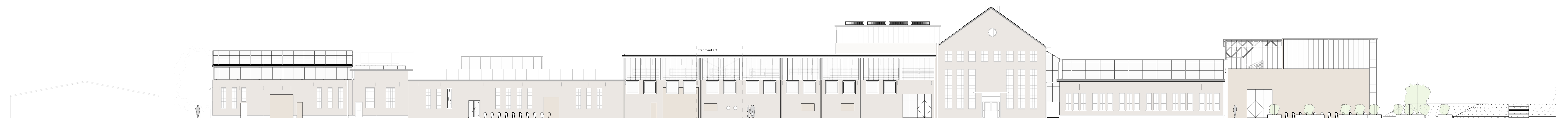
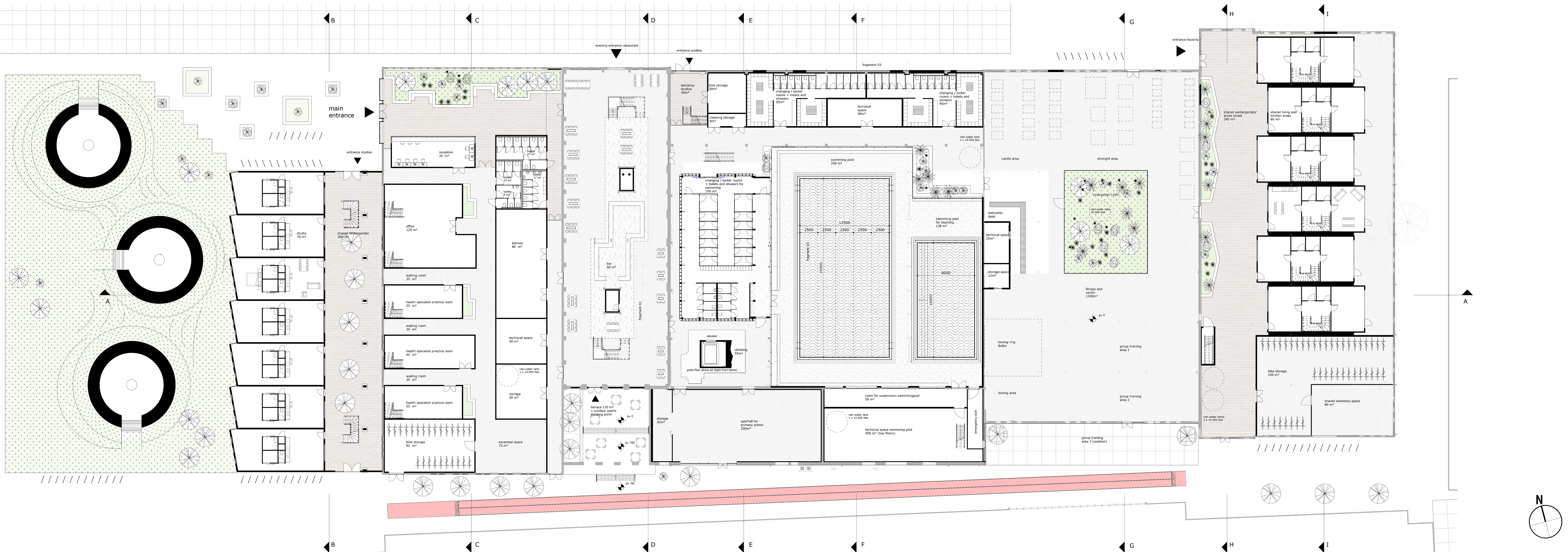
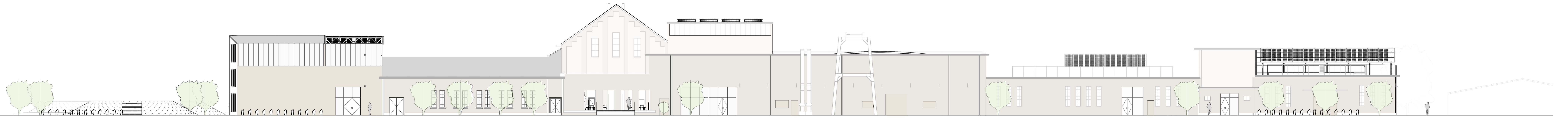


NORTH FAÇADE 1:200

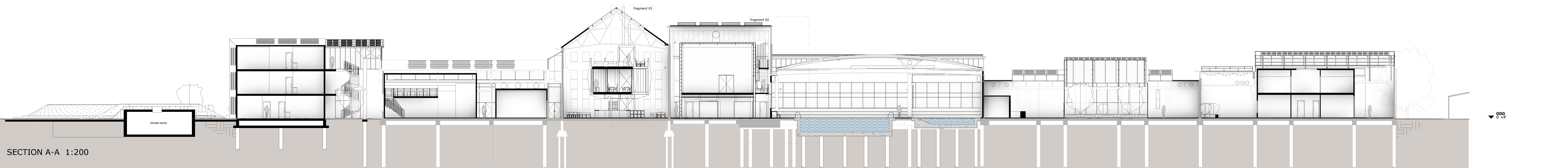


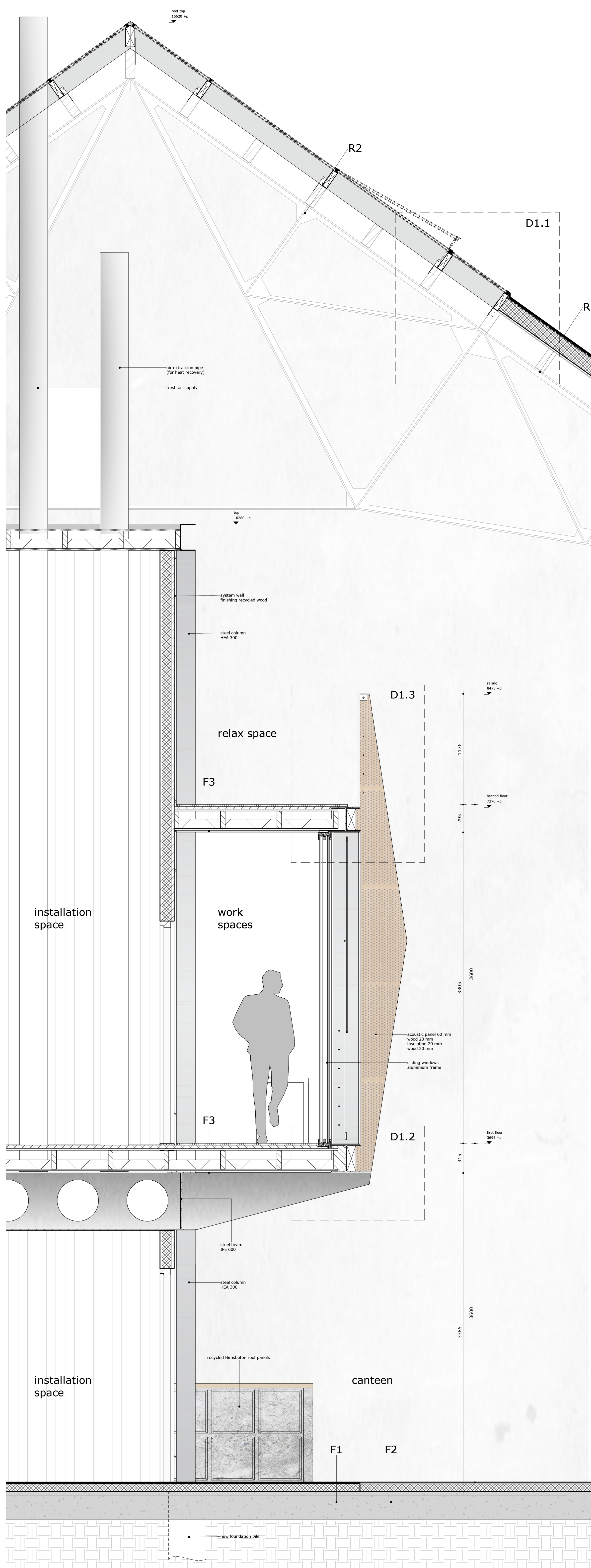
SOUTH FAÇADE 1:200



FLOOR PLAN GROUND FLOOR 1:200

SECTION A-A 1:200





FRAGMENT 1
section 1:20

F1 GROUND FLOOR tiles

- finishing floor tiles 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- existing concrete levelling floor
- existing concrete floor structure

F2 GROUND FLOOR cement screed

- floating cement screed 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- existing concrete levelling floor
- existing concrete floor structure

F3 FIRST FLOOR/SECOND FLOOR 310/295 mm

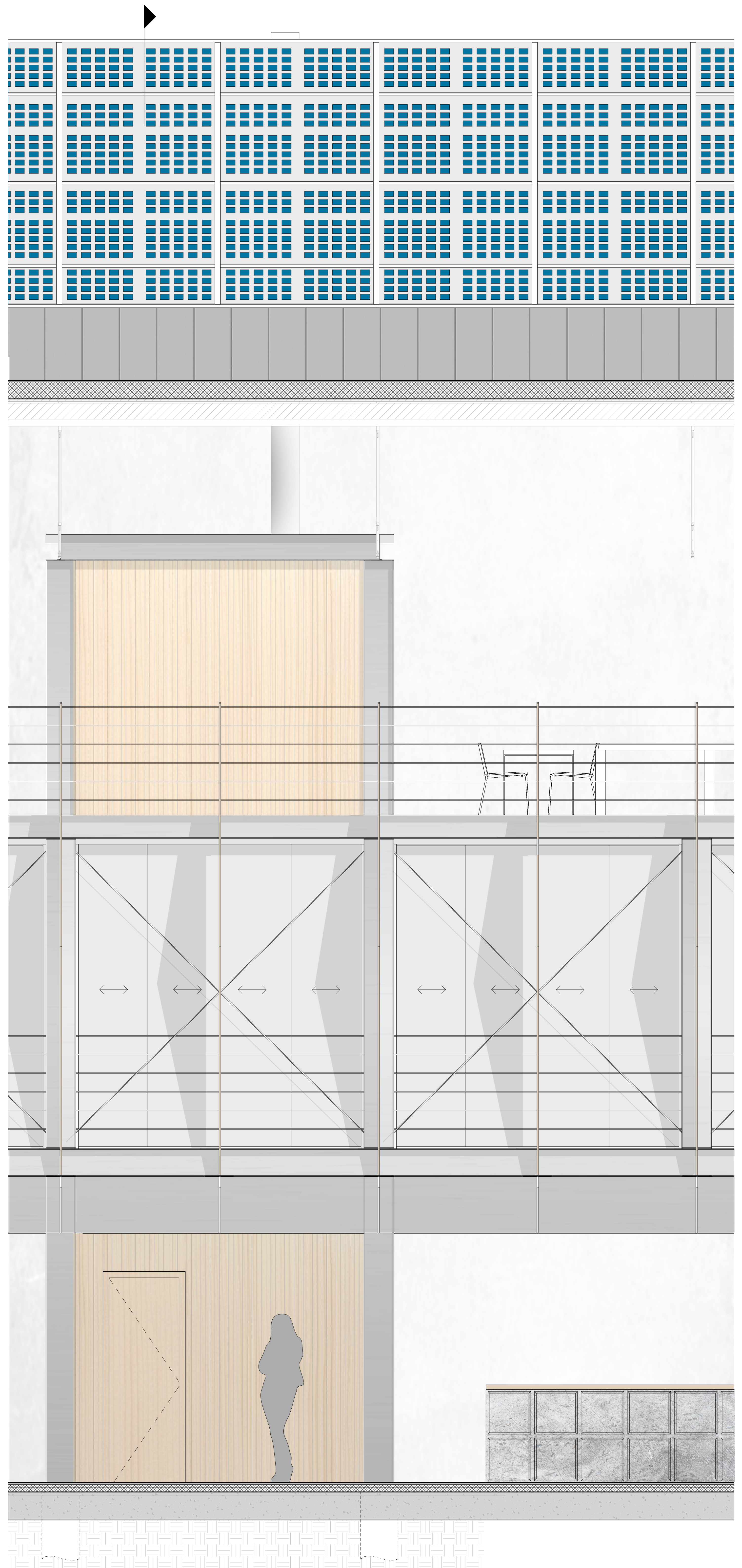
- Finishing floor cork 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- plywood 20 mm
- air cavity 100 mm / 85 mm
- insulation 100 mm
- plywood 20 mm
- Finishing ceiling cork 20 mm

R1 EXISTING ROOF with insulation 175 mm

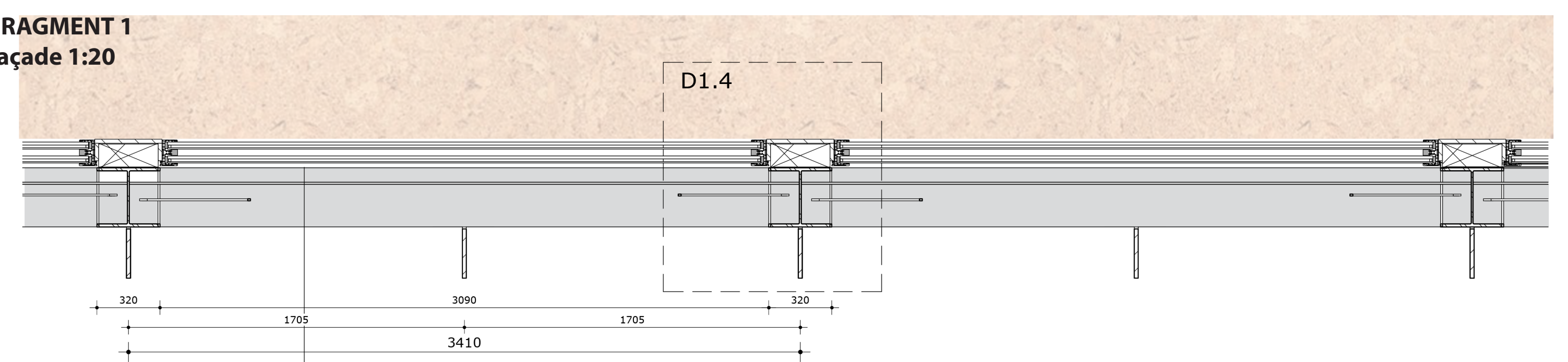
- existing Polonceau truss
- existing wooden beams ca. 100 x 250 mm
- existing wooden roof decking ca. 20 mm
- damp proof membrane
- insulation 150 mm
- damp open membrane
- Zinc with standing seams

R2 NEW ROOF glass structure

- existing Polonceau truss
- existing wooden beams ca. 100 x 250 mm
- glass roof structure, aluminium frame 60 x 200 mm



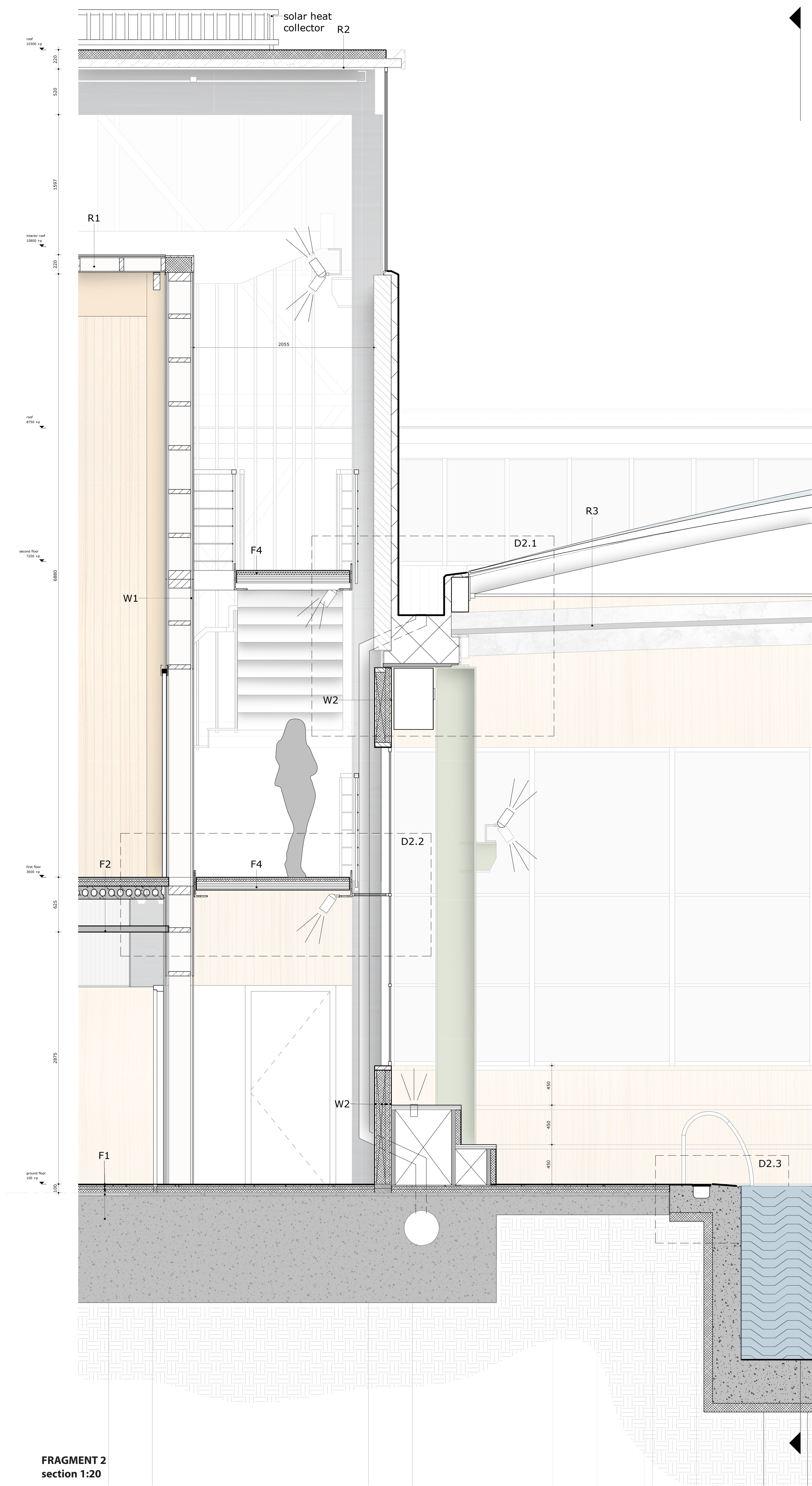
FRAGMENT 1
façade 1:20



FRAGMENT 1
floorplan 1:20

Fragment 01
canteen

P5 presentation
Graduation studio
Heritage and Architecture,
TU Delft
project The Ladder
A. van Unen



FRAGMENT 2
section 1:20

F1 GROUND FLOOR

- finishing floor (tiles) 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- existing concrete levelling floor
- existing concrete floor structure

F2 FIRST FLOOR 625 mm

- finishing floor sport hall 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- concrete hollow-core slab 150 mm (2500 mm span)
- air cavity 255
- suspended ceiling 70 mm

F3 SWIMMING POOL 100 mm

- ceramic tiles 10 mm
- cement mortar 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 40 mm
- existing concrete levelling floor
- existing concrete floor structure

F4 IN-BETWEEN FLOOR 145 mm

- finishing floor cork 20 mm
- insulation 30 mm
- damp proof membrane
- Cross laminated timber floor 5 layers 95 mm

W1 PRESS HALL 320 mm

- polycarbonate semi-transparent 16 mm
- air cavity 19 mm
- wooden frame 250 x 50 mm
- air cavity 19 mm
- polycarbonate semi-transparent 16 mm

W2 SWIMMING POOL 450 mm

- perforated plywood 20 mm
- insulation 100 mm (2/3 of total)
- damp proof membrane
- insulation 50 mm (1/3 of total)
- perforated plywood 20 mm

R1 PRES HALL 320 mm

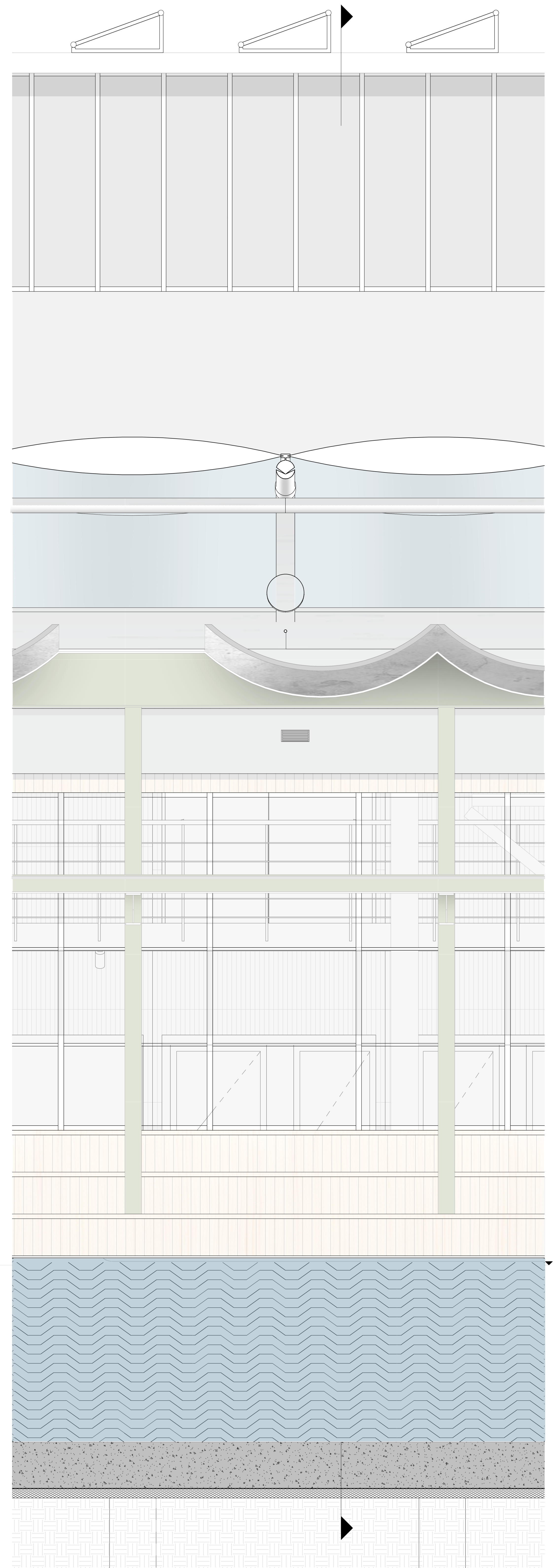
- polycarbonate semi-transparent 16 mm
- air cavity 19 mm
- wooden frame 250 x 50 mm
- air cavity 19 mm
- polycarbonate semi-transparent 16 mm

R2 EXISTING ROOF with insulation

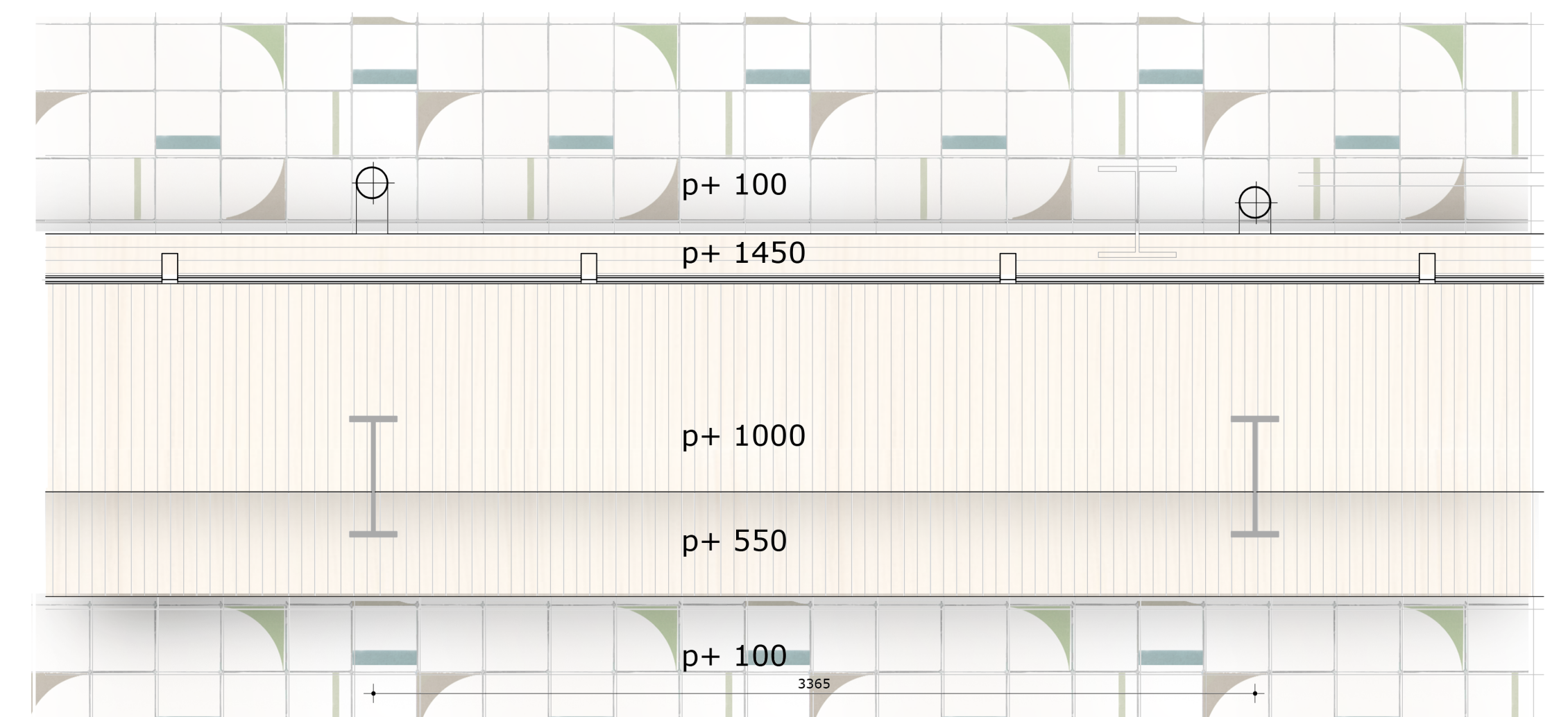
- roofing bitumen
- damp open membrane insulation 150 mm (minimal)
- damp proof membrane
- existing Bimsbeton roof 100 mm

R3 ROOF SWIMMING POOL

- pneumatic ETFE cushions with printing for shading
- steel roof structure Ø 200 mm
- steel tension bar
- open space for maintenance and air extraction
- protective layer (depending on existing)
- existing precast concrete HP shell structure

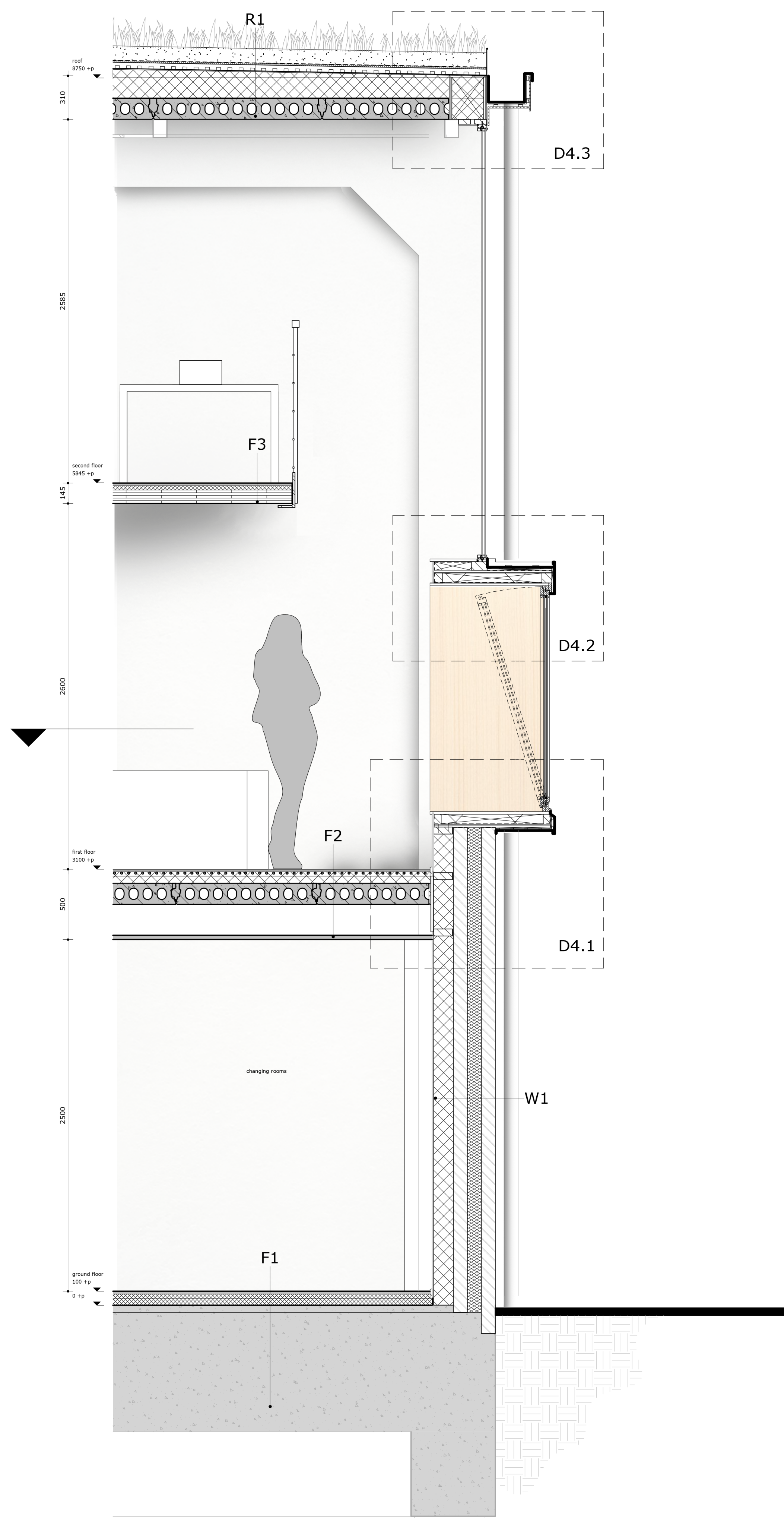


FRAGMENT 2
façade 1:20

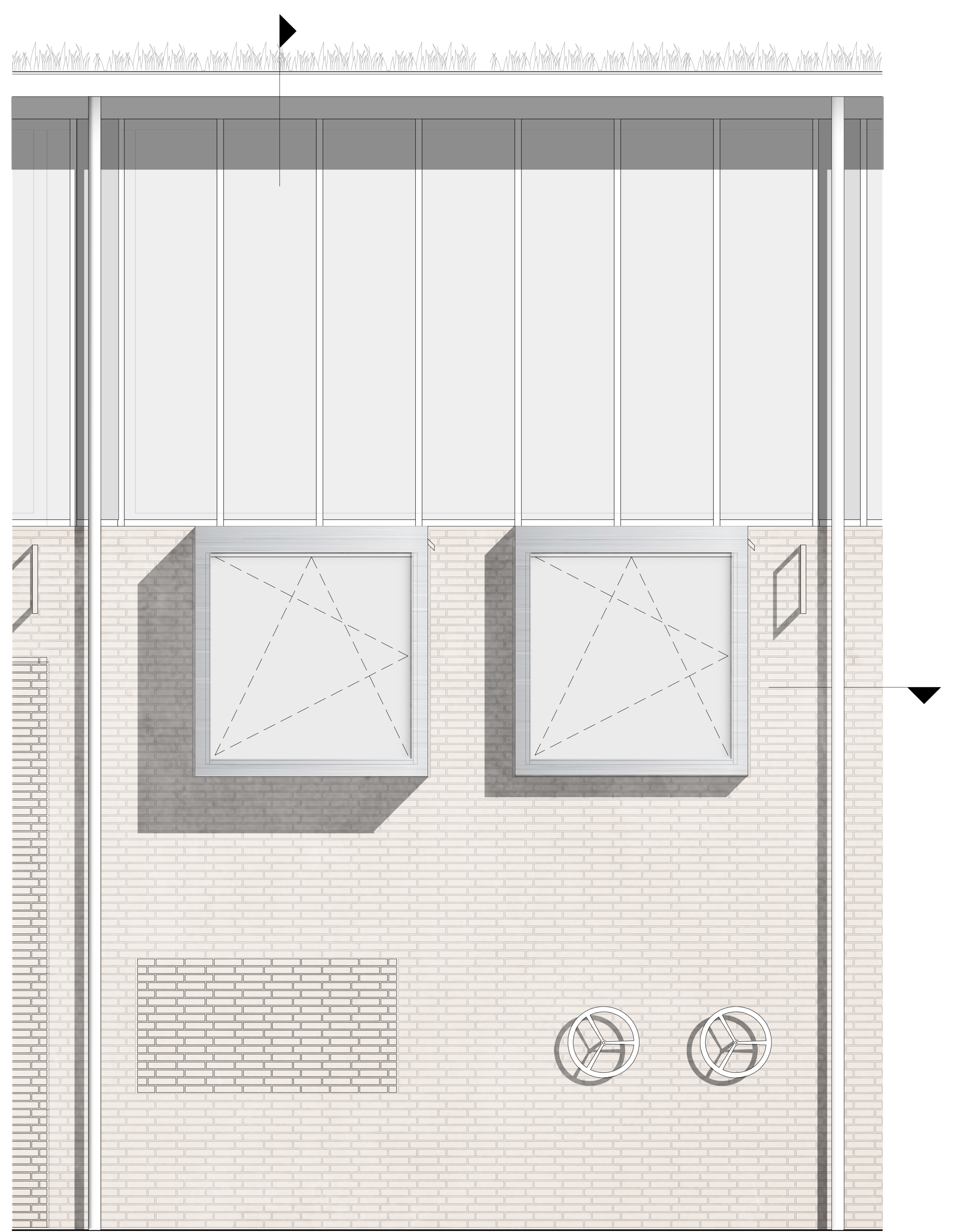


FRAGMENT 2
floorplan 1:20

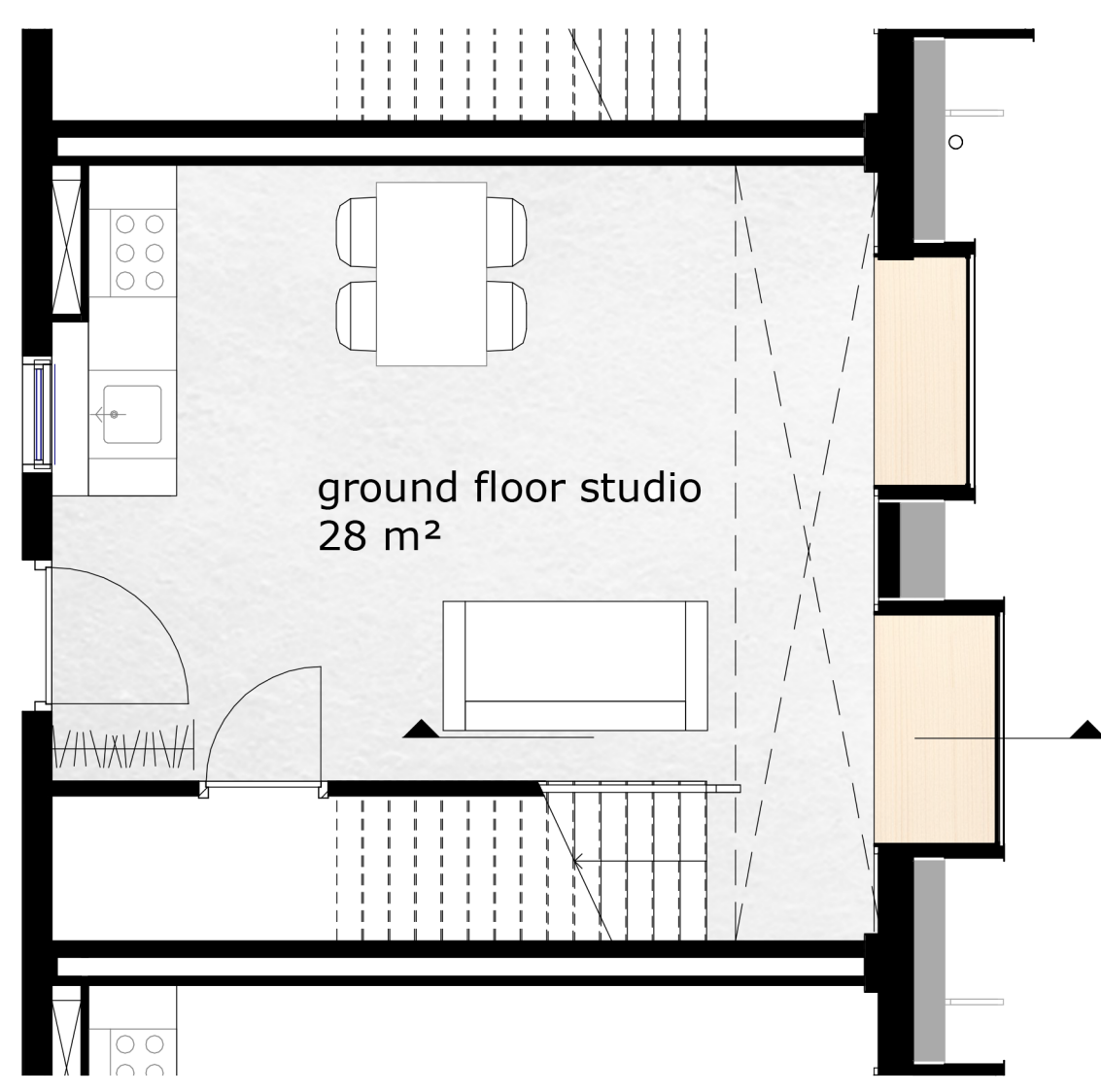
Fragment 02
press hal /swimmingpool
connector
P5 presentation
Graduation studio
Heritage and Architecture,
TU Delft
project The Ladder
A. van Unen



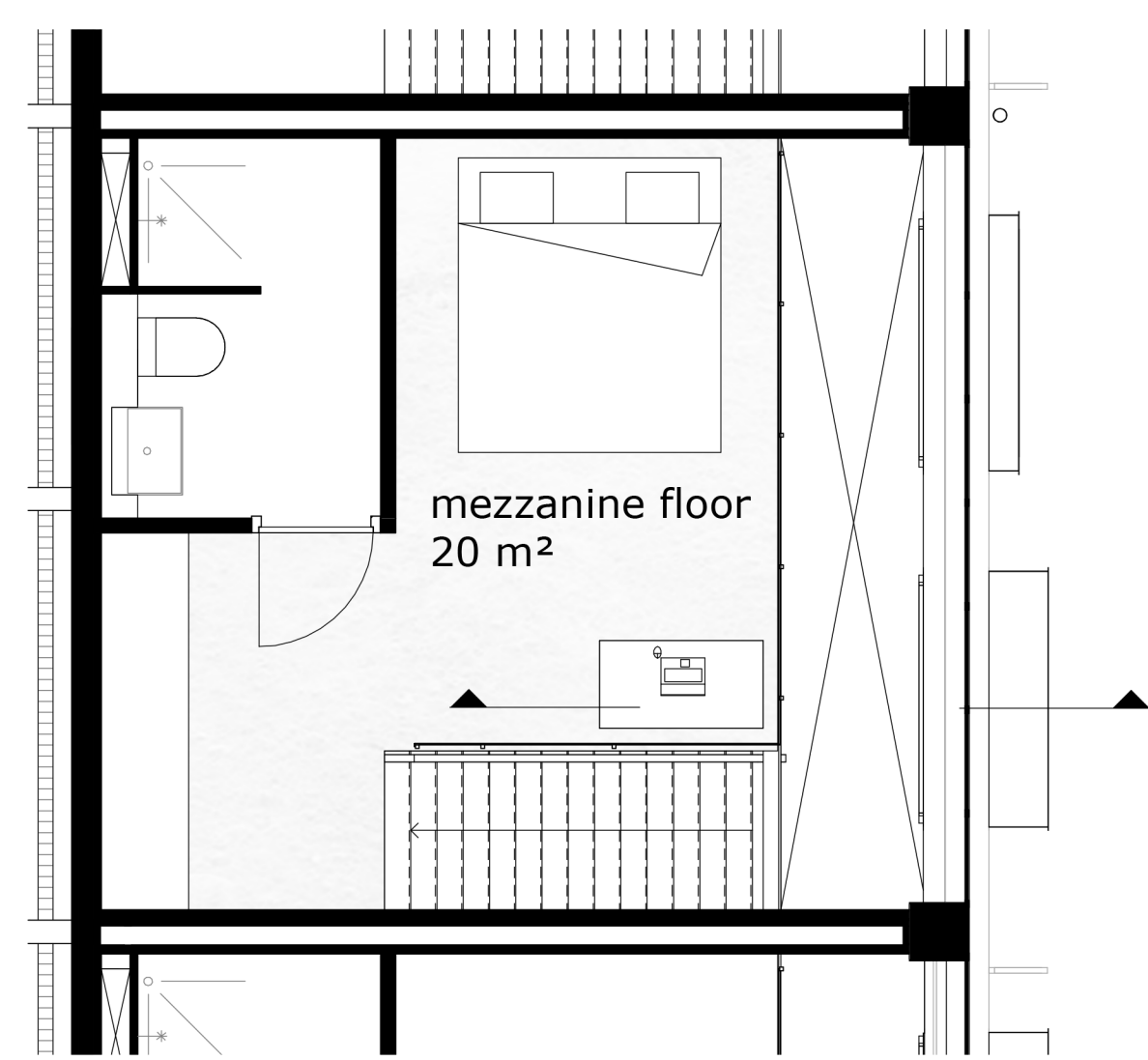
FRAGMENT 3
section 1:20



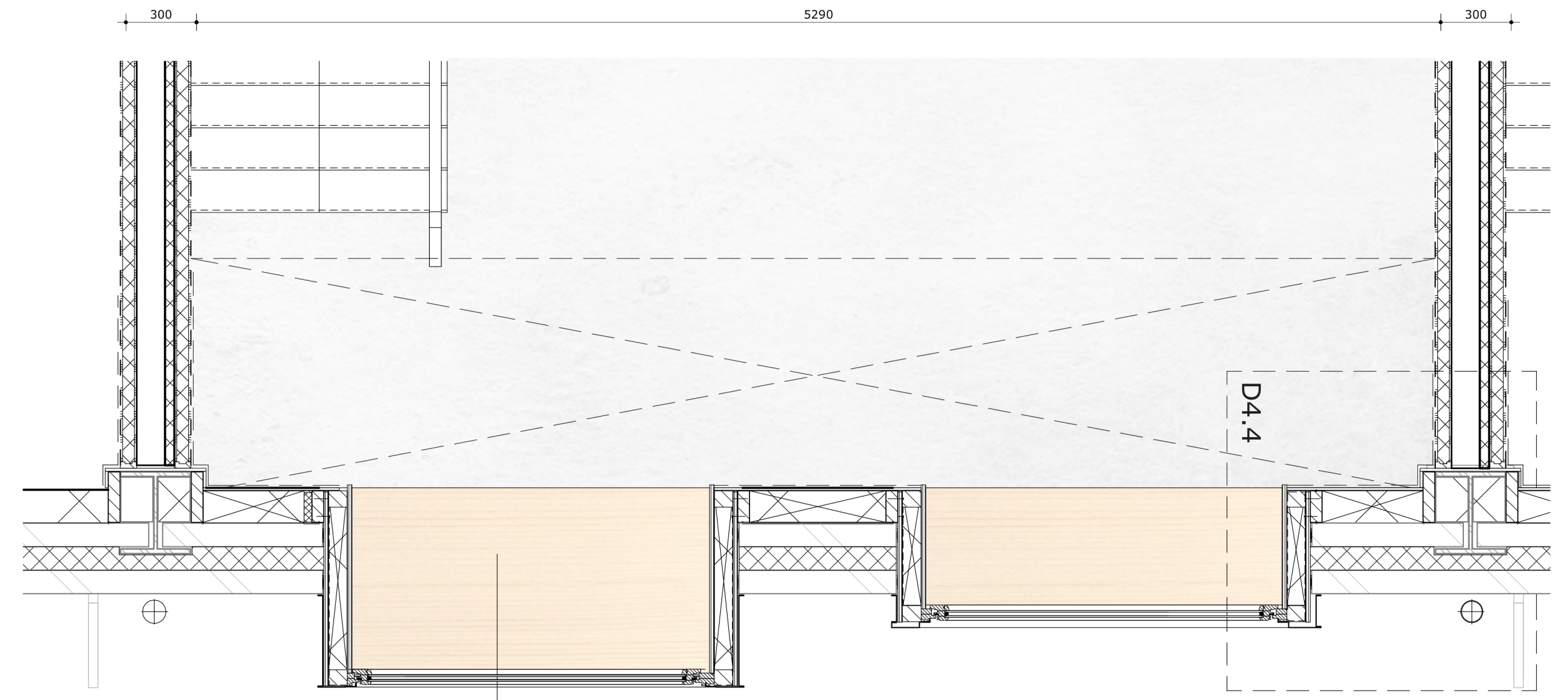
FRAGMENT 3
façade 1:20



FIRST FLOOR
floorplan 1:50



SECOND FLOOR
floorplan 1:50



FRAGMENT 3
floorplan 1:20

F1 GROUND FLOOR

- finishing floor (tiles) 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- existing concrete levelling floor
- existing concrete floor structure

F2 FIRST FLOOR 300 mm
120 min fire resistance

- finishing floor (resident's choice) 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- insulation 50 mm
- concrete hollow-core slab 150 mm (2800 mm span)

F3 MEZZANINE FLOOR 145 mm

- finishing floor (resident's choice) 20 mm
- dry installed underfloor heating system 30 mm
- damp proof membrane
- cross laminated timber floor 5 layers 95 mm

W1 FAÇADE 450 mm

- plasterboard 10 mm
- insulation 140 mm
- damp proof membrane
- existing masonry 100 mm
- cavity insulation 100 mm
- existing masonry 100 mm

W2 PARTY WALL (FAAY wall) 300 mm
120 min fire resistance

- plasterboard 10 mm
- flax (viber crop) isolation 34 mm
- plasterboard 10 mm
- rockwool insulation 40mm
- air cavity 120 mm (needed for structure mezzanine floor)
- plasterboard 10 mm
- flax (viber crop) isolation 34 mm
- plasterboard 10 mm

R1 ROOF 500 mm

- substrate layer 120 mm (extensive green roof)
- filtering layer
- drainage / water-containing layer 50 mm
- roofing bitumen
- damp open membrane
- insulation 150 mm (minimal)
- damp proof membrane
- hollow-core beam floor 150 mm (5600 mm span)

eaves: Rockpanel 10 mm "Concrete Platinum"