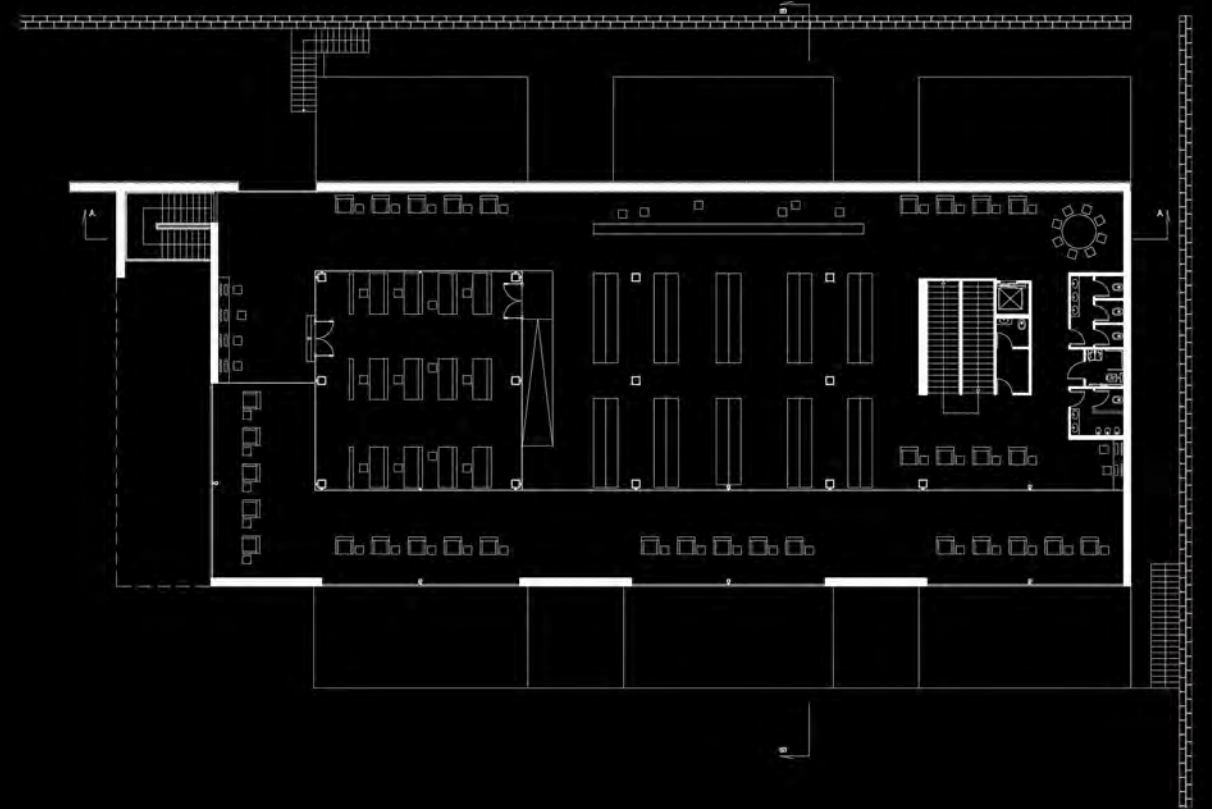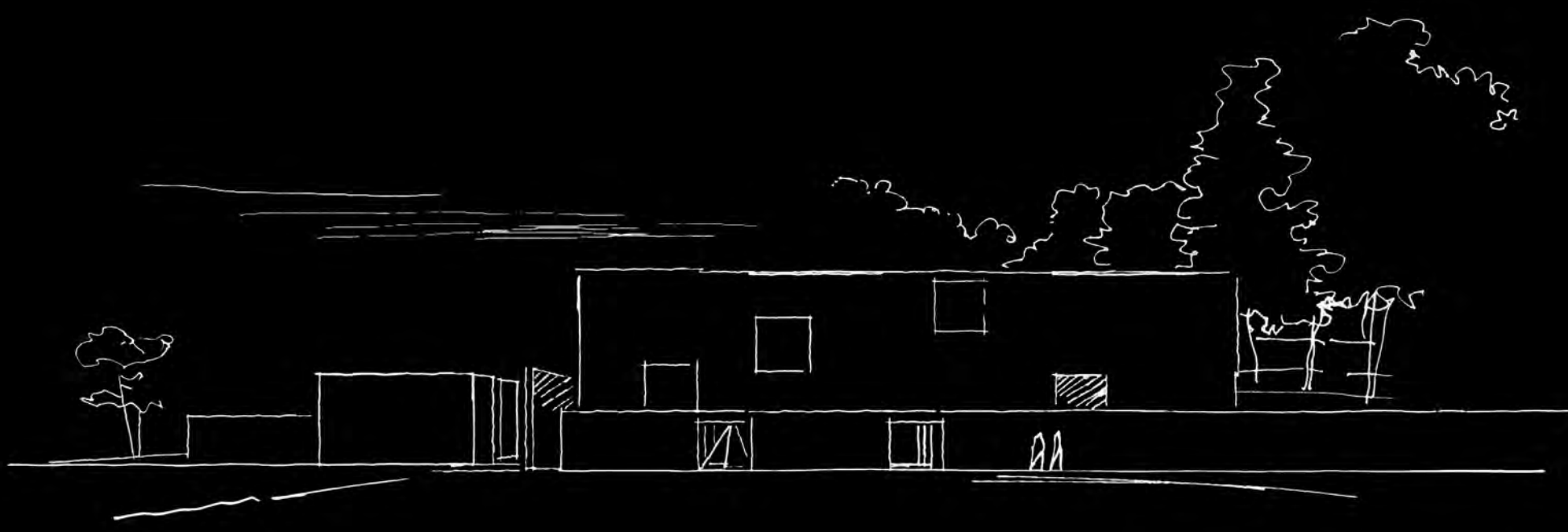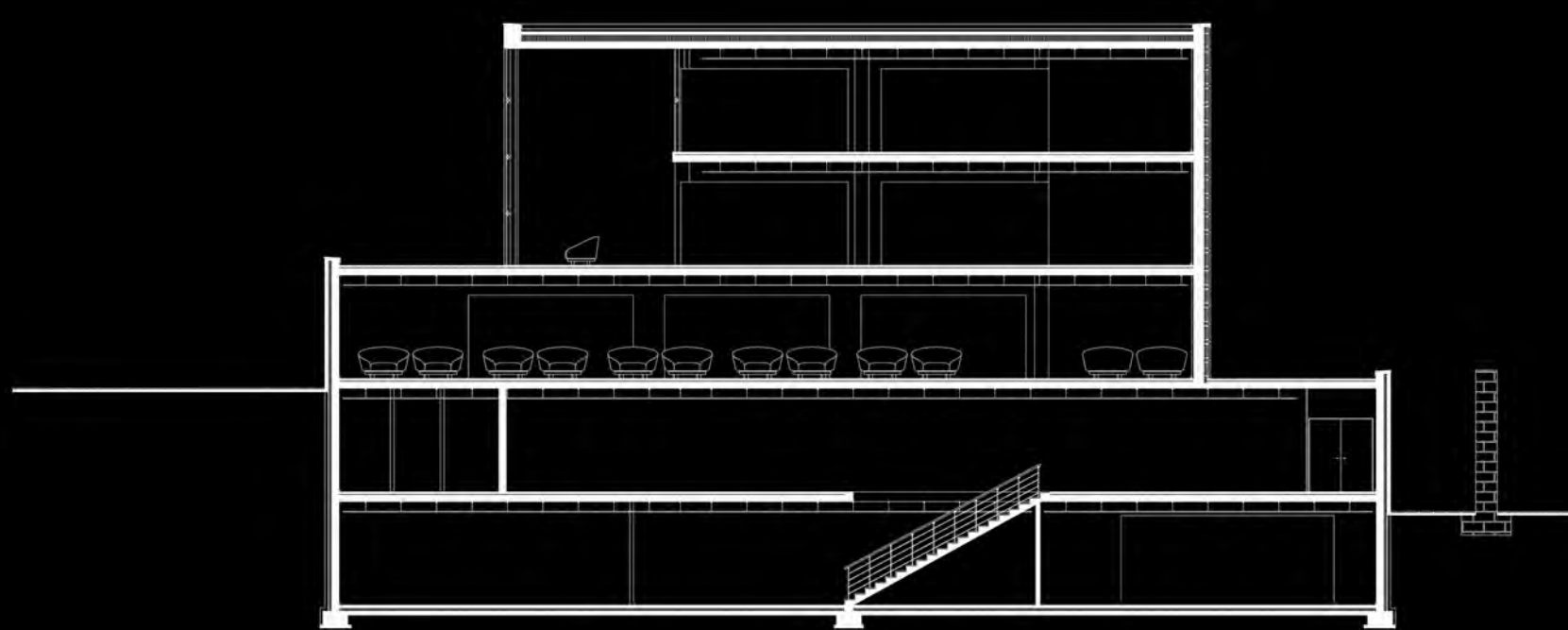# Benfica Municipal Library
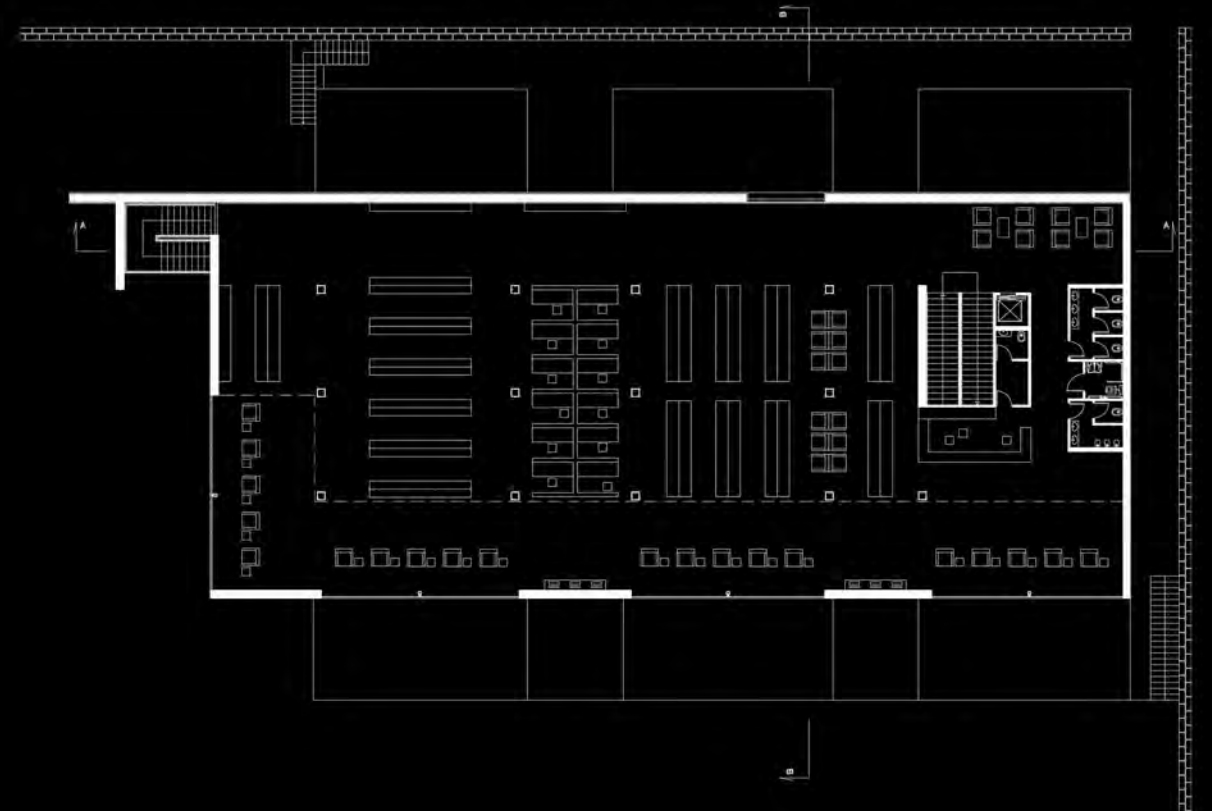
Technical University of Lisbon, Portugal
Faculty of Architecture
Menthor: arch. Pedro Lima Gaspar
Author: Lea Bradaševič

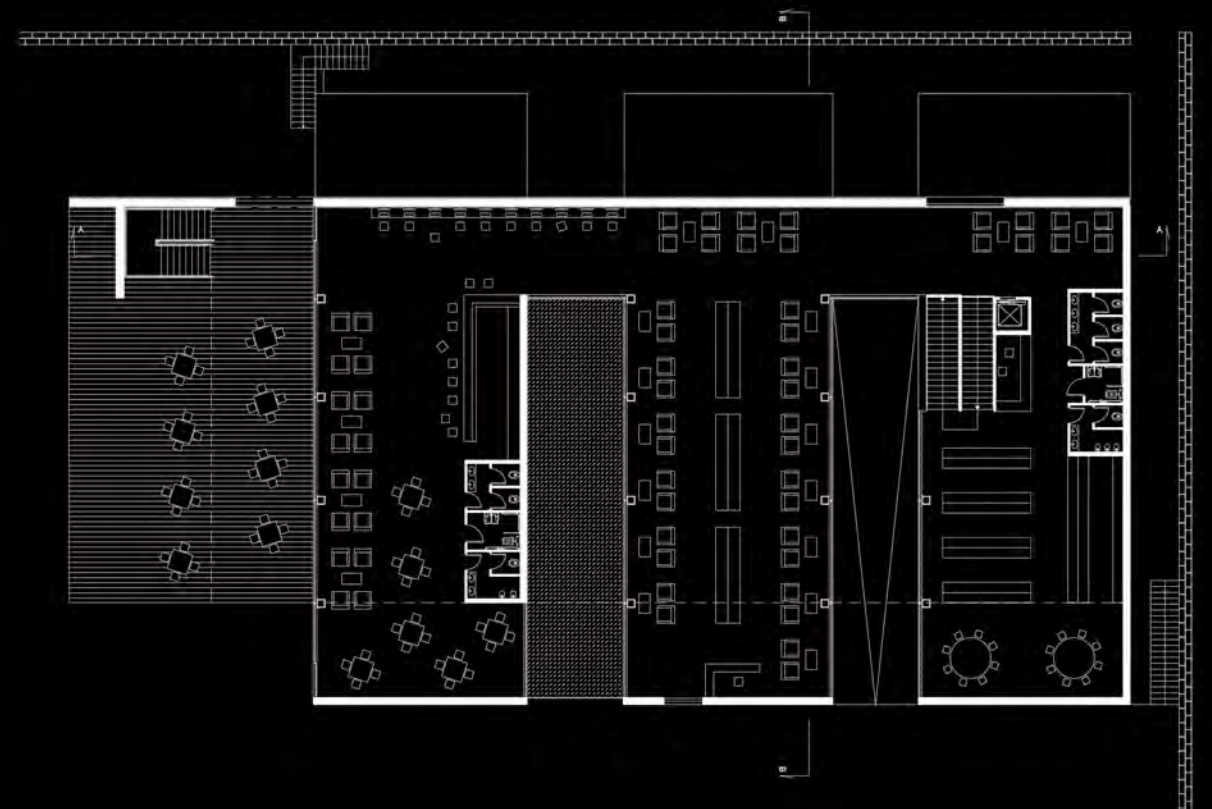**Third floor**
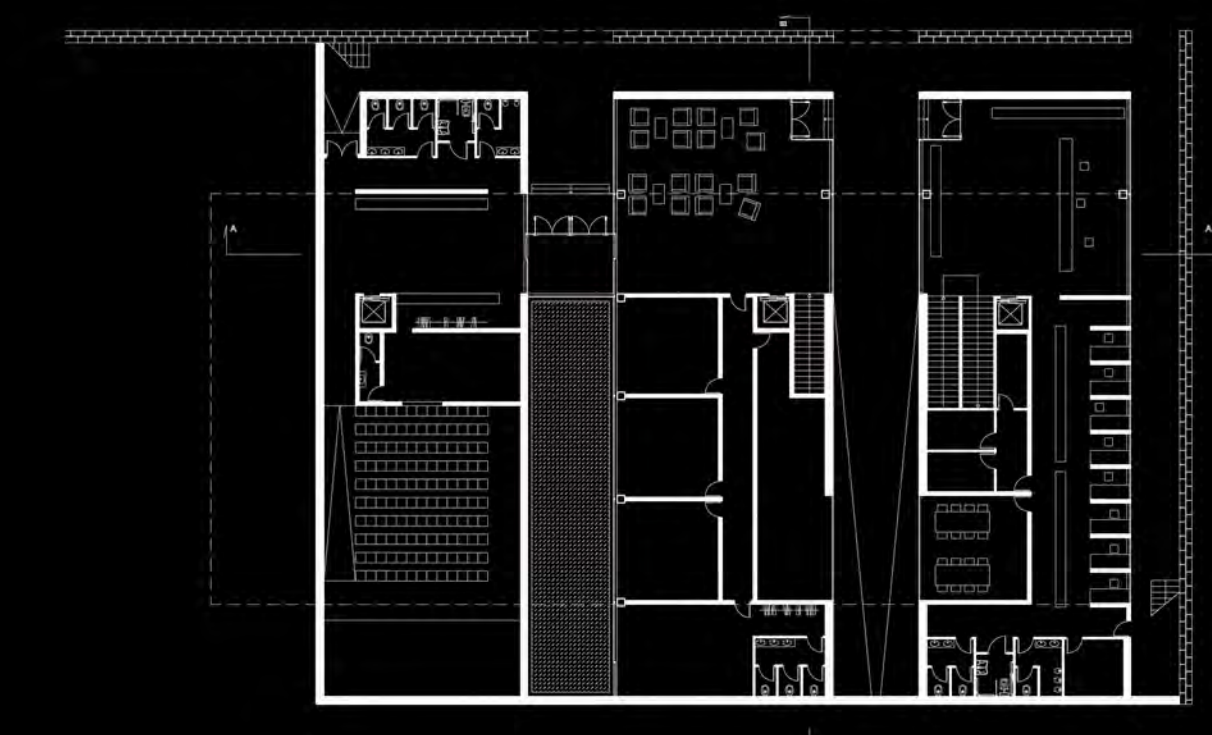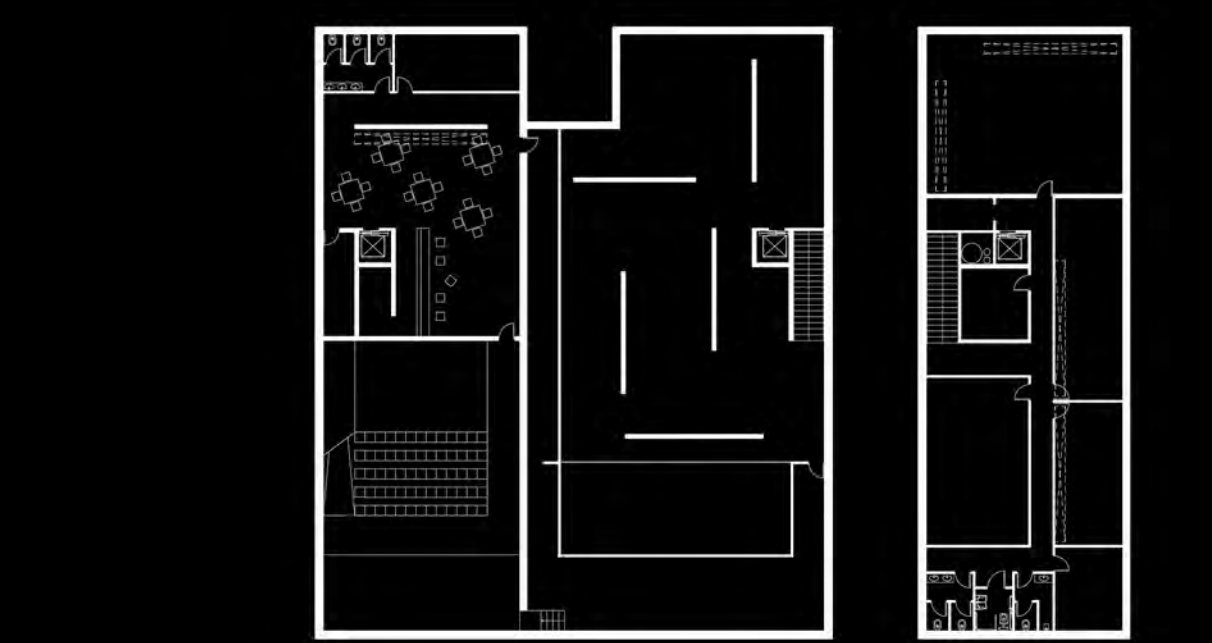

Section B-B

Second floor
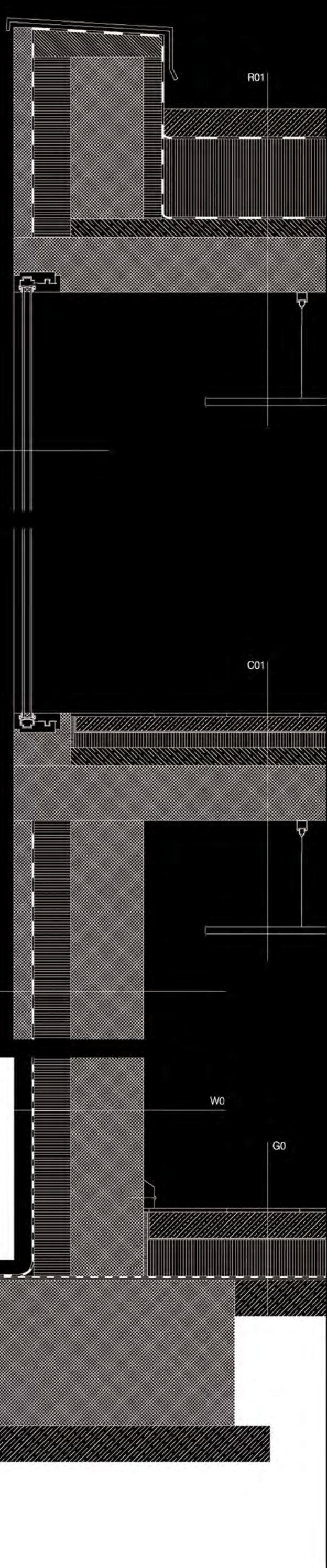

Section A-A

First floor

Ground floor

Basement

Detail of the double concrete wall

R01

- screed
- thermal insulation
- reinforced concrete
- embankement
- concrete backing
- hydro insulation

R01

cement screed 2% [7cm]
PVC impermeable screen [1.5mm]
thermal insulation [20cm]
vapor barrier [0.5mm]
concrete backing [5cm]
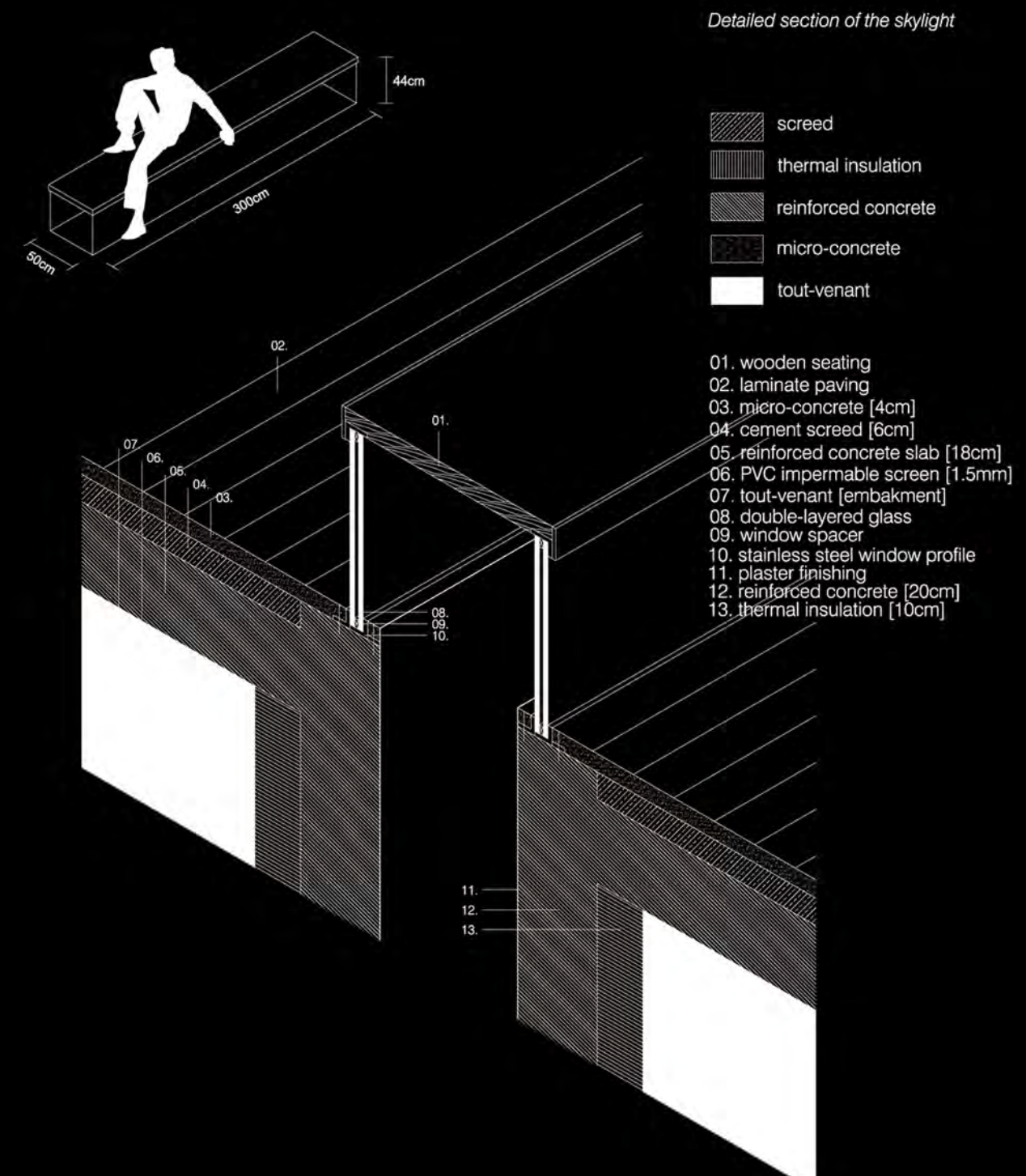concrete ceiling [15cm]
false ceiling

W03

W03

VITROCSA 3100 fixed glass panel

C01

C01

parquet [1cm]
reinforced cement screed [4cm]
protective PVC screen
soundproof insulation [4cm]
concrete backing [5cm]
concrete ceiling [15cm]
false ceiling

W01

reinforced concrete finishing [5cm]
windstopper
thermal insulation [10cm]
reinforced concrete [20cm]

G0

parquet [1 cm]
cement screed [7 cm]
protective layer
thermal insulation [10 cm]
hydro insulation
concrete backing [10 cm]
tout-venant [embankment]

W01

W0

reinforced concrete [20 cm]
thermal insulation [10 cm]
hydro insulation
protective layer [5 cm]

G0

Detailed section of the skylight

- screed
- thermal insulation
- reinforced concrete
- micro-concrete
- tout-venant

44cm

01. wooden seating
02. laminate paving
03. micro-concrete [4cm]
04. cement screed [6cm]
05. reinforced concrete slab [18cm]
06. PVC impermable screen [1.5mm]
07. tout-venant [embankment]
08. double-layered glass
09. window spacer
10. stainless steel window profile
11. plaster finishing
12. reinforced concrete [20cm]
13. thermal insulation [10cm]