



LOUVRE LENS, FRANCE_SANAA

A COMPETITION

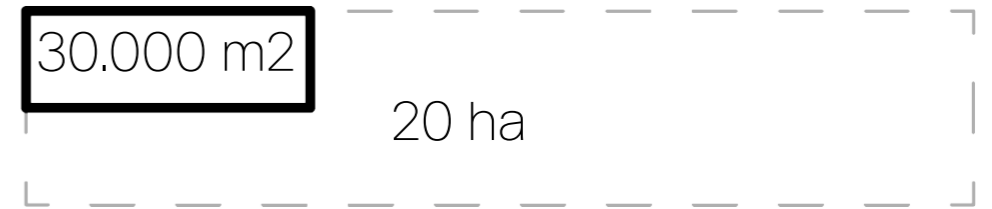
_the program given to the competitors:

_spaces intended for the public: 3,500 m² of presentations renewed around a journey through time (around several hundred works), 1,000 m² to be distributed of reception and mediation spaces; 1500 m² of temporary exhibitions; a scene ; cultural spaces for introductory workshops, media library, conferences and training (1200 m²); reception areas (1550 m²); concession services (1000m²); sum: 9750 m²

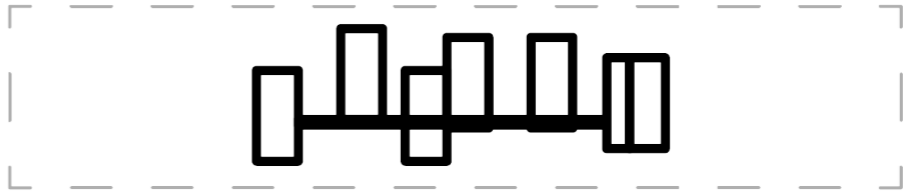
_logistics spaces: on separate routes, and administrative spaces for 16,000 m² , including 2,000 m² of reserves that can be visited; sum: 18,000 m²

_outdoor spaces and gardens and, as an option, a catering centre, reserves for the Louvre and a panorama for very large formats.

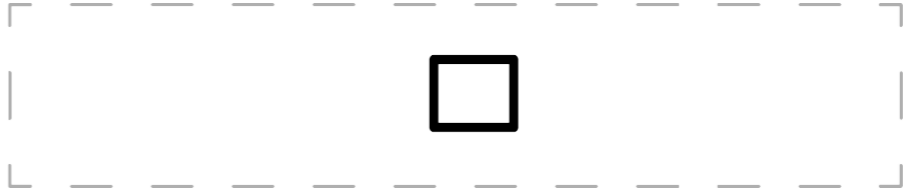
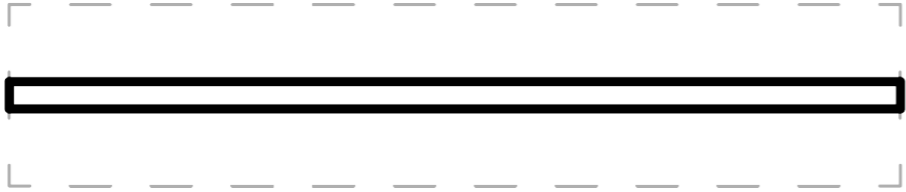
In total around 30,000 m²



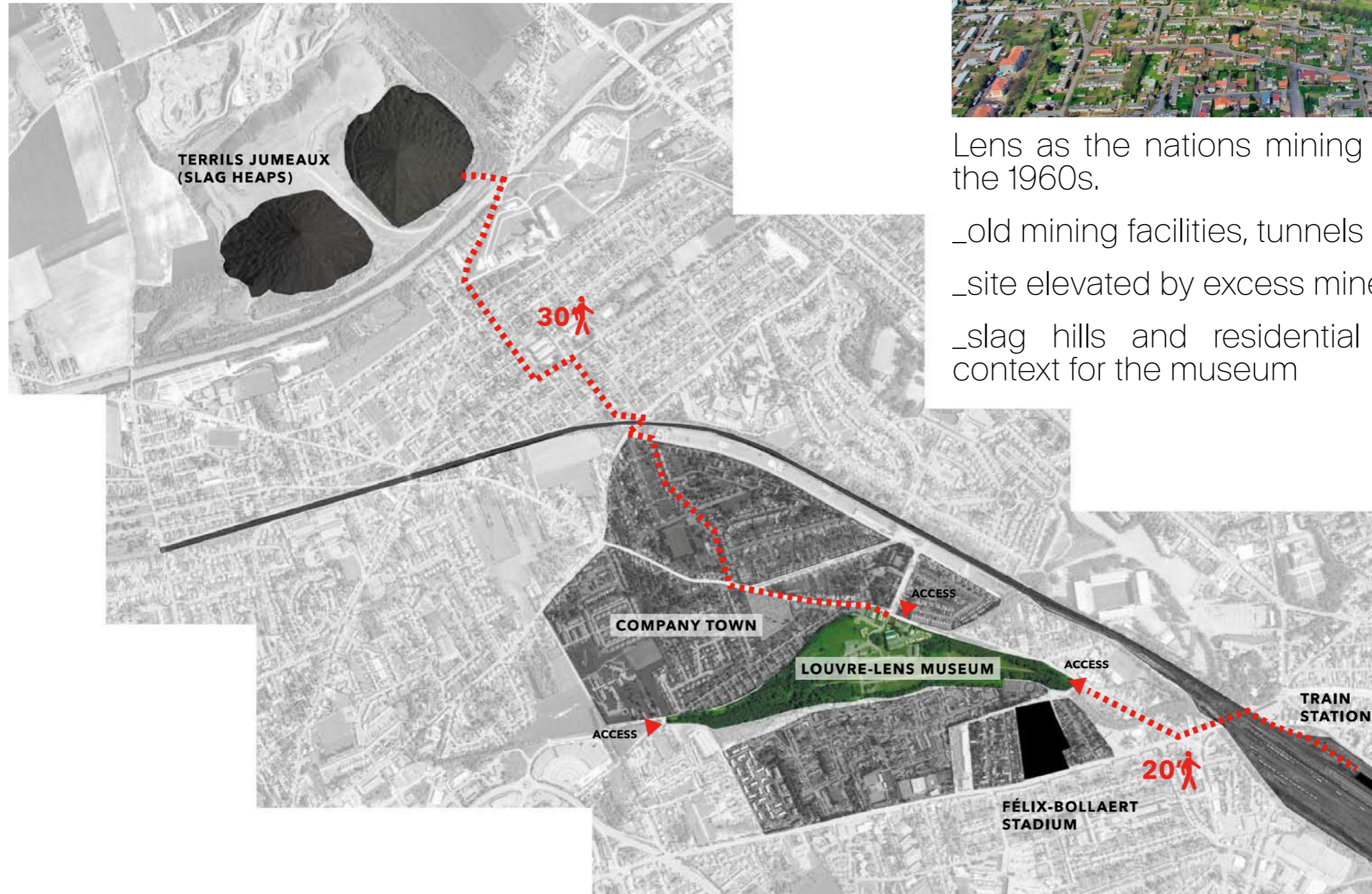
A COMPETITION _DEALING WITH A (HISTORIC) VOID



In a 20 hectar site how do you mass the volume? How do you distribute the spaces?



THE CONTEXT _A HISTORIC VOID



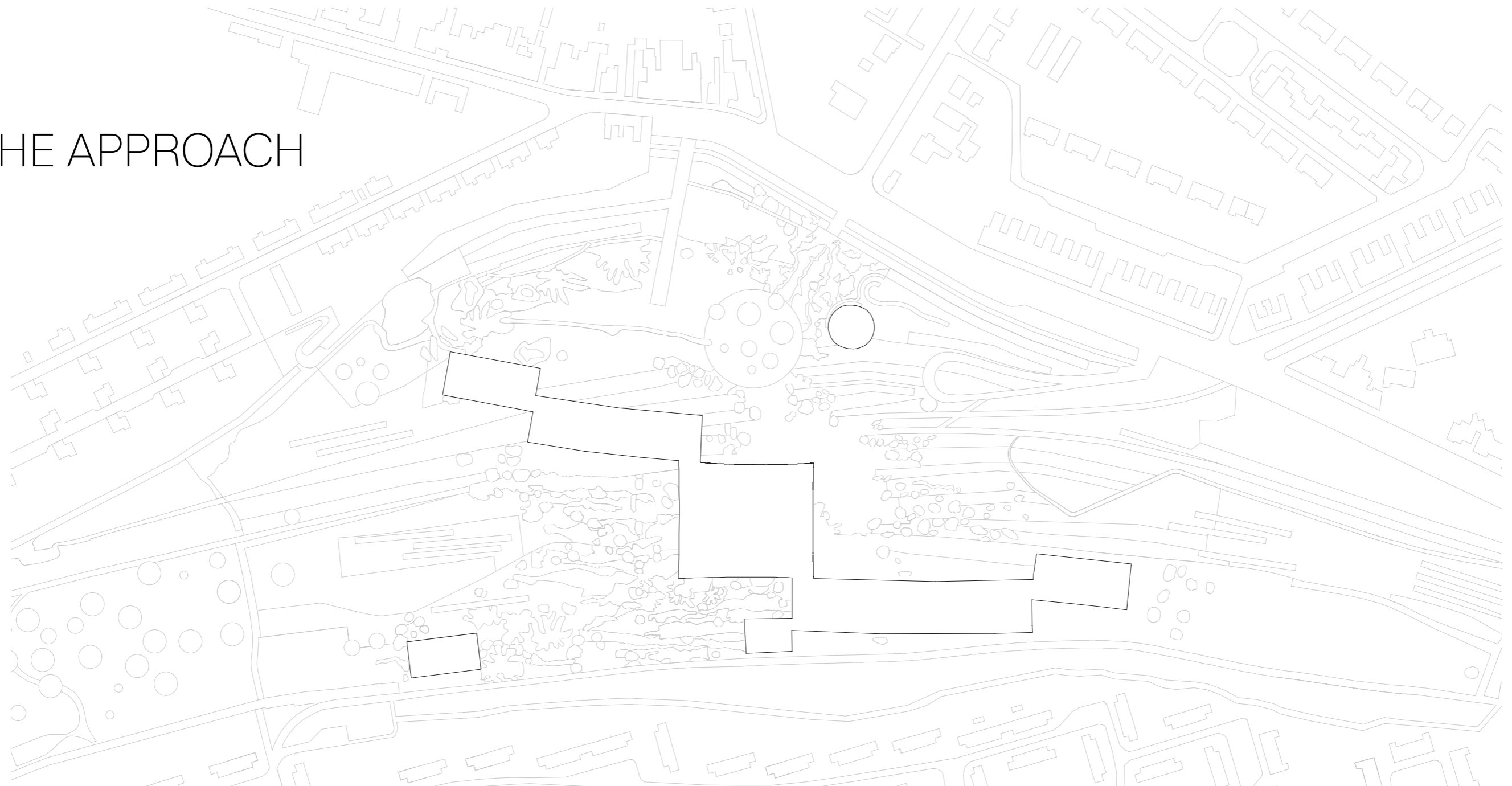
Lens as the nations mining capital until closure in the 1960s.

_old mining facilities, tunnels on the site

_site elevated by excess mine infill

_slag hills and residential areas as immediate context for the museum

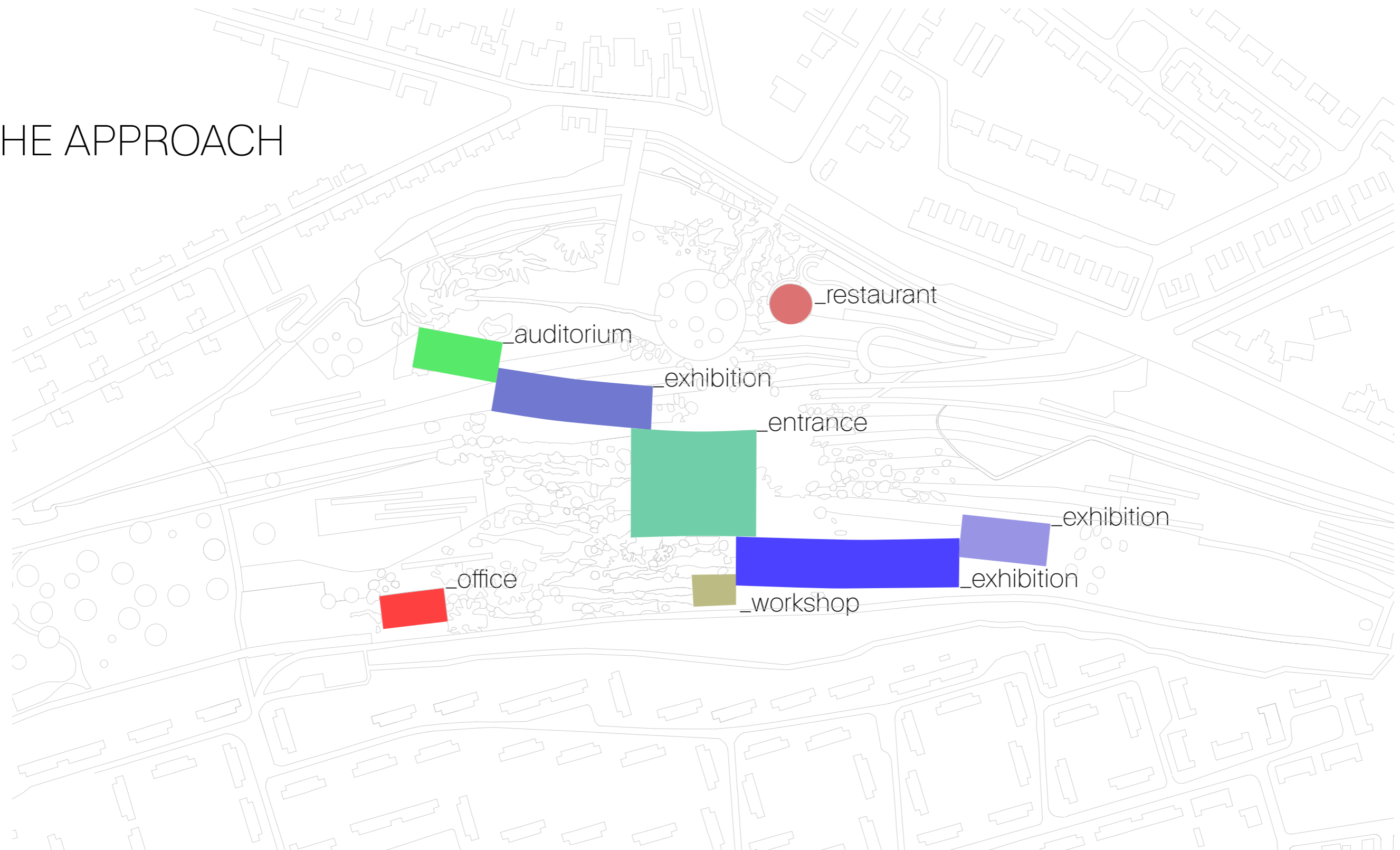
THE APPROACH



The Japanese architects from SANAA, Kazuyo Sejima and Ryue Nishizawa, wanted to avoid creating a dominating fortress, opting instead for a low, easily accessible structure that integrates into the site without imposing on it by its presence.

A fundamental decision was taken by SANAA to break what could have been a large monolithic form into a group of smaller pavilions in order to maintain the openness of the site and to reduce the ascendancy of this large project.

THE APPROACH

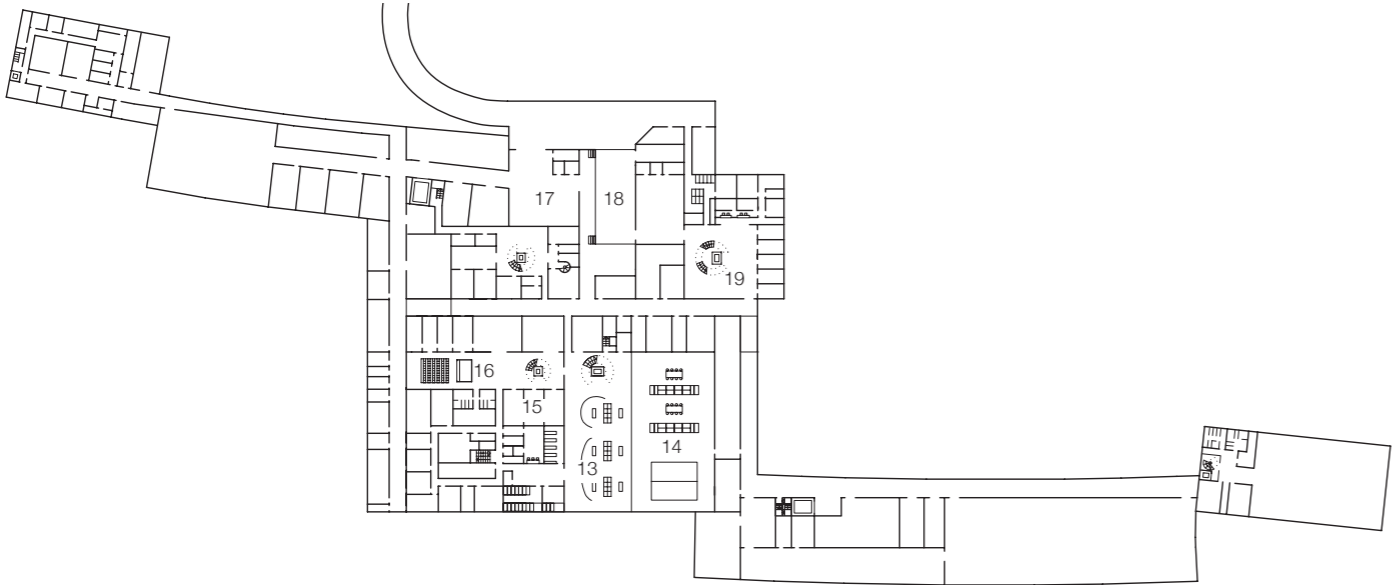


Going further, two of the scheme's eight pavilions have become detached from the central hub, acting as gateways between the city and its new cultural home. In the park, two free standing buildings house the administration offices and the restaurant, linking the museum to the city.

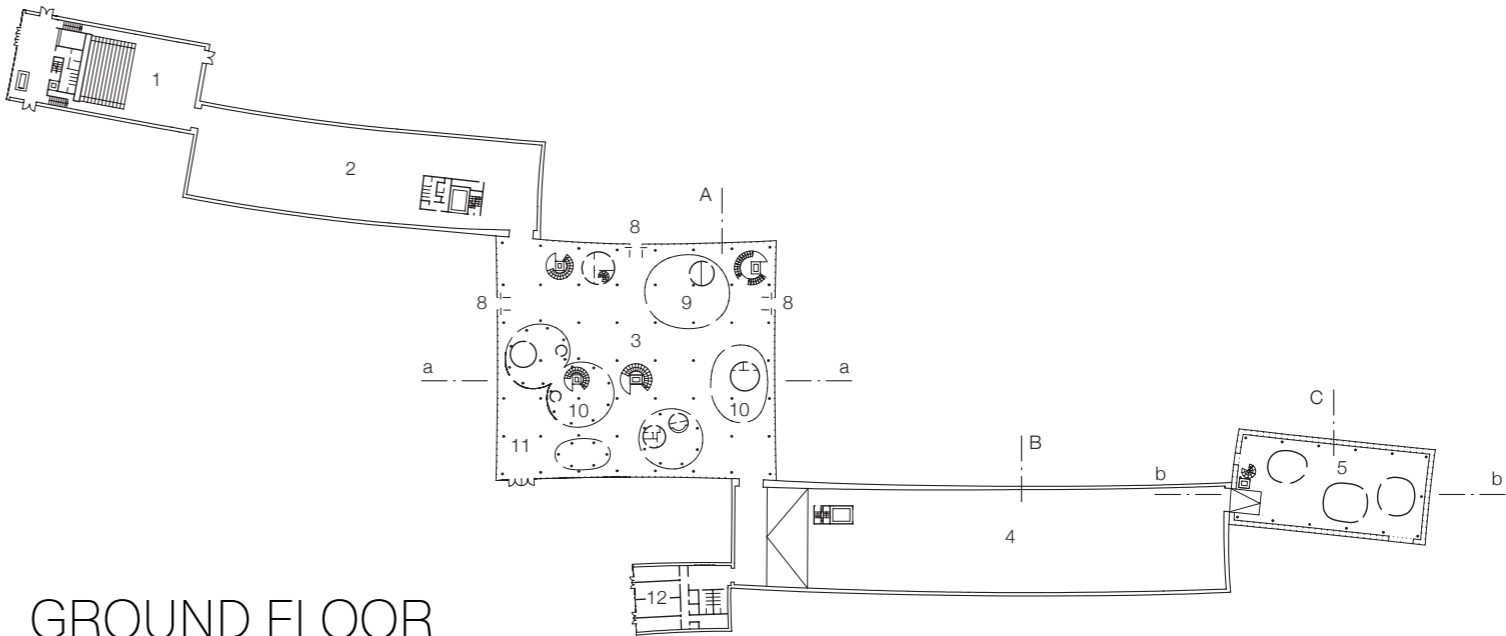
THE APPROACH



THE DRAFT _FLOOR PLAN AND SECTION



_BASEMENT



_GROUND FLOOR

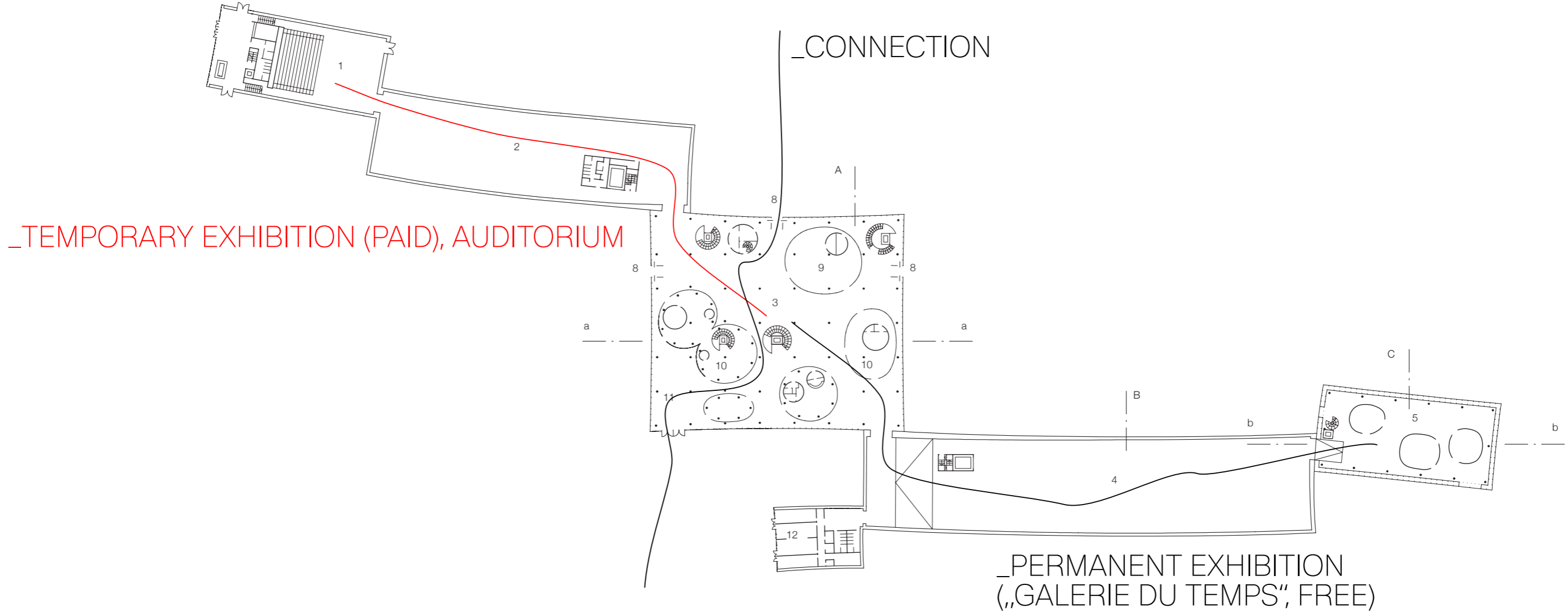


_BB



_AA

THE DRAFT _FLOW OF VISITORS



THE DRAFT _ELEVATION

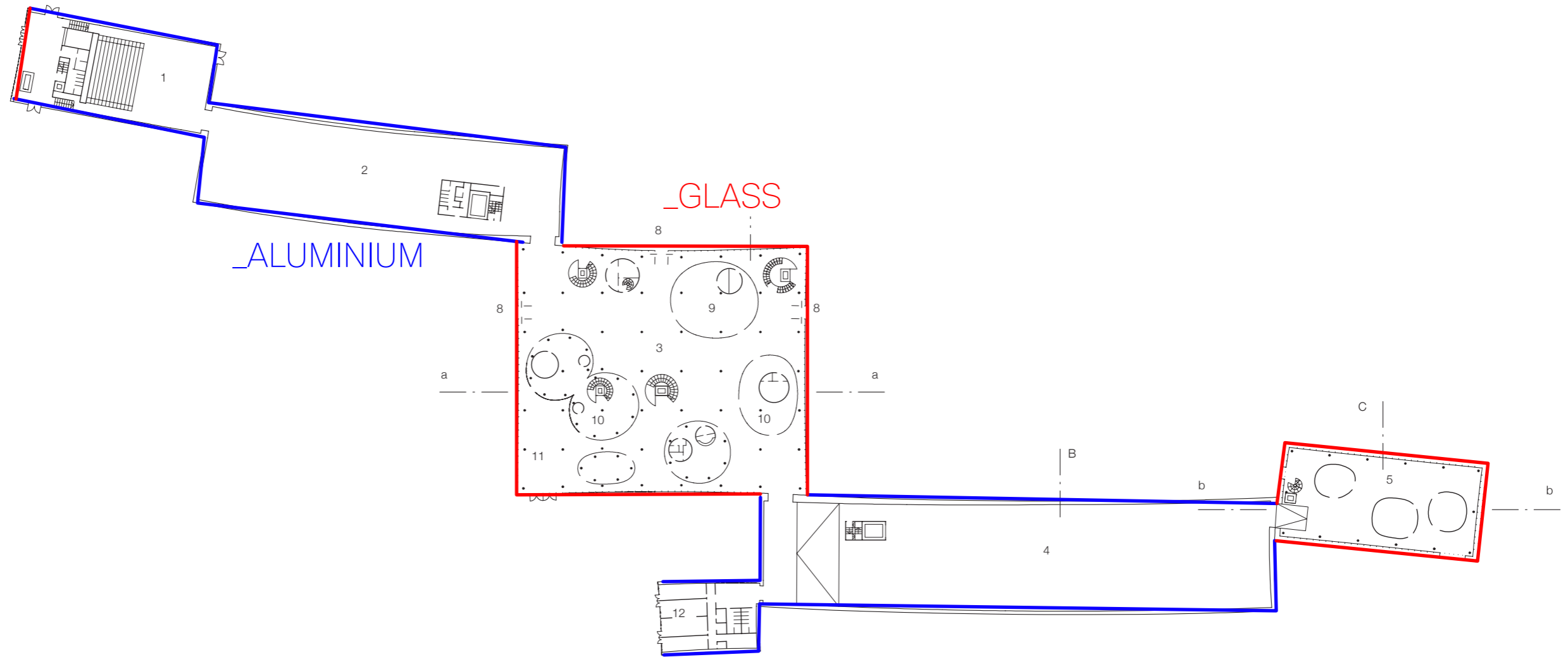
A maximum height of 6m,

Not imposing on the elevated site,

A low „wall“...



MATERIALITY

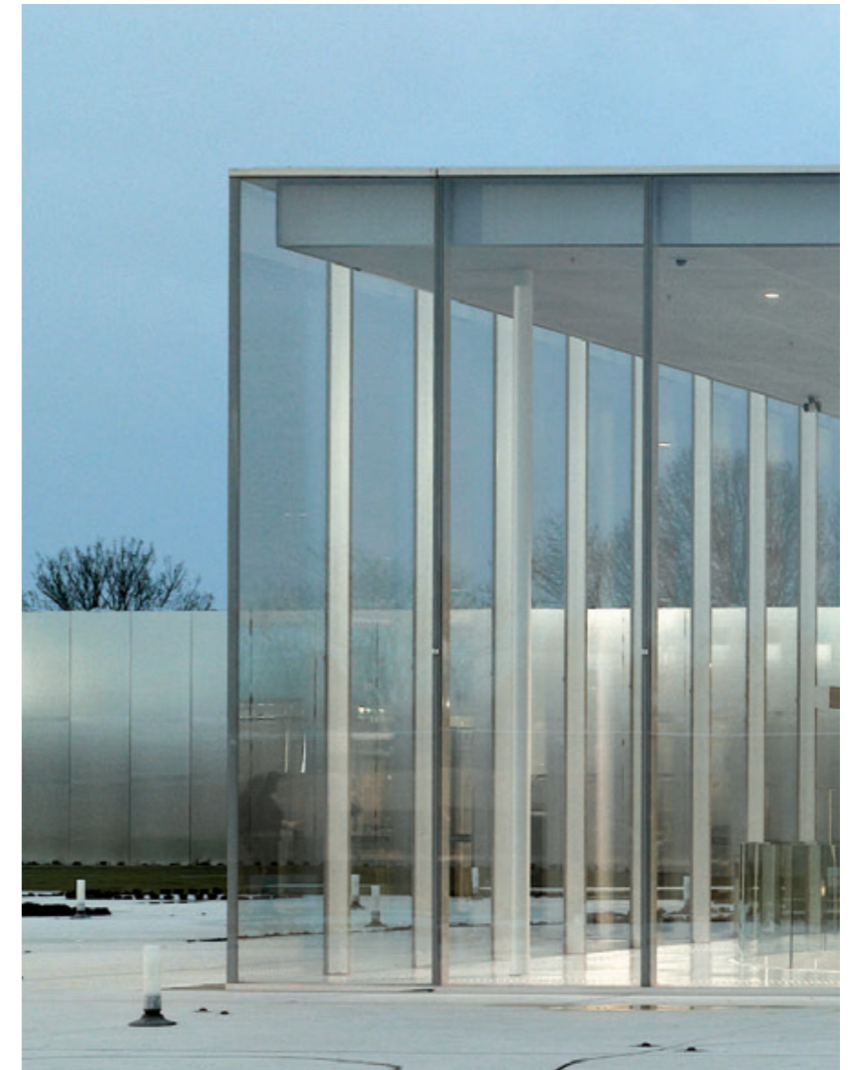
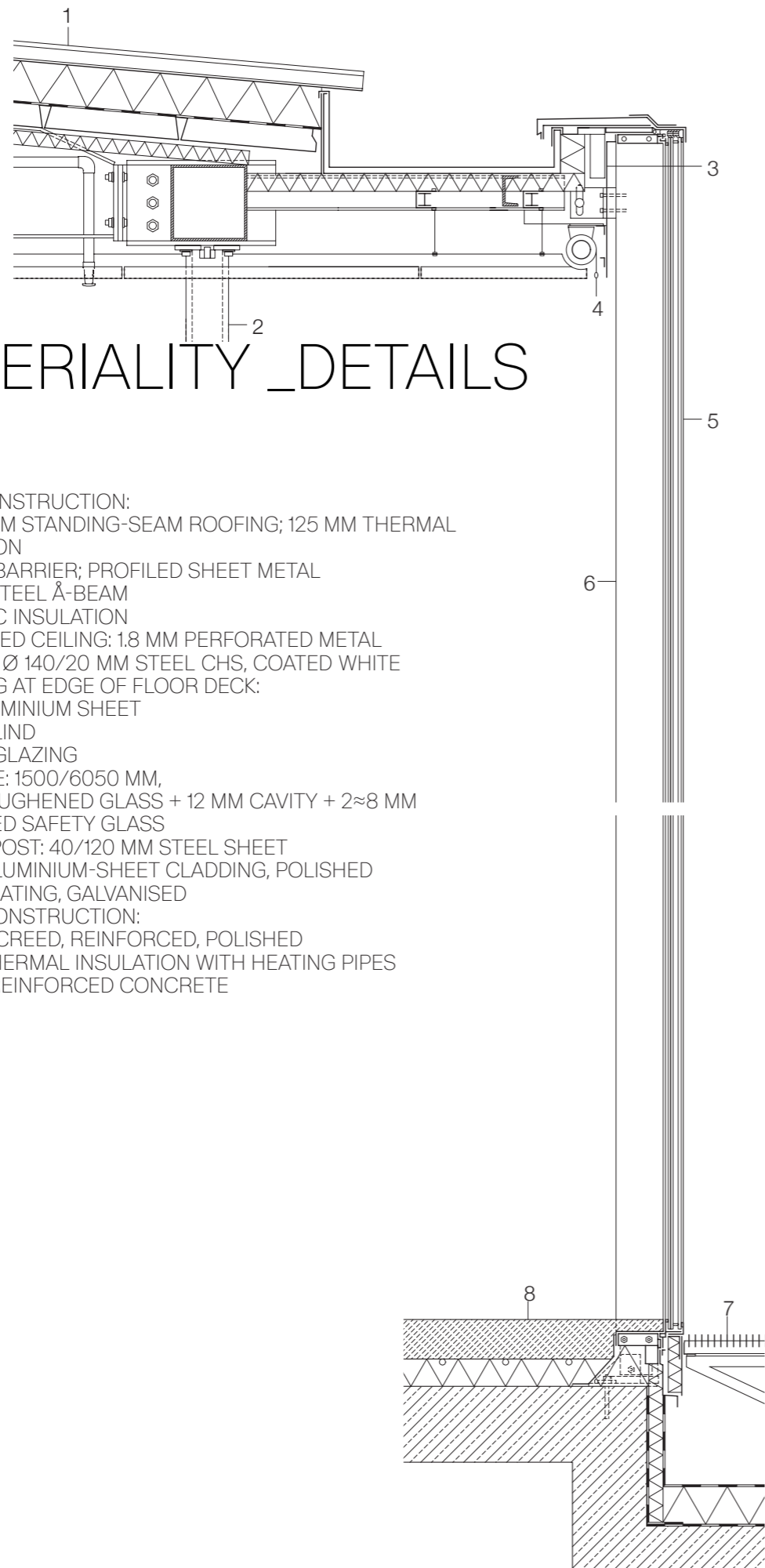


MATERIALITY



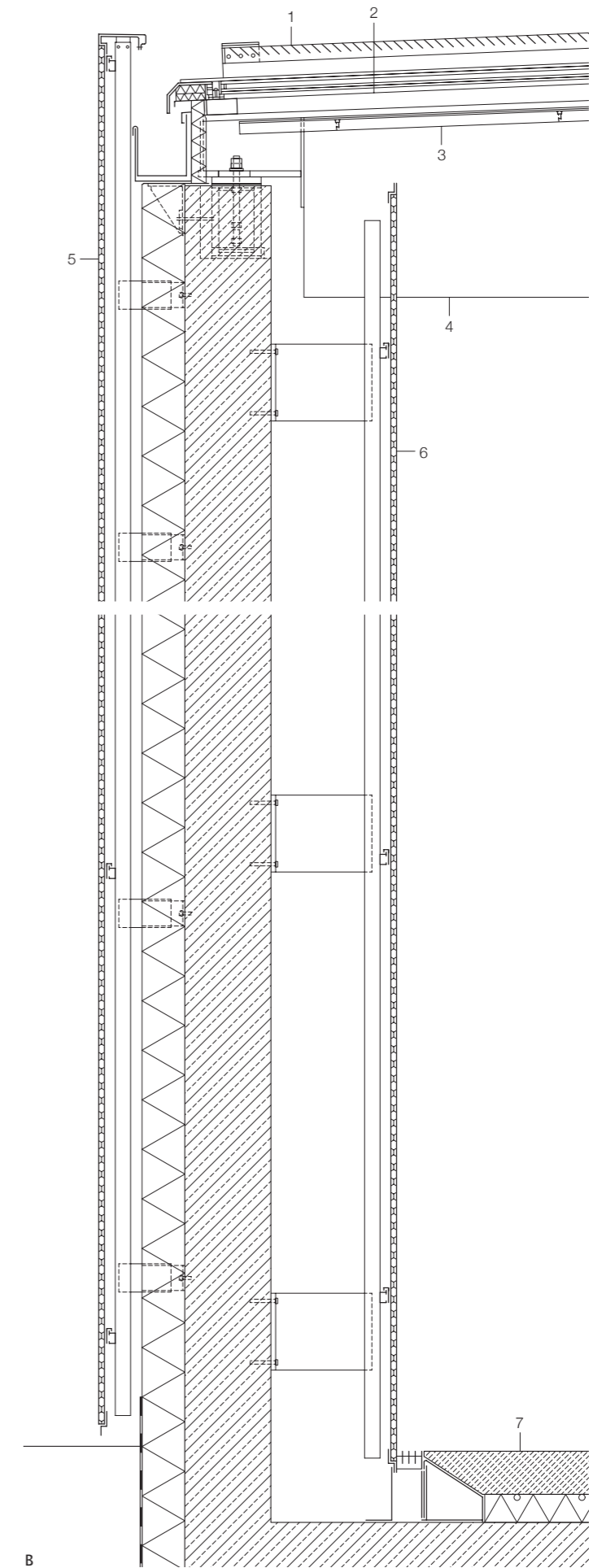
MATERIALITY _DETAILS

- 1 ROOF CONSTRUCTION:
ALUMINIUM STANDING-SEAM ROOFING; 125 MM THERMAL INSULATION
VAPOUR BARRIER; PROFILED SHEET METAL
280 MM STEEL Å-BEAM
ACOUSTIC INSULATION
SUSPENDED CEILING: 1.8 MM PERFORATED METAL
- 2 COLUMN: Ø 140/20 MM STEEL CHS, COATED WHITE
- 3 CLADDING AT EDGE OF FLOOR DECK:
2 MM ALUMINIUM SHEET
- 4 SOLAR BLIND
- 5 DOUBLE GLAZING
PANE SIZE: 1500/6050 MM,
10 MM TOUGHENED GLASS + 12 MM CAVITY + 2~8 MM
LAMINATED SAFETY GLASS
- 6 FACADE POST: 40/120 MM STEEL SHEET
2.5 MM ALUMINIUM-SHEET CLADDING, POLISHED
- 7 STEEL GRATING, GALVANISED
- 8 FLOOR CONSTRUCTION:
130 MM SCREED, REINFORCED, POLISHED
90 MM THERMAL INSULATION WITH HEATING PIPES
250 MM REINFORCED CONCRETE

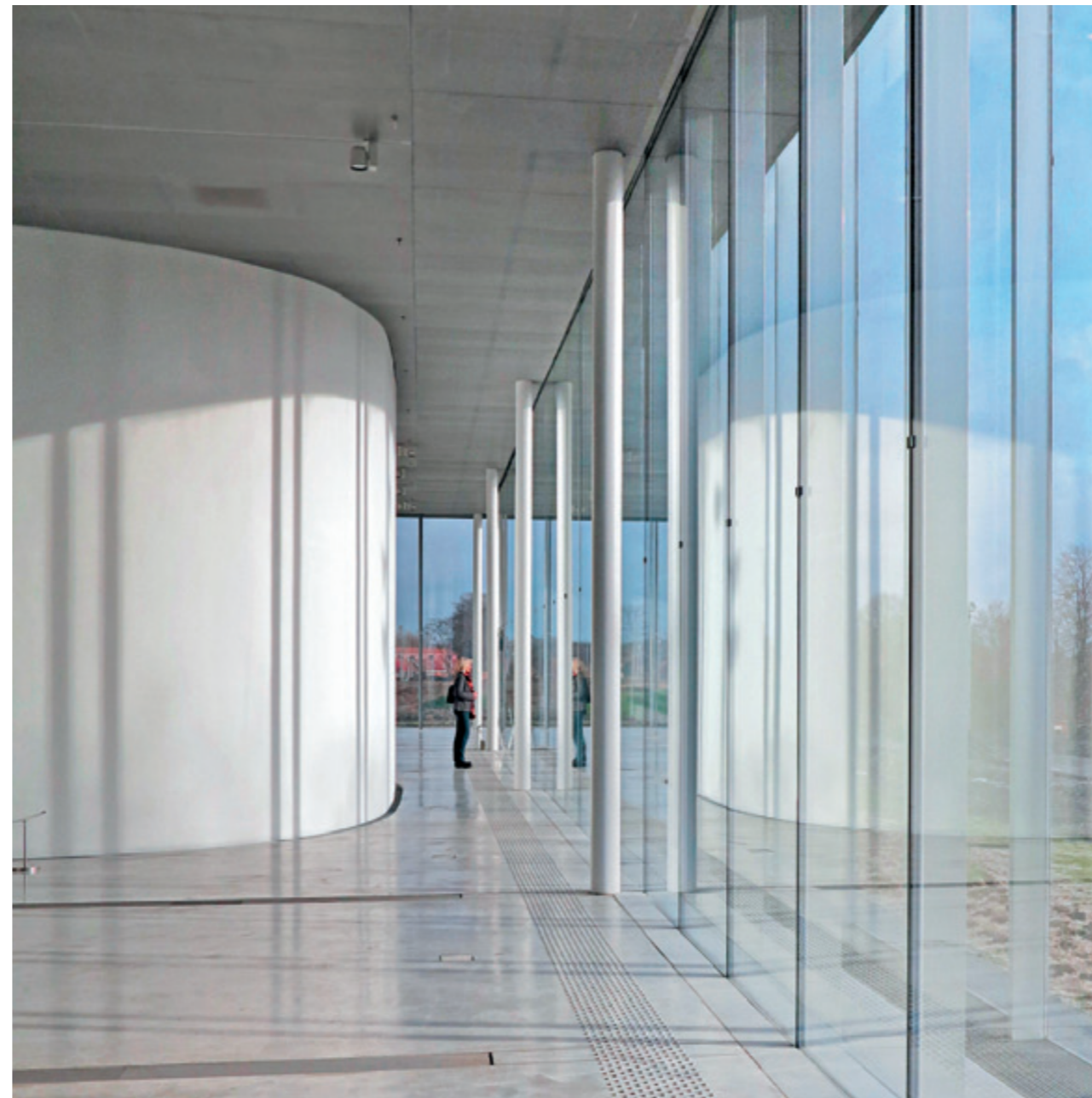
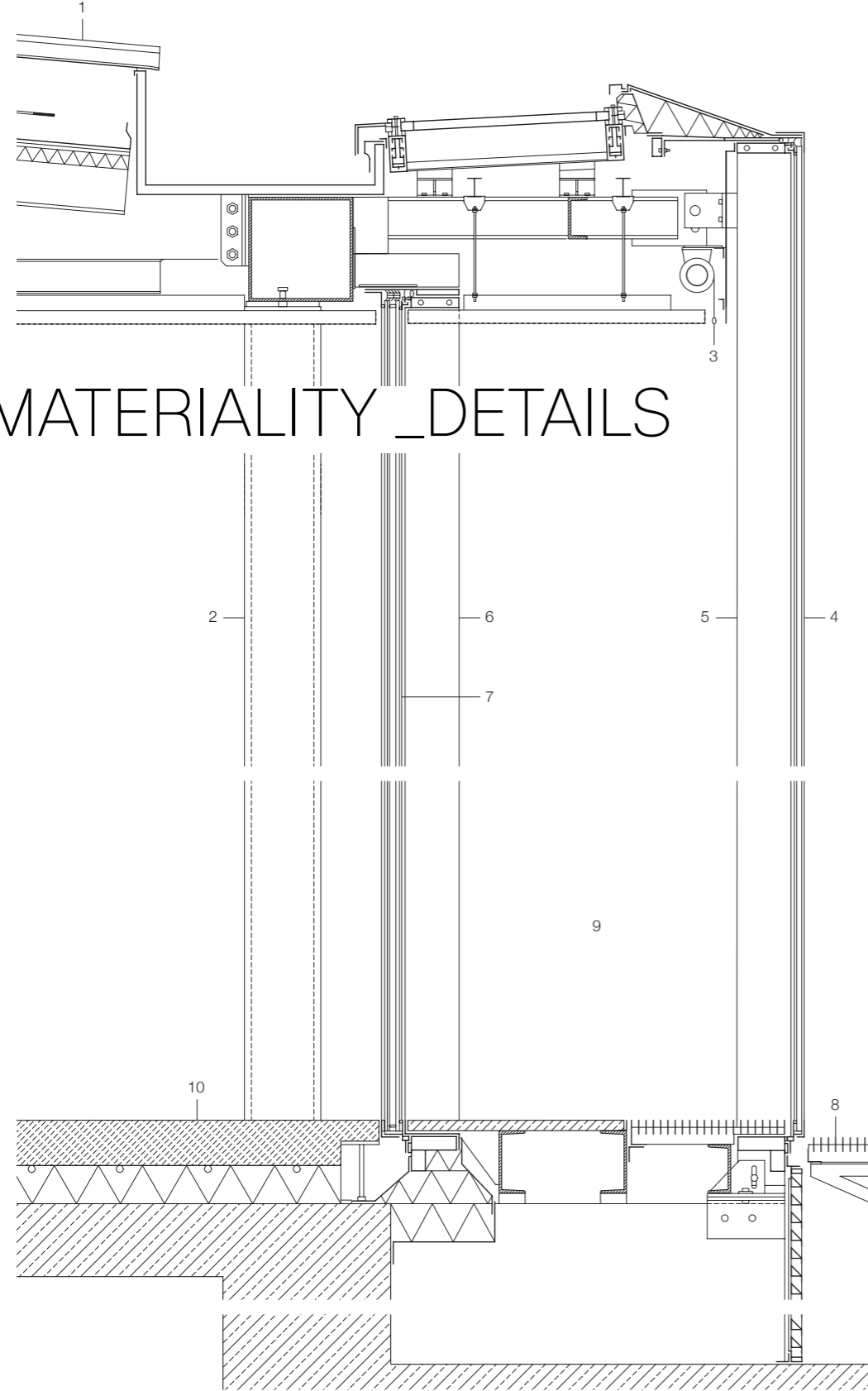


MATERIALITY_DETAILS

- 1 fixed solar protection
50 mm grating
double glazing: 10 mm toughened
glass + 12 mm cavity + 2~8 mm
laminated safety glass
- 2 secondary structure:
40/60 mm steel RHS frame
- 3 adjustable louvers to darken interior
- 4 200/600-1100 mm steel T-beam with
12 mm web, coated
- 5 1500/6050/23 mm sandwich element,
aluminium honeycomb core
1.5 mm aluminium sheet, anodised
cramp iron, aluminium
140 mm thermal insulation
280 mm reinforced concrete
- 6 1500/6050/21 mm sandwich element
1.5 mm aluminium sheet, anodised
cramp iron, aluminium
140 mm thermal insulation
280 mm reinforced concrete
- 7 150 mm screed, reinforced, polished
90 mm thermal insulation with heating
pipes
240 mm reinforced concrete



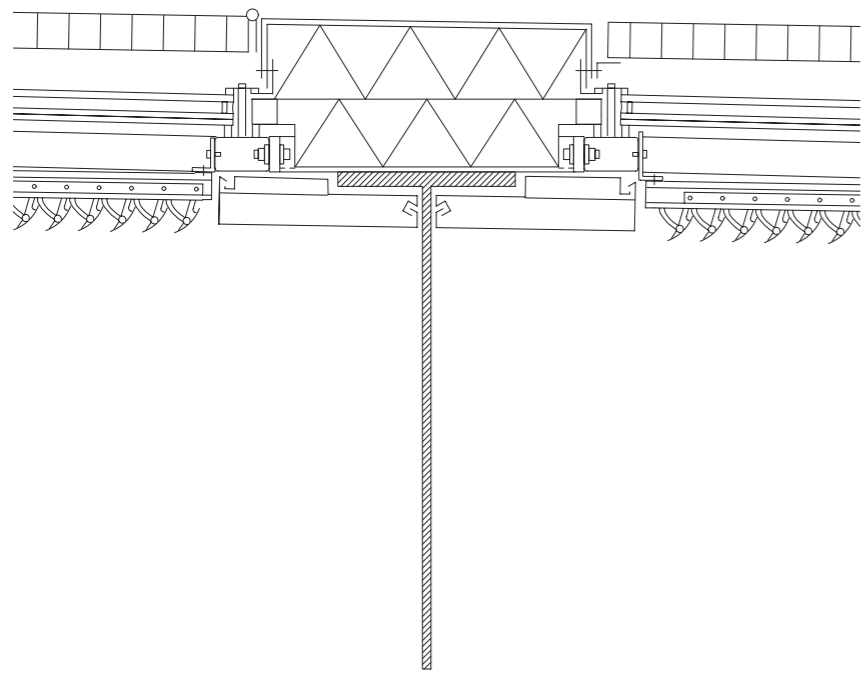
MATERIALITY_DETAILS



- 1 aluminium standing-seam roofing; 125 thermal insulation; vapour barrier; profiled sheet metal 440-1100 mm steel truss; acoustic insulation suspended ceiling; 1.8 mm perforated metal
- 2 column: Ø 219 mm steel CHS, coated white
- 3 solar blind
- 4 glazing: 2≈6 mm laminated safety glass
- 5 120/20 mm steel-sheet facade post clad in 2.5 mm aluminium sheet, polished
- 6 120/30 mm steel-sheet facade post clad in 2.5 mm aluminium sheet, polished
- 7 double gl.: 10 mm toughened gl. + 12 mm cavity + 2≈8 mm laminated safety glass
- 8 steel grating, galvanised
- 9 natural ventilation in facade cavity
- 10 130 mm screed, reinforced, polished; 90 mm thermal insulation with heating pipes; 210 mm reinforced concrete

THE EXHIBITION SPACE

- _skylights all through the exhibition space
- _grating to block direct light, special glazing to block UV light and louvres to control the amount of light



THE EXHIBITION SPACE _A CRITIQUE



“multiplying” the artworks on
the aluminium walls...

...is destroying them?

SOURCES

1. <https://www.architectural-review.com/today/musee-du-louvre-by-sanaa-lens-france>
2. <https://www.dezeen.com/2010/01/08/louvre-lens-by-sanaa/>
3. <https://inspiration-detail-de.eaccess.ub.tum.de/louvre-lens-106374.html>
4. <https://inspiration-detail-de.eaccess.ub.tum.de/technik-leichtes-tragwerk-filigrane-fassade-fuer-den-louvre-lens-106360.html>
5. Jing Yang: A Sense of Japanese Aesthetics; The Role of Materiality in the Work of SANAA
5. Laura Hourston Hanks: New Museum Design
7. Zeltia Vega Santiago: A collection of stories. Euralens Centralité and the Louvre-Lens Museum Park, Journal of Landscape Architecture