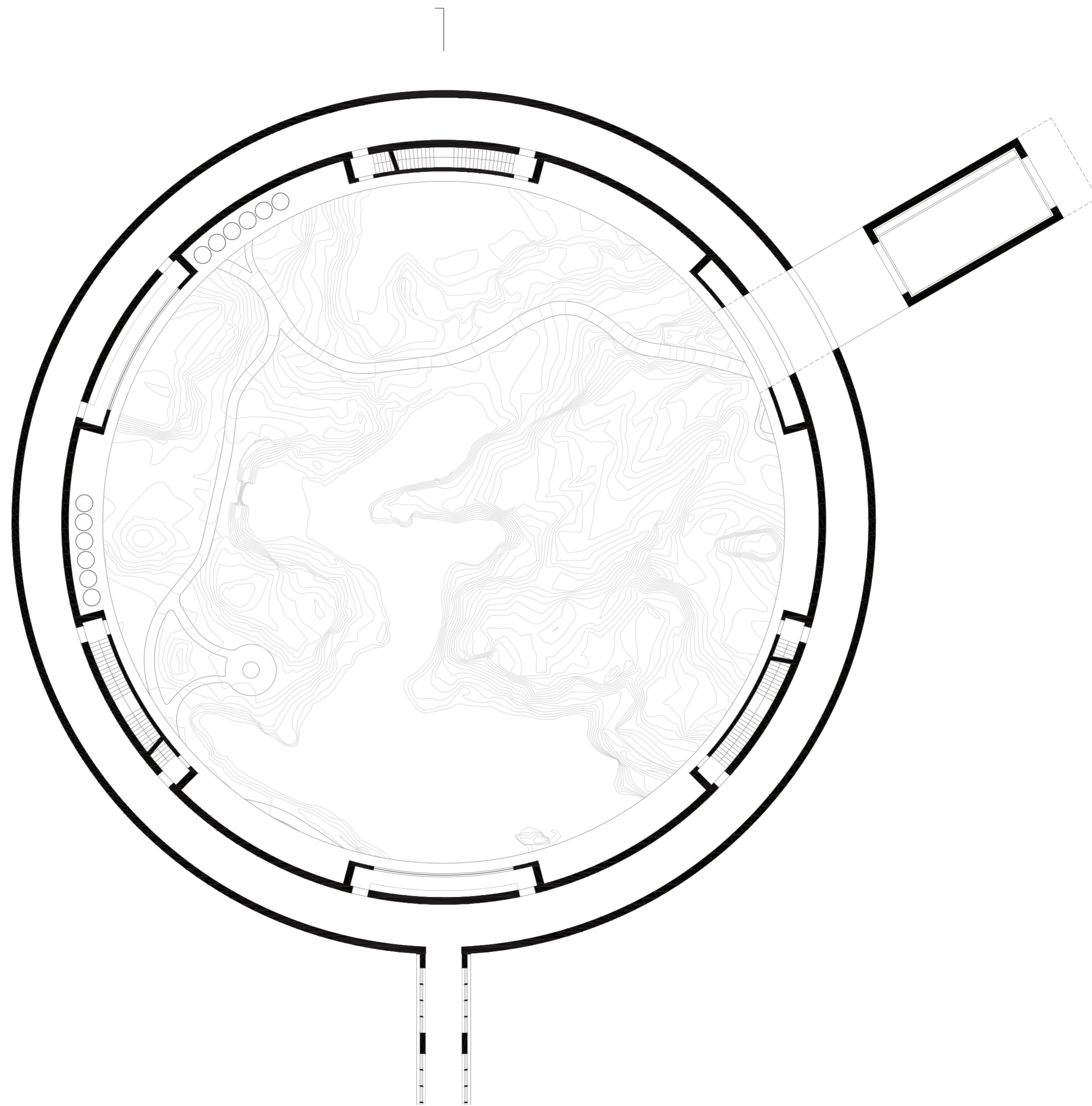












**Klimaforum**  
 Sections, Cross + Facades, East & West



+23250 Roof (skopstand)  
 +21400 Roof  
 +15400 3rd floor (offices)  
 +13950 2nd floor (skopstand)  
 +12100 2nd floor (roof garden + offices)  
 +6100 1st floor (museum)  
 +200 ground floor (foyer + museum)

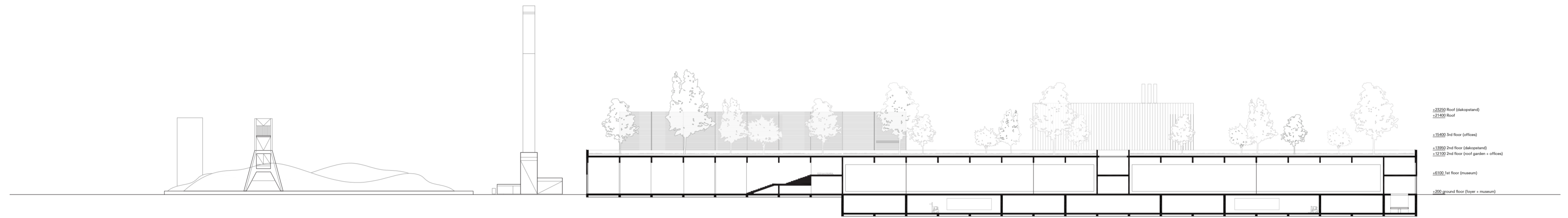
+23250 Roof (skopstand)  
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 +15400 3rd floor (offices)  
 +13950 2nd floor (skopstand)  
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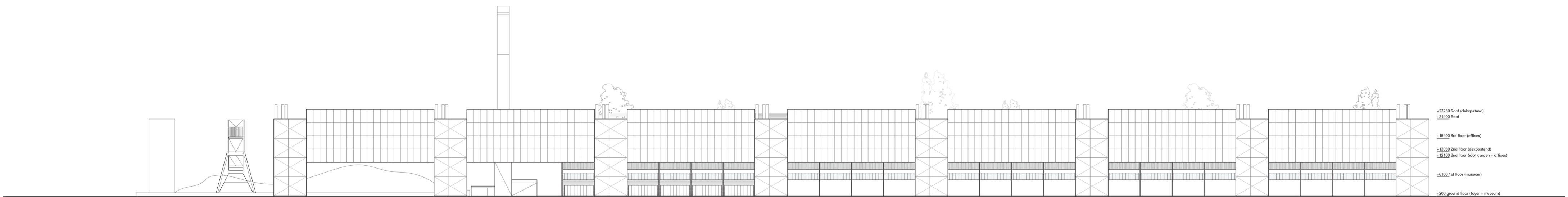
+23250 Roof (skopstand)  
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 +15400 3rd floor (offices)  
 +13950 2nd floor (skopstand)  
 +12100 2nd floor (roof garden + offices)  
 +6100 1st floor (museum)  
 +200 ground floor (foyer + museum)

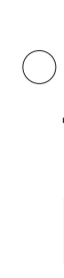
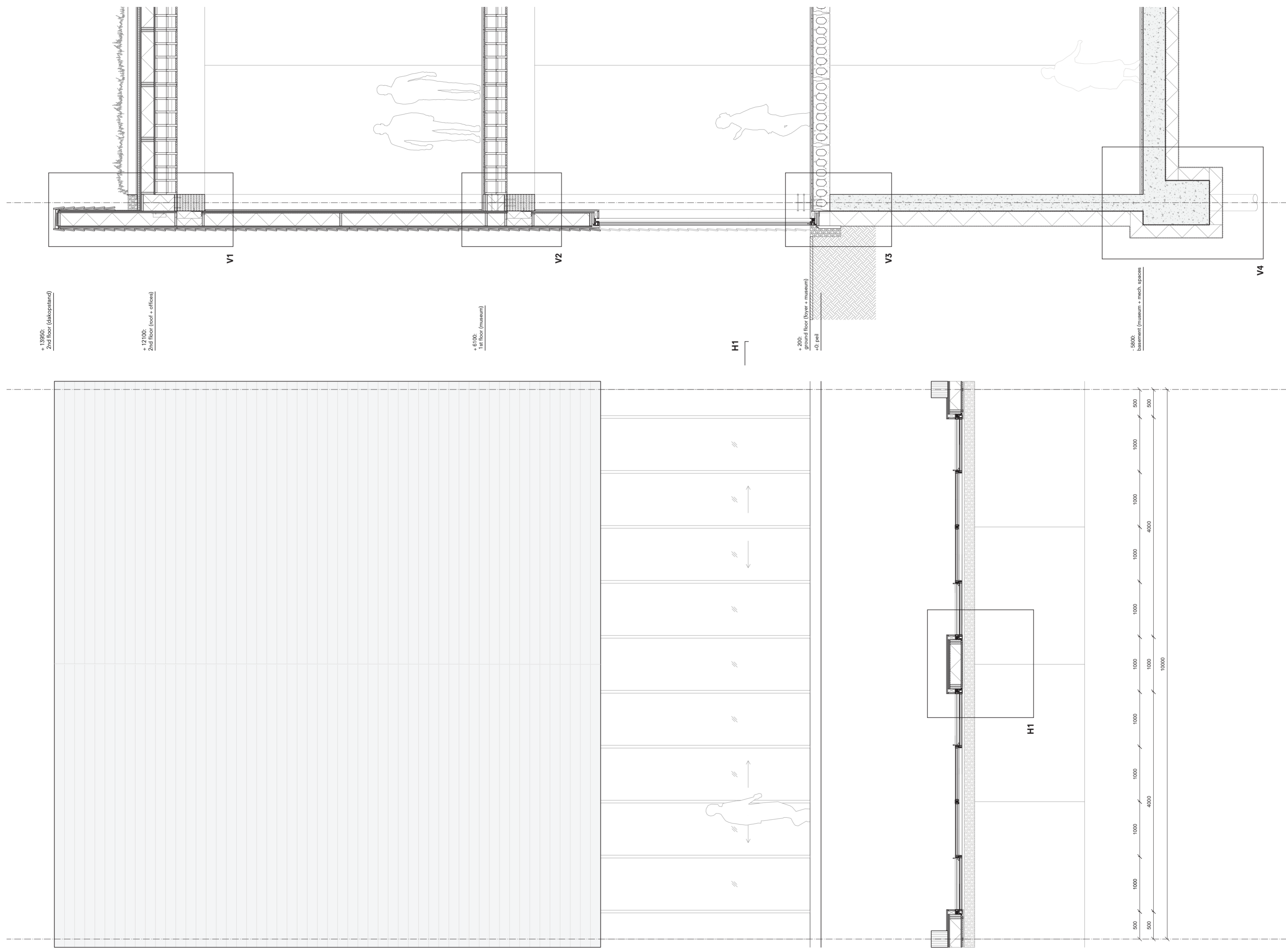
**Klimaforum**  
Section, Longitudinal

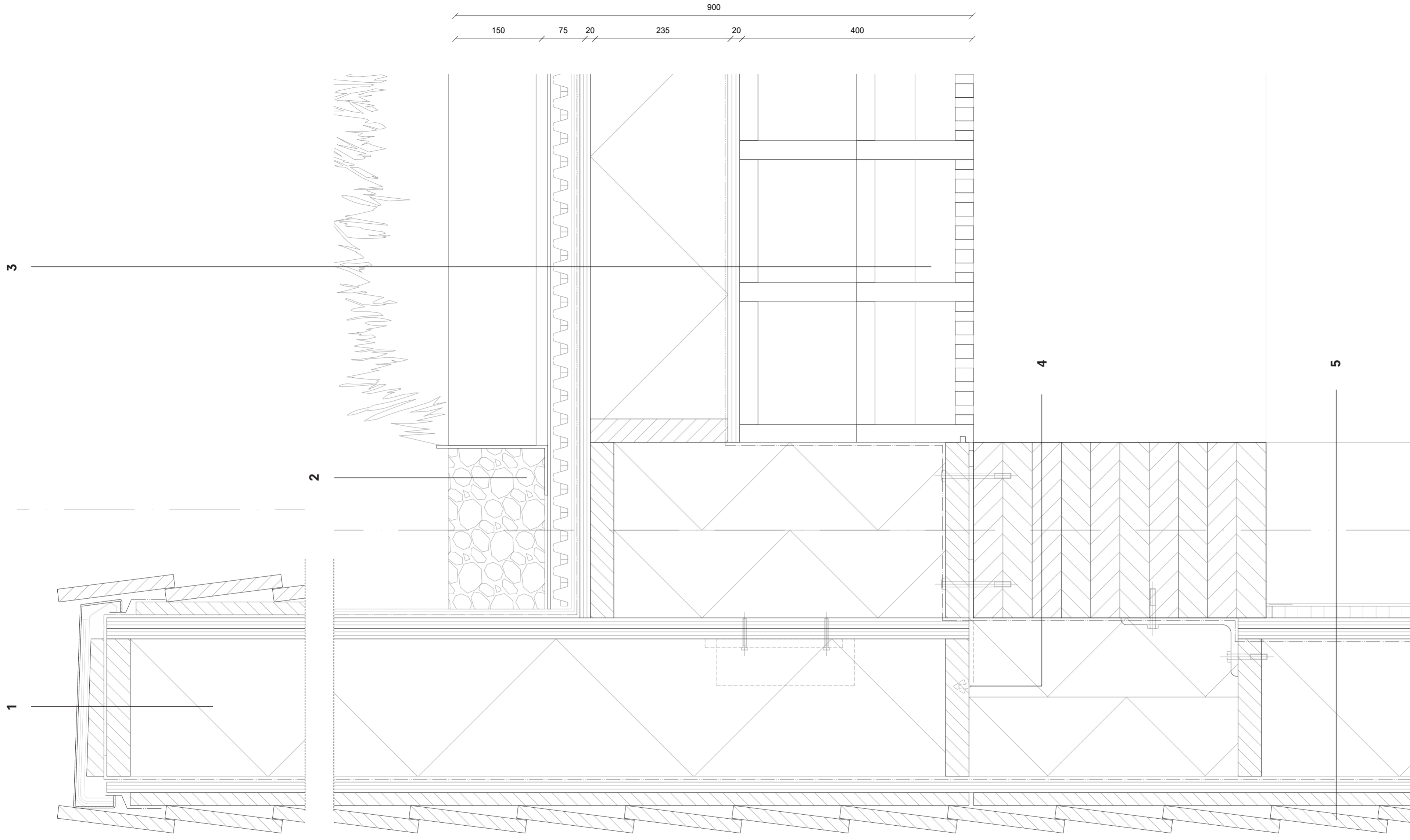




**Klimaforum**  
Facade, North & South







**1 Klimaforum roofcurb:**

- Royal aluminium anodized aluminium 'muurafdekking' black
- water-resistant, vapor-open foil
- triplex 22 mm
- HSB beam 235 x 50 mm
- GUTEX Thermoflat insulation in HSB structure 235 mm in facade (Rc: 6,0 m<sup>2</sup>:K/W)

**2 gravel strip**

- draining water from the sides of 'dakopstand', other gray water goes through pluvia-system to coal-landscape for filtering

**3 Klimaforum roof (Rc: 8,0 m<sup>2</sup>:K/W):**

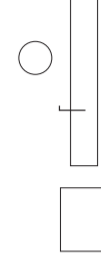
- intensive greenroof
- substrate 150 mm
- system filter SF
- floradrain FD 25-e
- water-retaining protective mat SSM 45
- root protection film WSF 40
- water-resistant, vapor-open foil
- triplex 22 mm
- GUTEX Thermoflat insulation in prefab HSB structure 235 mm (Rc: 6,0 m<sup>2</sup>:K/W)
- water-resistant, vapor-closed foil
- triplex 22 mm
- ligantur surface element (width 1000 mm, height 400 mm) integrated sound insulation & absorption / thermal insulation (Rc: 2,0 m<sup>2</sup>:K/W)

**4 Main structure north facade:**

- Glulam beam 300 x 500 mm (span of 10m)
- naaddichting
- water-resistant, vapor-closed foil
- Cavity filled with GUTEX Thermoflat insulation in HSB structure 235 mm in facade (Rc: 6,0 m<sup>2</sup>:K/W)
- L-anchor, connecting timber framing onto main structure

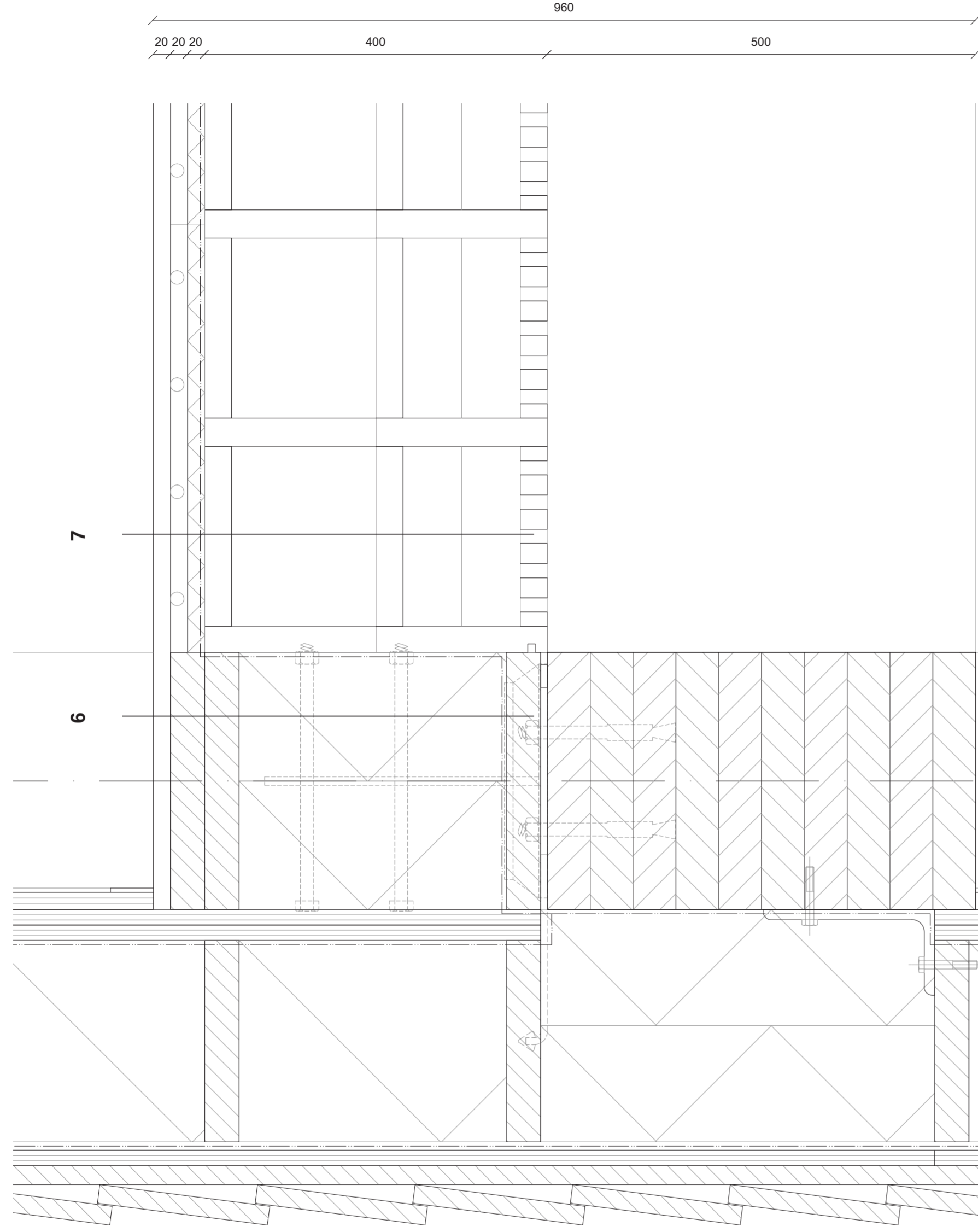
**5 Klimaforum north facade (Rc: 6,0 m<sup>2</sup>:K/W):**

- elevation Glulam Column
- stucco finish 5 mm
- gypsum plate 12,5 mm
- fiberboard (vapor-open) (2 x 22 mm) 44 mm
- water-resistant, vapor-closed foil
- GUTEX Thermoflat insulation in HSB structure 235 mm in facade (Rc: 6,0 m<sup>2</sup>:K/W)
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-open foil
- regelwerk
- ventilated cavity
- bevelsiding (potdekselen) local spruce timber, charred to avoid sun staining and increase overall lifespan 22 mm



**6 Column-beam connection**  
 - Glulam beam 300 x 500 mm (span of 10m)  
 - metal plate and dowels,  
 connection hidden out of sight

**7 Klimaforum floor:**  
 - topfloor, cement 20 mm  
 - floor heating system (dry): IDEAL OKO 30 mm  
 125 mm h.o.h. heating pipes,  
 using warmwater from heatpump  
 - insulation underneath floor heating 20 mm  
 - water-resistant, vapor-closed foil  
 - ligantur surface element  
 (width 1000 mm, height 400 mm)  
 integrated sound insulation & absorption  
 7 thermal insulation  
 (Rc: 2,0 m<sup>2</sup>:K/W)



**8 Klimaforum north facade (Rc: 6,0 m<sup>2</sup>:K/W):**

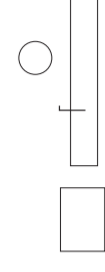
- elevation Glulam Column  
 - stucco finish 5 mm  
 - stucco finish 5 mm  
 - gypsum plate 12,5 mm  
 - fiberboard (vapor-open) (2 x 22 mm) 44 mm  
 - water-resistant, vapor-closed foil  
 - GUTEX Thermoflat insulation in HSB structure 235 mm  
 in facade (Rc: 6,0 m<sup>2</sup>:K/W)  
 - water-resistant, vapor-open foil  
 - regelwerk  
 - ventilated cavity  
 - bevelsiding (potdekselen)  
 local spruce timber, charred to avoid sun staining  
 and increase overall lifespan 22 mm

**9 Klimaforum sliding-door:**

- Elevation Glulam Column  
 - fiberboard (vapor-open) 22 mm  
 finishing on inside green laquer  
 - stelblokje  
 - Metaglas Metherno XL sliding doors,  
 type XHS-25E, isolated aluminium frame (anodized)  
 HR++ insulated glass  
 - water-resistant, vapor-open foil  
 - bevelsiding (potdekselen)  
 local spruce timber, charred to avoid sun staining  
 and increase overall lifespan 22 mm

56 130 160 275 617

20 20 20 400 500 960

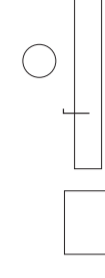
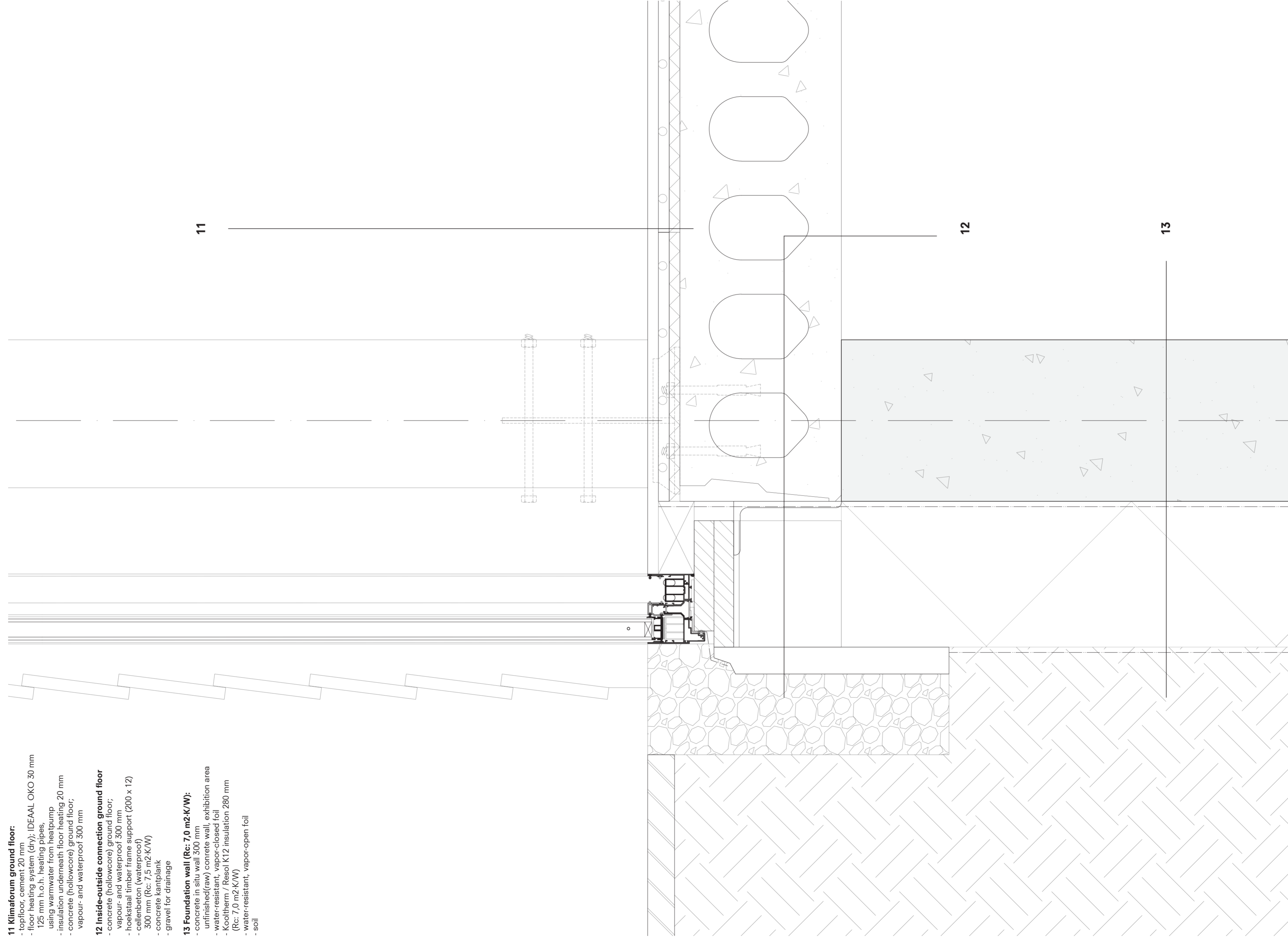


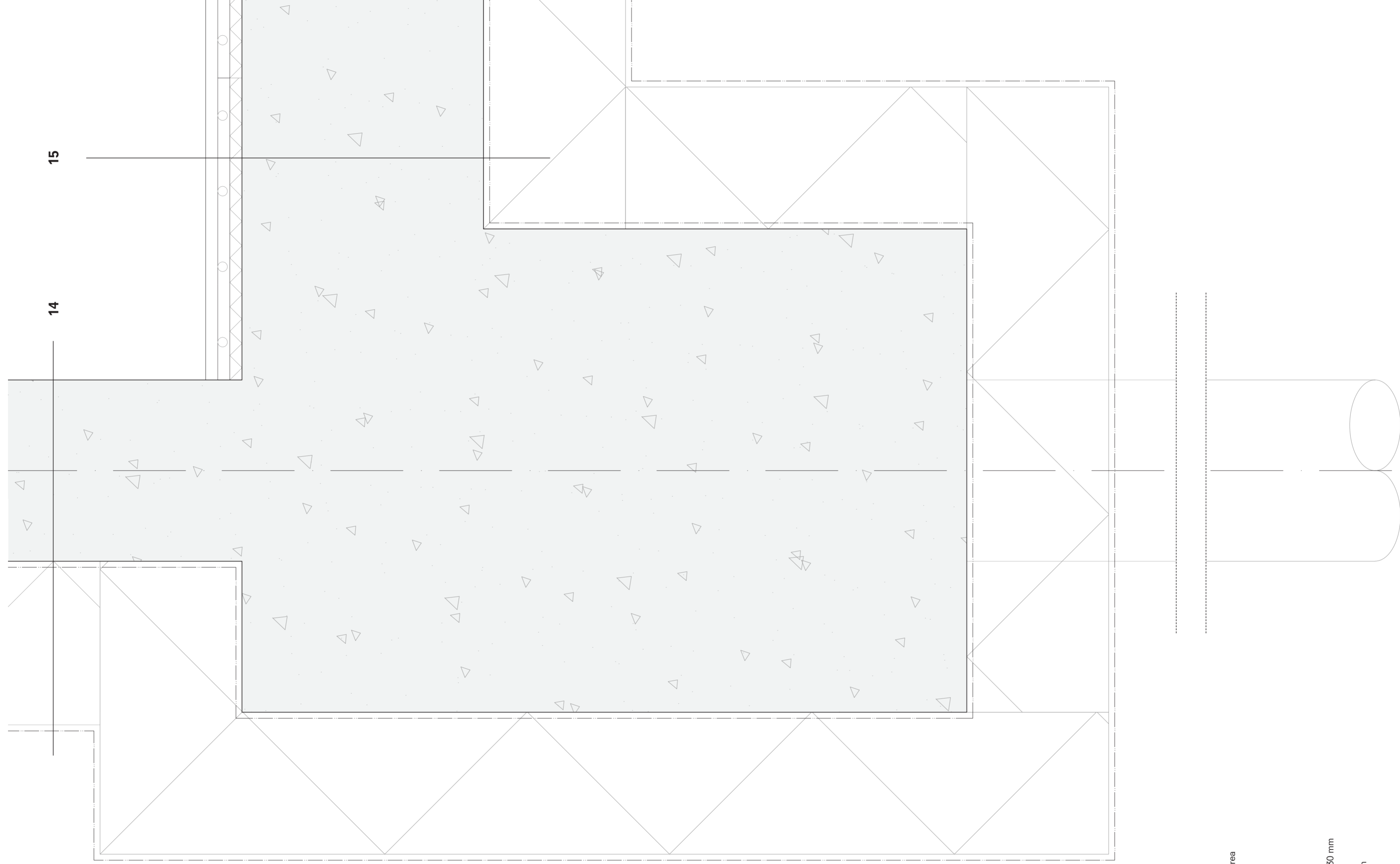
Klimaforum,  
 Detail 1:5 Floor

- 11 Klimaforum ground floor:**
- topfloor, cement 20 mm
  - floor heating system (dry): IDEAL OKO 30 mm
  - 125 mm h.o.h. heating pipes, using warmwater from heatpump
  - insulation underneath floor heating 20 mm
  - concrete (hollowcore) ground floor; vapour- and waterproof 300 mm

- 12 Inside-outside connection ground floor**
- concrete (hollowcore) ground floor; vapour- and waterproof 300 mm
  - hoekstaal timber frame support (200 x 12) cellenbeton (waterproof) 300 mm (Rc: 7,5 m<sup>2</sup>:K/W)
  - concrete kantplank
  - gravel for drainage

- 13 Foundation wall (Rc: 7,0 m<sup>2</sup>:K/W):**
- concrete in situ wall 300 mm unfinished(raw) concrete wall, exhibition area
  - water-resistant, vapor-closed foil
  - Kooltherm / Resol K12 insulation 280 mm (Rc: 7,0 m<sup>2</sup>:K/W)
  - water-resistant, vapor-open foil
  - soil



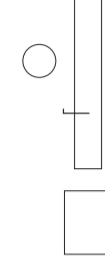


**14 Foundation wall (Rc: 7,0 m<sup>2</sup>K/W):**

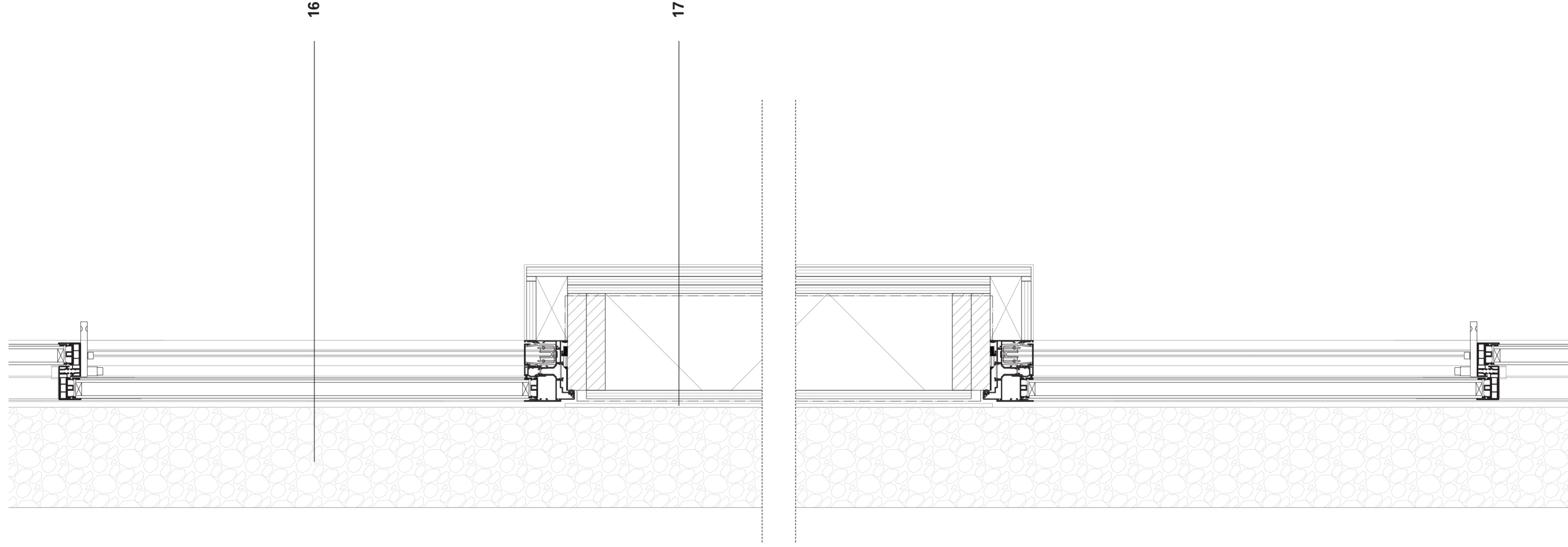
- concrete in situ wall 300 mm unfinished(raw) concrete wall, exhibition area
- water-resistant, vapor-closed foil
- Kingspan Unidek EcoPlus 280 mm in facade (Rc: 7,0 m<sup>2</sup>K/W)
- water-resistant, vapor-open foil
- soil

**15 Klimaforum foundation floor:**

- topfloor, cement 20 mm
- floor heating system (dry): IDEAL OKO 30 mm 125 mm h.o.h. heating pipes, using warmwater from heatpump
- insulation underneath floor heating 20 mm
- concrete in situ foundation floor 300 mm vapour- and waterproof 300 mm



Klimaforum  
Detail 1:5 (A2)

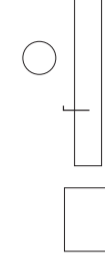


**16 Klimaforum sliding-door:**

- Metaglas Methemo XL sliding doors, type XHS-25E, isolated aluminium frame (anodized) HR++ insulated glass
- elevation gravel for drainage

**17 Klimaforum north facade (Rc: 6,0 m<sup>2</sup>:K/W):**

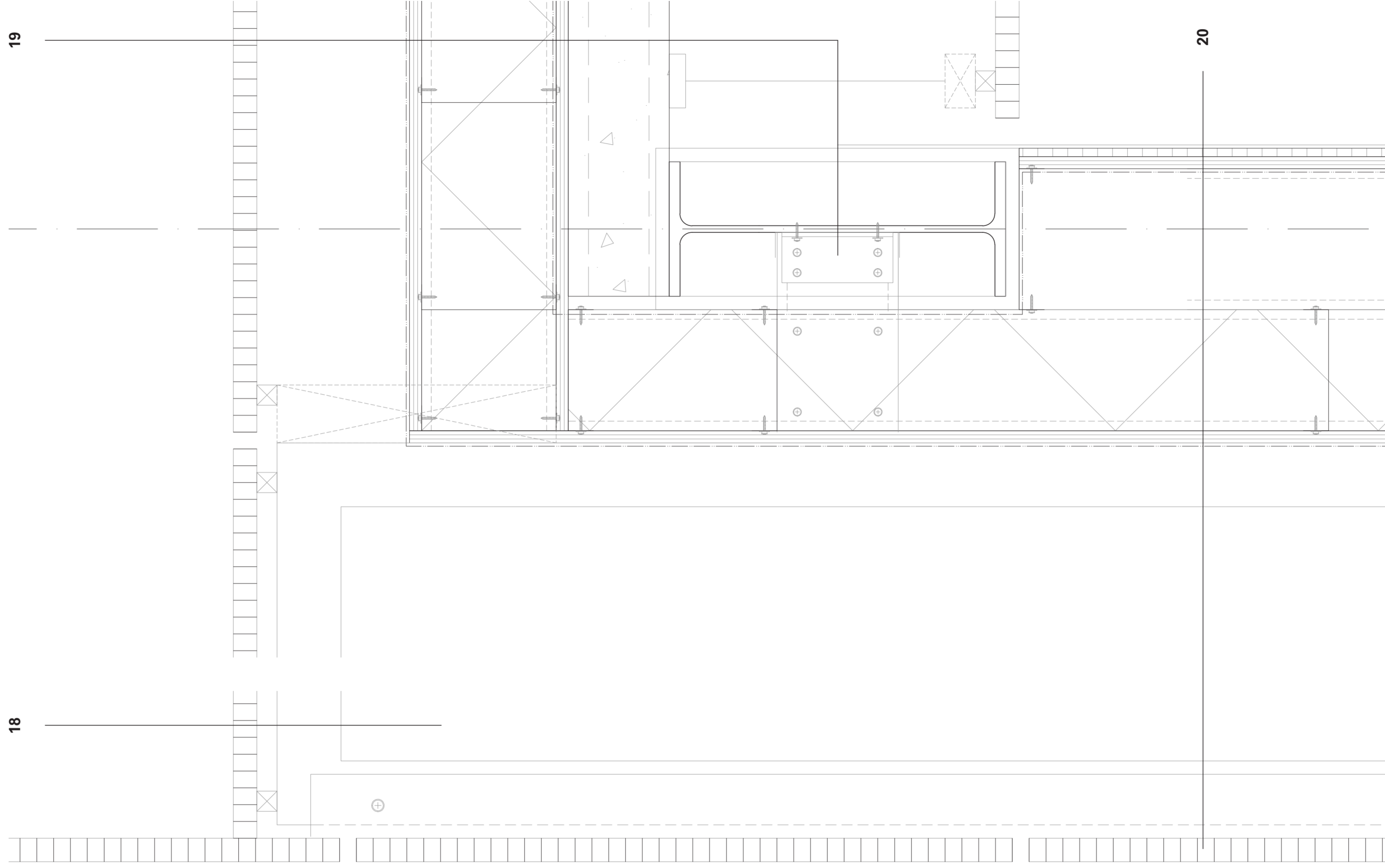
- stucco finish 5 mm
- gypsum plate 12,5 mm
- fiberboard (vapor-open) (2 x 22 mm) 44 mm
- water-resistant, vapor-closed foil
- GUTEX Thermoflat insulation in HSB structure 235 mm in facade (Rc: 6,0 m<sup>2</sup>:K/W)
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-open foil
- regelwerk
- ventilated cavity
- glass facade panel, tinted + mirrored



Klimaforum  
Detail 1:5 (A2)



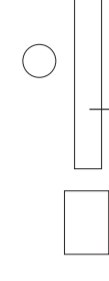




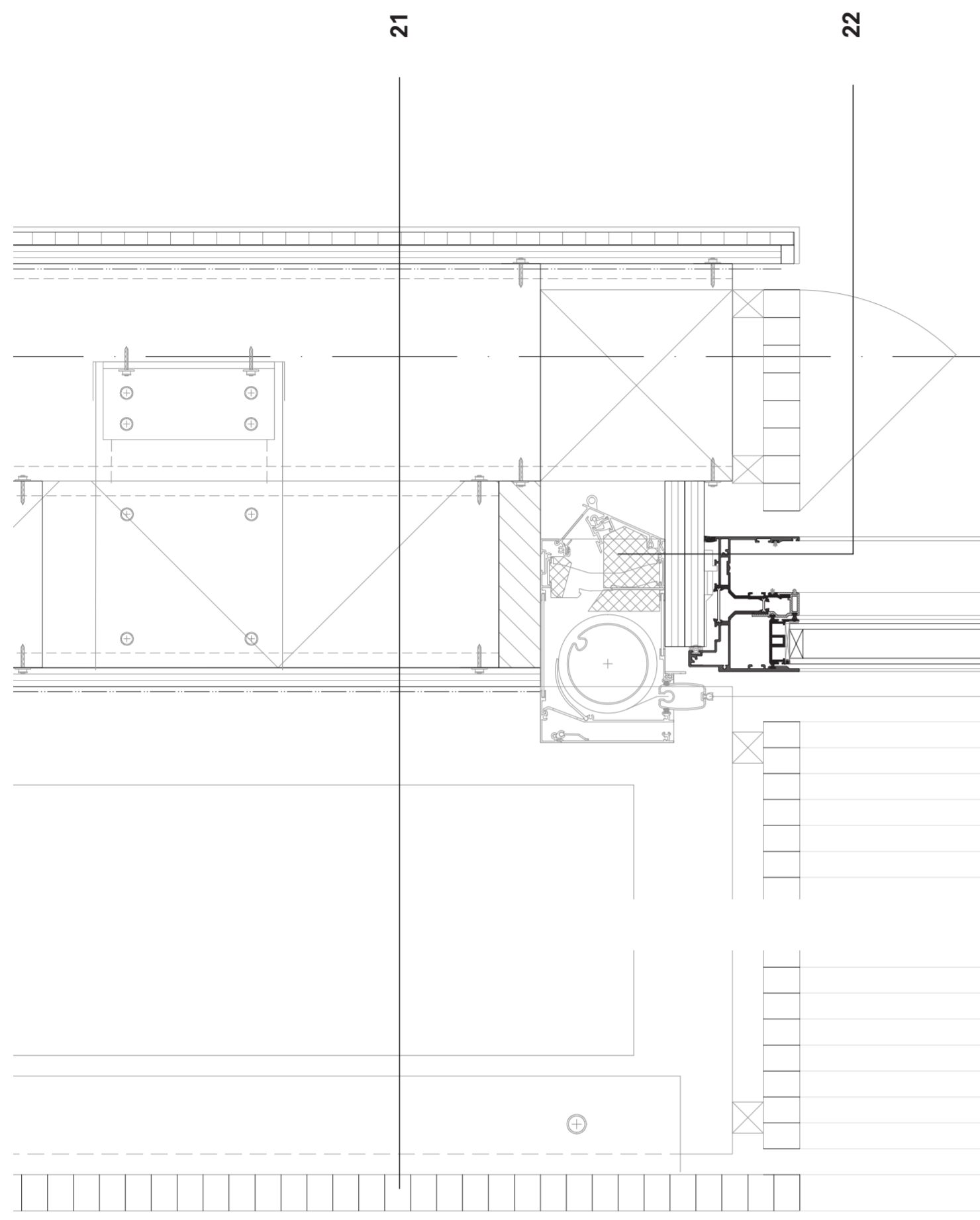
**18 Steel grating facade and walkways**  
 - steel grating floor elements 50 mm (1200 x 1000 mm)  
 - steel support system, connected to main structure

**19 Klimaforum roof (Rc: 6.0 m<sup>2</sup>-K/W):**  
 - steel grating floor elements 50 mm (1200 x 1000 mm)  
 imposed on the roof through contactplatten (GEI),  
 max load 1000kg per plate  
 - water-resistant, vapor-open foil  
 - fiberboard (vapor-open) 22 mm  
 - Kingspan Unidek EcoPlus (1.250 x 1.000) 240 mm  
 (Rc: 6.0 m<sup>2</sup>-K/W)  
 - water-resistant, vapor-barrier foil  
 - fiberboard (vapor-open) 22 mm  
 - concrete (hollowcore) ground floor;  
 vapour- and waterproof 150 mm (span 4m)  
 - lowered ceiling, hiding ducts and pipes  
 - fire retardant around IPE 500, vermiculite 22 mm  
 - IPE 500 (span of 10m)  
 - connection to metal stud frame

**20 Facade workshop spaces (Rc: 6.0 m<sup>2</sup>-K/W):**  
 - white stucco finish 5 mm  
 - gypsumplate 12,5 mm  
 - fiberboard (vapor-open) 22 mm  
 - water-resistant, vapor-barrier foil  
 - Kingspan Unidek EcoPlus (1.250 x 1.000) 240 mm  
 (Rc: 6.0 m<sup>2</sup>-K/W)  
 - fiberboard (vapor-open) 22 mm  
 - water-resistant, vapor-open foil  
 - ventilated cavity  
 - steel support system, connected to main structure  
 - steel grating floor elements 50 mm (1200 x 1000 mm)  
 imposed on the roof through contactplatten (GEI),  
 max load 1000kg per plate



Klimaforum  
 Detail 1:5 (A2)

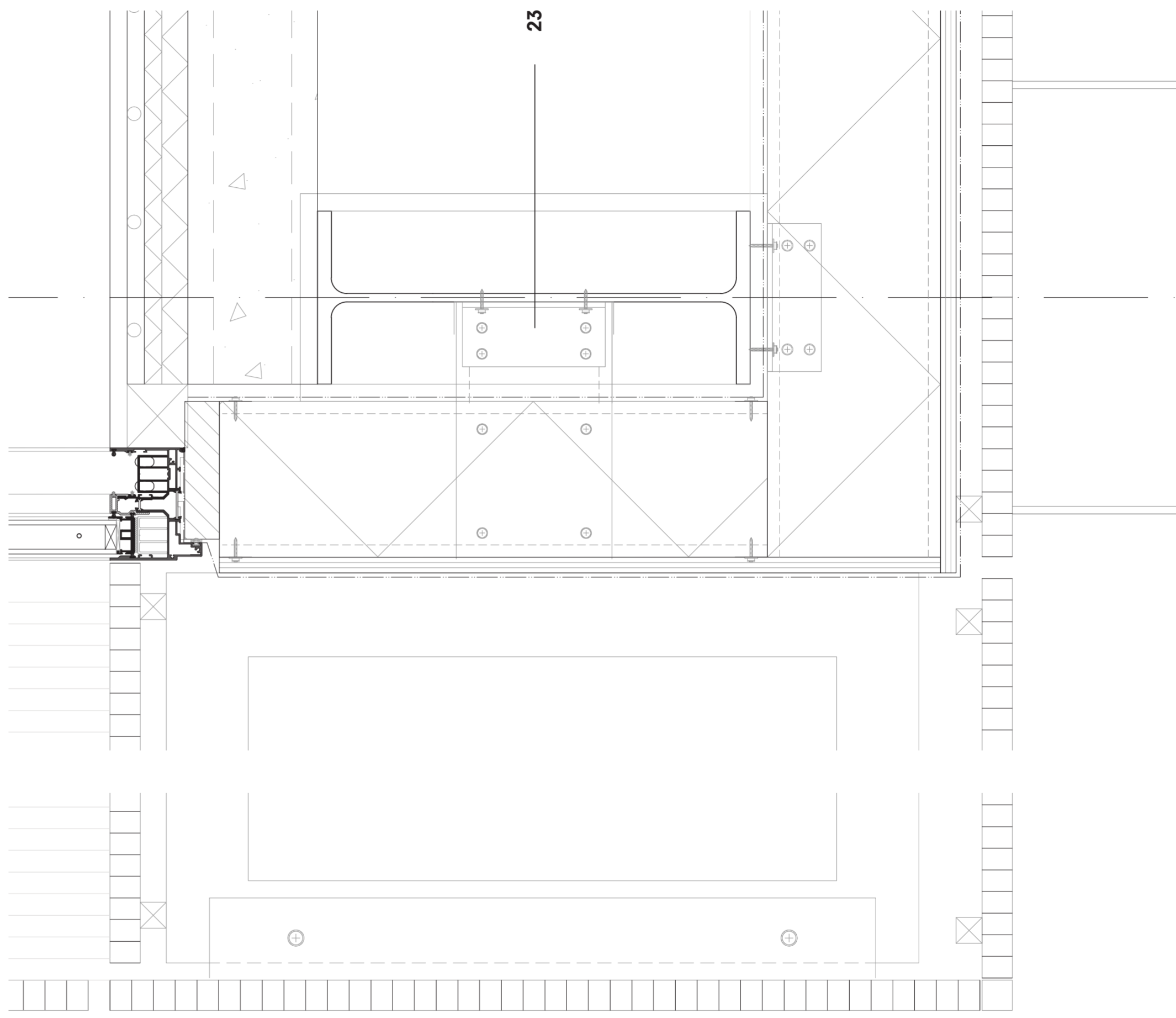


**21 Facade workshop spaces (Rc: 6.0 m<sup>2</sup>K/W):**

- white stucco finish 5 mm
- gypsumplate 12,5 mm
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-barrier foil
- Kingspan Unidek EcoPlus (1.250 x 1.000) 240 mm (Rc: 6,0 m<sup>2</sup>:K/W)
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-open foil
- ventilated cavity
- steel grating facade elements 50 mm (1200 x 1000 mm)

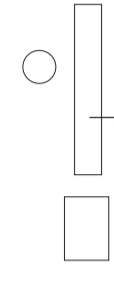
**22 Klimaforum natural ventilation south facade:**

- Metaglas Methermo XL sliding doors, type XHS-25E, isolated aluminium frame (anodized) HR++ insulated glass
- fiberboard (vapor-open) (2 x 22 mm) 44 mm
- DucoTwin 120 'ZR', sunscreen and (natural) ventilation



**23 Main structure south facade:**

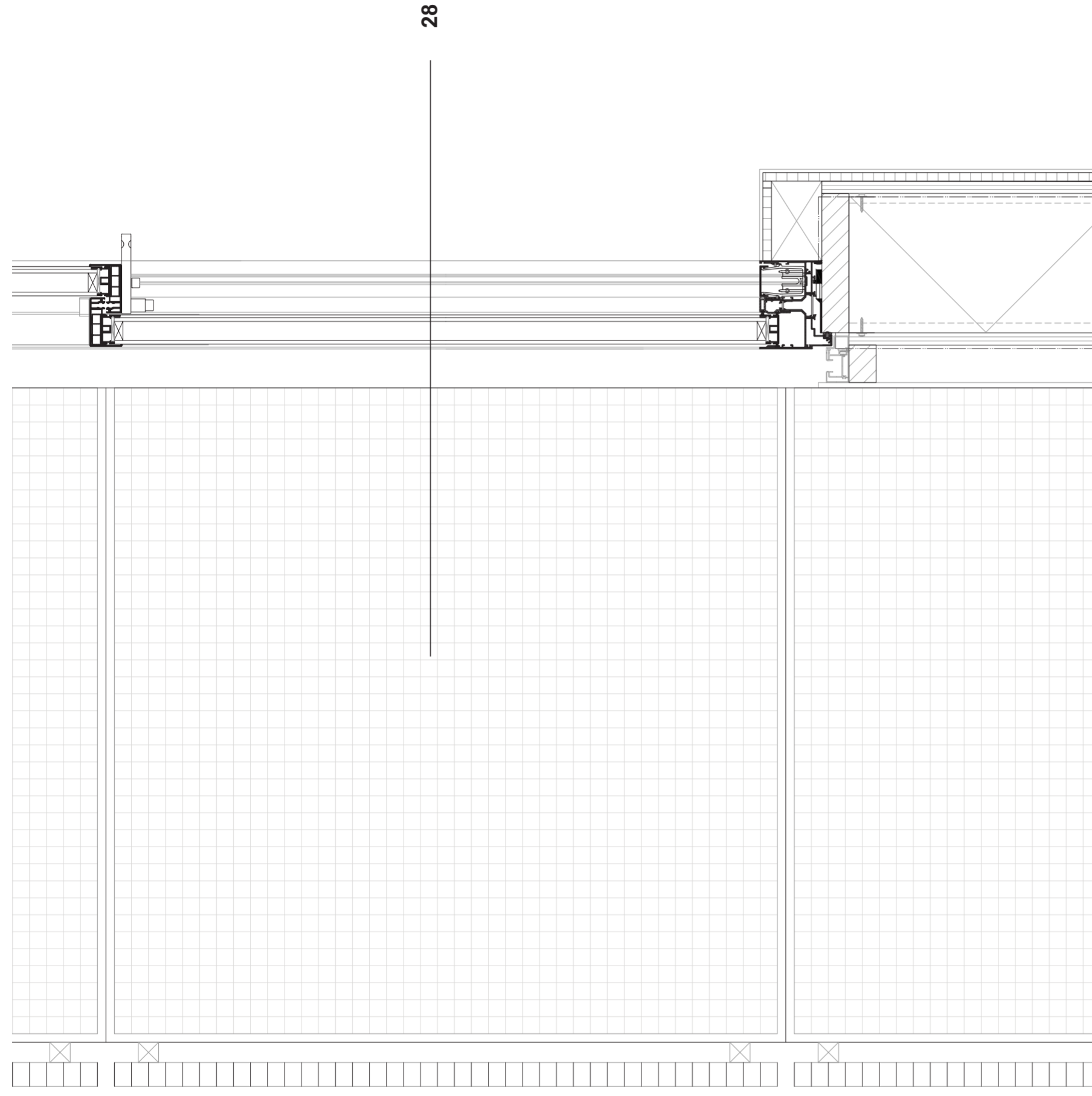
- fire retardant around IPE 500, vermiculite 22 mm
- IPE 500 (span of 10m)
- connection to metal stud frame



Klimaforum  
Detail 1:5 (A2)

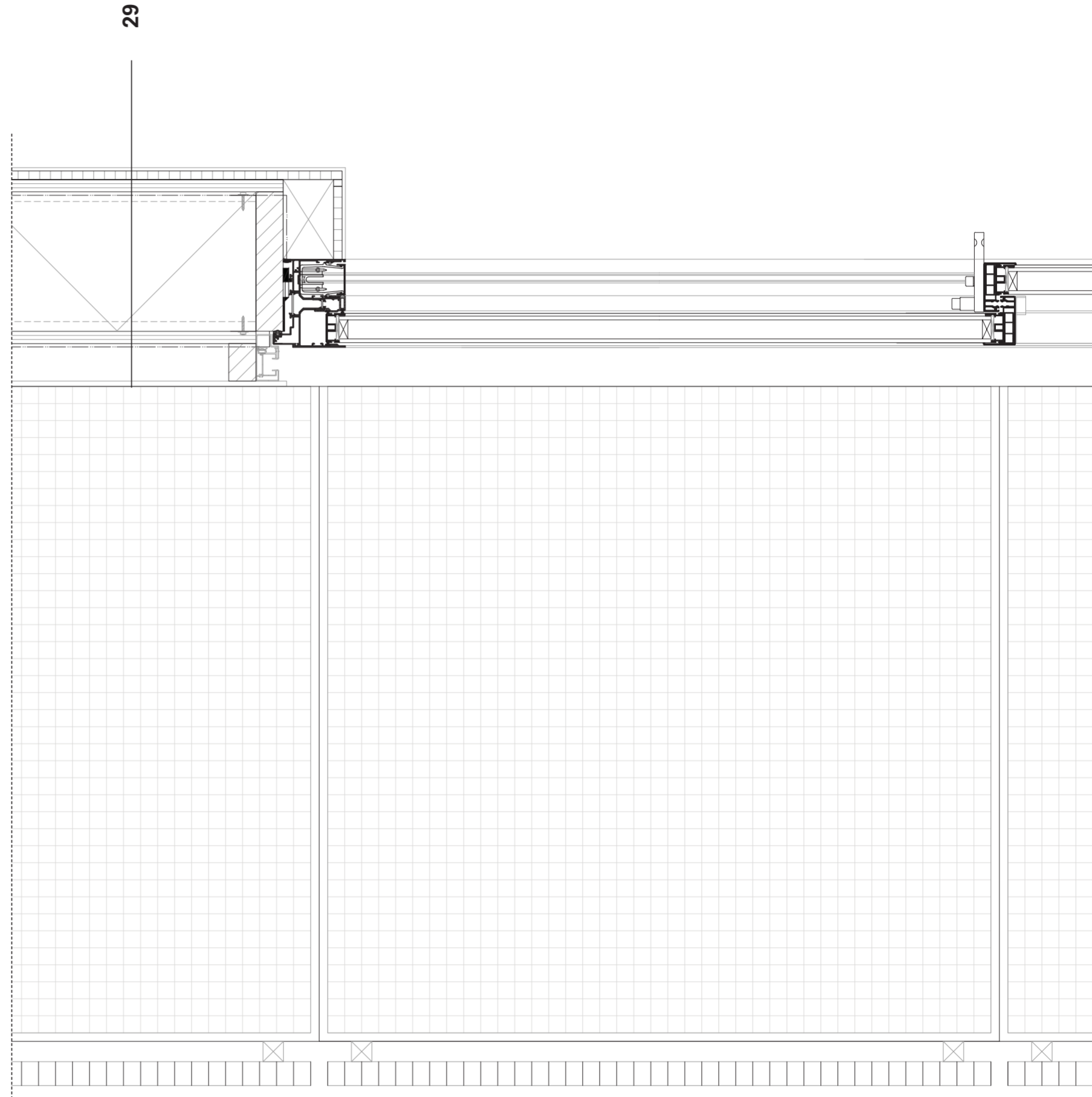
0 50mm

250mm



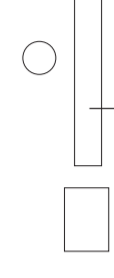
**28 Outdoor space workshop spaces**

- Metaglas Methemo XL sliding doors, type XHS-25E, isolated aluminium frame (anodized) HR++ insulated glass
- elevation steel grating floor elements 50 mm (1200 x 1000 mm)



**29 Klimaforum south facade (Rc: 6,0 m<sup>2</sup>·K/W):**

- stucco finish 5 mm
- gypsum plate 12,5 mm
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-closed foil
- Kingspan Unidek EcoPlus (1.250 x 1.000) 240 mm (Rc: 6,0 m<sup>2</sup>·K/W)
- fiberboard (vapor-open) 22 mm
- water-resistant, vapor-open foil
- 'regelwerk'
- ventilated cavity
- glass facade panel, tinted + mirrored



Klimaforum  
Detail 1:5 (A2)