

REVITALIZING



DE DOELEN

Promenade

KAI CHUNG IP

Engbert van der Zaag. Elise van Dooren.
Jan van de Voort.

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PRELUDE

GRATITUDE

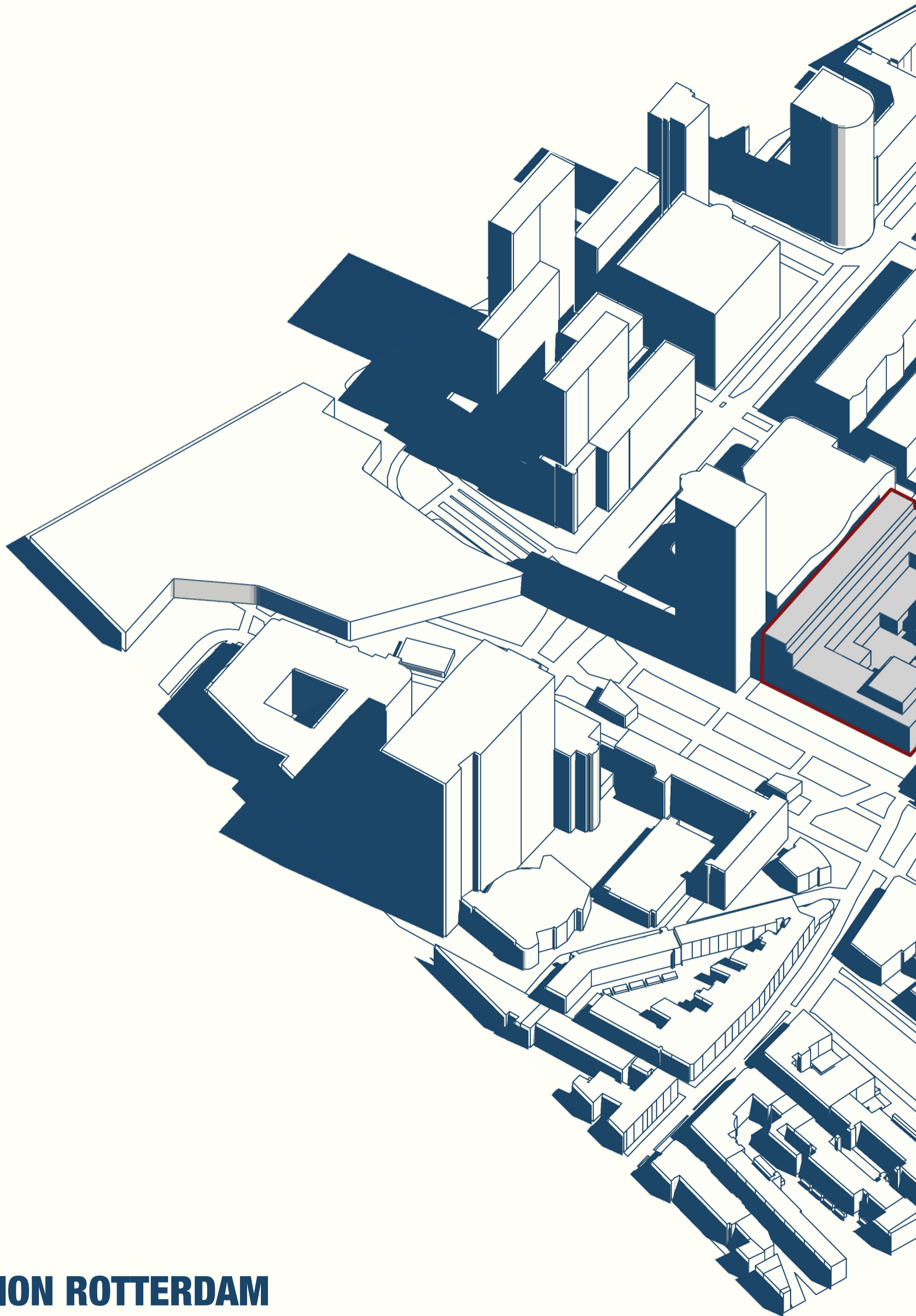
With all the joint effort, the long hard work of eleven months has finally distilled to this booklet for my master Architecture track.

As cliché it may sound, I would like to thank my tutors Engbert van der Zaag and Elise van Dooren for their support and expertise through this tough process.

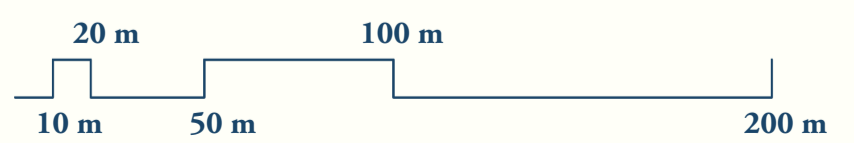
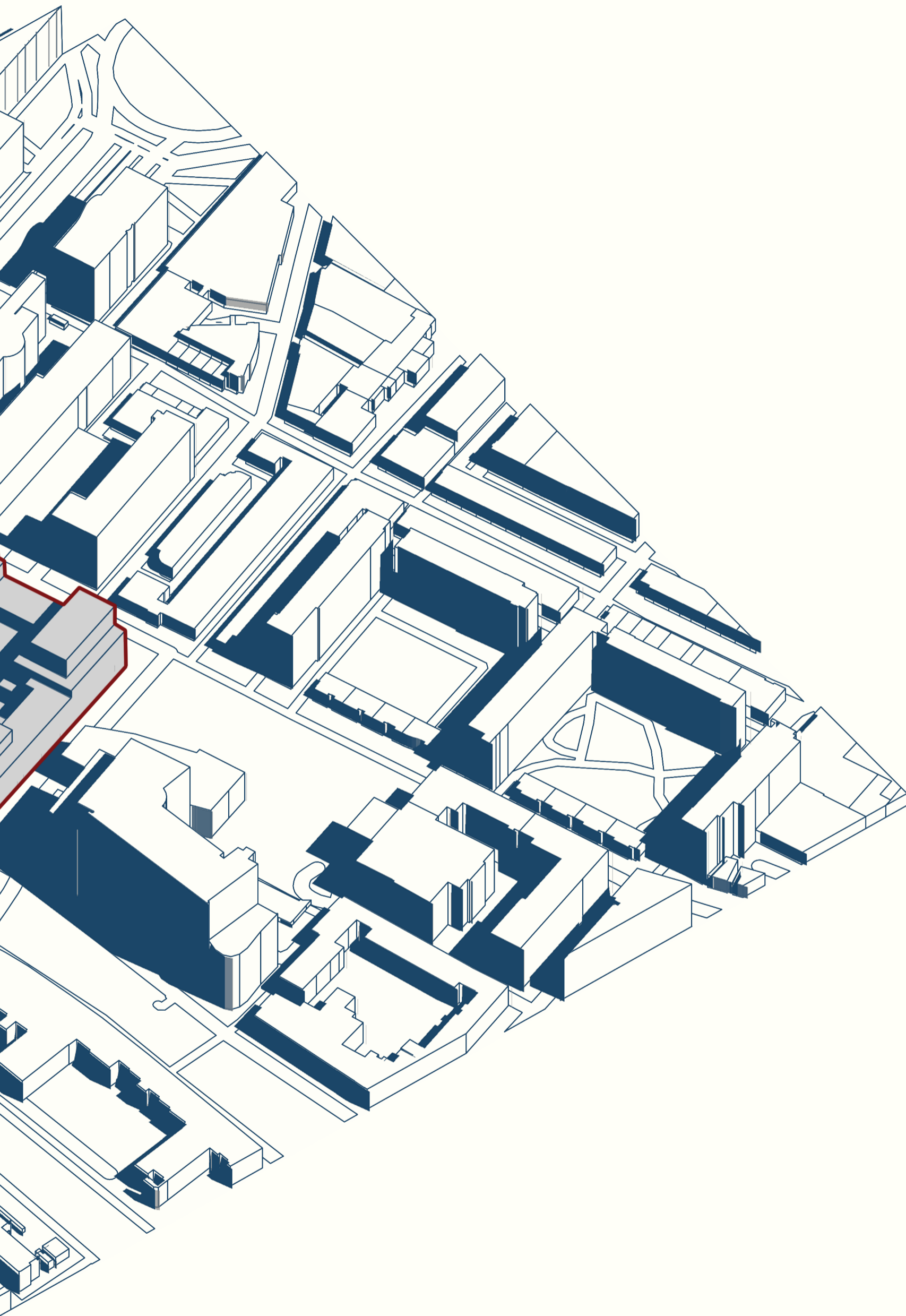
To Engbert for showing your positive attitude in the design process. Especially during difficult times it became crystal clear. Till then, I had not realized how significant it is to have emotional comfort as fast as possible, keeping the morale up. I take this attitude as a principle way of designing, and I believe it should be like this, flowingly, just like water. I really enjoyed your non-chalant yet pragmatic conceptual drawings during our sessions. Furthermore, how you one time described the suffering in a design process, it was enlightening :)

To Elise for being so empathatic and helpful. Every time we have our tutoring sessions I feel assured of being helped. I really appreciate your way of teaching, being so engaged and responsible as a tutor. I like how you share your personal experiences and/or recent works, and weave it into the tutoring sessions, with a great sense of humor :) it makes it more fun and interesting!

Then, to someone who has seen me struggling day in day out, for months and months, and months. Despite not knowing much about architecture, who is still – always – ready to help for whatever and whenever I ask him, my little brother: Kai Ming Ip. I'm blessed to have such a reliable sibling/soulmate. I will remember this...

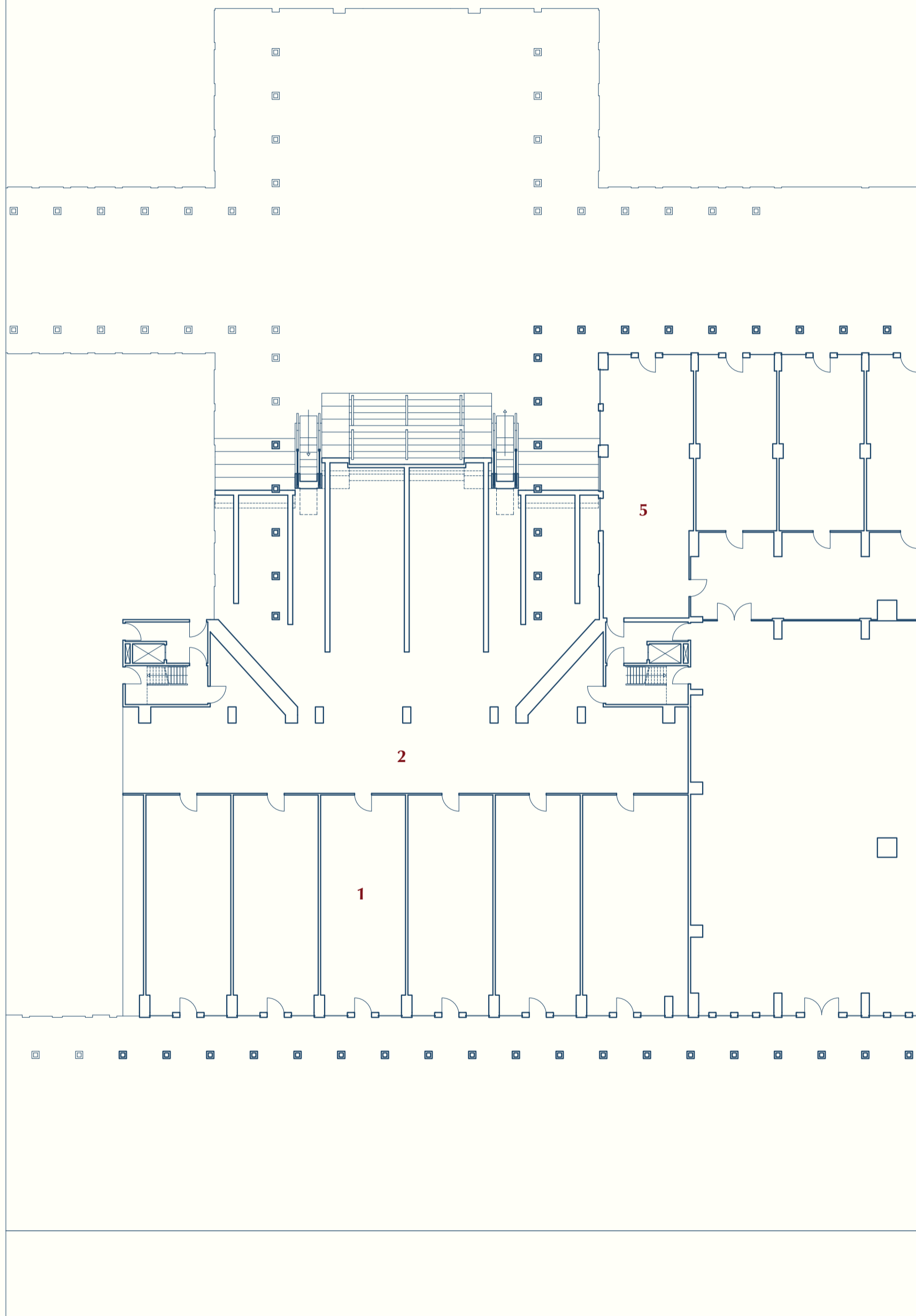


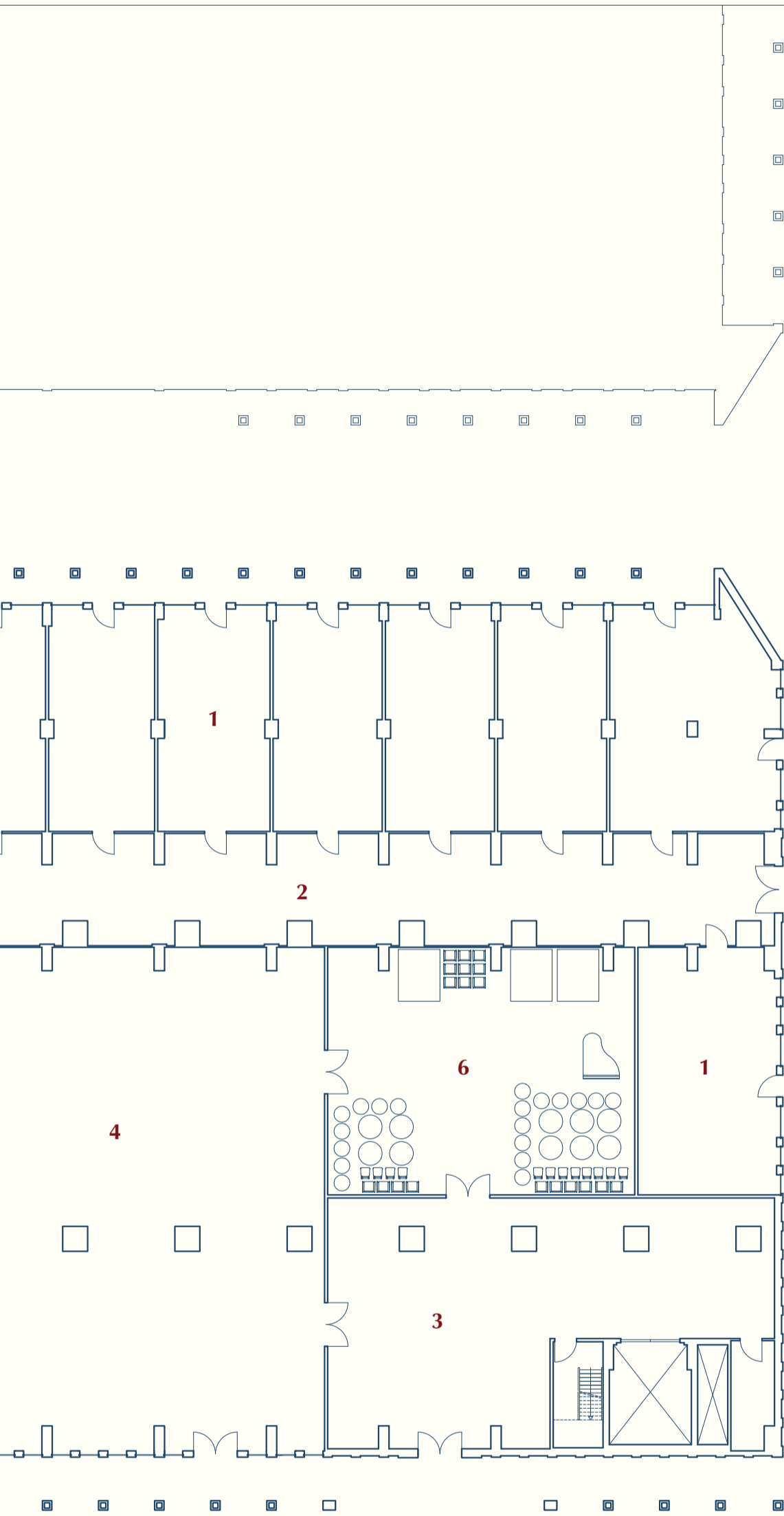
SITUATION ROTTERDAM
Central District / 1 : 2000



GROUND FLOOR

+ 1.800 m / 1 : 200

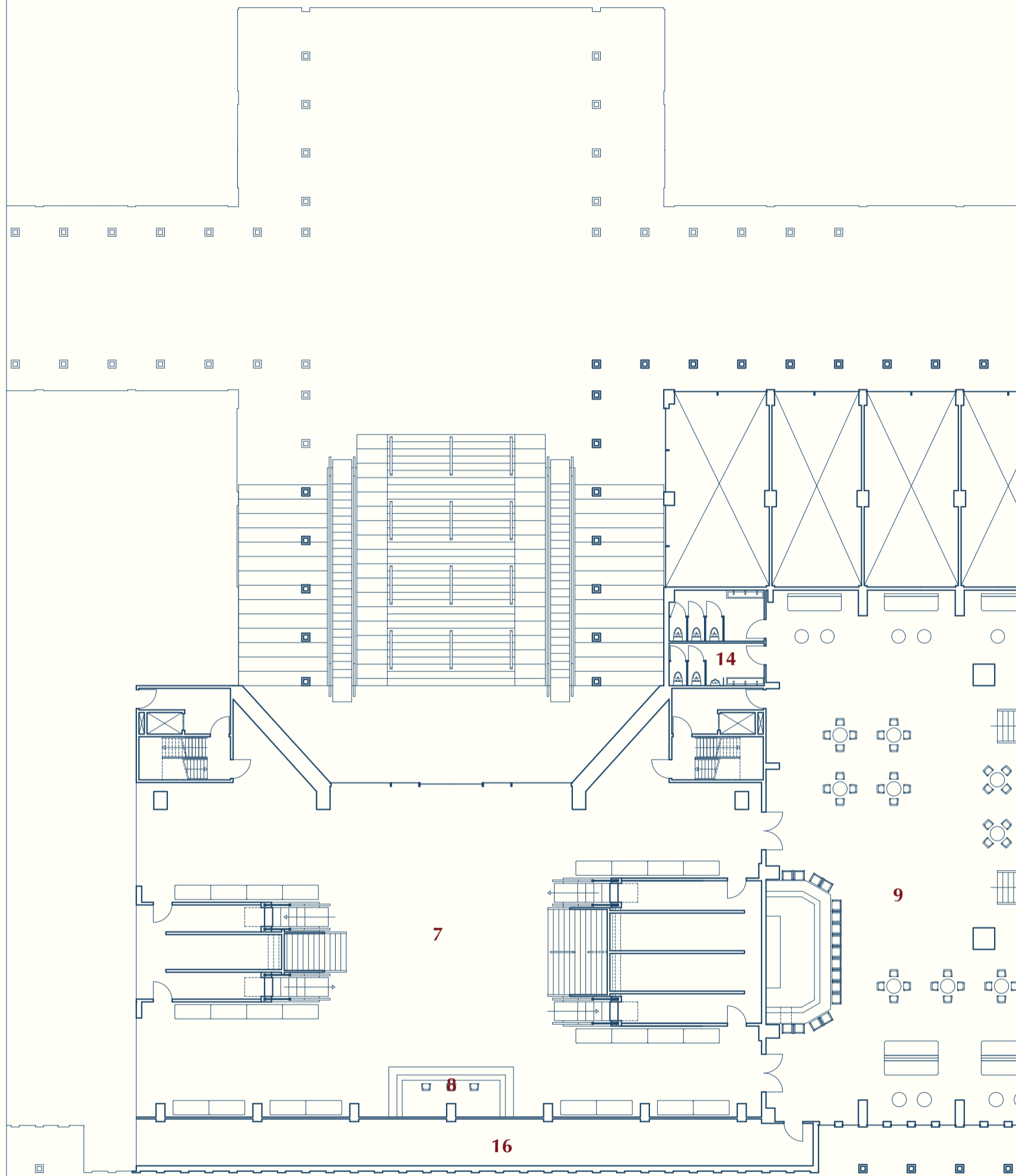


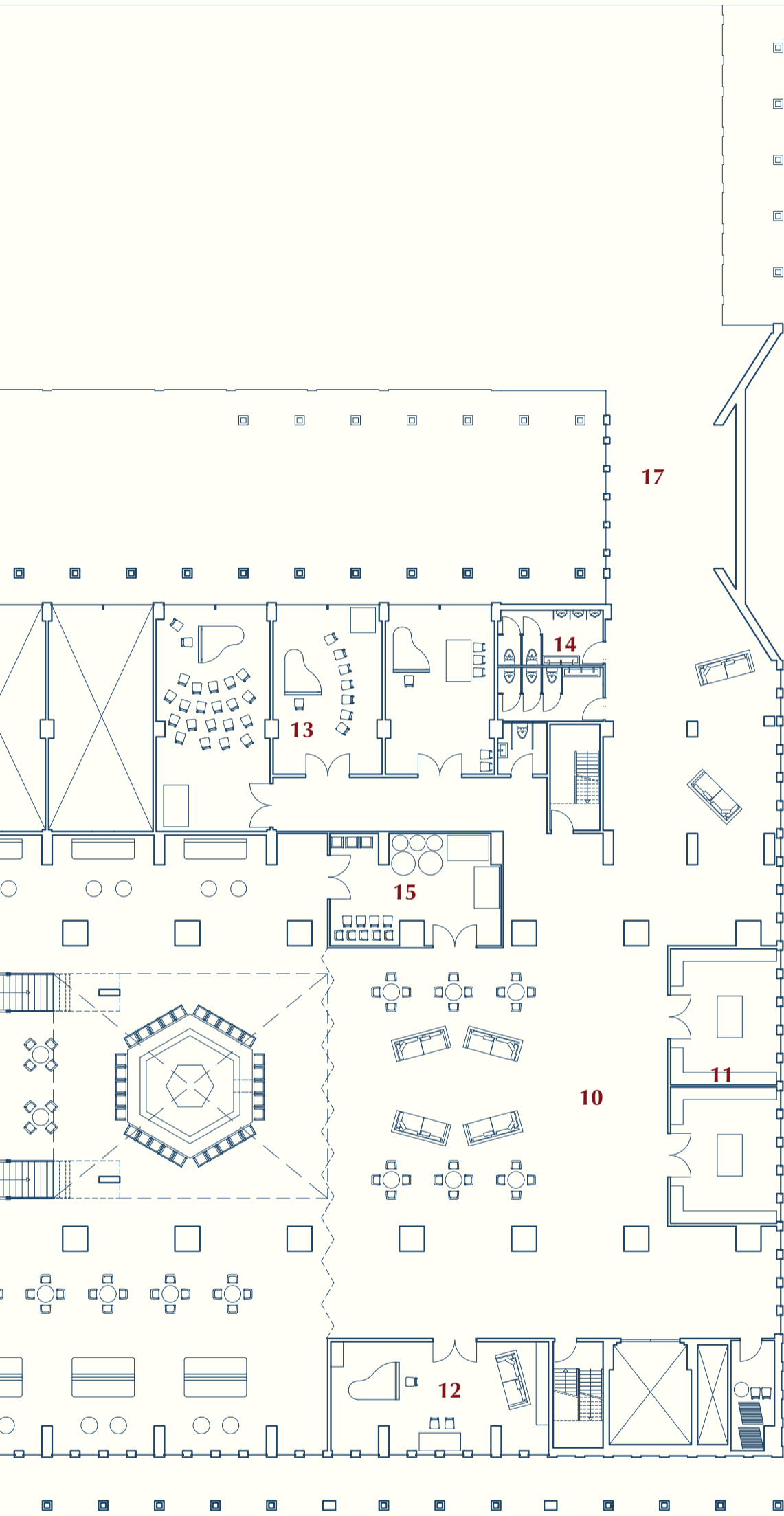


- 1** Retail
- 2** Logistic
- 3** Artist entrance
- 4** Multifunctional Hall
- 5** Shop (De Doelen)
- 6** Storage Room / Technical Room

FIRST FLOOR

+ 7.200 m / 1 : 200

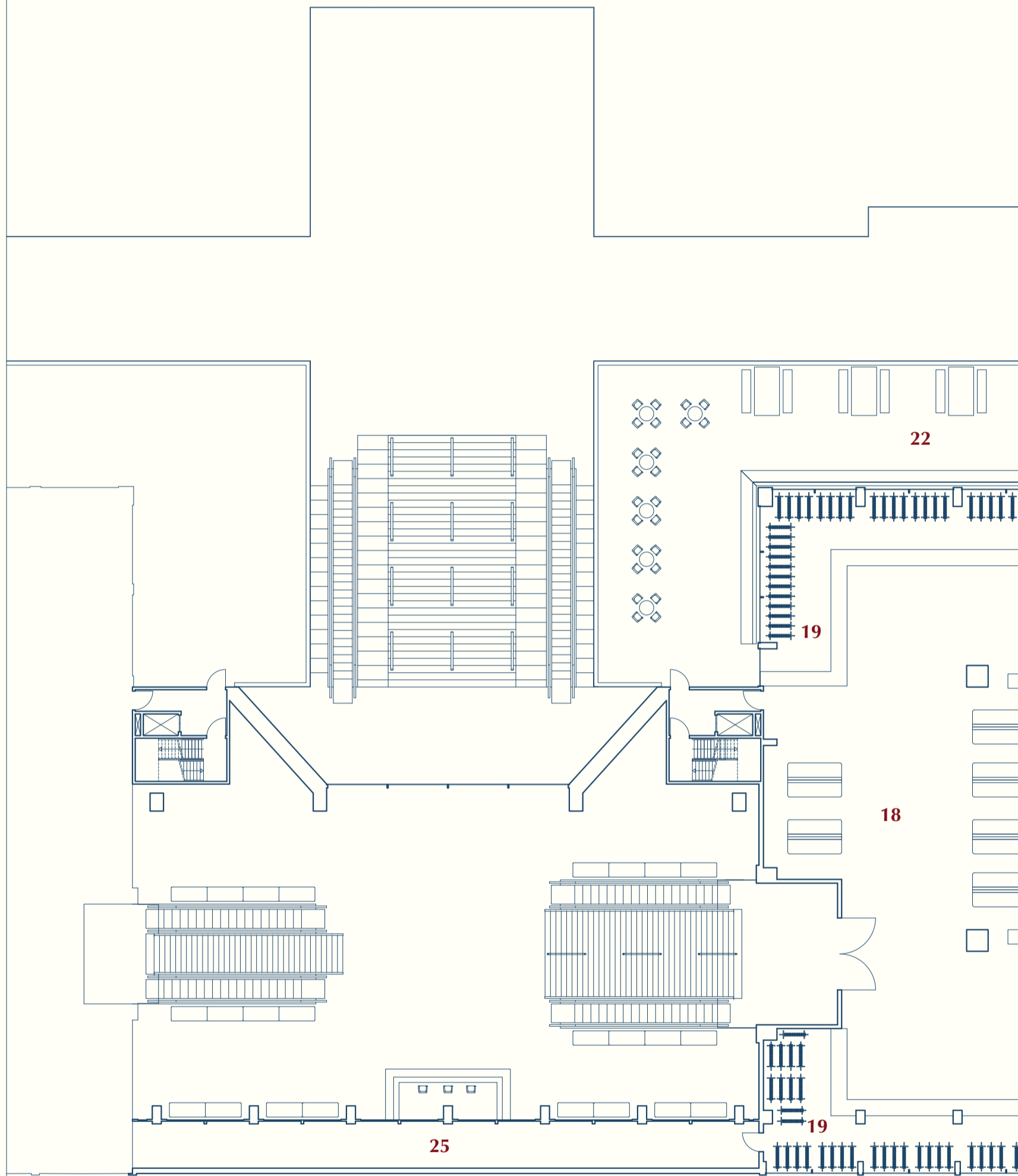


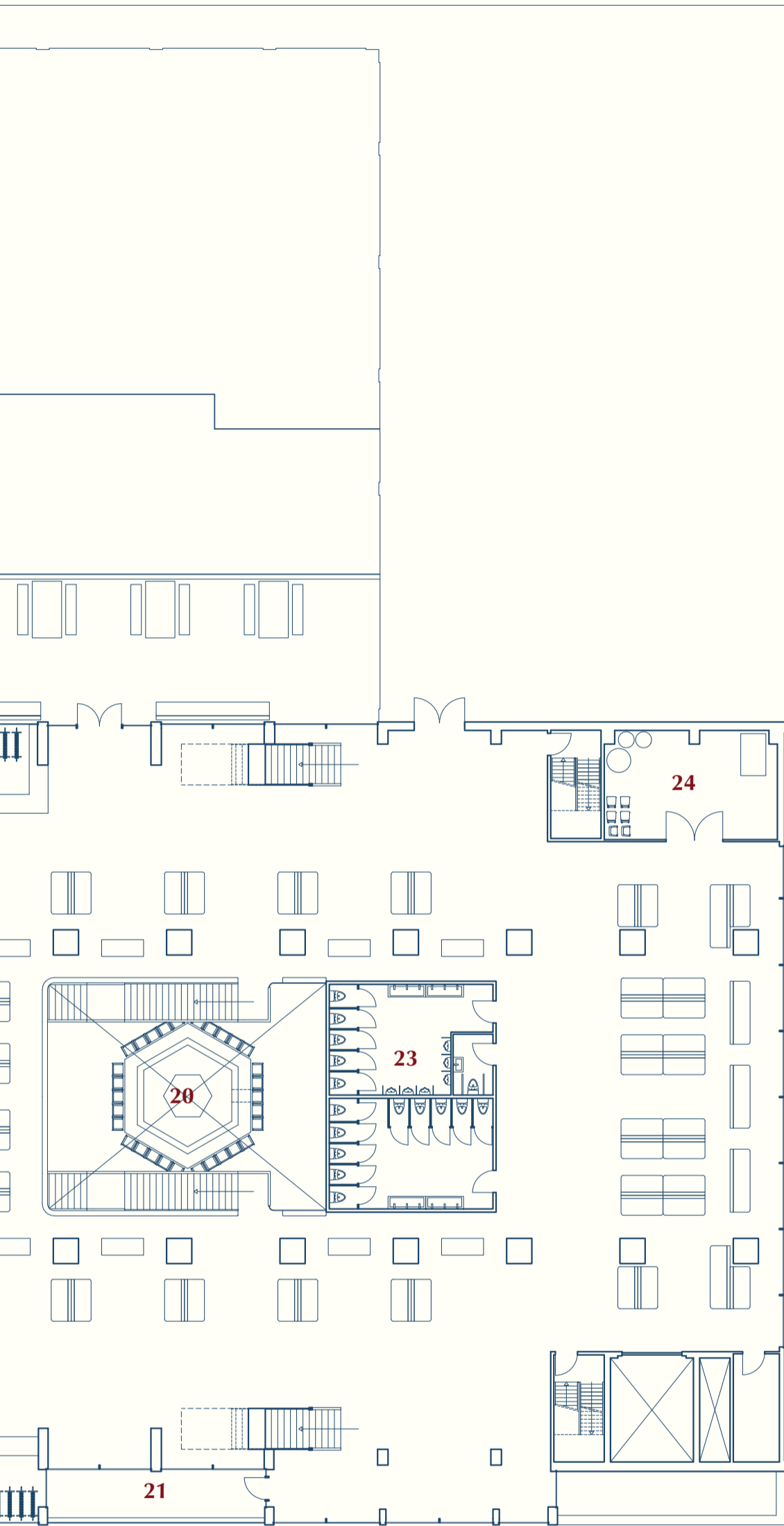


- 7** Lobby
- 8** Reception
- 9** Foyer / Multifunctional Hall
- 10** Artist Foyer
- 11** Dressing Room
- 12** Artist Room
- 13** Practice Room
- 14** Toilets
- 15** Storage Room
- 16** Crossing Hallway (Jurriaanse Hall)
- 17** Crossing Hallway (Private Route)

SECOND FLOOR

+ 12.600 m / 1 : 200

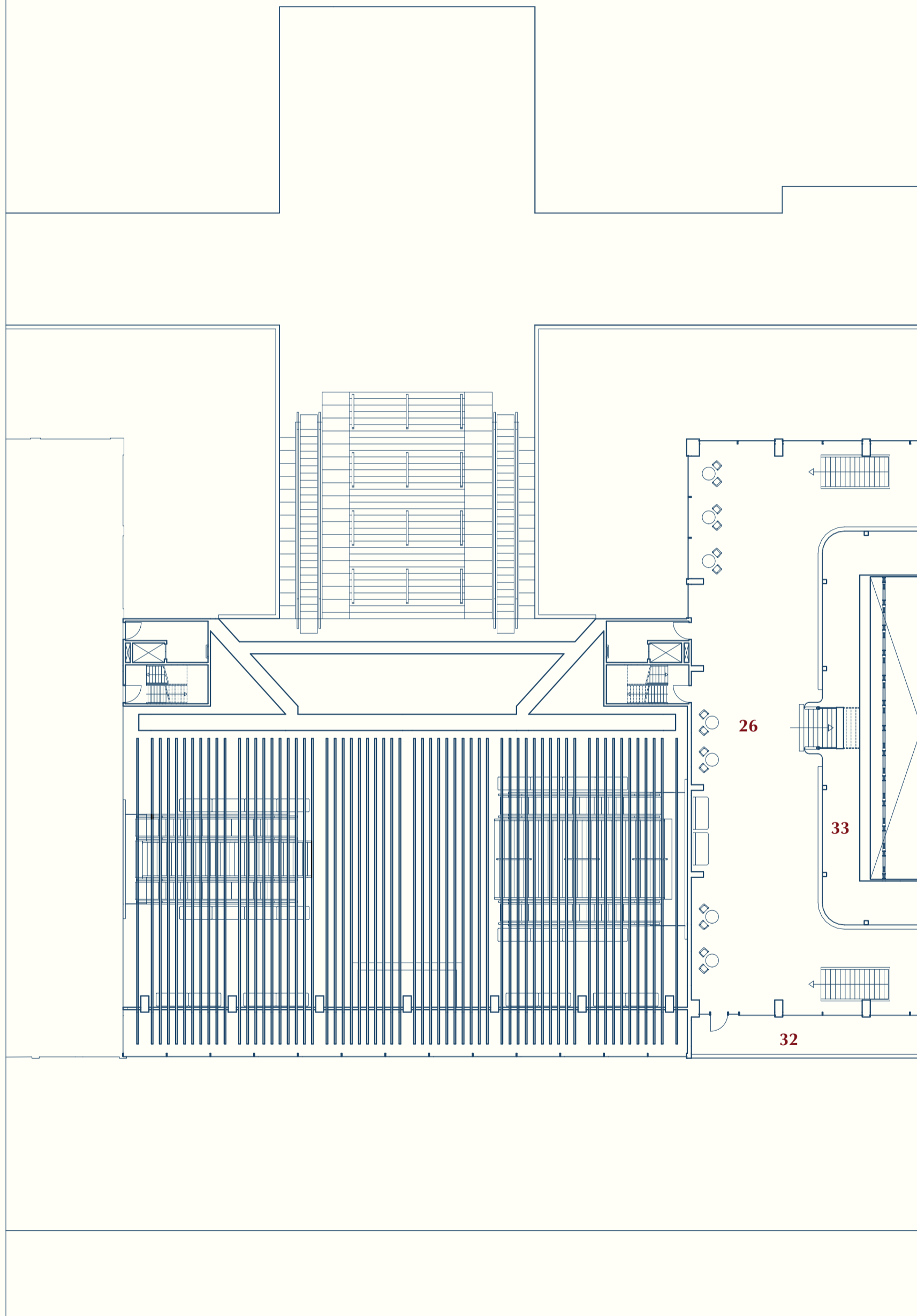


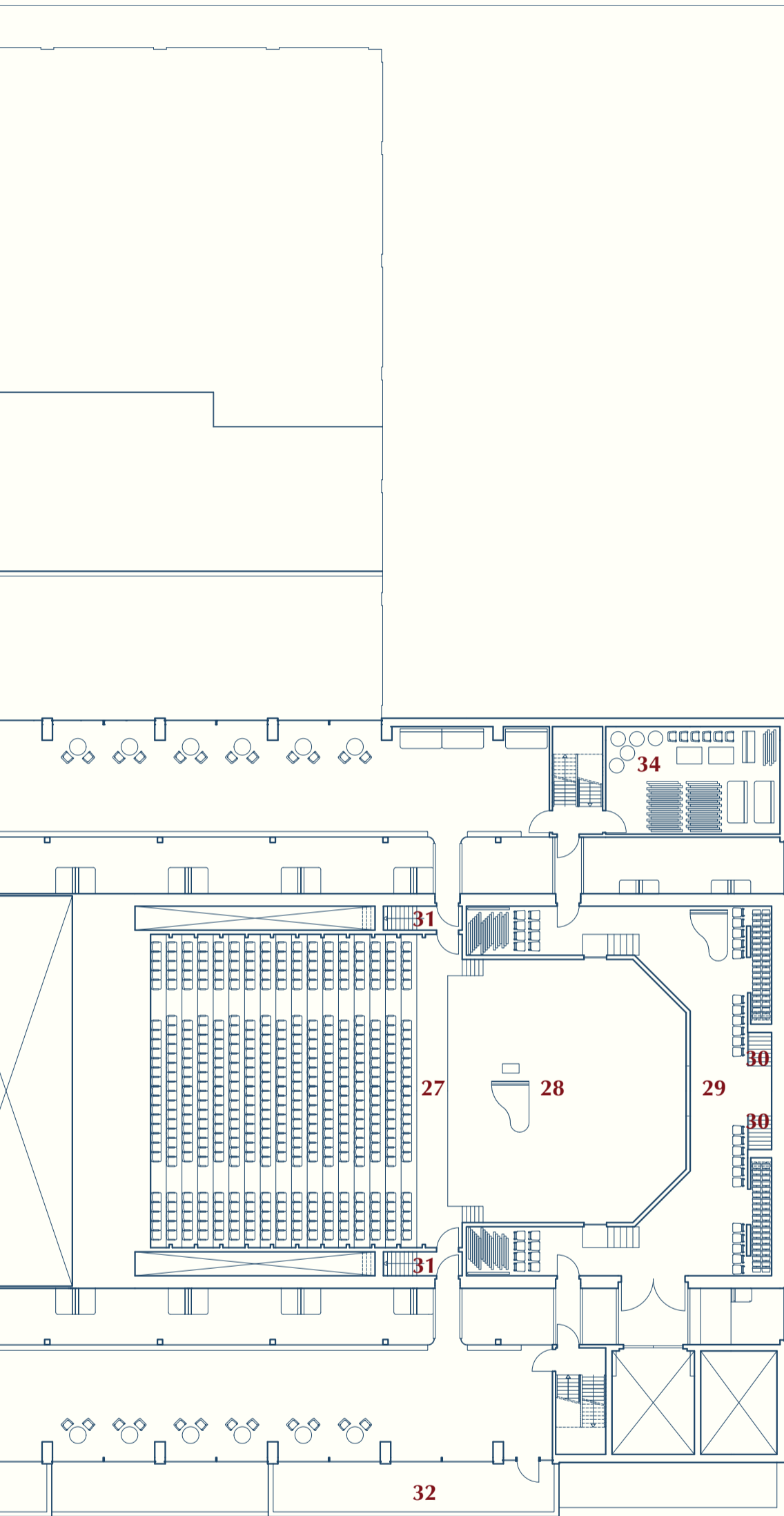


- 18** Foyer Main Hall
- 19** Wardrobe
- 20** Void (Artist Foyer / Multifunctional Hall)
- 21** Balcony
- 22** Roofterrace
- 23** Toilets
- 24** Storage Room
- 25** Crossing Hallway (Jurriaanse Hall)

THIRD FLOOR

+ 20.700 m / 1 : 200

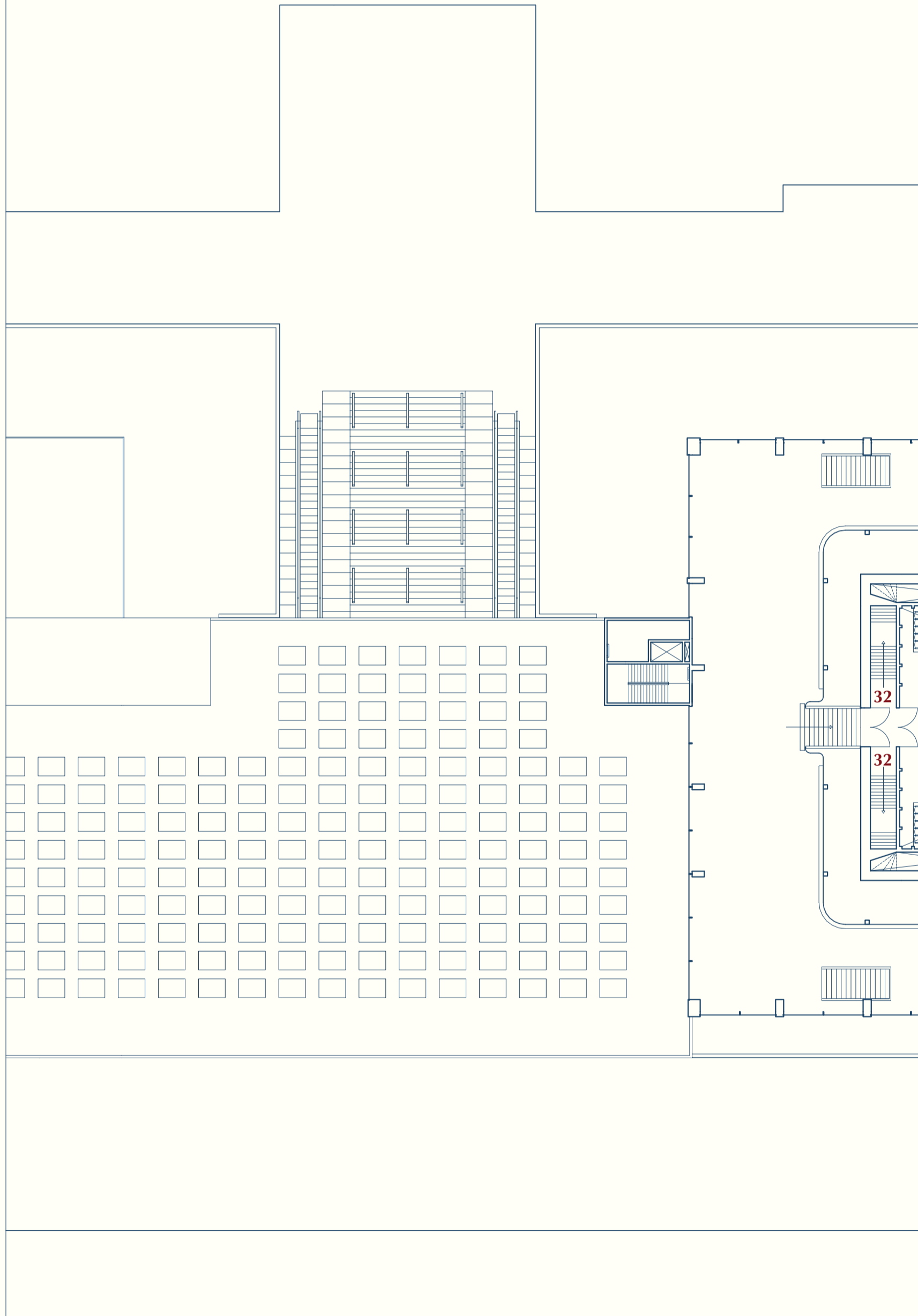


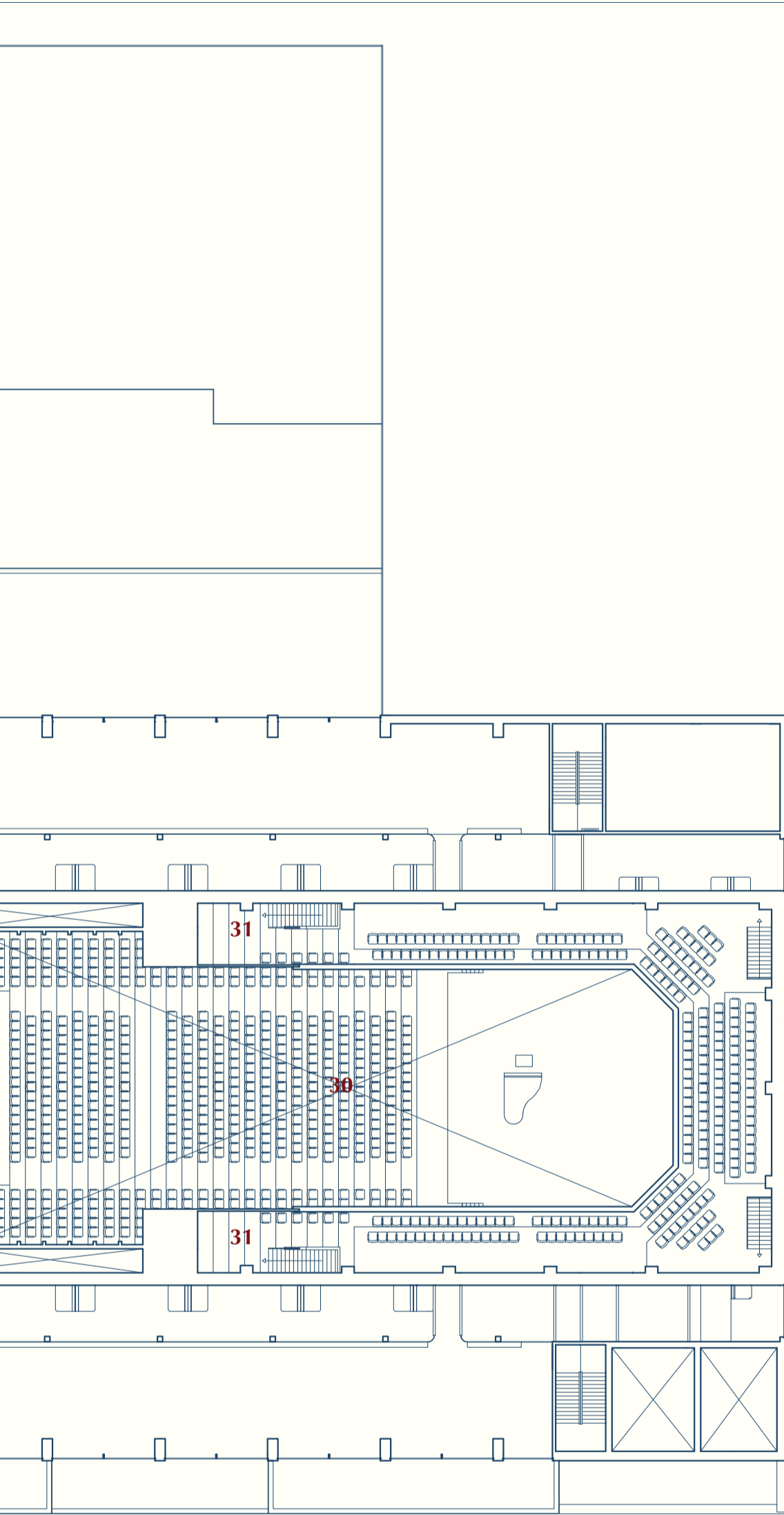


- 26** Foyer Main Hall (U-Platform)
- 27** Concert Hall Main Hall (Parterre)
- 28** Podium
- 29** Green Room / Storage Room
- 30** Staircase (Choir)
- 31** Staircase (Buffer Space)
- 32** Balcony
- 33** Void (Foyer Main Hall)
- 34** Storage Room

FOURTH FLOOR

+ 25.200 m / 1 : 200

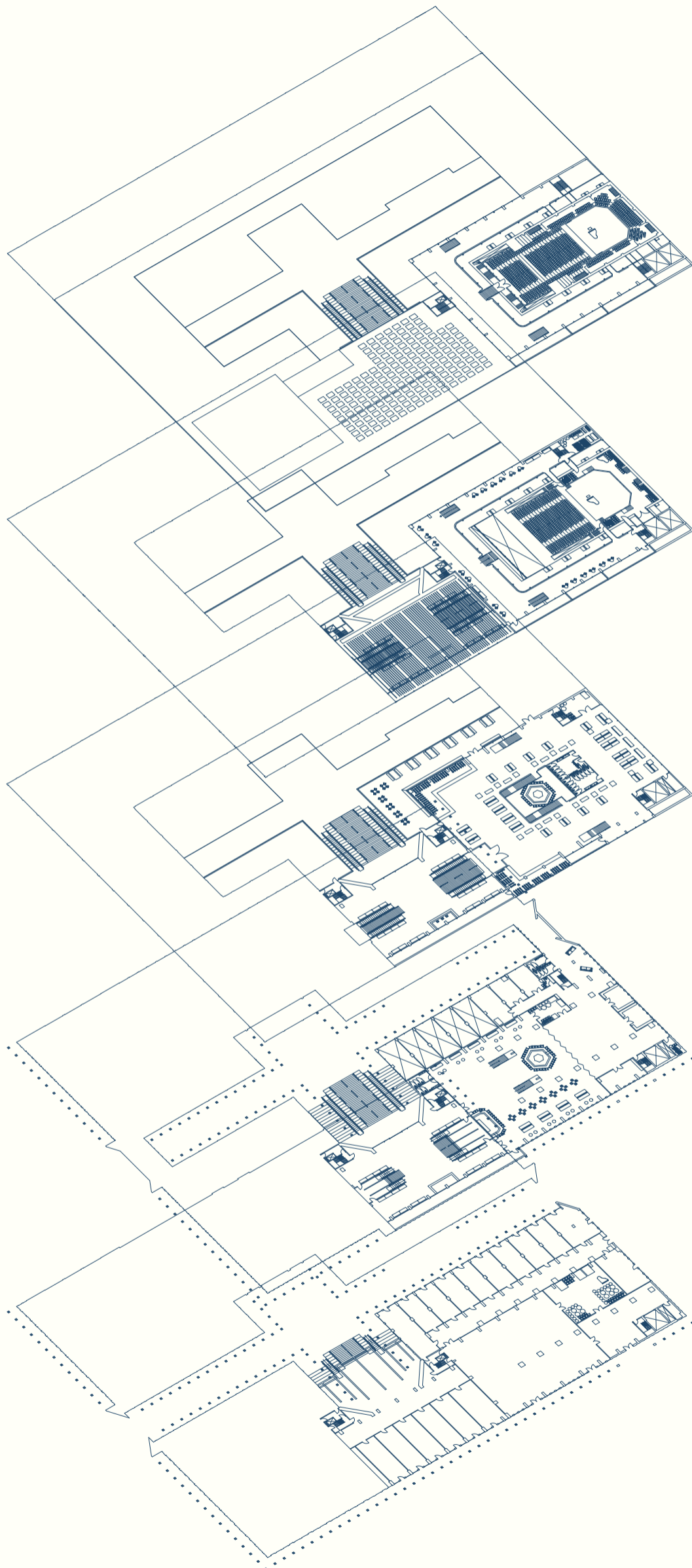




- 30** Void (Main Hall Parterre)
- 31** Balcony (Main Hall)
- 32** Staircase (Buffer Space)

EXPLODED ISOMETRIC VIEW

Overview floorplans / No scale



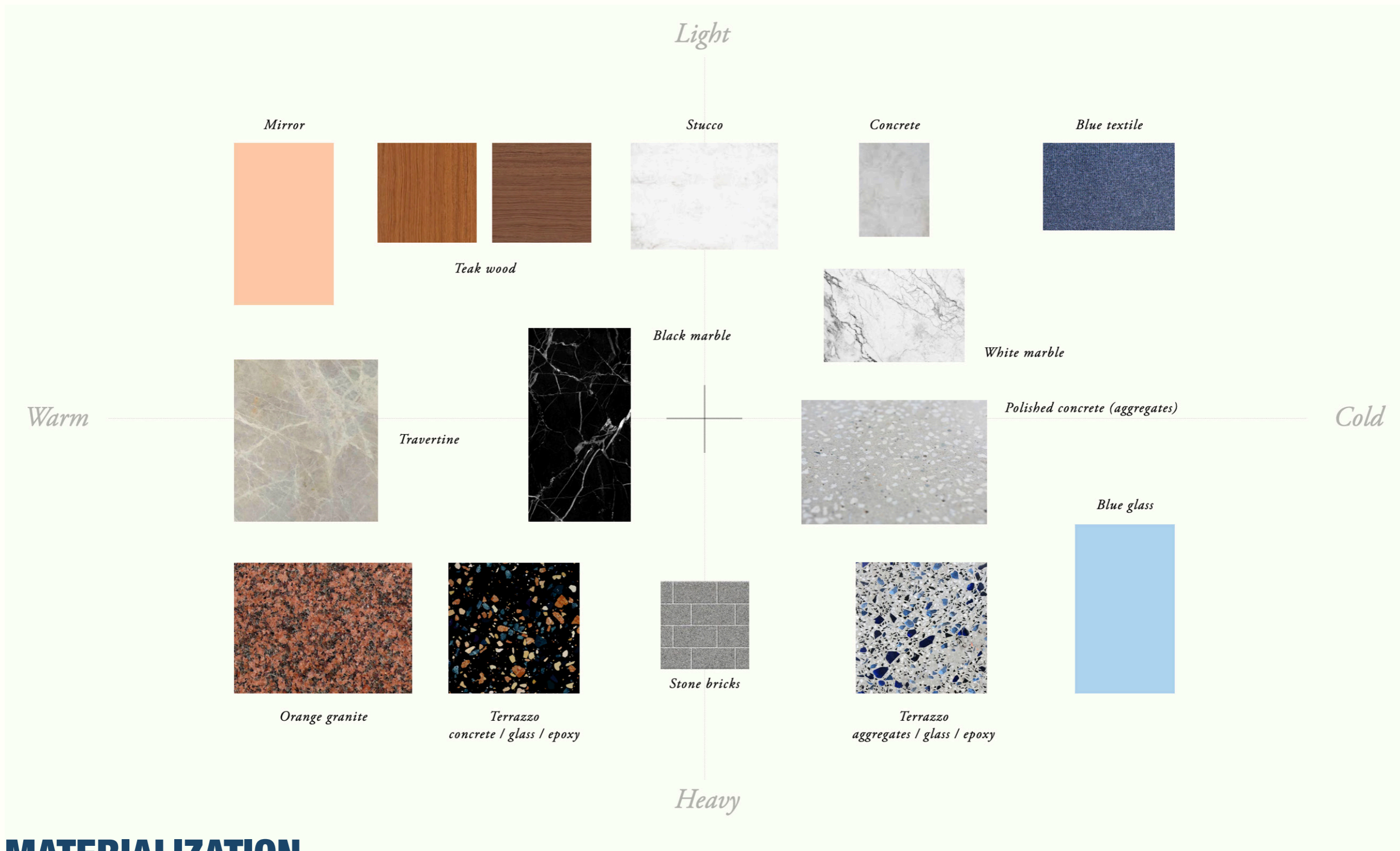
4th Concert hall
+ 24.700 m

3rd Foyer (plateau) / Concert hall
+ 20.600 m

2nd Foyer (main hall)
+ 12.600 m

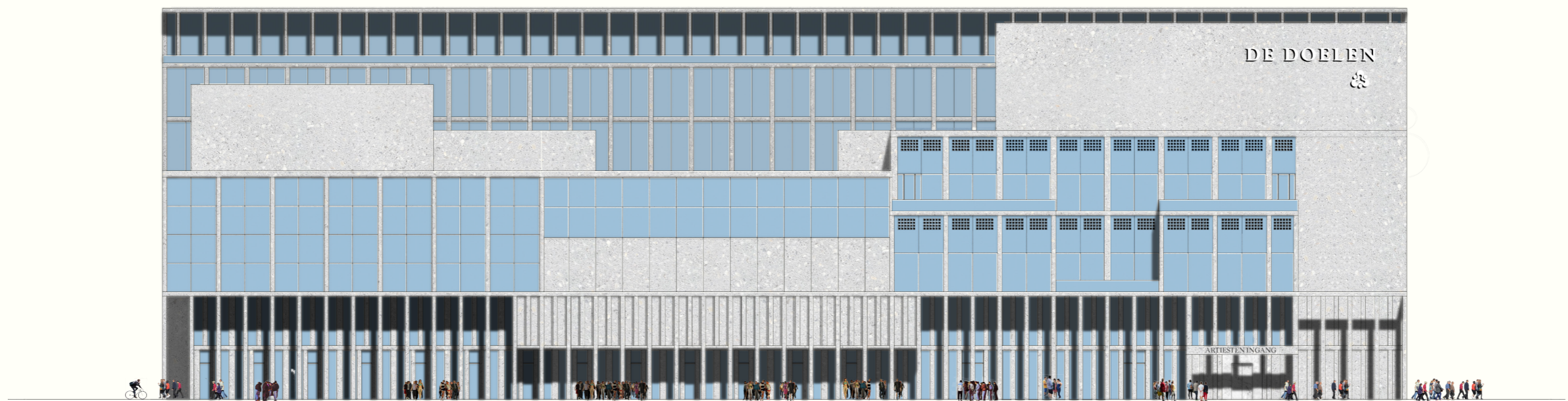
1st Lobby / Artist foyer
+ 7.200 m

GF Retail / Multifunctional hall
+ 1.800 m

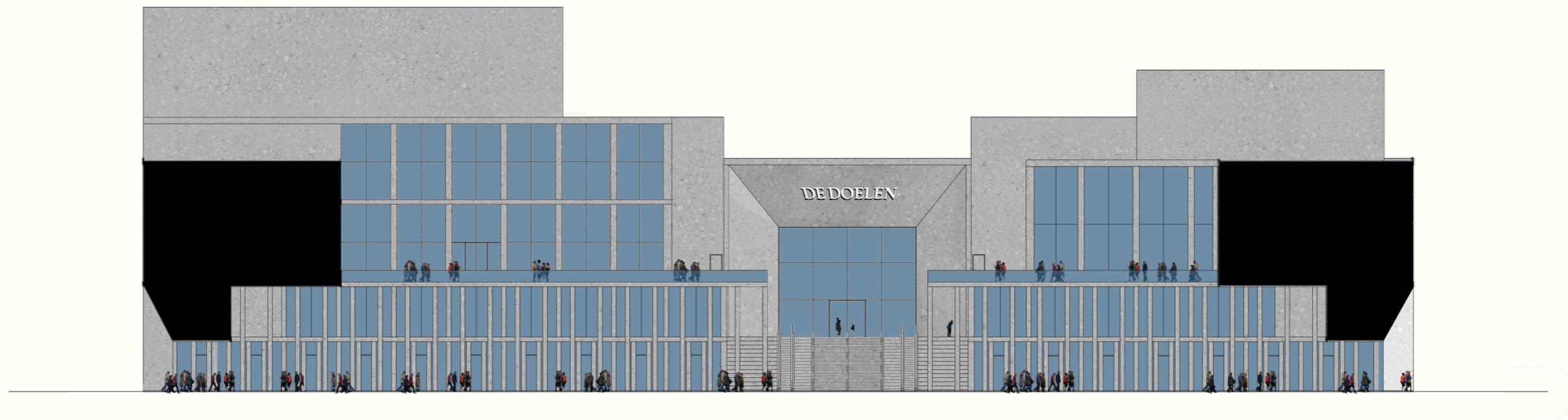


MATERIALIZATION

Cool to warm / Light to heavy



South elevation
1 : 300

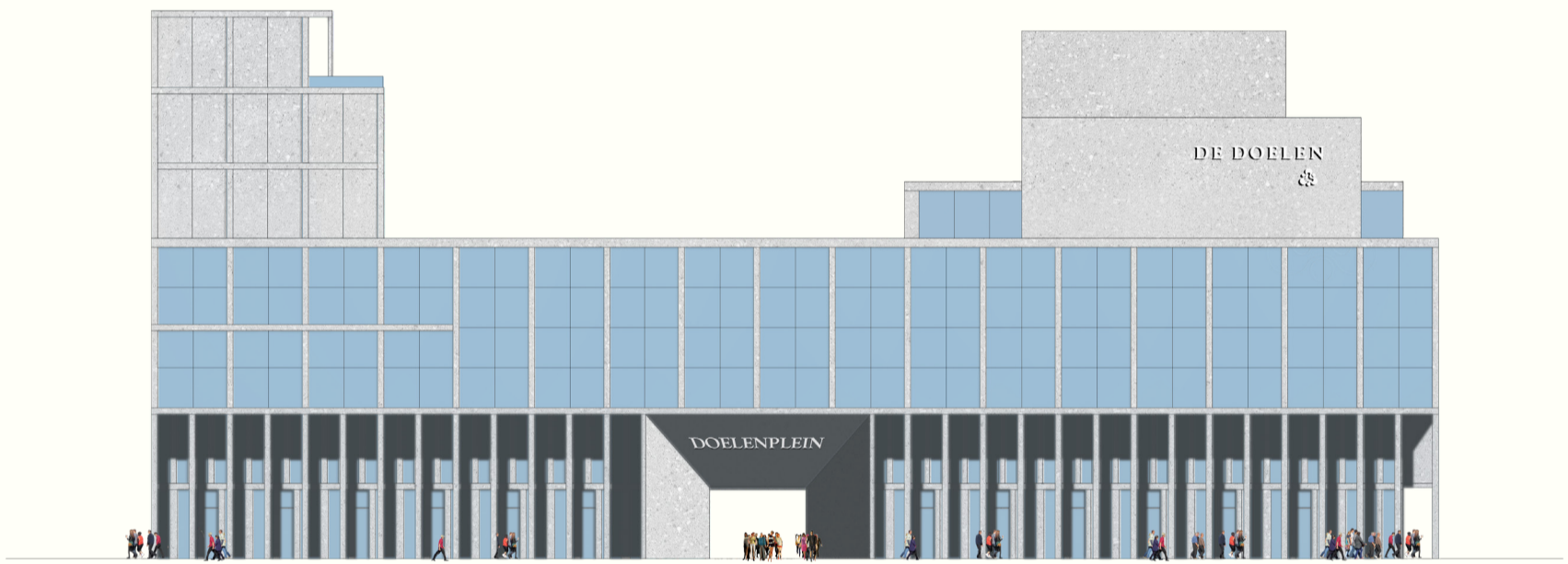


Inner North elevation
1 : 300



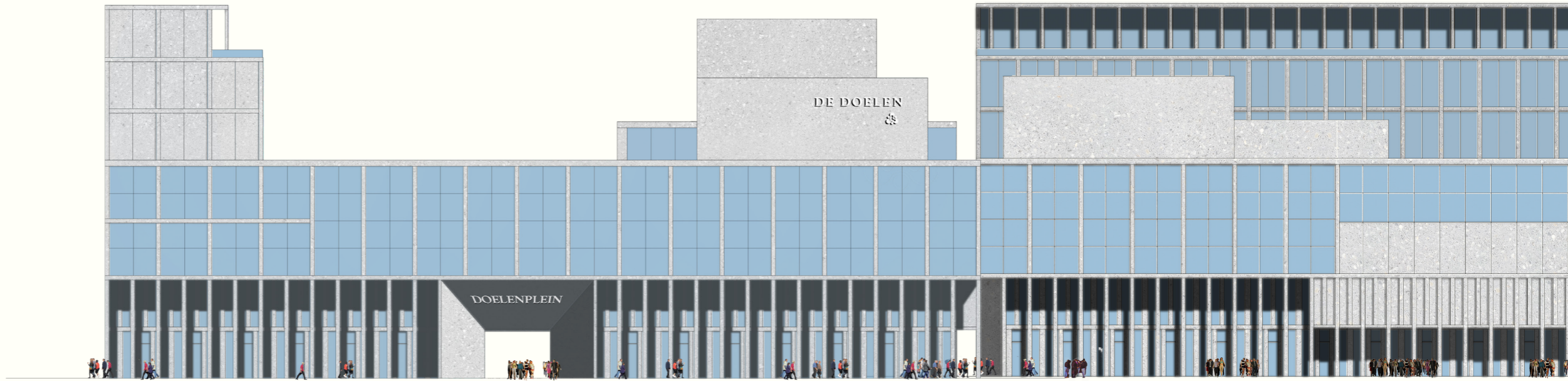
East elevation

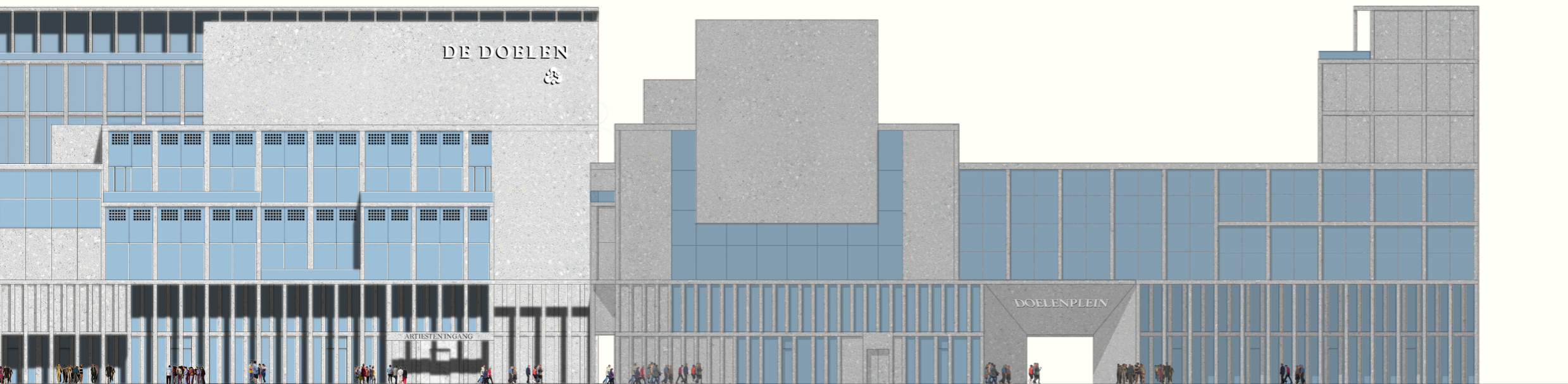
1 : 300



West elevation

1 : 300

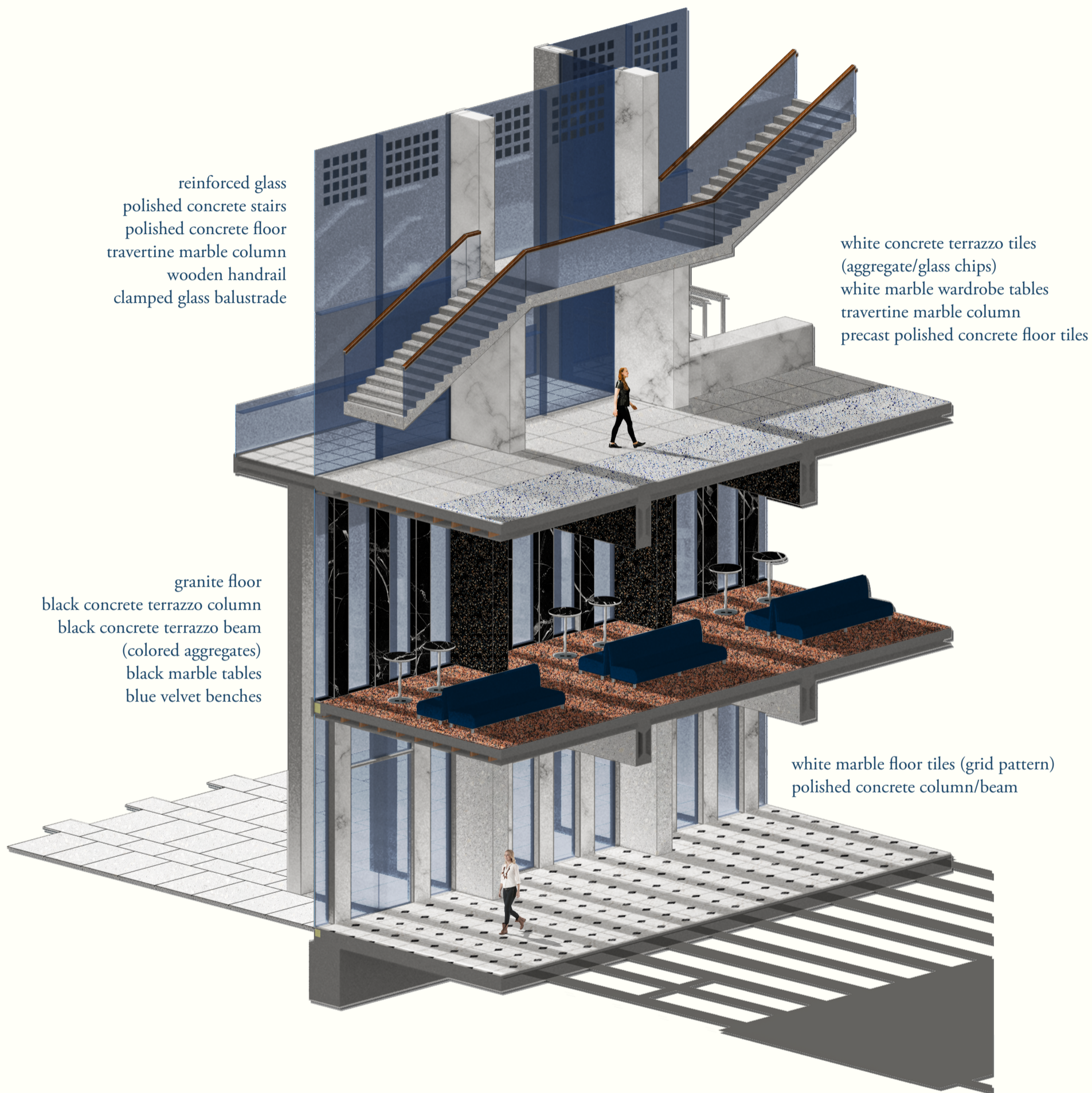




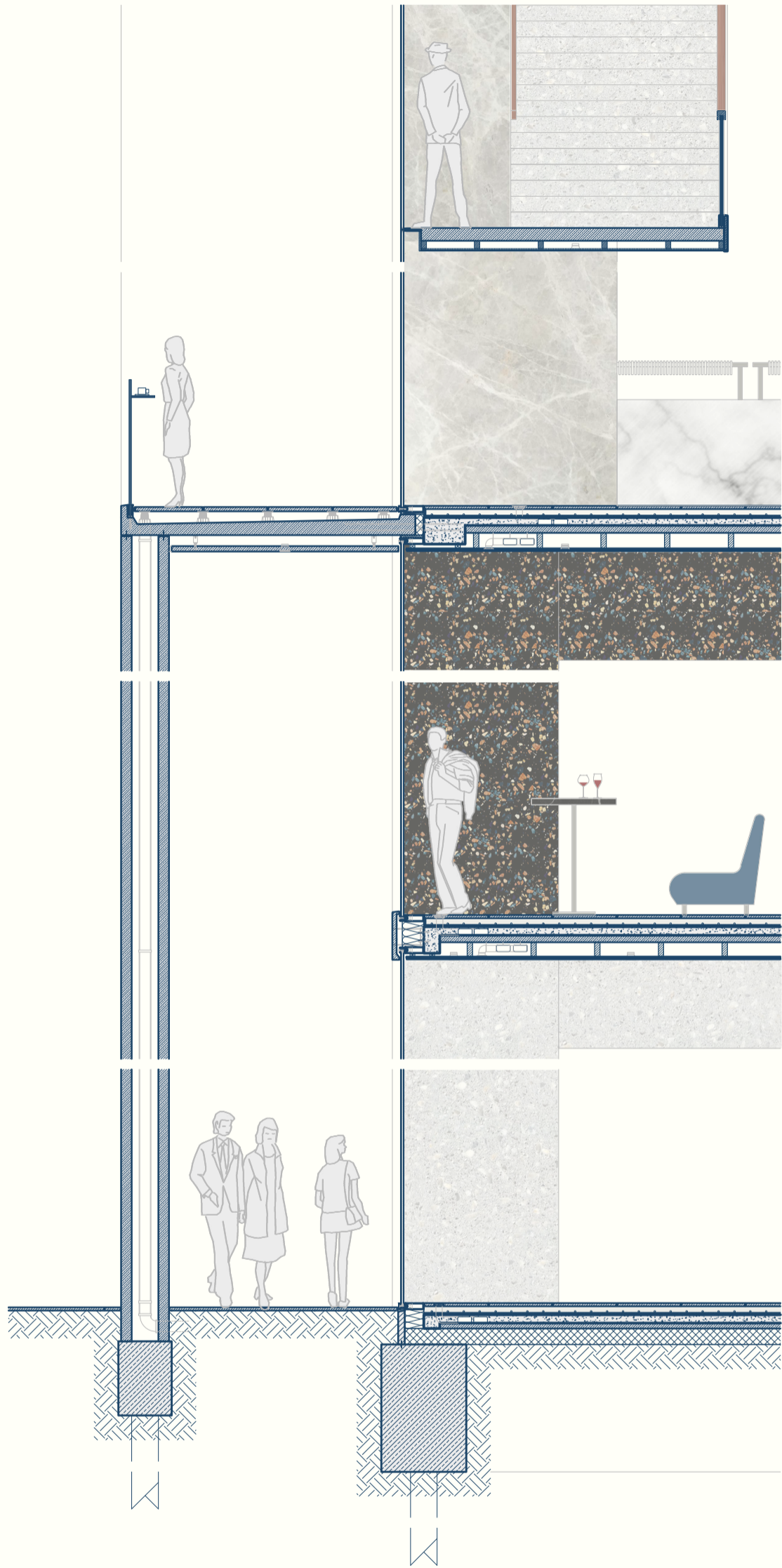
DE DOELEN
&

ARTISTENINGANG

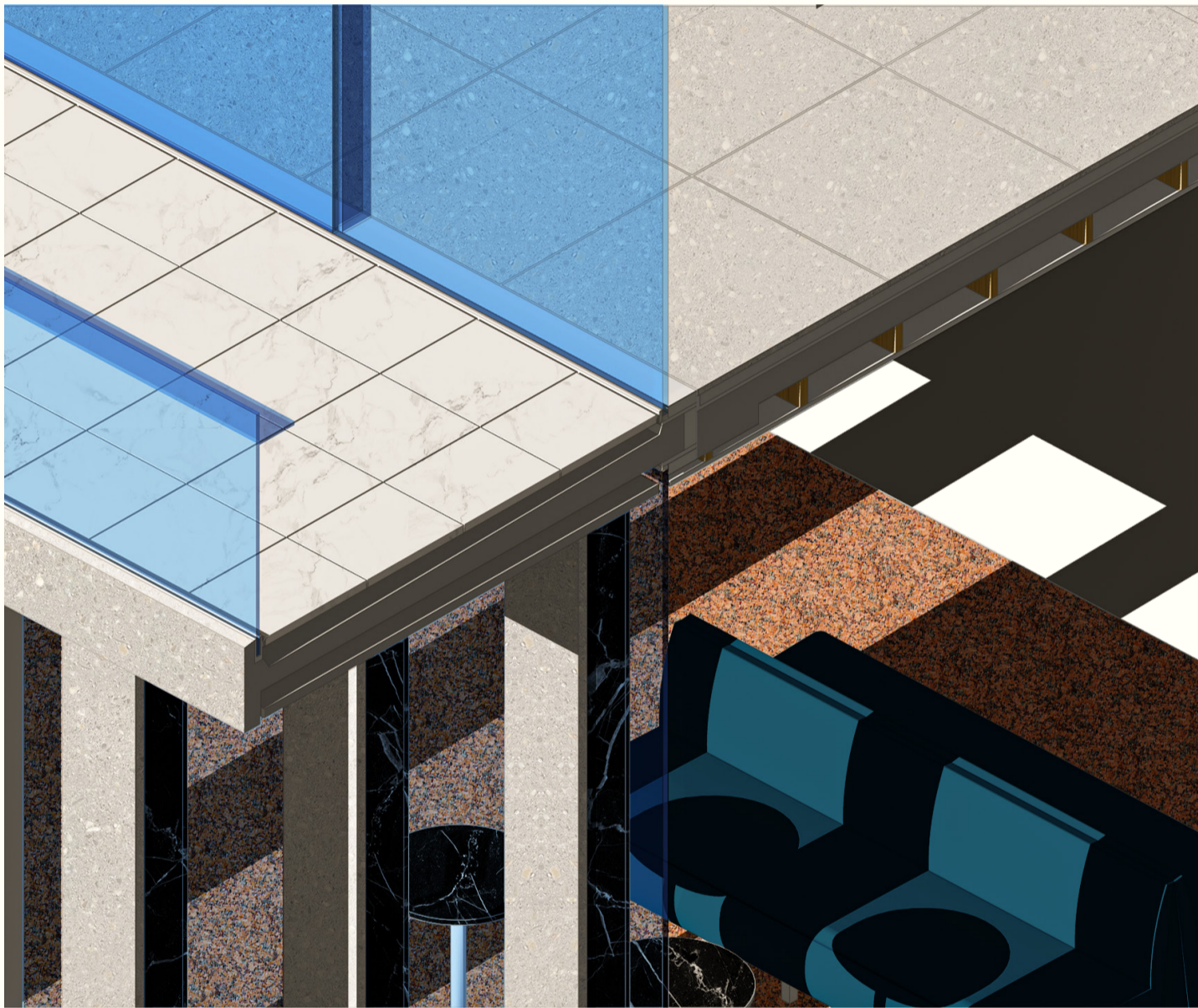
DOELENPLEIN



Isometric section
south elevation / 1 : 100

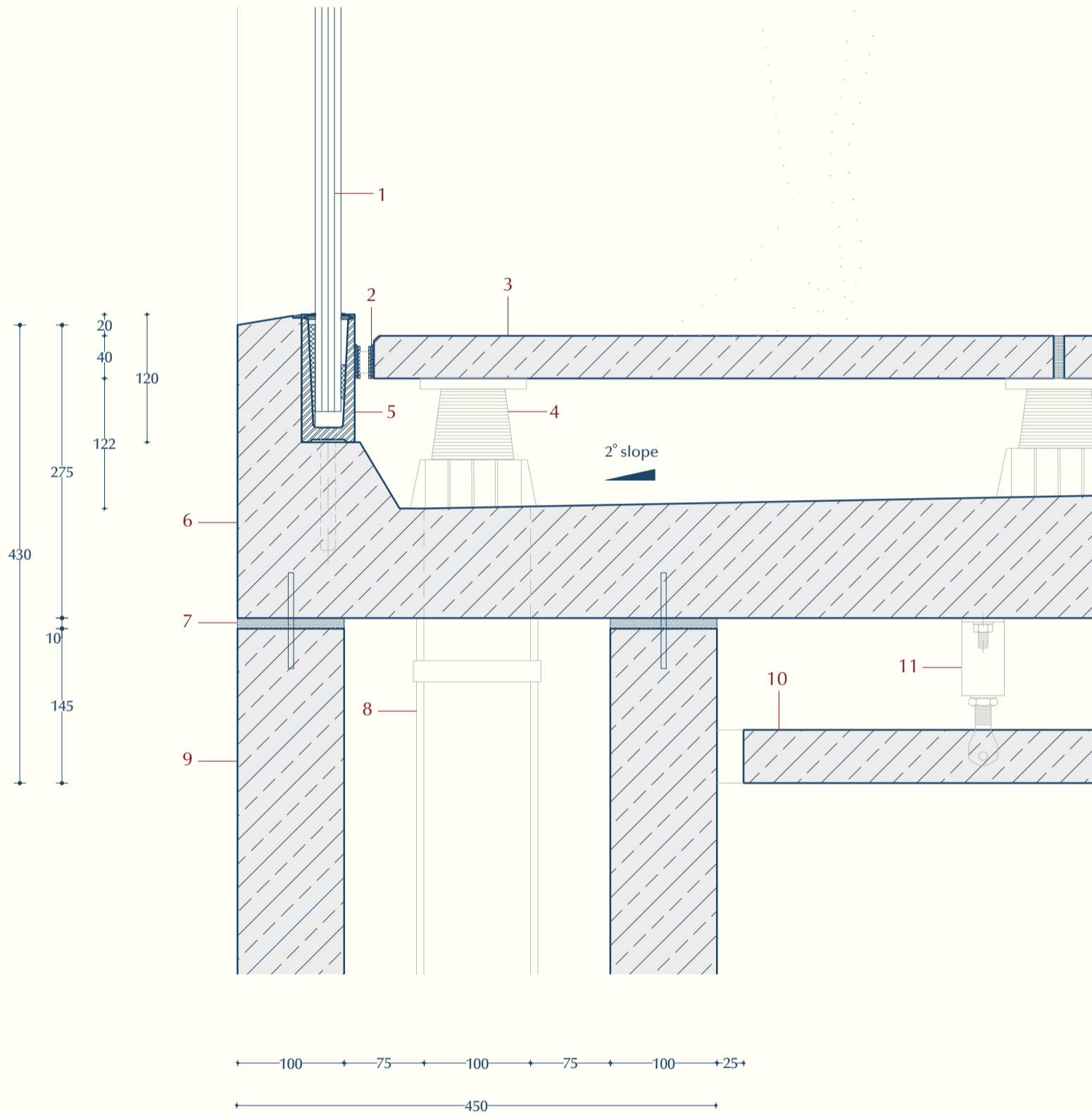


Fragment section
south elevation / 1 : 50



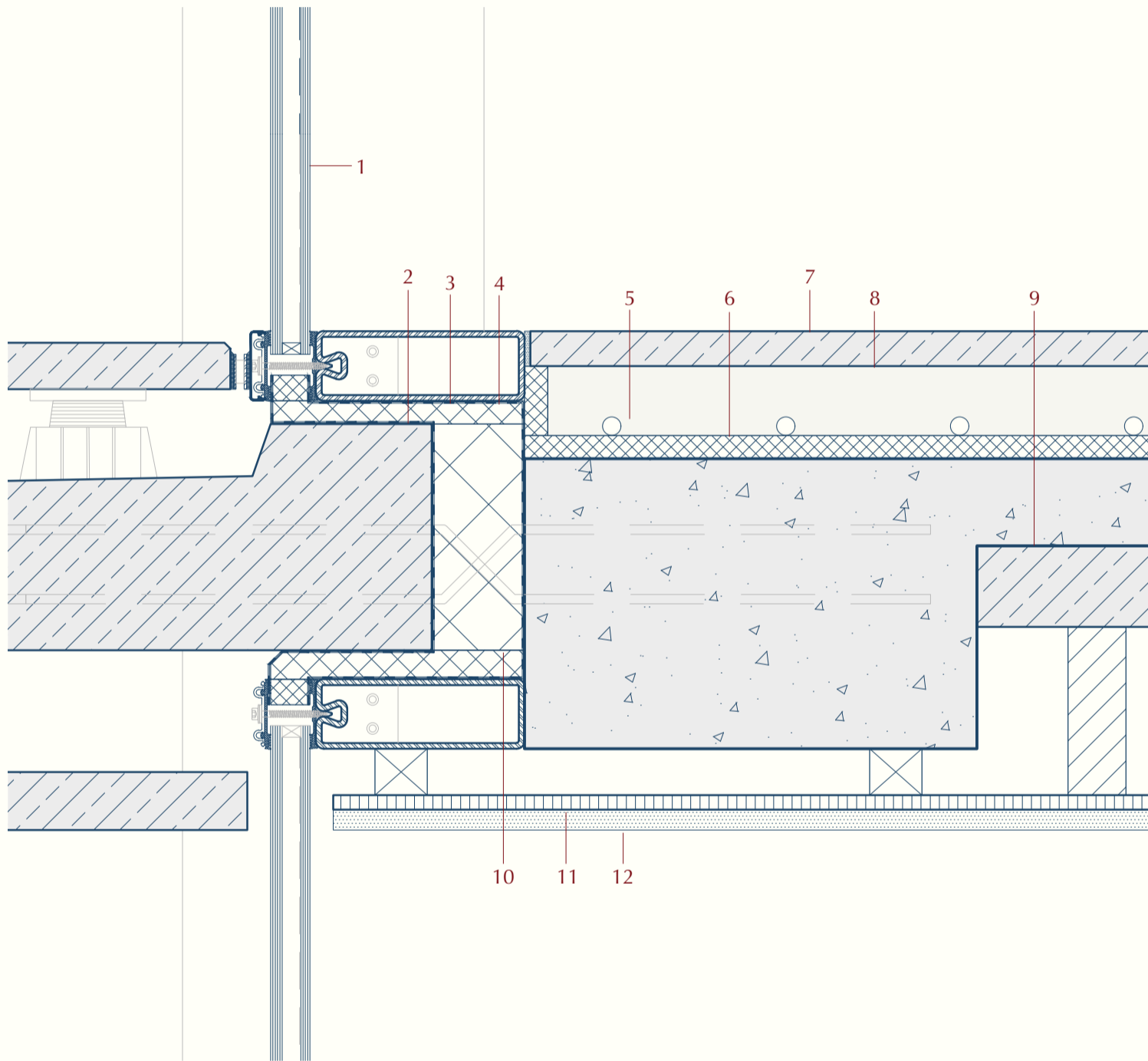
Isometric section
south elevation / Close-up

- 1 clamped layered glass balustrade 24 mm
- 2 aluminium drainage slot 8 mm
- 3 white marble 40 mm
- 4 PVC tile supporters
- 5 galvanized steel balustrade U-profile
- 6 precast concrete balcony
- 7 expansion joint 10 mm
- 8 PVC rainwater drainage 100 mm
- 9 precast concrete column 450 x 450 mm
- 10 precast concrete slab 50 mm
- 11 ceiling anchor 130 mm



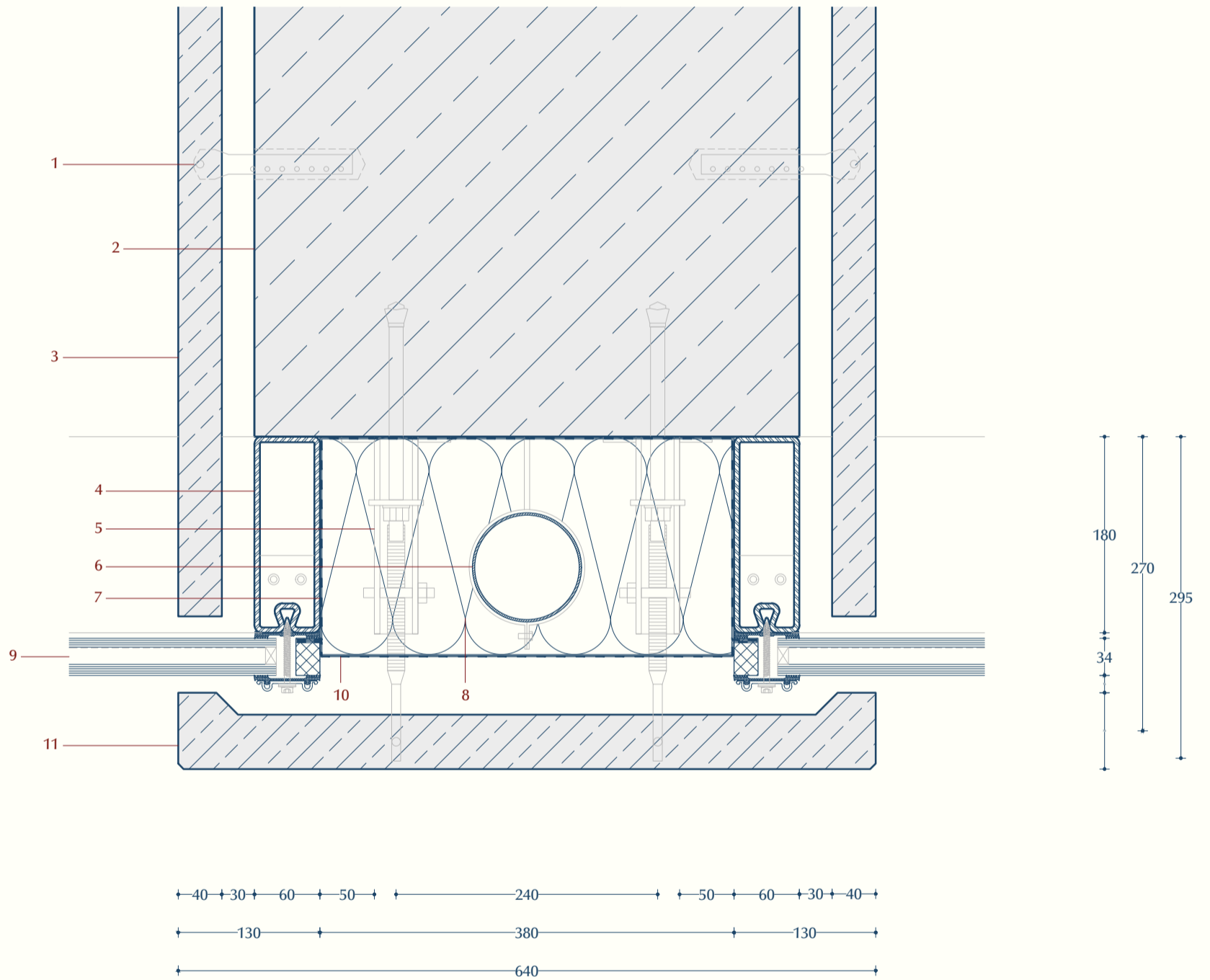
Principal detail 1
 'rainwater drainage' / 1 : 5

- 1 HR++ glass (8*/16/10) coated and argon filled
- 2 vapor barrier
- 3 waterproof layer
- 4 foamglass insulation 20 mm
- 5 low temperature floor heating 16 mm
- 6 foamglass insulation 20 mm
- 7 granite floor (epoxy) 30 mm
- 8 screed floor 60 mm
- 9 precast wideslab floor 150 mm
- 10 isokorph 80 mm
- 11 plasterboard 12,5 mm
- 12 concrete stucco finish



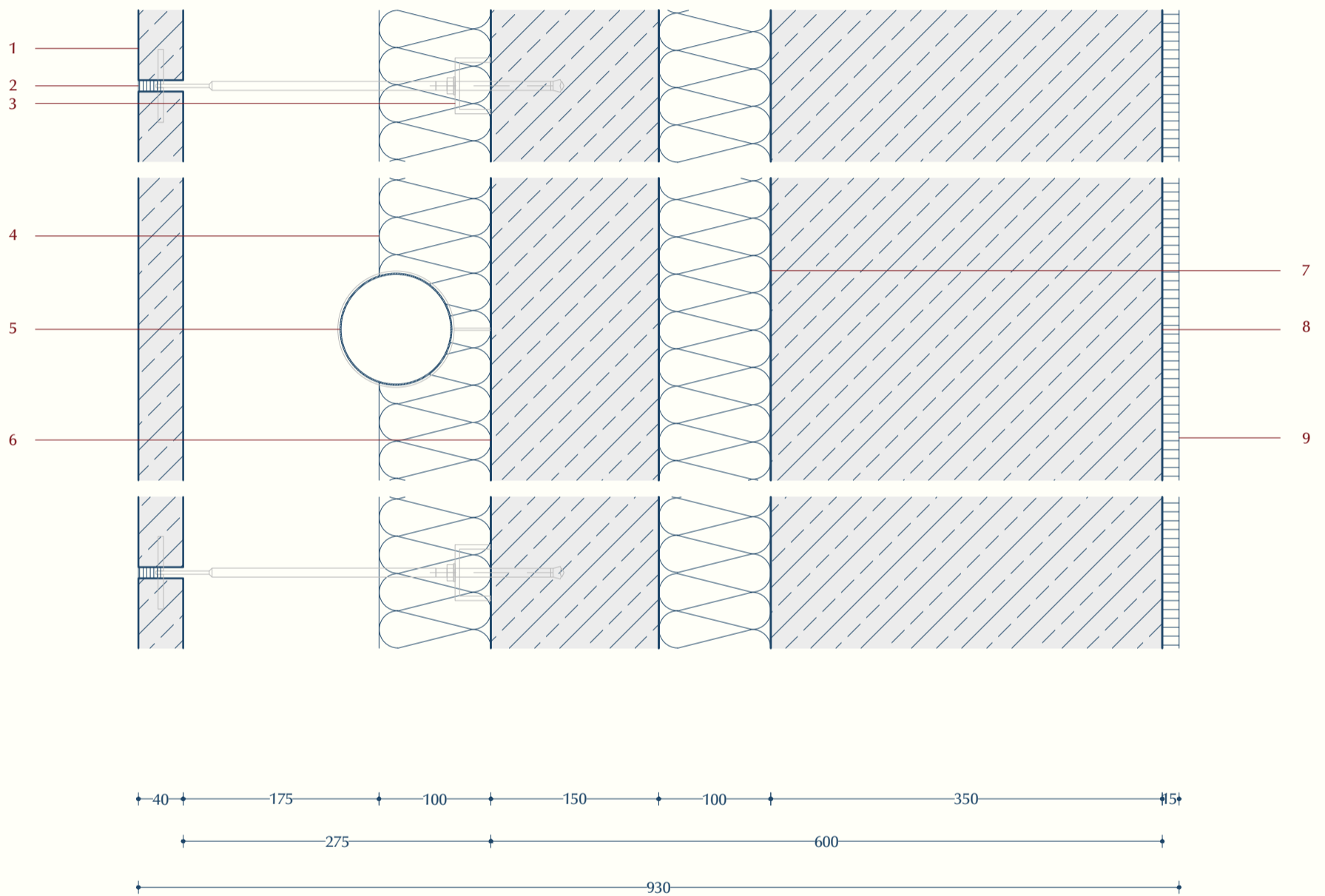
Principal detail 2
'tightness' / 1 : 5

- 1 precast concrete column 500 x 1200 mm
- 2 mortar anchor 18 mm
- 3 white marble 40 mm
- 4 galvanized steel curtain wall profile 60 x 180 mm
- 5 carrier anchor 270 mm
- 6 PVC rainwater drainage 100 mm
- 7 waterproof layer
- 8 mineral wool insulation 200 mm
- 9 HR++ glass (8*/16/10) coated and argon filled
- 10 vapor barrier
- 11 precast concrete 50 x 640 mm



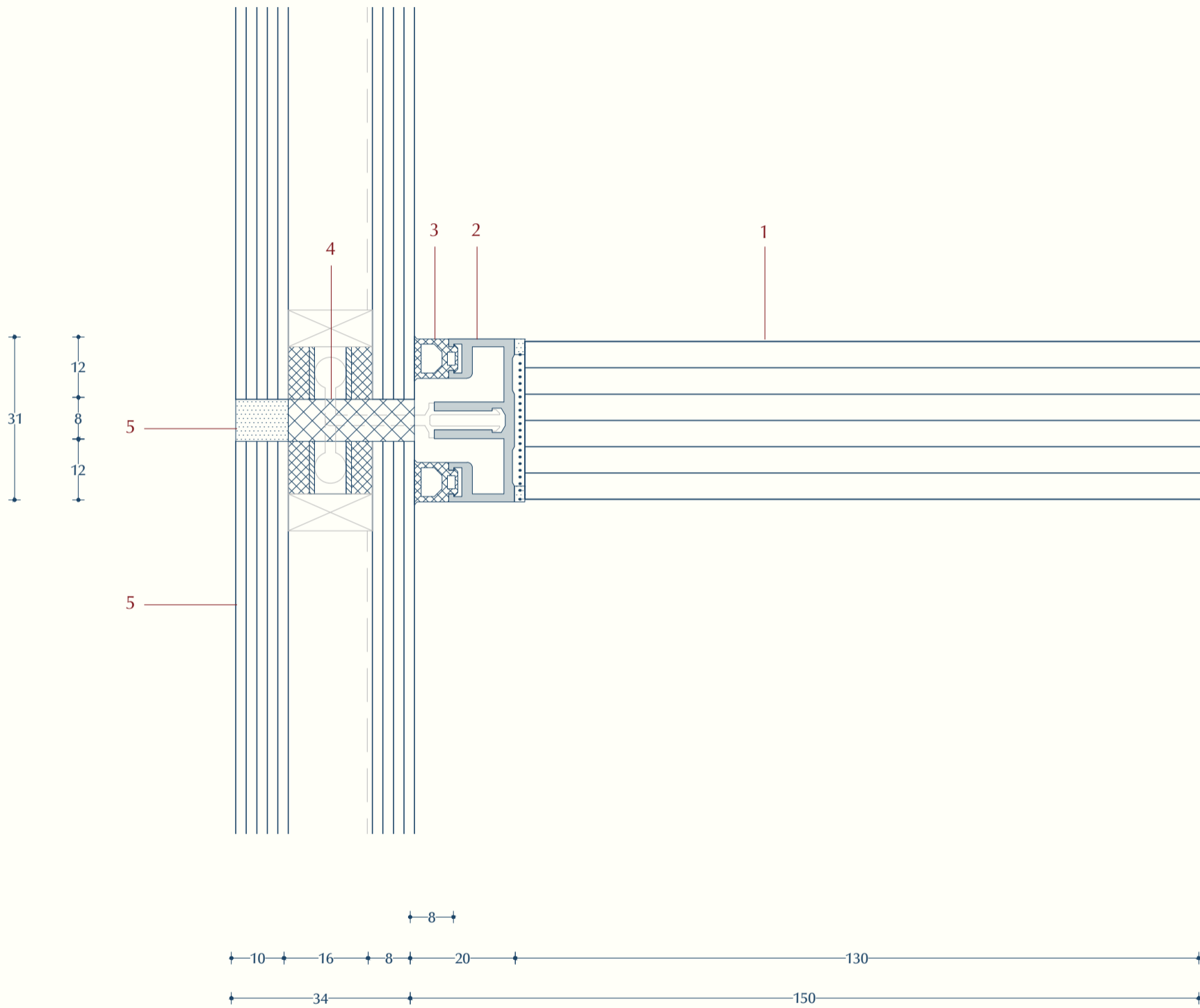
Principal detail 3
 'behind the column' / 1 : 5

- 1 precast concrete slabs 40 mm
- 2 plastered seams 10 mm
- 3 bearing anchors 295 mm
- 4 mineral wool insulation 100 mm
- 5 PVC rainwater drainage 100 mm
- 6 precast concrete wall 150 mm
- 7 mineral wool insulation 100 mm
- 8 precast concrete wall 350 mm
- 9 stucco 15 mm



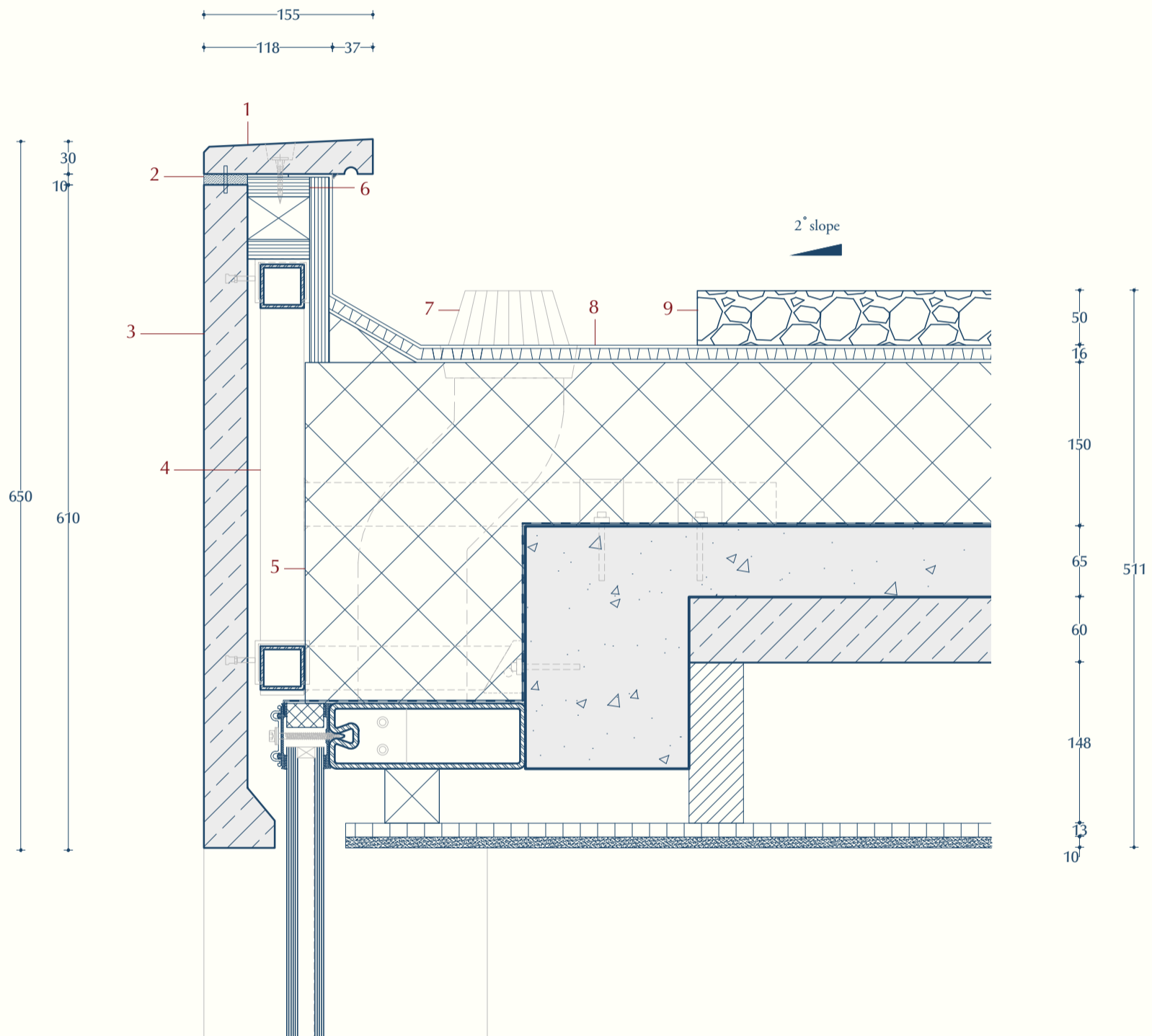
Principal detail 4
 'mass-feather-mass' / 1 : 5

- 1 reinforced glass 30 x 130 mm (glued on profile)
- 2 plastic profile (click-system)
- 3 rubber band
- 4 thermal / acoustic insulation filling
- 5 silicone sealant 8 mm
- 6 HR++ glass (8*/16/10) coated and argon filled



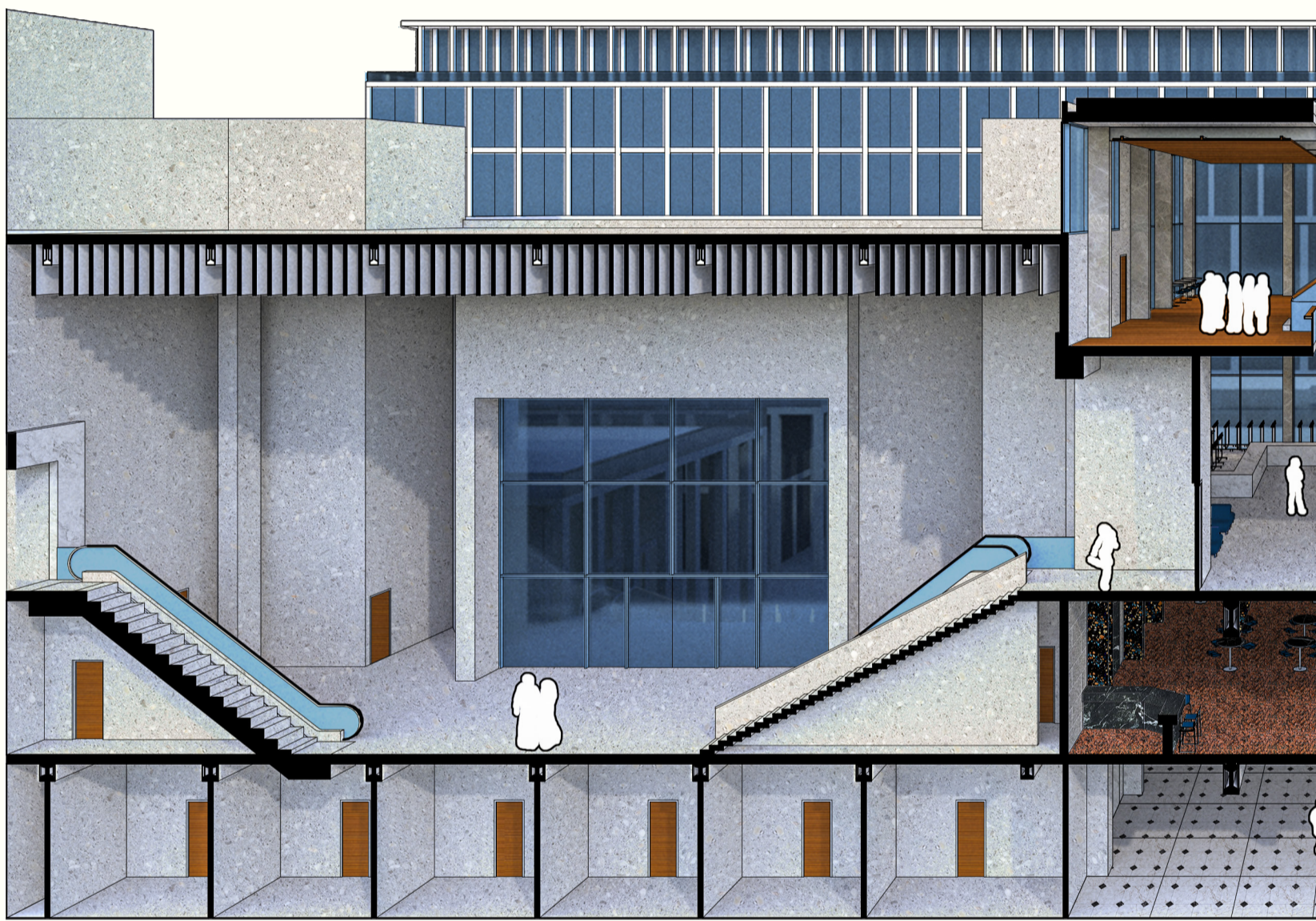
Principal detail 5
 'clean sight' / 1 : 5

- 1 precast concrete cover
- 2 expansion joint 10 mm
- 3 precast concrete 40 mm
- 4 prefabricated galvanized steel frame 40 mm
- 5 foamglass insulation 200 mm
- 6 triplex plates 18 mm
- 7 plastic leaf grate
- 8 PVC roofing (green roof)
- 9 gravel 50 mm

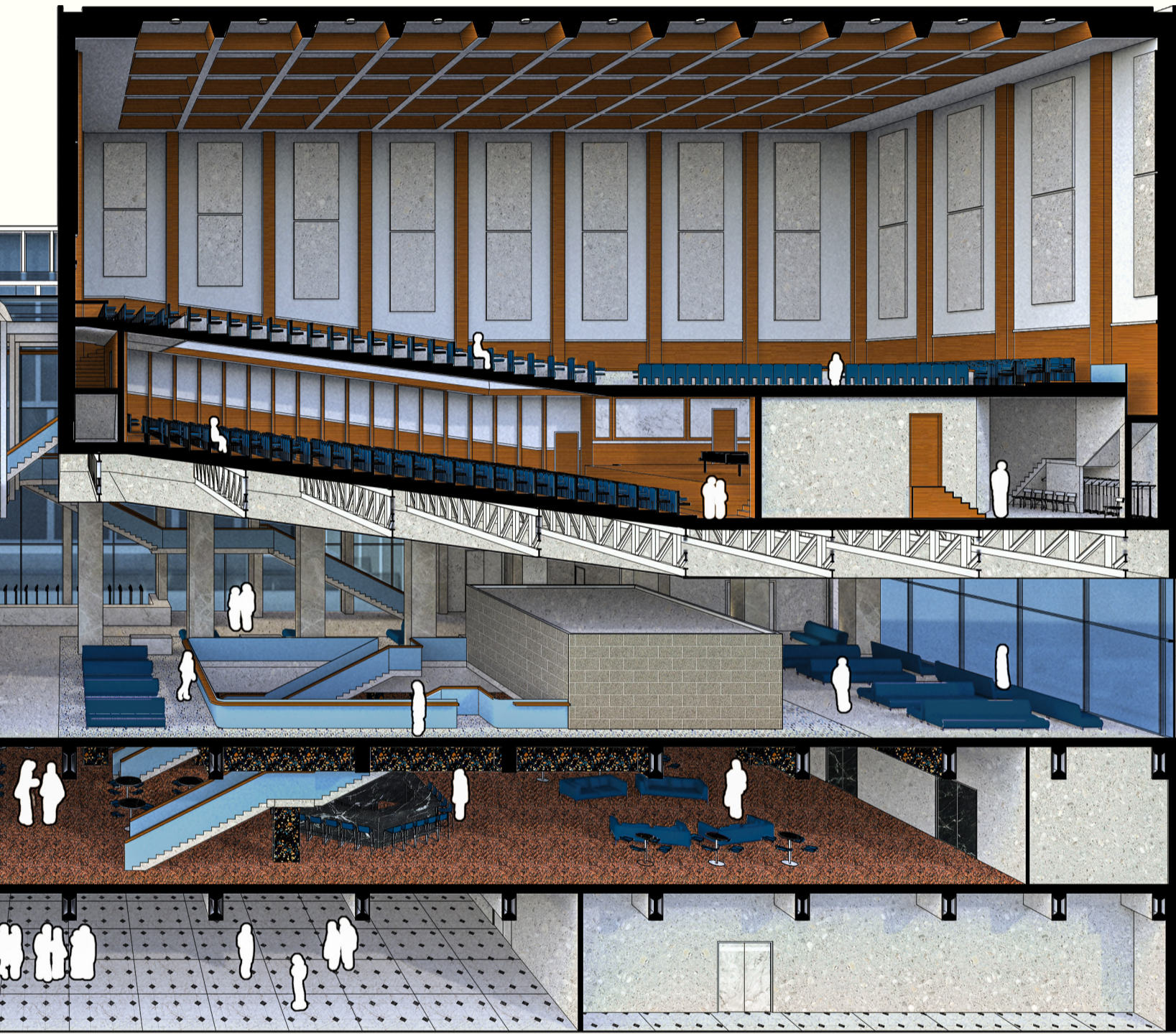


Principal detail 6
 'tightness' / 1 : 5

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Perspectiv
'Promenade'

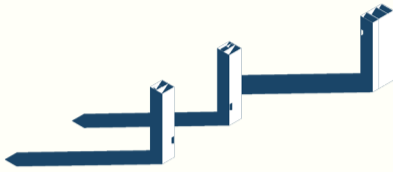


ve section
/ No scale

CONSTRUCTION

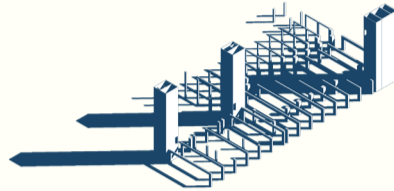
Build order / Prefabricated concrete system

1



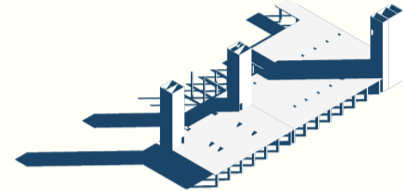
Vertical ascents

2



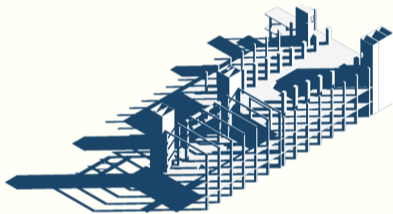
Columns (Ground floor)

3



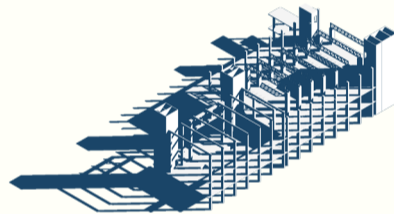
Floor (First floor)

7



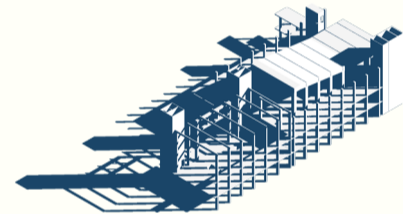
Column (Second floor)

8



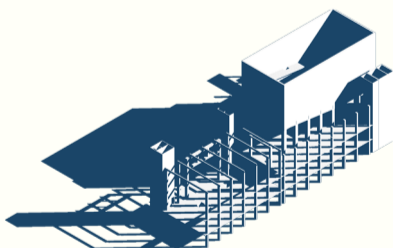
Lattice girder (Concert hall)

9



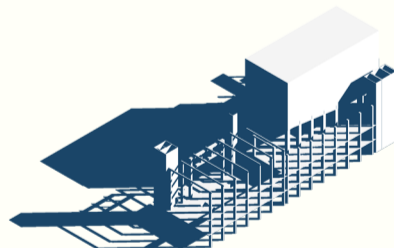
Floor (Concert hall)

13



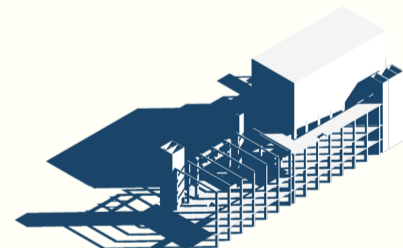
Outside walls (Concert hall)

14



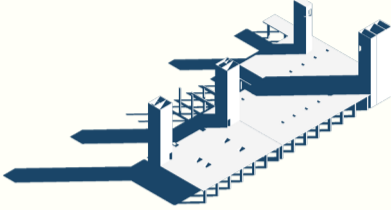
Roof (Concert hall)

15



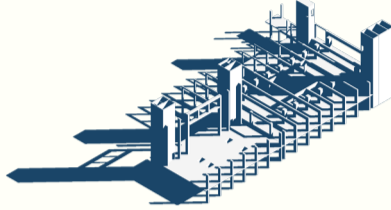
Floor (Third floor)

4



Vertical ascent (First floor)

5



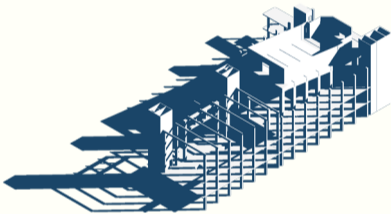
Columns (First floor)

6



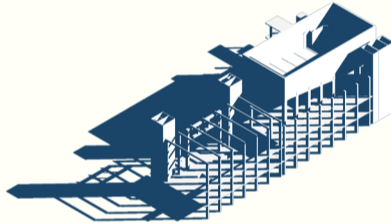
Floor (Second floor)

10



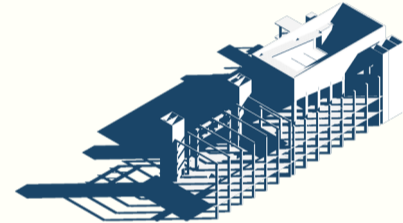
Inside walls (Concert hall)

11



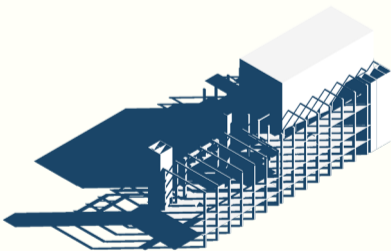
Outside walls (Concert hall)

12



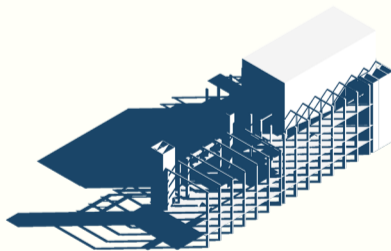
Balcony floor (Concert hall)

16



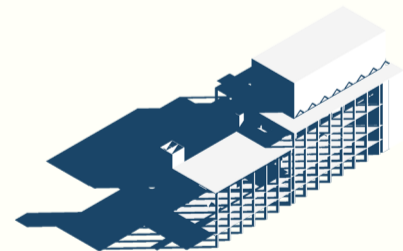
Column (Third floor)

17



'Pull' columns

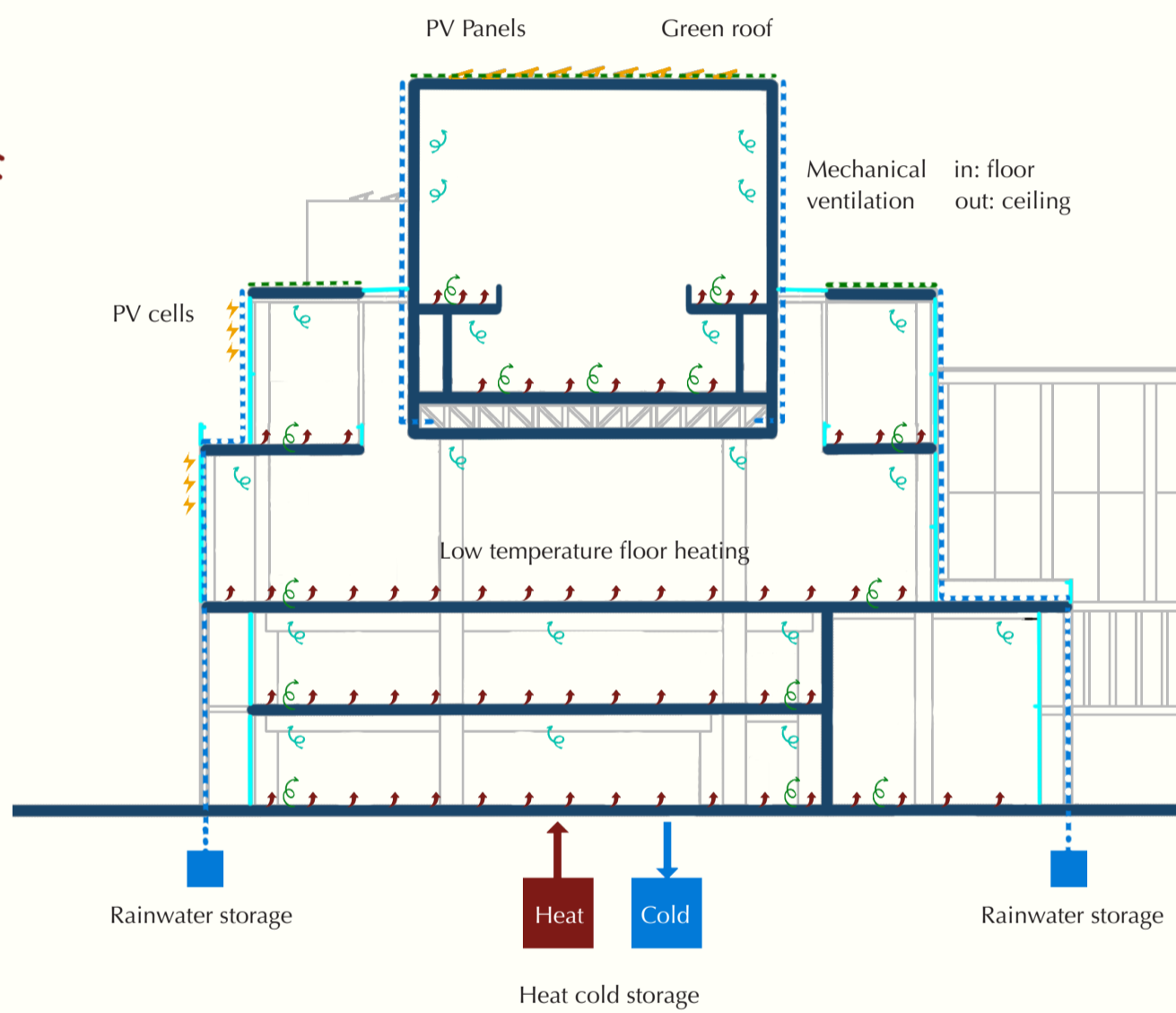
18



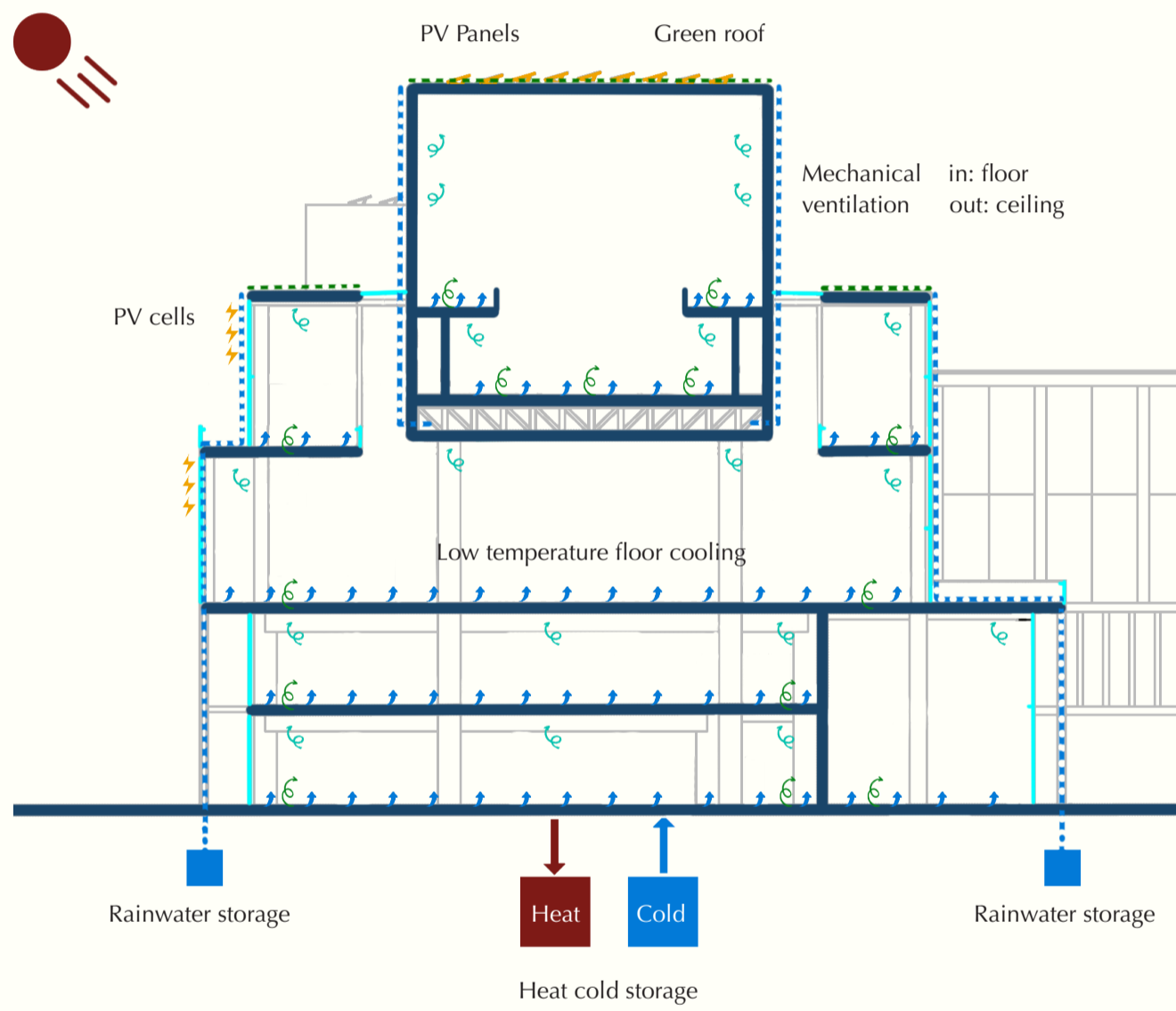
Roof (Building)

CLIMATE

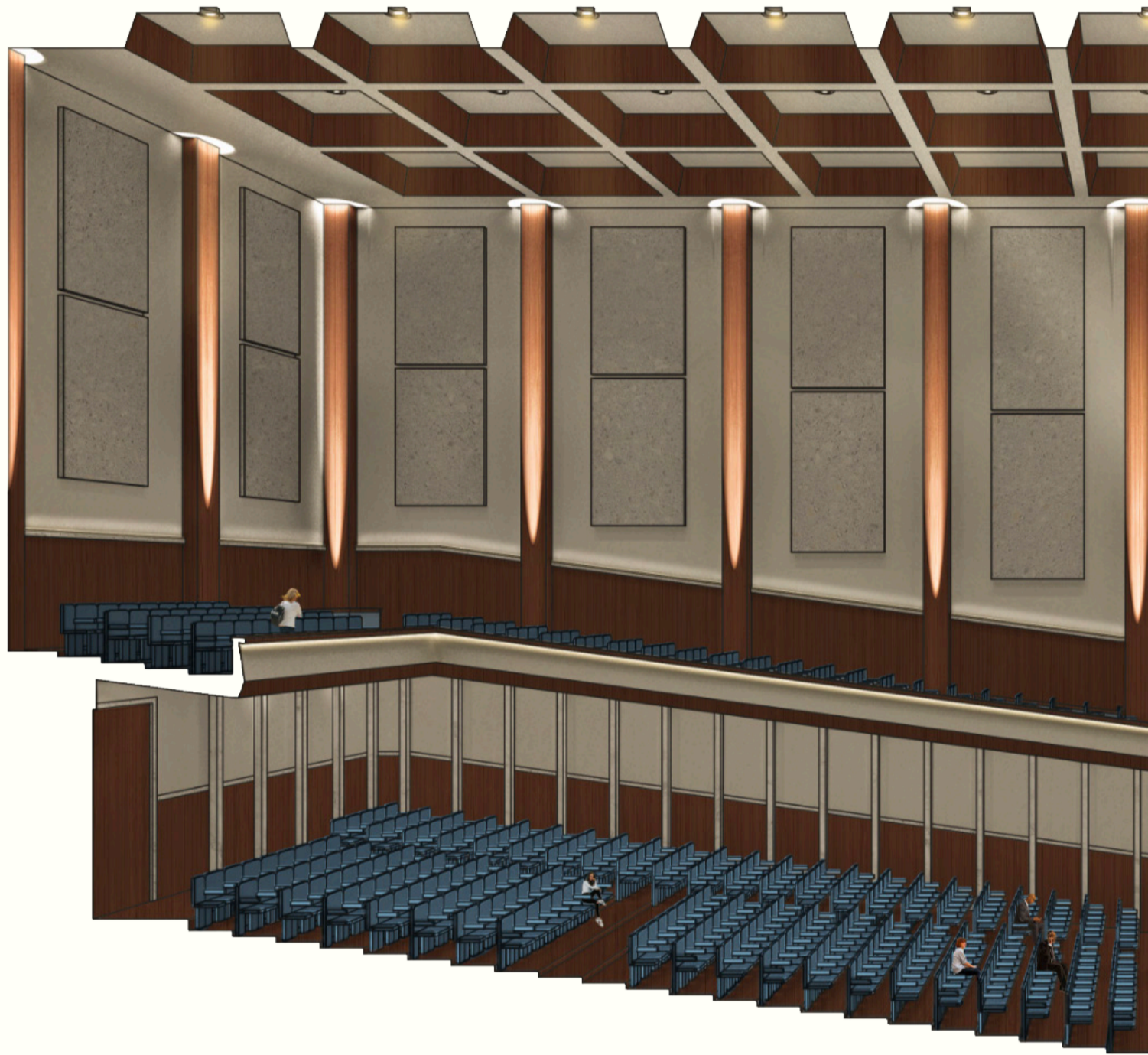
Installations



Winter



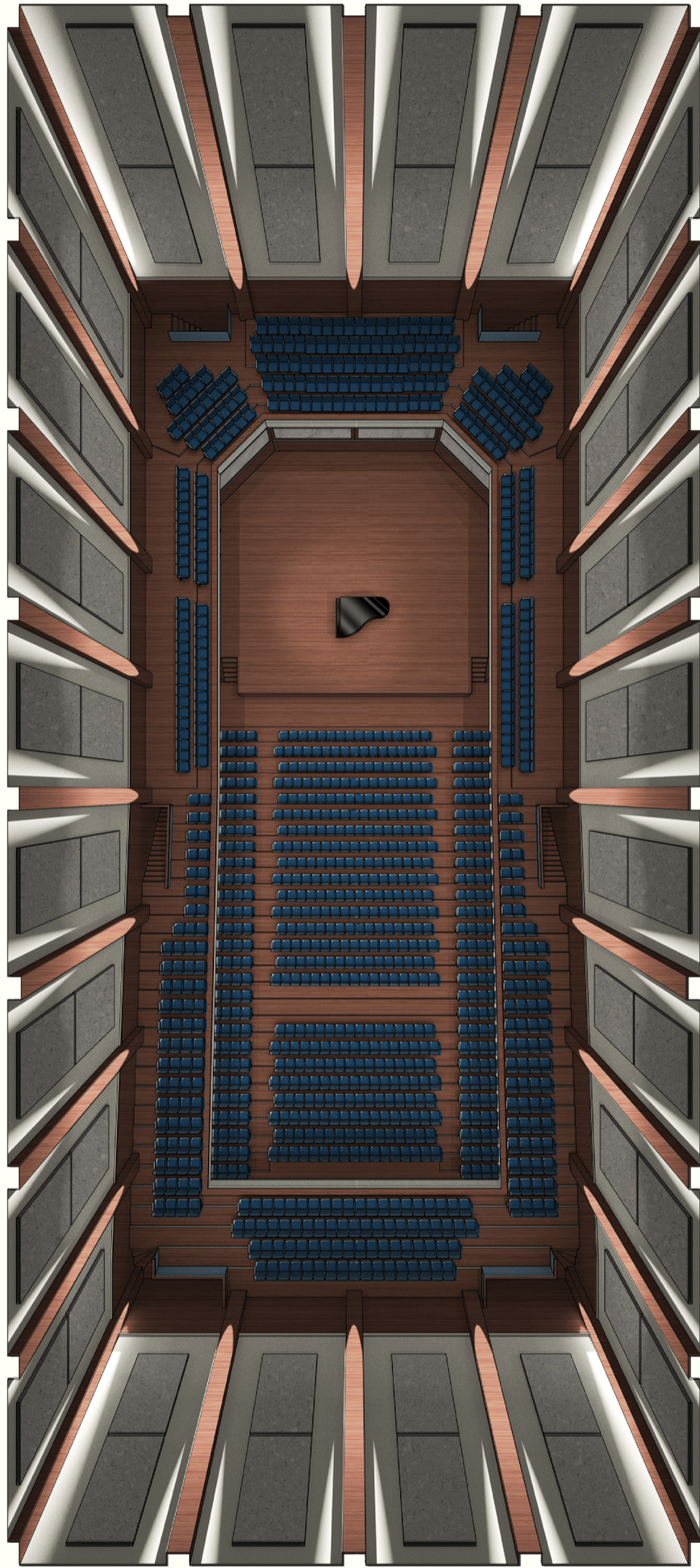
Summer



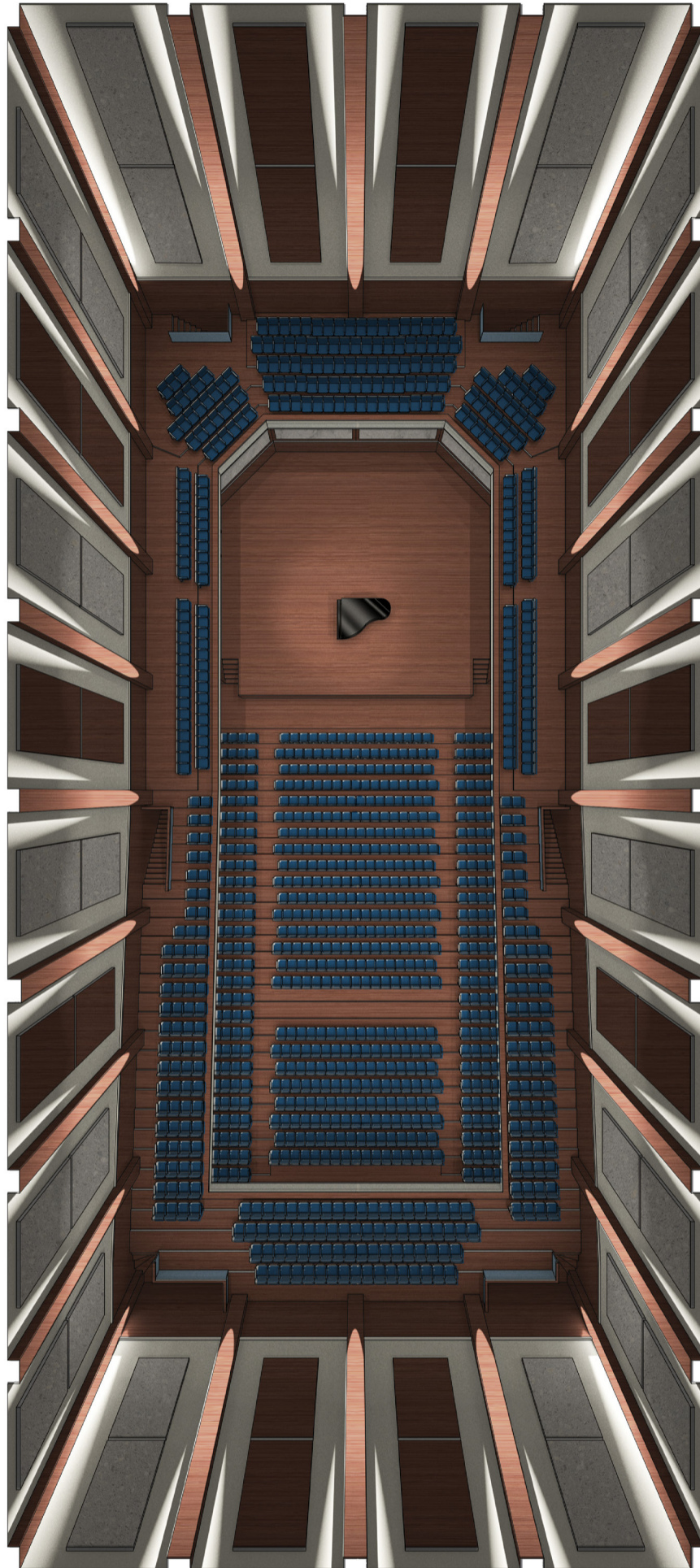
Perspective
'Conce'



ve section
ert hall'



Top view
'concrete panels'



Top view
'wooden panels'



Public axis
'Colonnades'



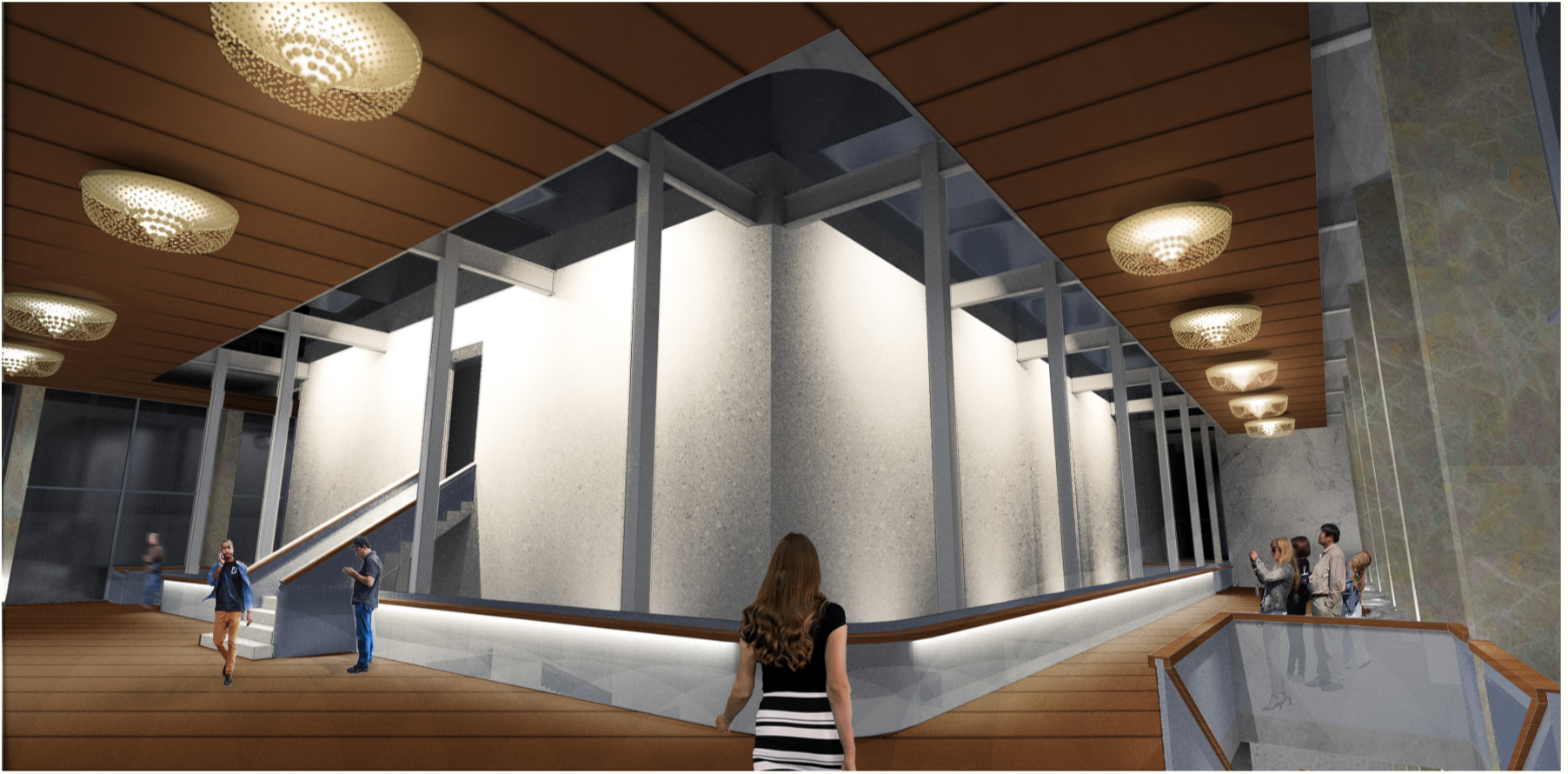
De Doelenplein
'The entrance'



Lobby
'First impression'



Foyer
'World within a world'



U-plateau first encounter
'Focal point'



Concert hall
'The climax'



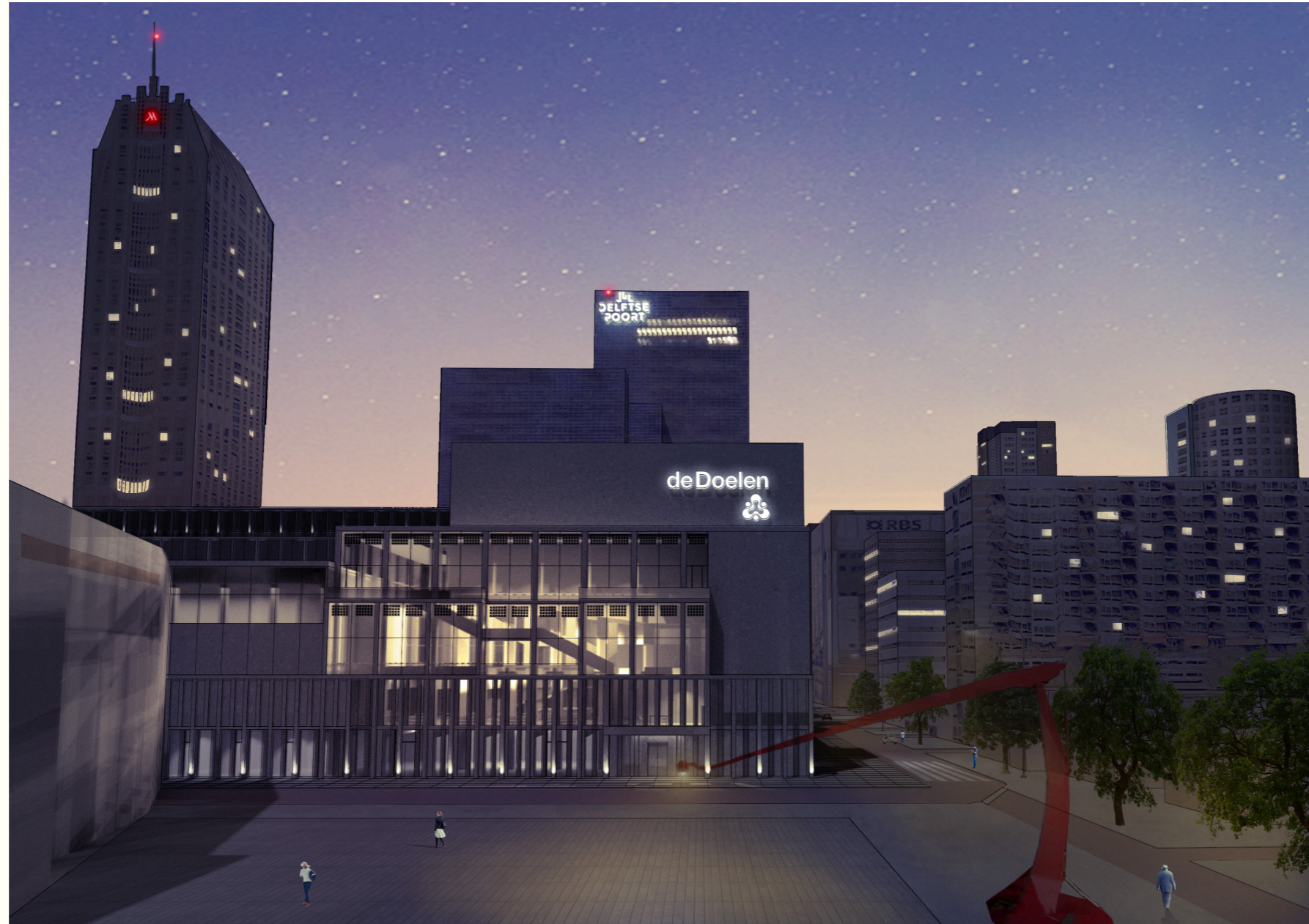
U-plateau foyer
'After concert'



Bar
'Private spaces'



Exit
'Outside again'



Schouwburgplein
'Retrospect'

[The End]