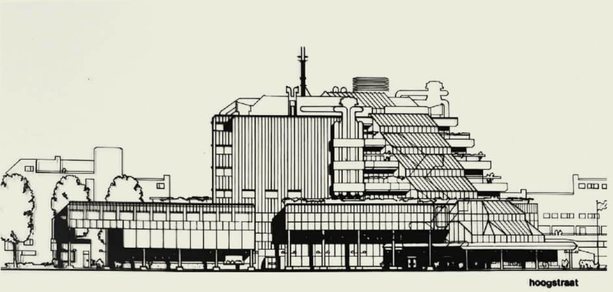


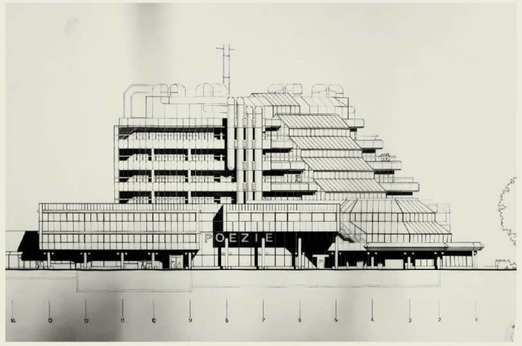
de nieuwe bibliotheek

Stand van zaken DO - wethouderpresentatie
19 September 2024

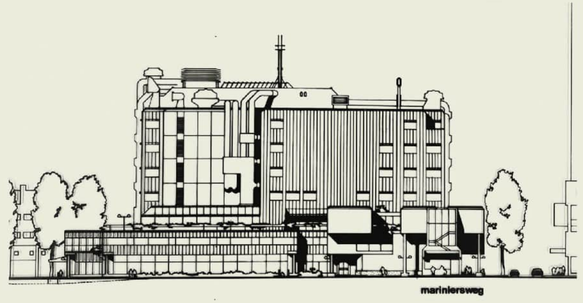
centrale bibliotheek rotterdam

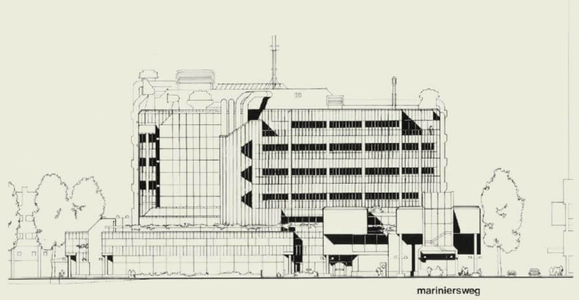

hoogstraat

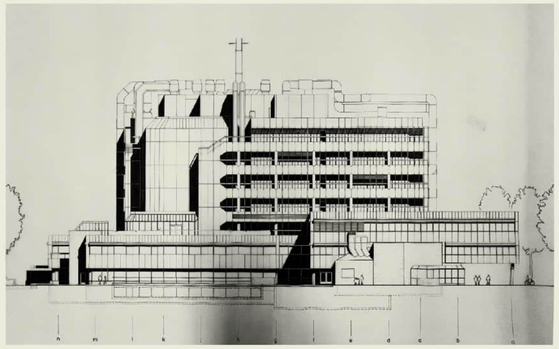

BOEKENWEEK
hoogstraat

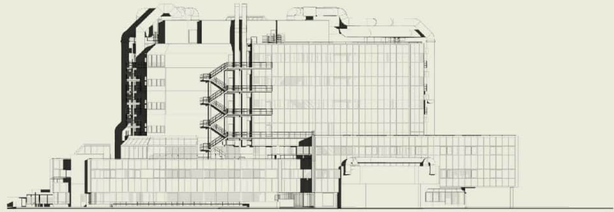

POEZIE

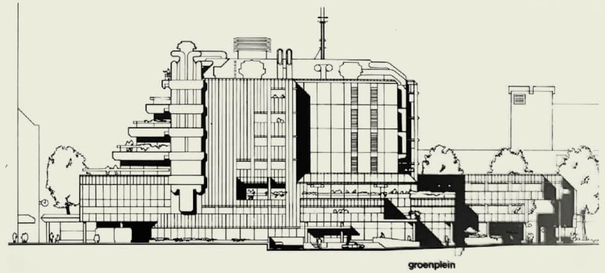


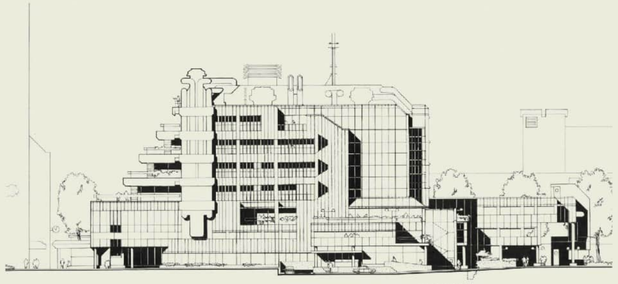

marniersweg

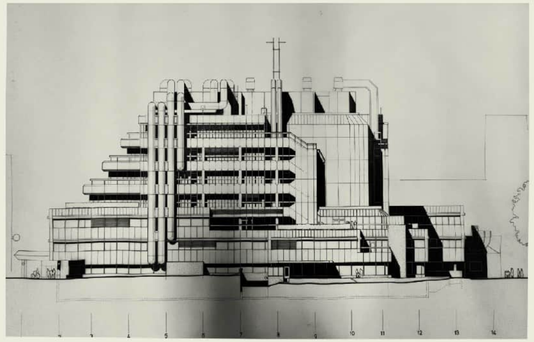

marniersweg

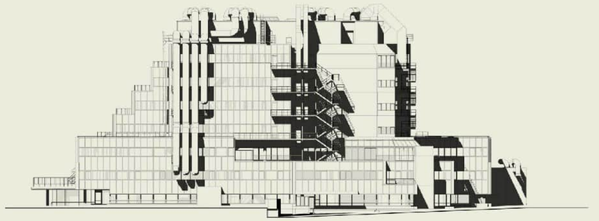


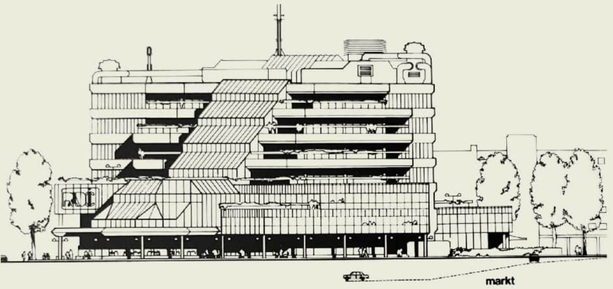


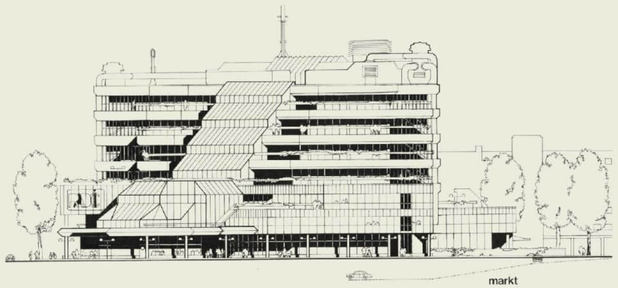

groenplein

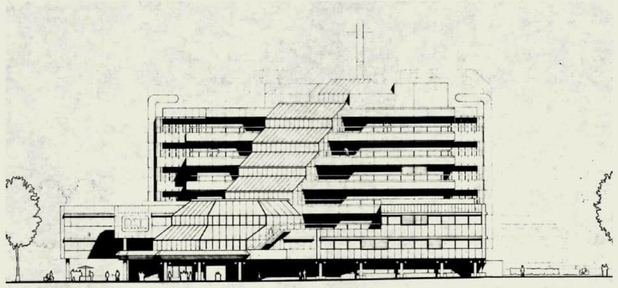

groenplein

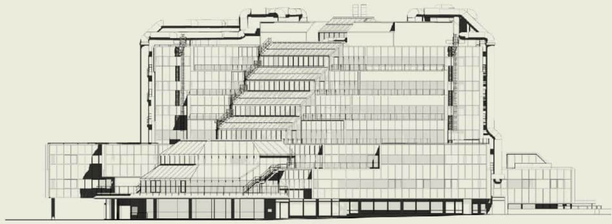


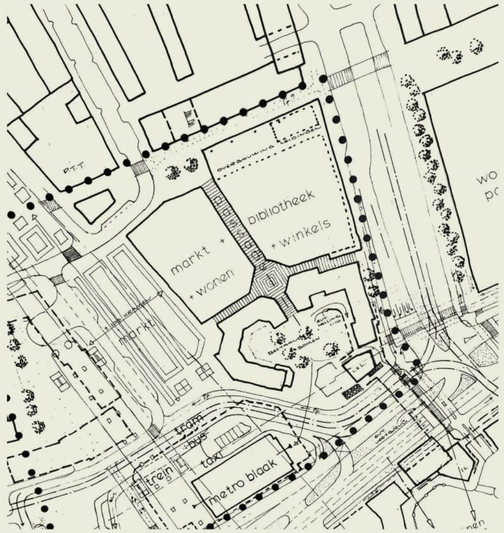



markt

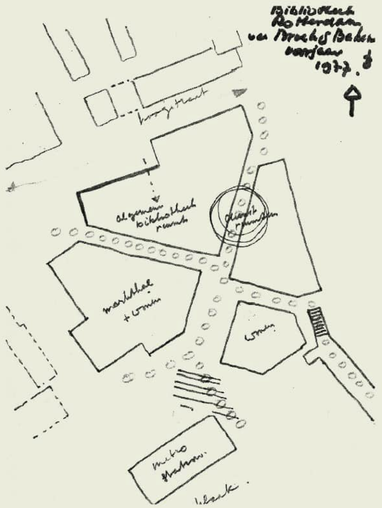

markt







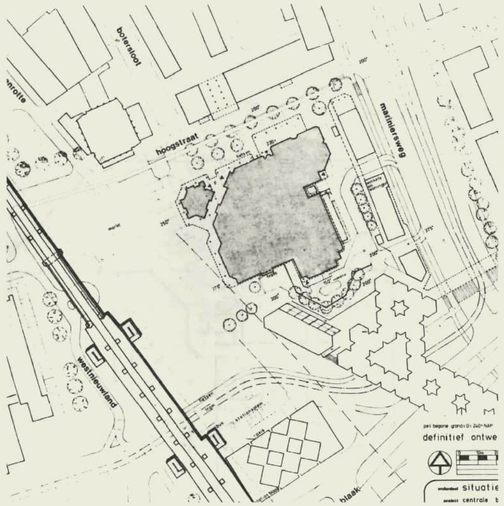
Situation before 1977



Bakema's sketch
1977



Competition proposal
15 may 1977

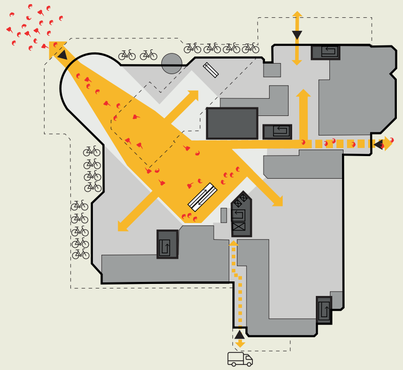


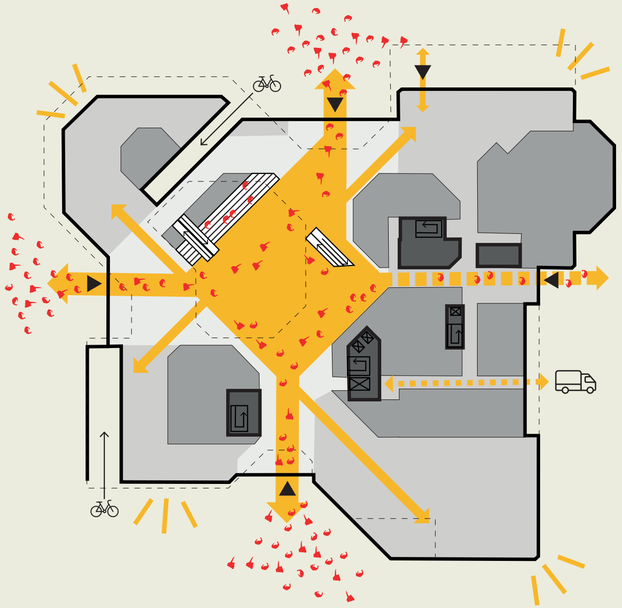
Definitief Ontwerp
31 july 1979

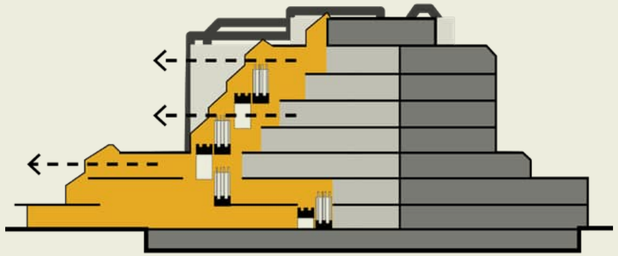


Current situation

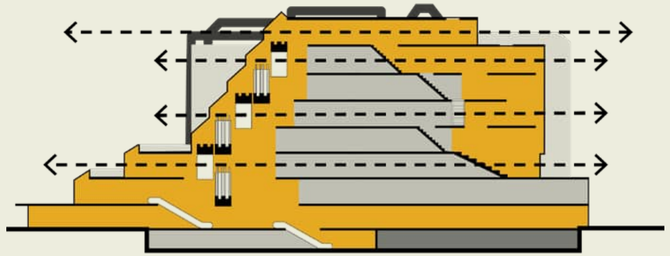




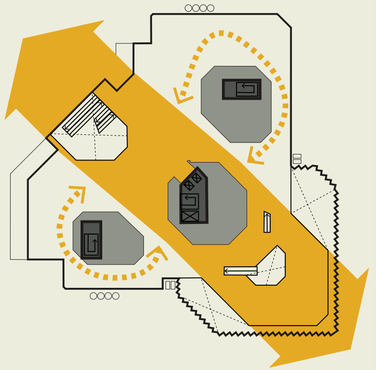




1. Huidige situatie met het atrium onder de waterval



2. Het bestaande atrium wordt opener en een tweede atrium wordt toegevoegd

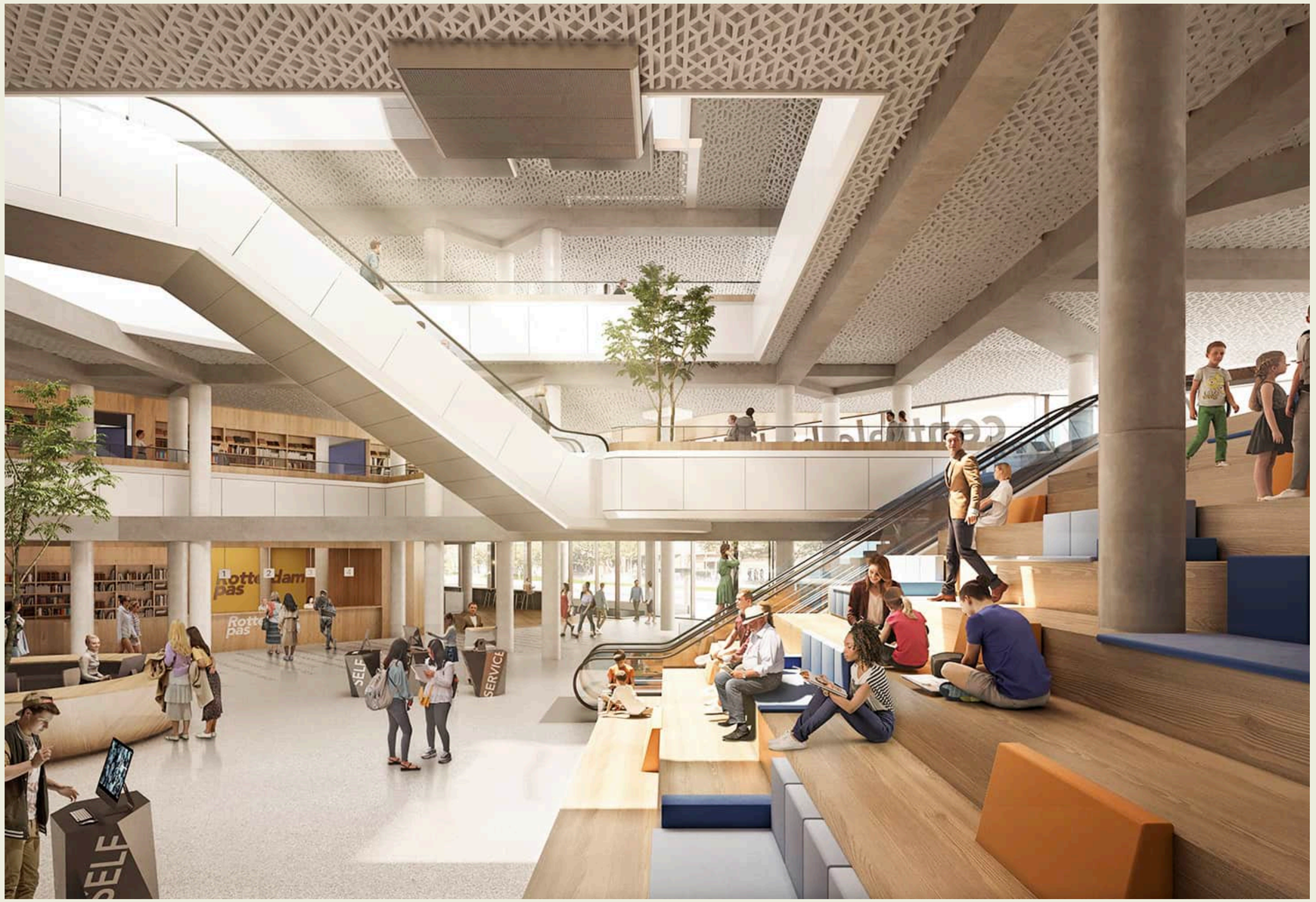


3. De diagonale as wordt versterkt


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plint

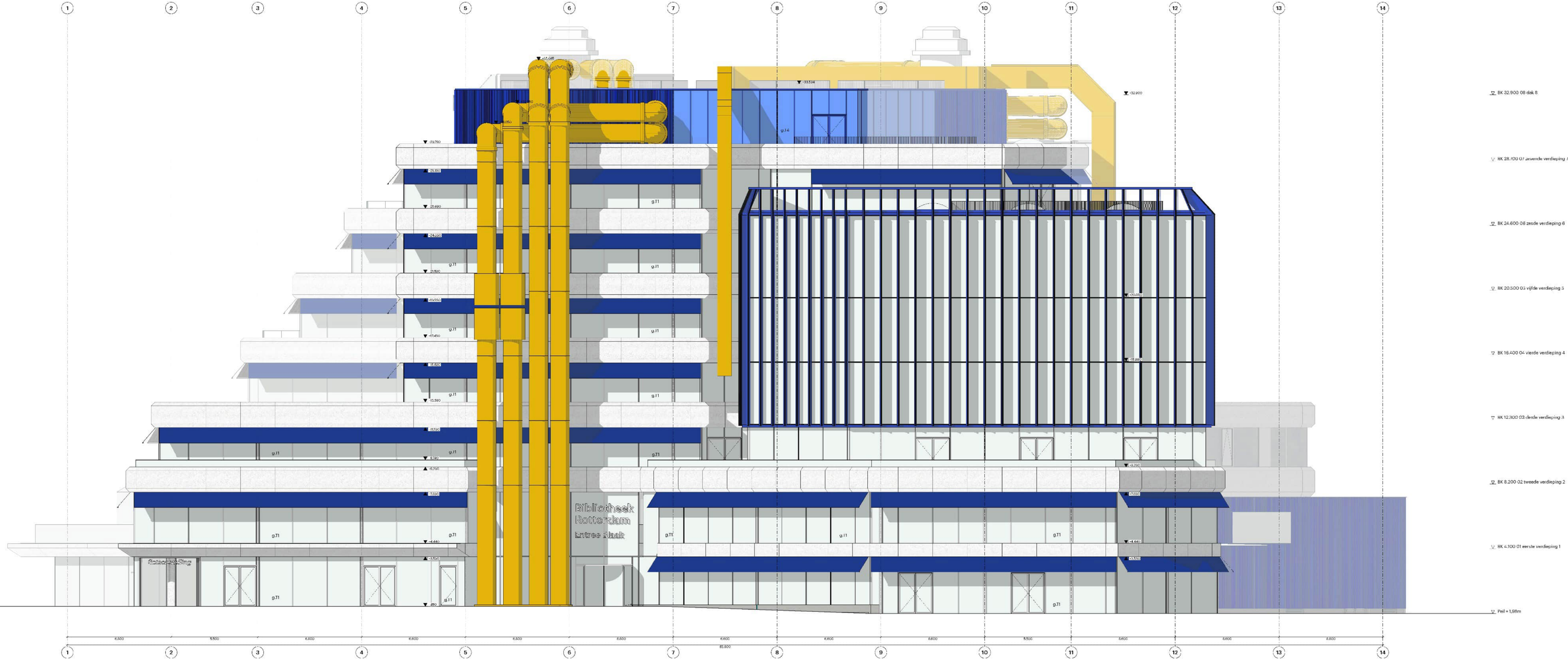

UP COFFEE
ROTTERDAM
MAKE IT
HAPPEN

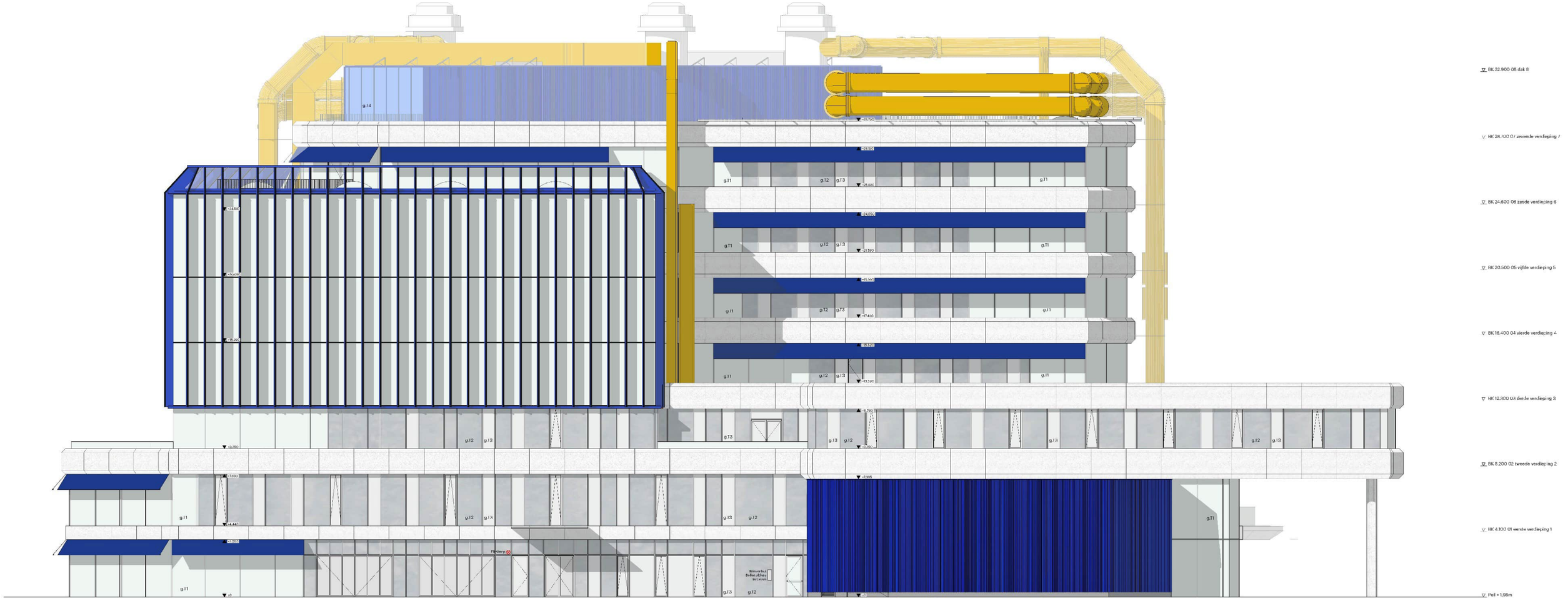


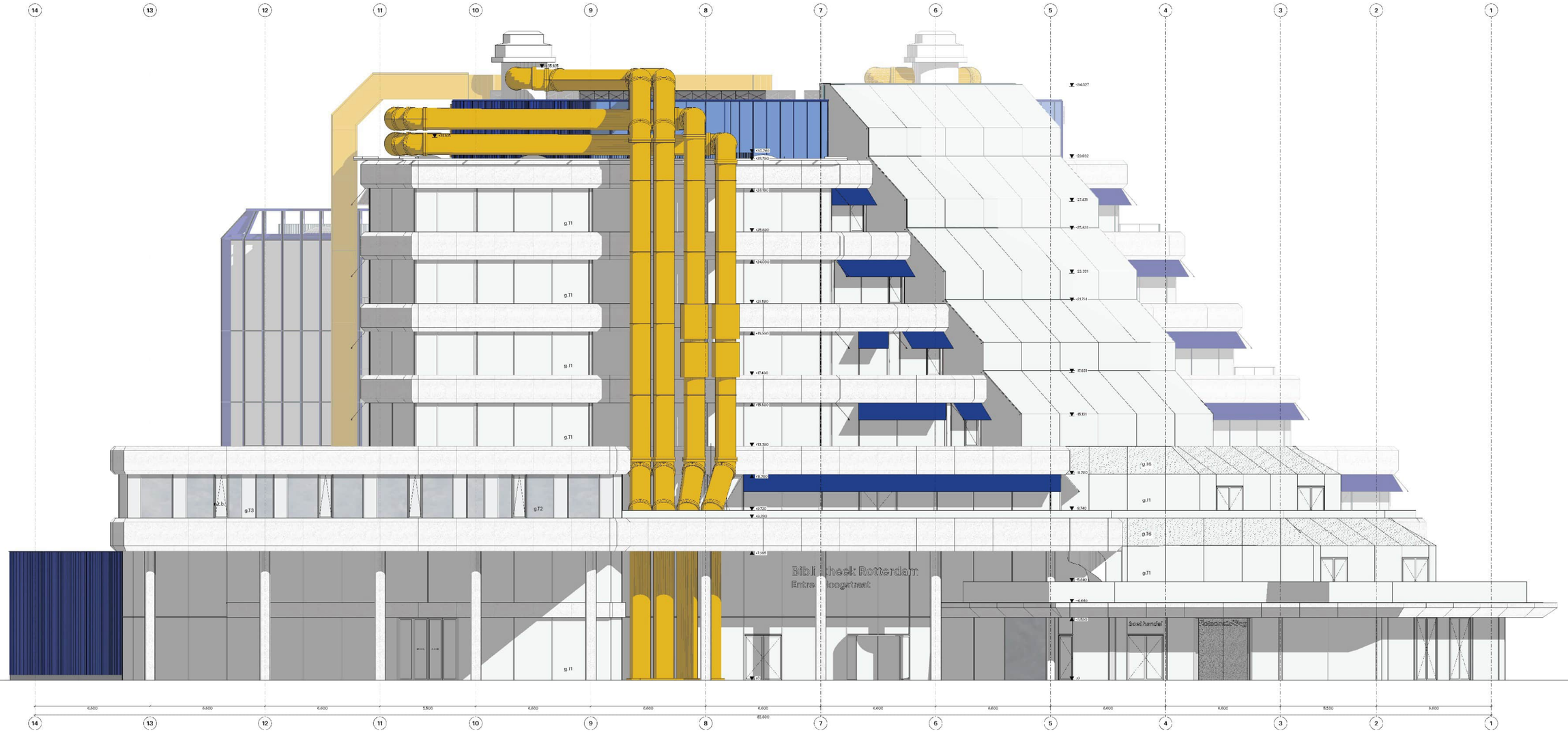
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Heel de aarde is je vaderland
Bibliotheek Rotterdam
Entree Markt
BREITLING
eneco
Rufolo
SURF LOCH
O'NEILL


Heel de aarde is je vaderland
Bibliotheek Rotterdam
Entree Markt


1
2
3
4
5
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7
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9
10
11
12
13
14
Bibliotheek
Rotterdam
Entree Kiosk
BK 32.900 08 dak 8
BK 28.700 07 zevende verdieping 7
BK 24.600 06 zesde verdieping 6
BK 20.500 05 vijfde verdieping 5
BK 16.400 04 vierde verdieping 4
BK 12.300 03 derde verdieping 3
BK 8.200 02 tweede verdieping 2
BK 4.100 01 eerste verdieping 1
Peil = 1,98m


BK 32.900 08 dak 8
BK 28.700 07 zevende verdieping 7
BK 24.600 06 zesde verdieping 6
BK 20.500 05 vijfde verdieping 5
BK 16.400 04 vierde verdieping 4
BK 12.300 03 derde verdieping 3
BK 8.200 02 tweede verdieping 2
BK 4.100 01 eerste verdieping 1
Peil = 1,98m


14
13
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BK 32.900 08 dak 8
BK 28.700 07 zevende verdieping 7
BK 24.600 06 zesde verdieping 6
BK 20.500 05 vijfde verdieping 5
BK 16.400 04 vierde verdieping 4
BK 12.300 03 derde verdieping 3
BK 8.200 02 tweede verdieping 2
BK 4.100 01 eerste verdieping 1
Peil = 1,98m
g.T1
g.T2
g.T3
g.I1
g.I6
g.T6
Bibliotheek Rotterdam
Entree hoogtrast
boekhandel
6.600
5.500
65.900

Watervalgevel



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Beeld van binnen naar buiten - huidige situatie.



Beeld van binnen naar buiten - ontwerp

- Render waterval-> ligger eruit

Watervalgevel

- De vraag is om een 3-deling ipv 5-deling te maken.
- Deze glasconstructie is uniek in Nederland. Het ontwerp is ambitieus maar tevens maakbaar en betaalbaar. In samenwerking met een marktpartij hebben een optimum uitgewerkt. Wel een 5-deling maar ook een bijzonder transparant ontwerp.
- Een 3-deling is bijzonder kostbaar, risicovol. Het glas zal in dat geval dikker moeten worden uitgevoerd en minder transparant zijn.

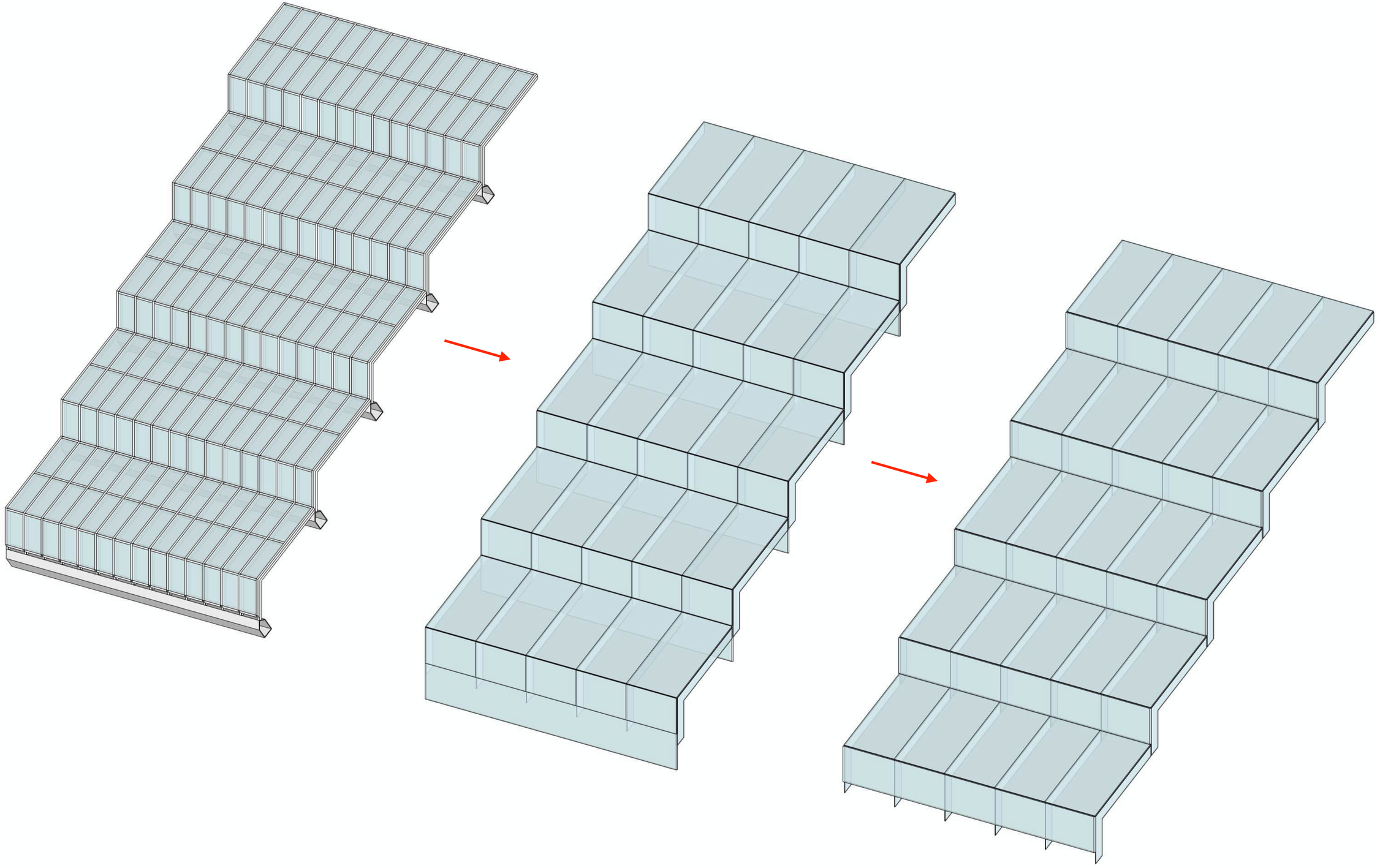


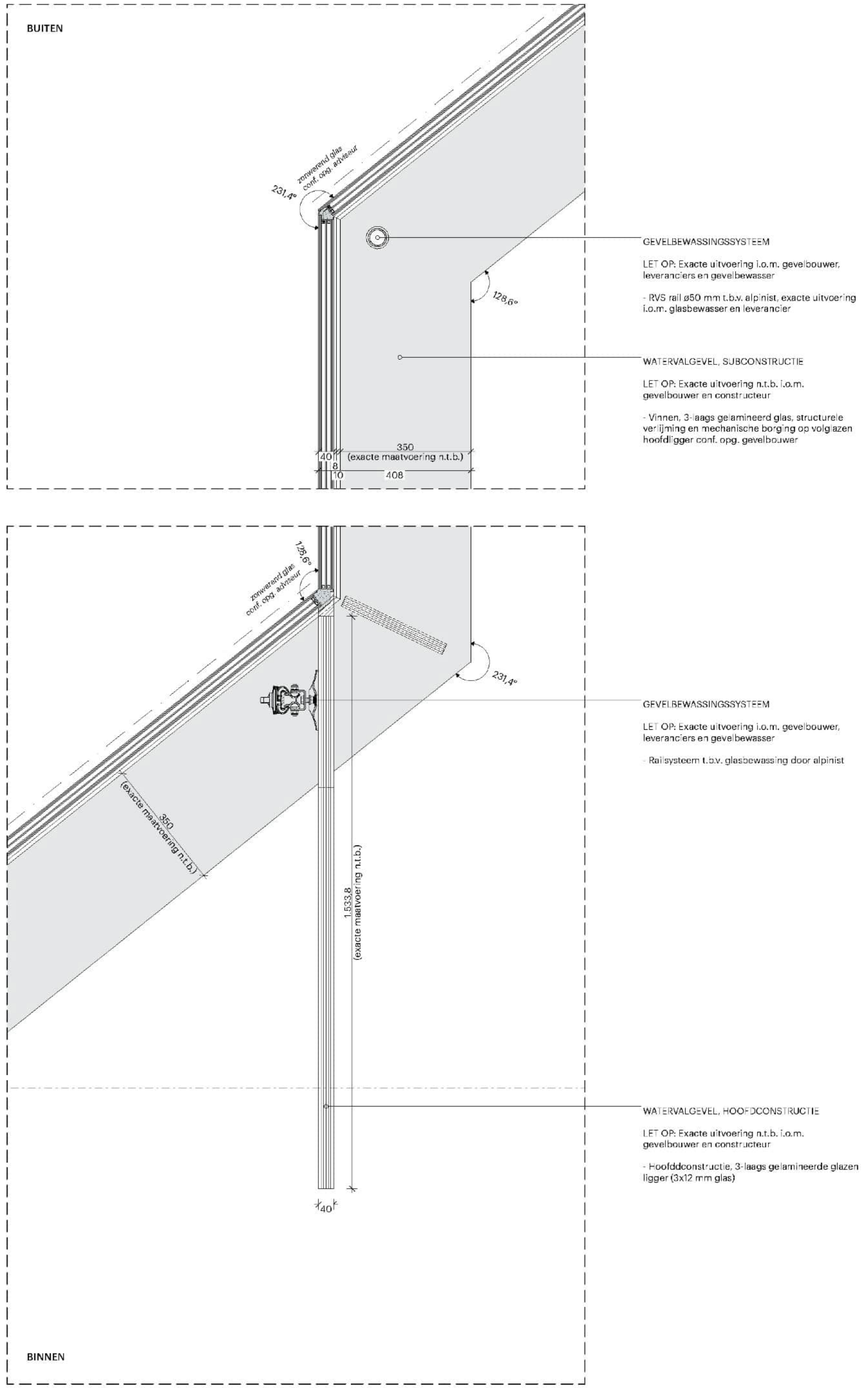
Watervalgevel

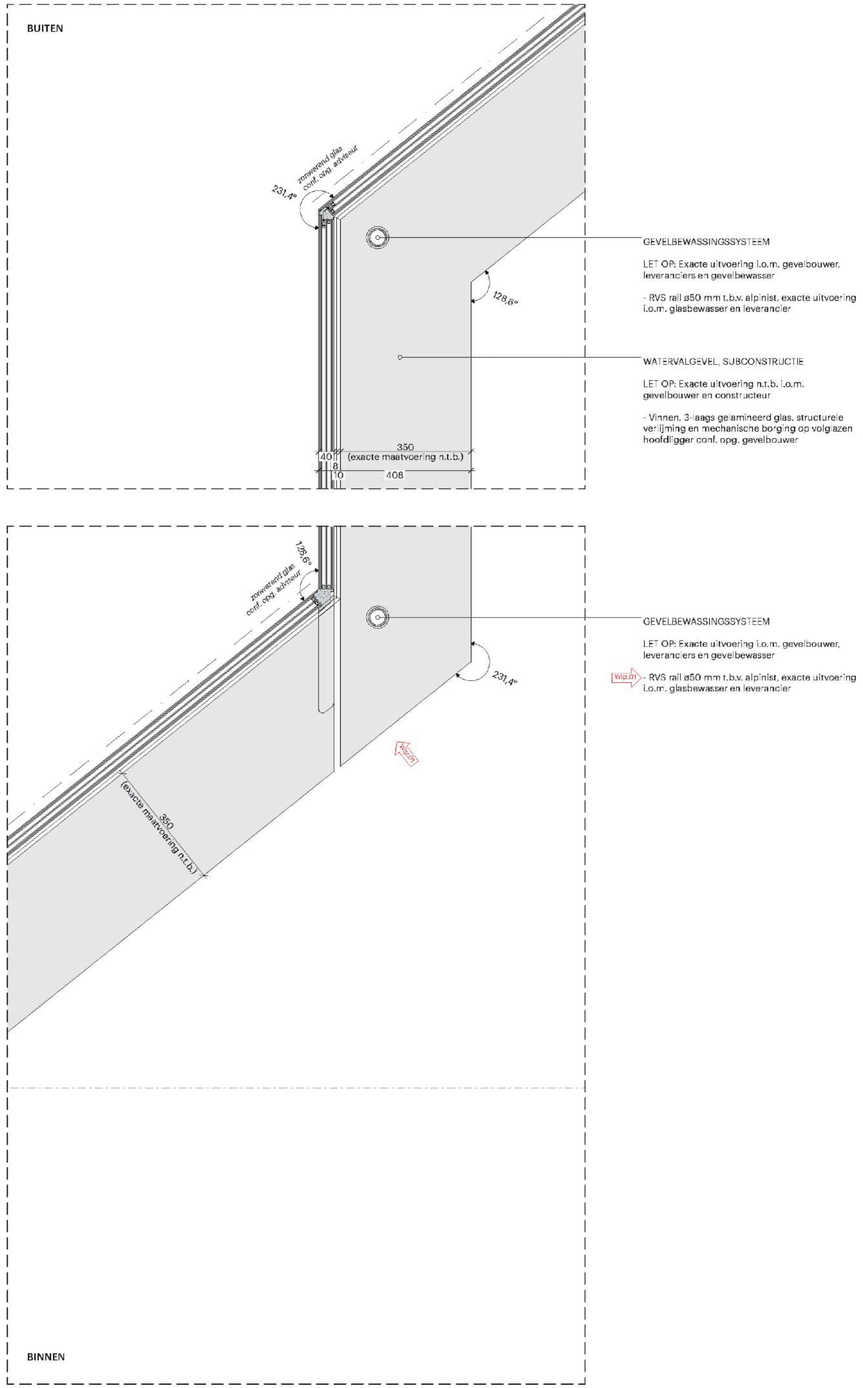


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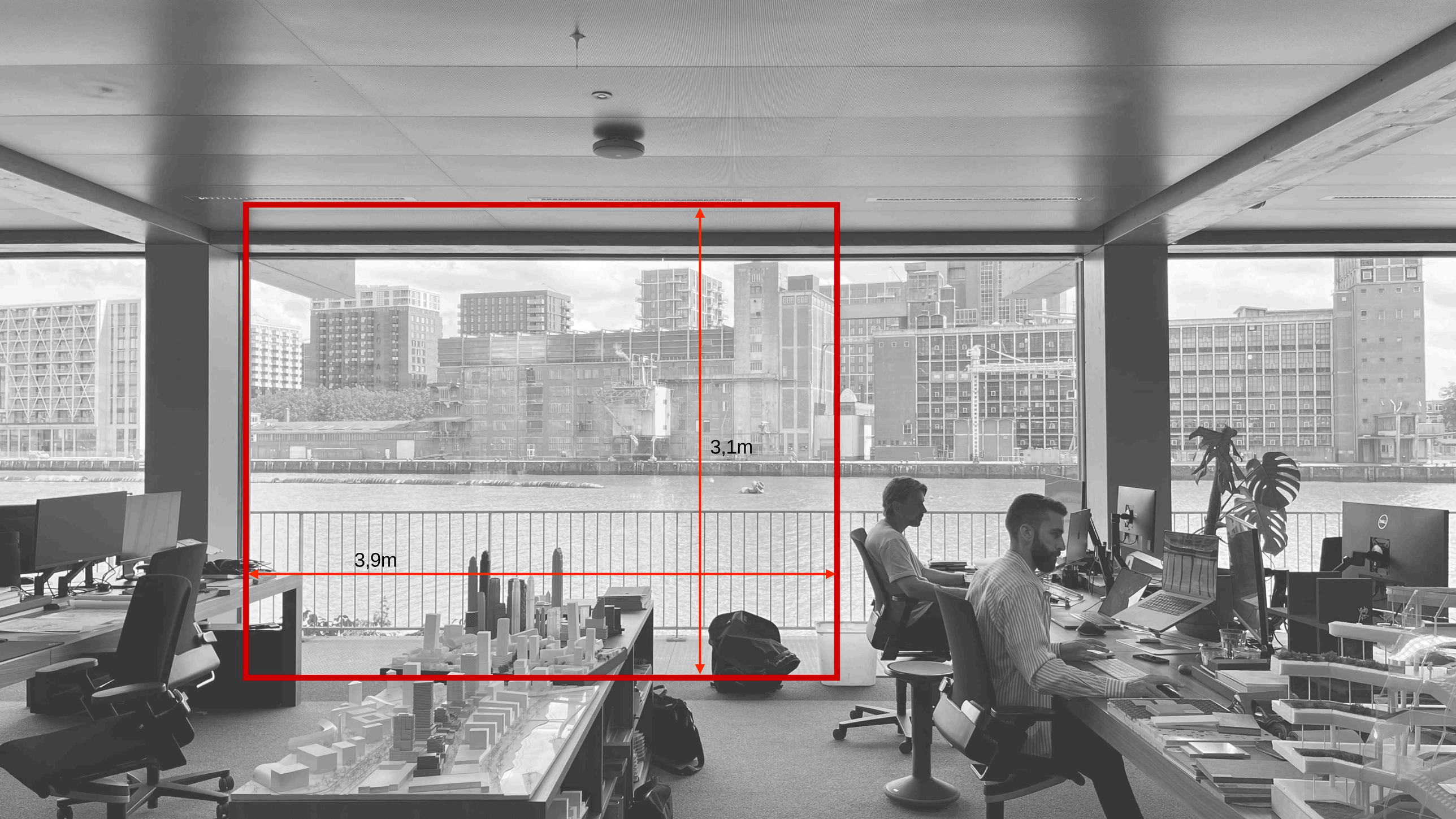





BUITEN
zonwerend glas
conf. opg. adviseur
231,4°
128,6°
350
(exacte maatvoering n.t.b.)
40
8
10
408
GEVELBEWASSINGSSYSTEEM
LET OP: Exacte uitvoering i.o.m. gevelbouwer, leveranciers en gevelbewasser
- RVS rail ø50 mm t.b.v. alpinist, exacte uitvoering i.o.m. glasbewasser en leverancier
WATERVALGEVEL, SUBCONSTRUCTIE
LET OP: Exacte uitvoering n.t.b. i.o.m. gevelbouwer en constructeur
- Vinnen, 3-laags gelamineerd glas, structurele verlijming en mechanische borging op volglazen hoofdligger conf. opg. gevelbouwer
BINNEN
zonwerend glas
conf. opg. adviseur
135,6°
231,4°
GEVELBEWASSINGSSYSTEEM
LET OP: Exacte uitvoering i.o.m. gevelbouwer, leveranciers en gevelbewasser
- Railsysteem t.b.v. glasbewassing door alpinist
350
(exacte maatvoering n.t.b.)
1.533,8
(exacte maatvoering n.t.b.)
40
WATERVALGEVEL, HOOFDCONSTRUCTIE
LET OP: Exacte uitvoering n.t.b. i.o.m. gevelbouwer en constructeur
- Hoofddconstructie, 3-laags gelamineerde glazen ligger (3x12 mm glas)

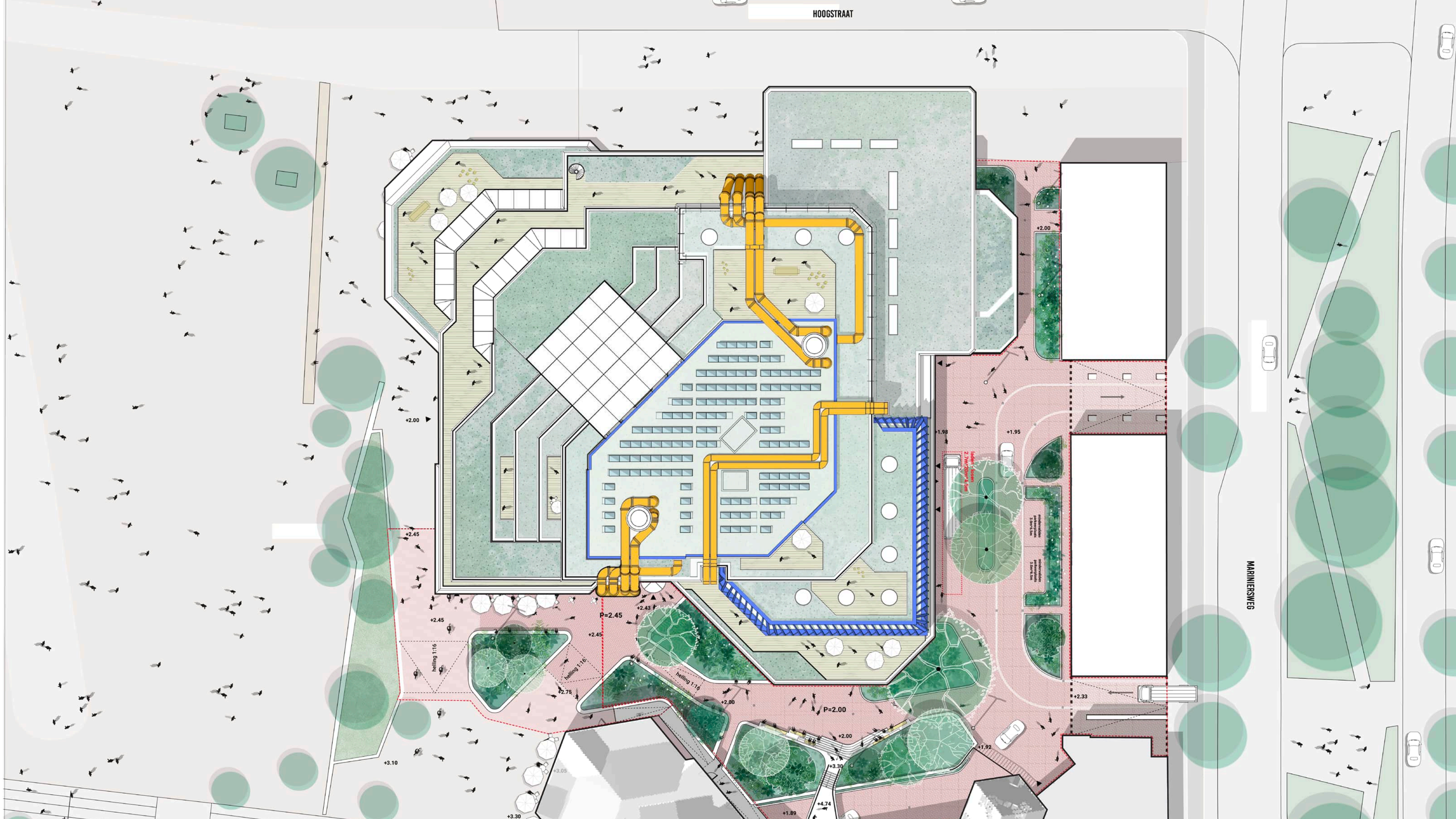

BUITEN
zonwerend glas
conf. opg. adviseur
231,4°
128,6°
350
(exacte maatvoering n.t.b.)
40
8
10
408
GEVELBEWASSINGSSYSTEEM
LET OP: Exacte uitvoering i.o.m. gevelbouwer, leveranciers en gevelbewasser
- RVS rail ø50 mm t.b.v. alpinist, exacte uitvoering i.o.m. glasbewasser en leverancier
WATERVALGEVEL, SUBCONSTRUCTIE
LET OP: Exacte uitvoering n.t.b. i.o.m. gevelbouwer en constructeur
- Vinnen, 3-laags gelamineerd glas, structurele verlijming en mechanische borging op volglazen hoofdligger conf. opg. gevelbouwer
BINNEN
zonwerend glas
conf. opg. adviseur
135,6°
231,4°
GEVELBEWASSINGSSYSTEEM
LET OP: Exacte uitvoering i.o.m. gevelbouwer, leveranciers en gevelbewasser
Wijzi01
- RVS rail ø50 mm t.b.v. alpinist, exacte uitvoering i.o.m. glasbewasser en leverancier
350
(exacte maatvoering n.t.b.)
Wijzi01


octatube
SERVICES
octatube
VHV-47-B
HULCO
55-WX-XZ

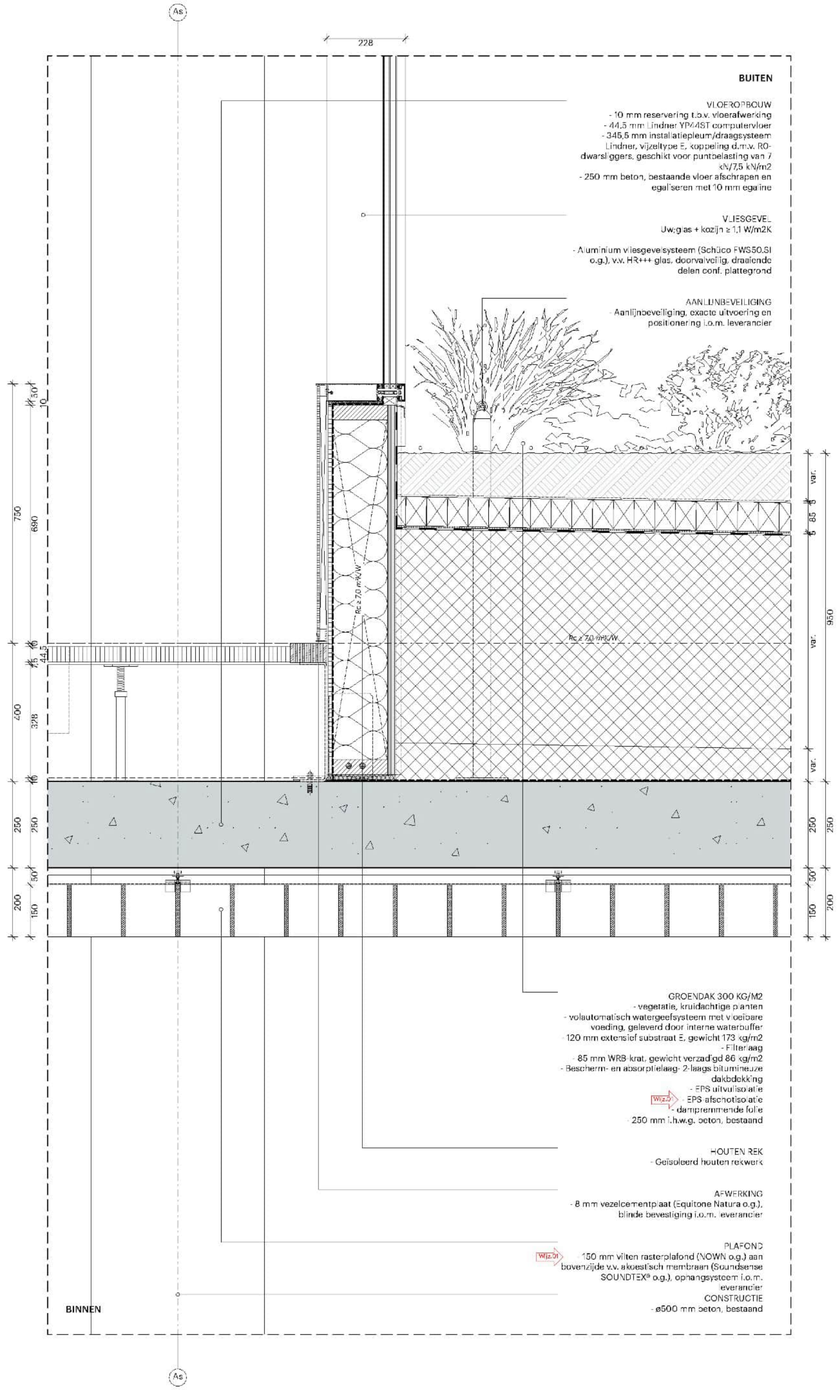

3,1m
3,9m

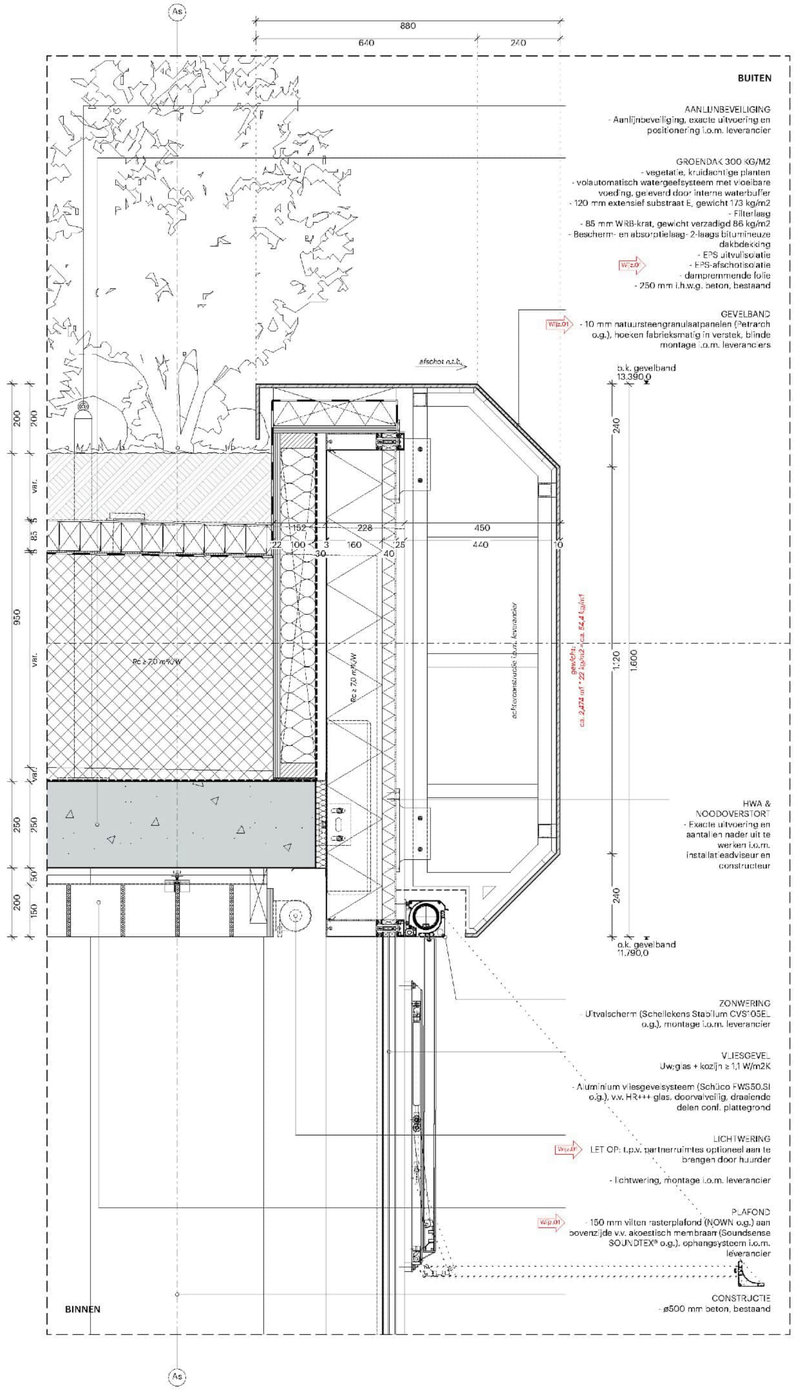

15m
1,5m

Gevelbanden


HOOGSTRAAT
MARINIERSWEG
+2.00
+2.45
+2.43
P=2.45
helling 1:16
+2.75
+2.00
P=2.00
+3.10
+3.05
+3.30
+4.74
+1.89
+1.98
+1.95
+2.33
+1.92
+3.30
+2.00

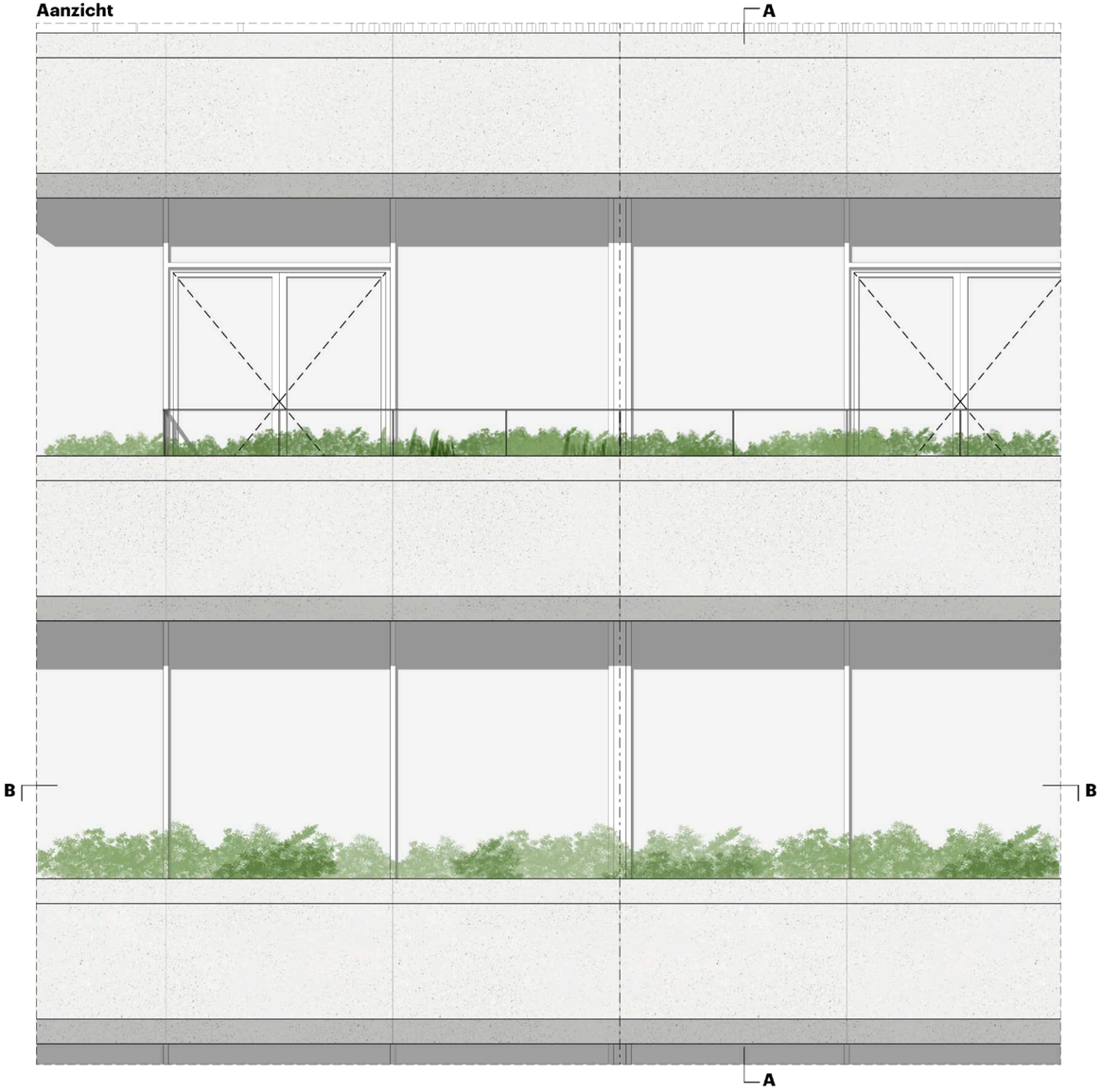



As
228
BUITEN
VLOERCONSTRUCTIE
- 10 mm reservering t.b.v. vloerafwerking
- 44,5 mm Lindner YPVAST computervloer
- 345,5 mm installatieplenum/draagsysteem Lindner, vijzeltype E, koppeling d.m.v. RO-dwarsliggers, geschikt voor puntbelasting van 7 kN/7,5 kN/m2
- 250 mm beton, bestaande vloer afschrapen en egaliseren met 10 mm egaline
VLIESGEVEL
Uw-glas + kozijn ≥ 1,1 W/m2K
- Aluminium vliesgevelsysteem (Schüco FWS50.SI o.g.), v.v. HR+++ glas, doorvalveilig, draaiende delen conf. plattegrond
AANLIJNBEVEILIGING
- Aanlijnbeveiliging, exacte uitvoering en positionering i.o.m. leverancier
Rc ≥ 7,0 m²K/W
Rc ≥ 7,0 m²K/W
GROENDAK 300 KG/M2
- vegetatie, kruidachtige planten
- volautomatisch watergeefsysteem met voelbare voeding, geleverd door interne waterbuffer
- 120 mm extensief substraat E, gewicht 173 kg/m2
- Filterlaag
- 85 mm WRB-krat, gewicht verzadigd 86 kg/m2
- Bescherm- en absorptielaag- 2-laags bitumineuze dakbedekking
- EPS uitvulisolatie
Wi2.3
- EPS afschotisolatie
- dampremmende folie
250 mm l.h.w.g. beton, bestaand
HOUTEN REK
- Geïsoleerd houten rekwerk
AFWERKING
- 8 mm vezelcementplaat (Equitone Natura o.g.), blinde bevestiging i.o.m. leverancier
PLAFOND
Wi2.5
150 mm vilten rasterplafond (NOWN o.g.) aan bovenzijde v.v. akoestisch membraan (Soundsense SOUNDTEX® o.g.), ophangsysteem i.o.m. leverancier
CONSTRUCTIE
- ø500 mm beton, bestaand
BINNEN
As
10
150
750
690
400
328
44,5
250
250
150
200
var.
85
var.
950
250
150
200

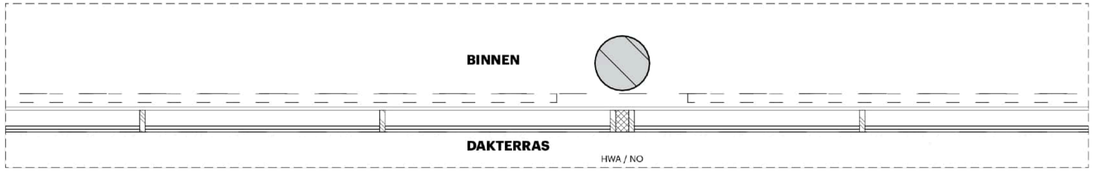

As
880
640
240
BUITEN
AANLIJNBEVEILIGING
- Aanlijnbeveiliging, exacte uitvoering en positionering i.o.m. leverancier
GROENDAK 300 KG/M2
- vegetatie, kruidachtige planten
- volautomatisch watergeefsysteem met voelbare voeding, geleverd door interne waterbuffer
- 120 mm extensief substraat E, gewicht 173 kg/m2
- Filterlaag
- 85 mm WRB-krat, gewicht verzadigd 86 kg/m2
- Bescherm- en absorptielaag- 2-laags bitumineuze dakbedekking
Wi2.3
- EPS uitvulisolatie
- EPS-afschotisolatie
- dampremmende folie
- 250 mm l.h.w.g. beton, bestaand
Wi2.01
GEVELBAND
- 10 mm natuursteengranulaatpanelen (Petrarch o.g.), hoeken fabrieksmatig in verstek, blinde montage i.o.m. leveranciers
afschot ca.2 %
o.k. gevelband
13,390.0
240
200
200
var.
85
85
var.
950
250
250
150
200
150
250
150
200
159
228
450
72
100
3
160
25
440
30
40
10
Rc ≥ 20 m²K/W
Rc ≥ 7,0 m²K/W
afhorizontaalsloot door leverancier
ca. 2,474 m² = 25 liter/min
ca. 54,4 l/s/ha
1:20
1,600
240
o.k. gevelband
11,790.0
HWA & NOODOVERSTORT
- Exacte uitvoering en aantallen nader uit te werken i.o.m. installatieadviseur en constructeur
ZONWERING
- Uitvalscherm (Schellekens Stabilum CVS'03E., o.g.), montage i.o.m. leverancier
VLIESGEVEL
Uw-glas + kozijn ≥ 1,1 W/m2K
- Aluminium vliesgevelsysteem (Schüco FWS50.SI o.g.), v.v. HR+++ glas, doorvalveilig, draaiende delen conf. plattegrond
LICHTWERING
Wi2.07
LET OP: t.p.v. pantserruimtes optioneel aan te brengen door huurder
- Tekentwerking, montage i.o.m. leverancier
PLAFOND
Wi2.05
150 mm vilten rasterplafond (NOWN o.g.) aan bovenzijde v.v. akoestisch membraan (Soundsense SOUNDTEX® o.g.), ophangsysteem i.o.m. leverancier
CONSTRUCTIE
- ø500 mm beton, bestaand
BINNEN
As



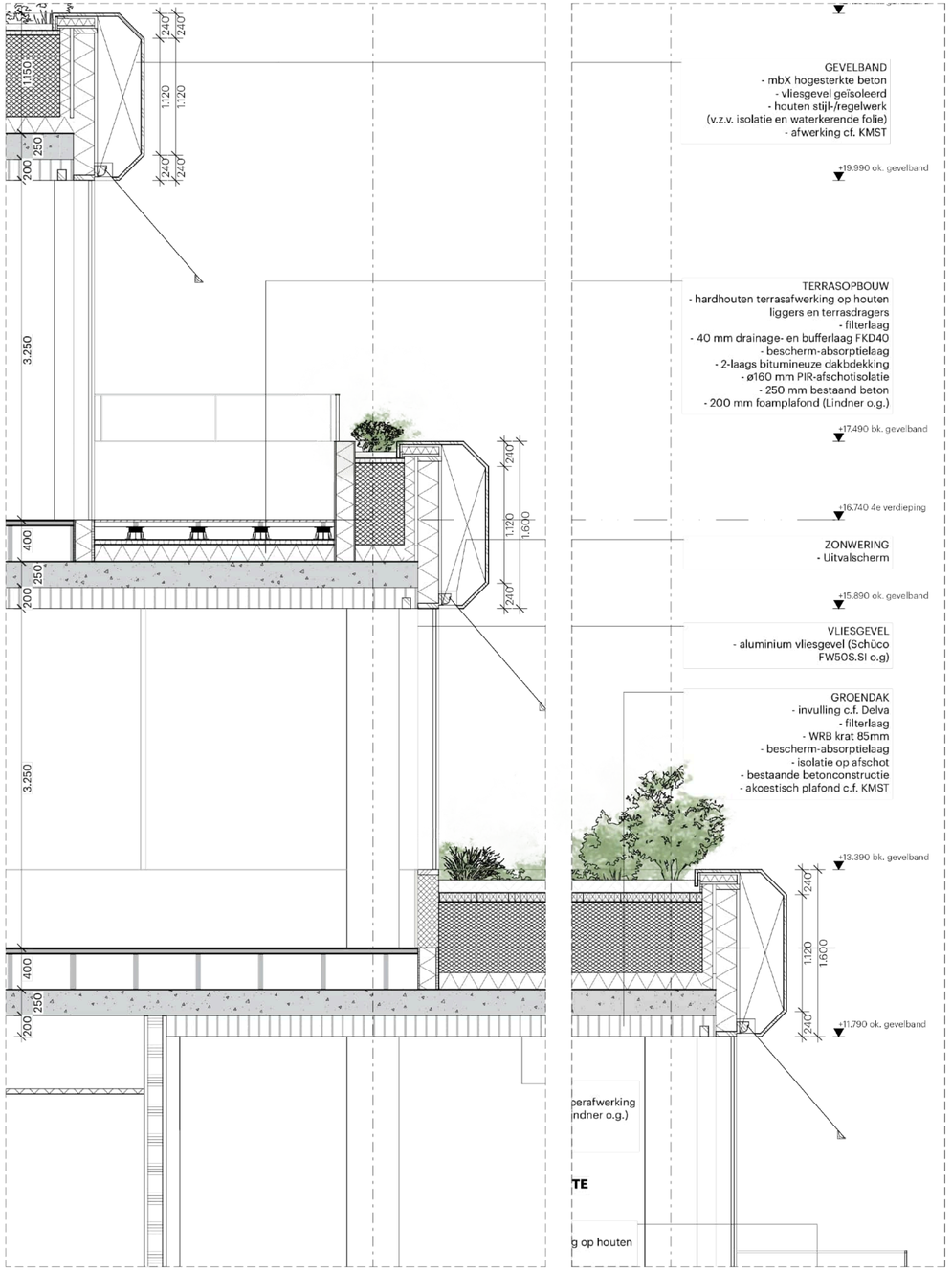
Aanzicht



Plattegrond B



Doorsnede A

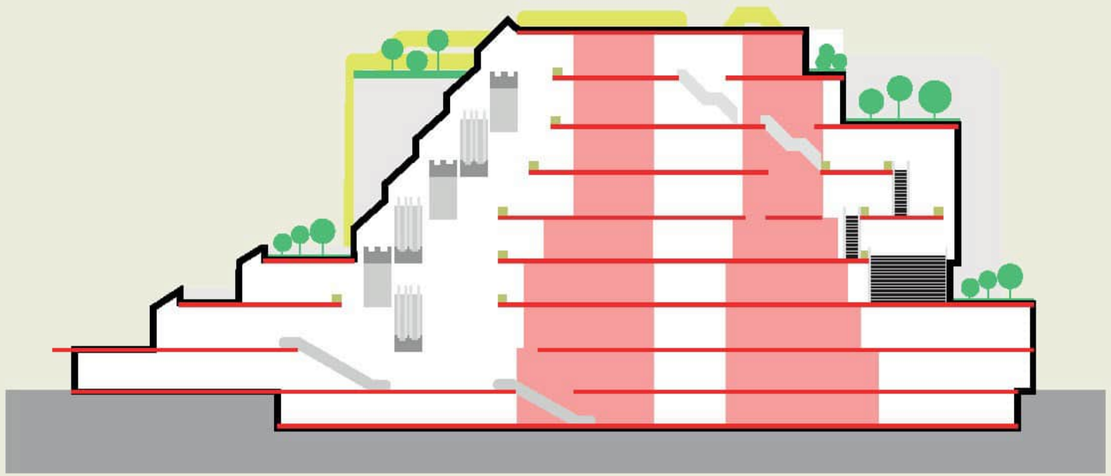




Interieur

Stadspleinen in de geest van het oorspronkelijke concept van Van den Broek en Bakema





MAIN ELEMENTS

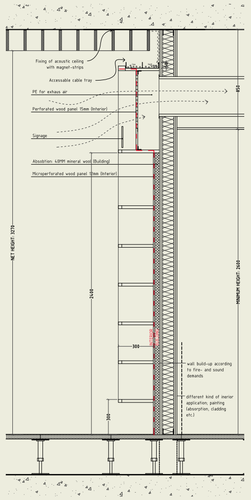
main elements like fixed shelving, floors, ceiling, and fixed furniture to be consistent throughout the library



SPECIAL AREAS

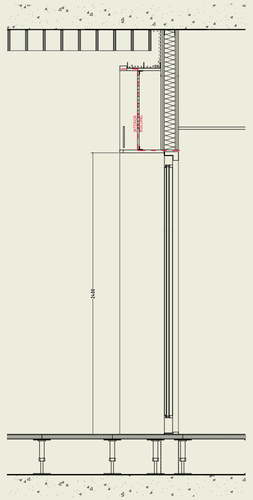
special rooms, elements, and functions to populate floors with individual identities and aesthetics





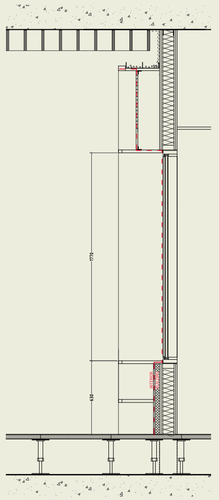
01. Standaard boekenplank



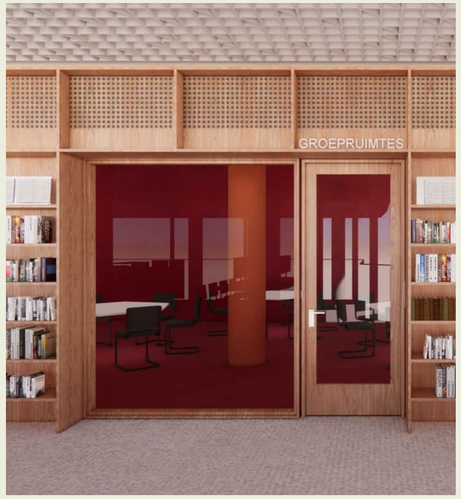


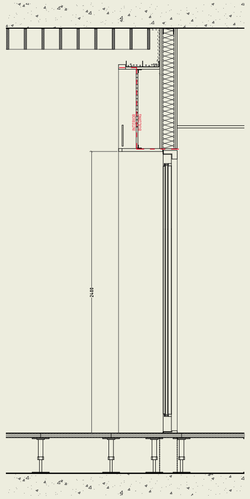
02. Deur



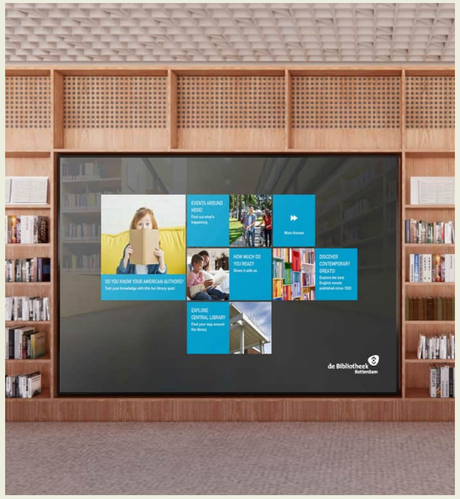


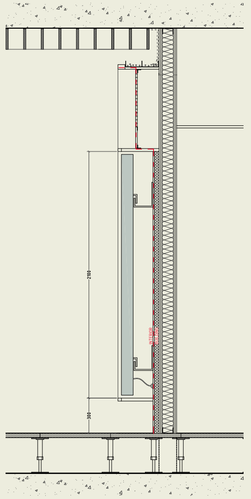
03. Venster



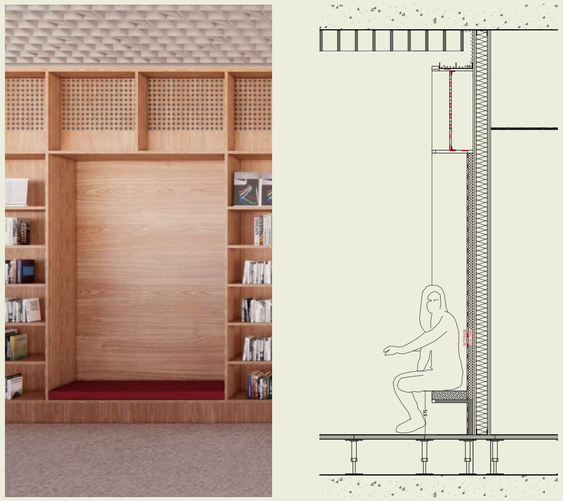


04. Deur- en raamveld

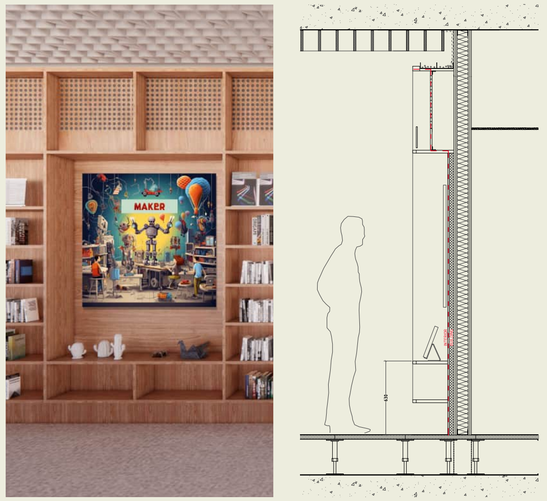




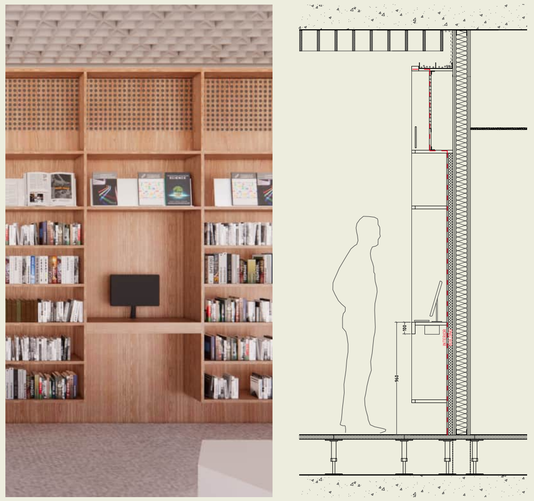
05. Info scherm



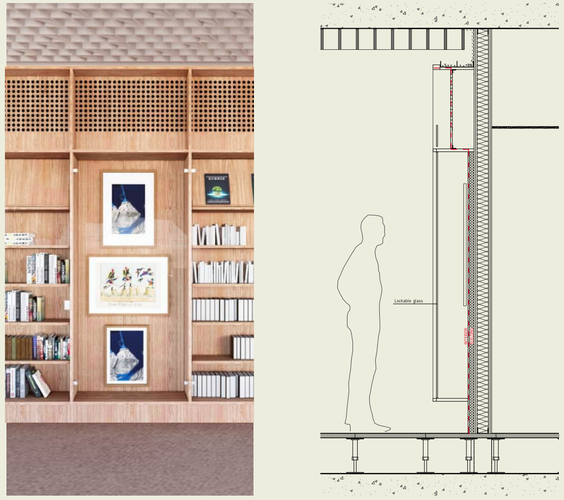
06. Zitbank



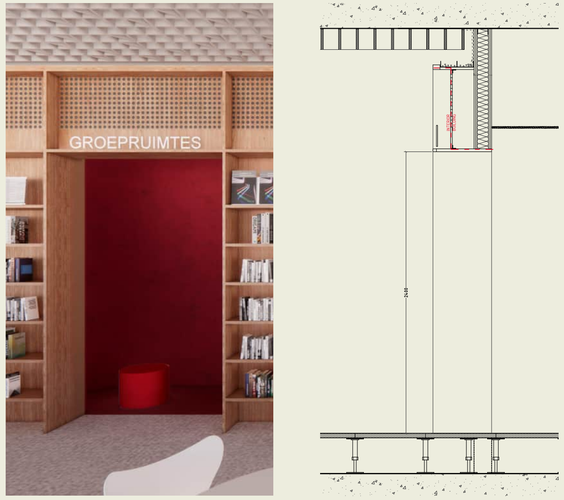
07. Niche voor tentoonstellingen



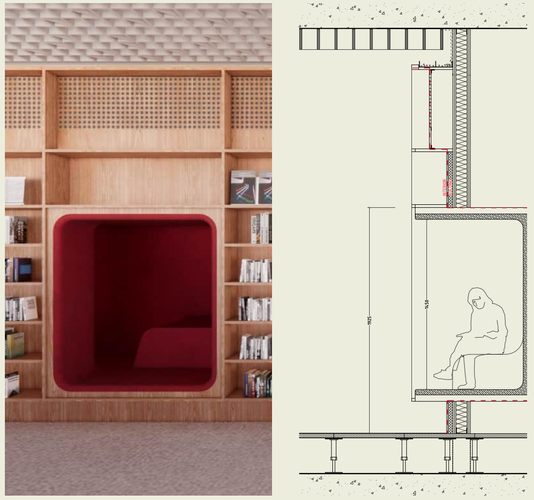
08. Zoekstation



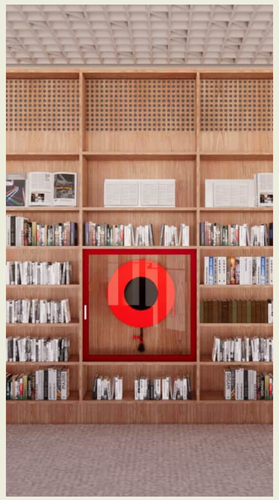
09. Expositie-nis met glas deur

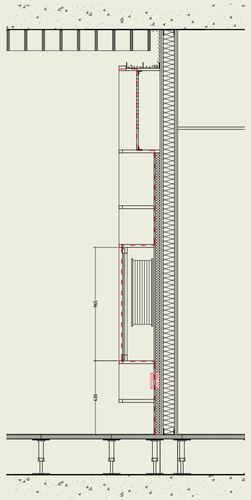


10. Niche



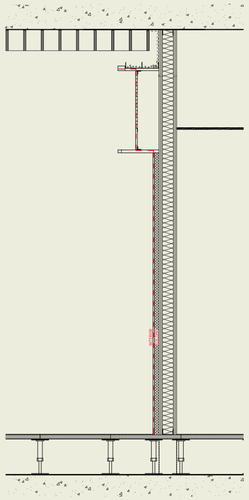
11. Zitplaats nis





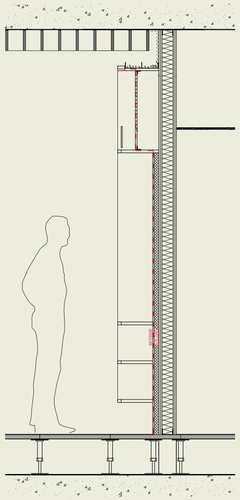
12. Brandkasten



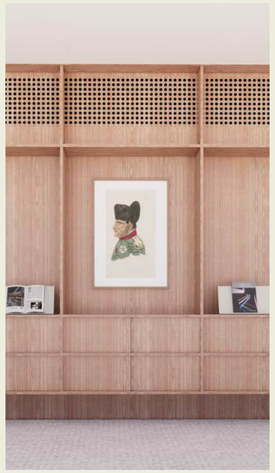


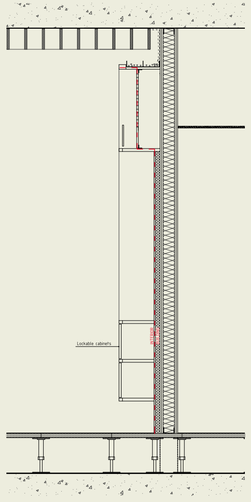
13 A. Bekledning (met plenum)





13 B. kantoorkast





13 C. kantoorkast met kastdeuren



13 D. Kantoornis / kantooropening



14 A. Bekledning



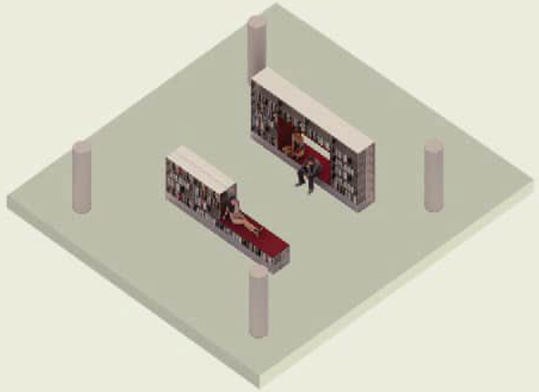
14 B. Kledning boven de deur / nis

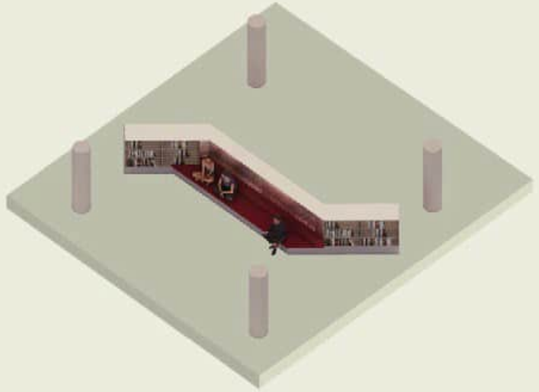


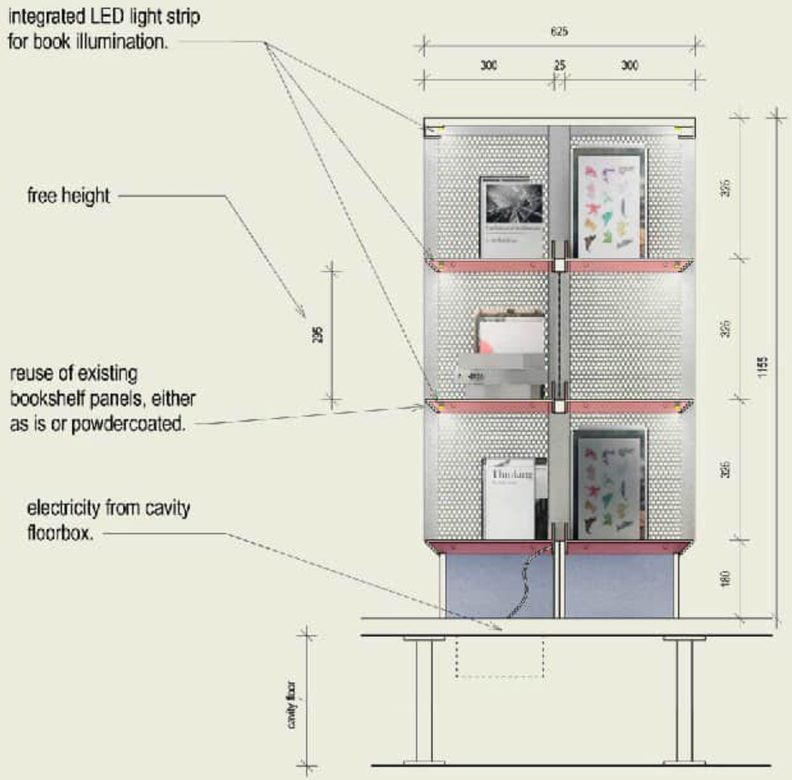


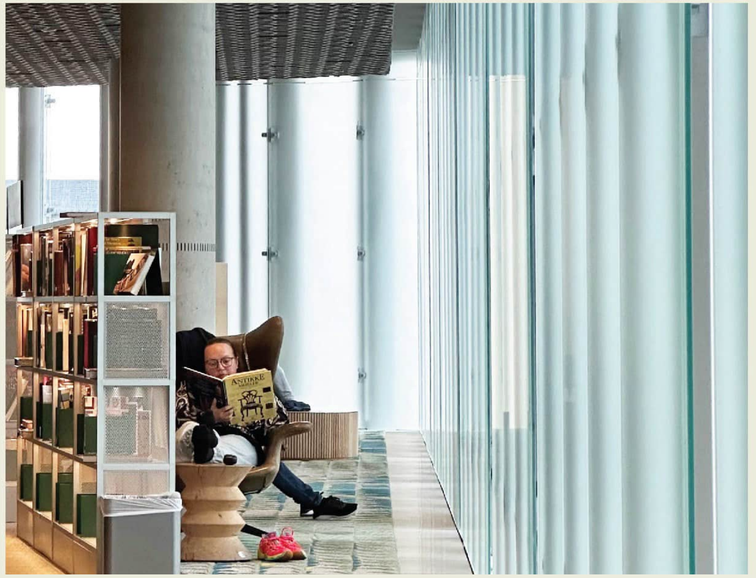


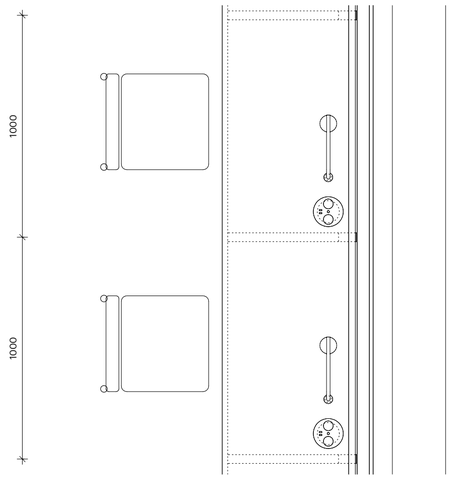




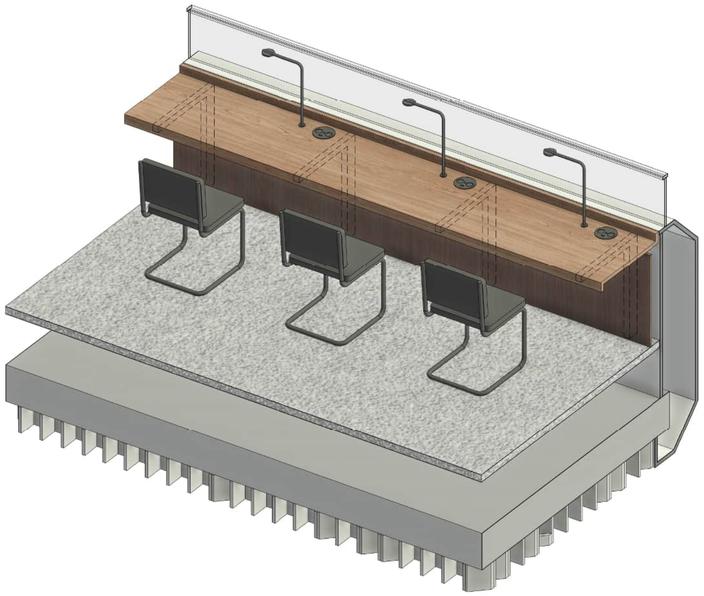


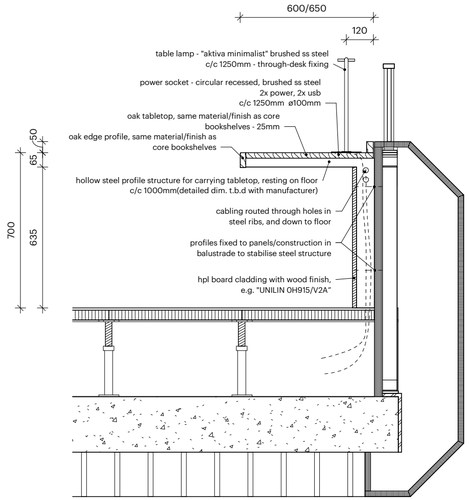

integrated LED light strip
for book illumination.
free height
reuse of existing
bookshelf panels, either
as is or powdercoated.
electricity from cavity
floorbox.
625
300
25
300
295
355
355
355
180
1185
cavity floor



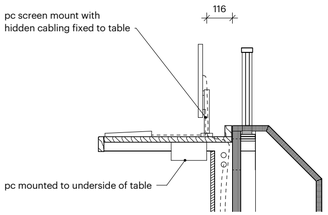


TYPICAL PLAN

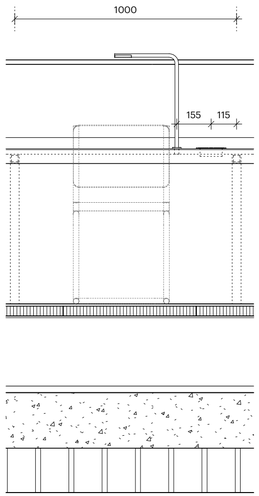




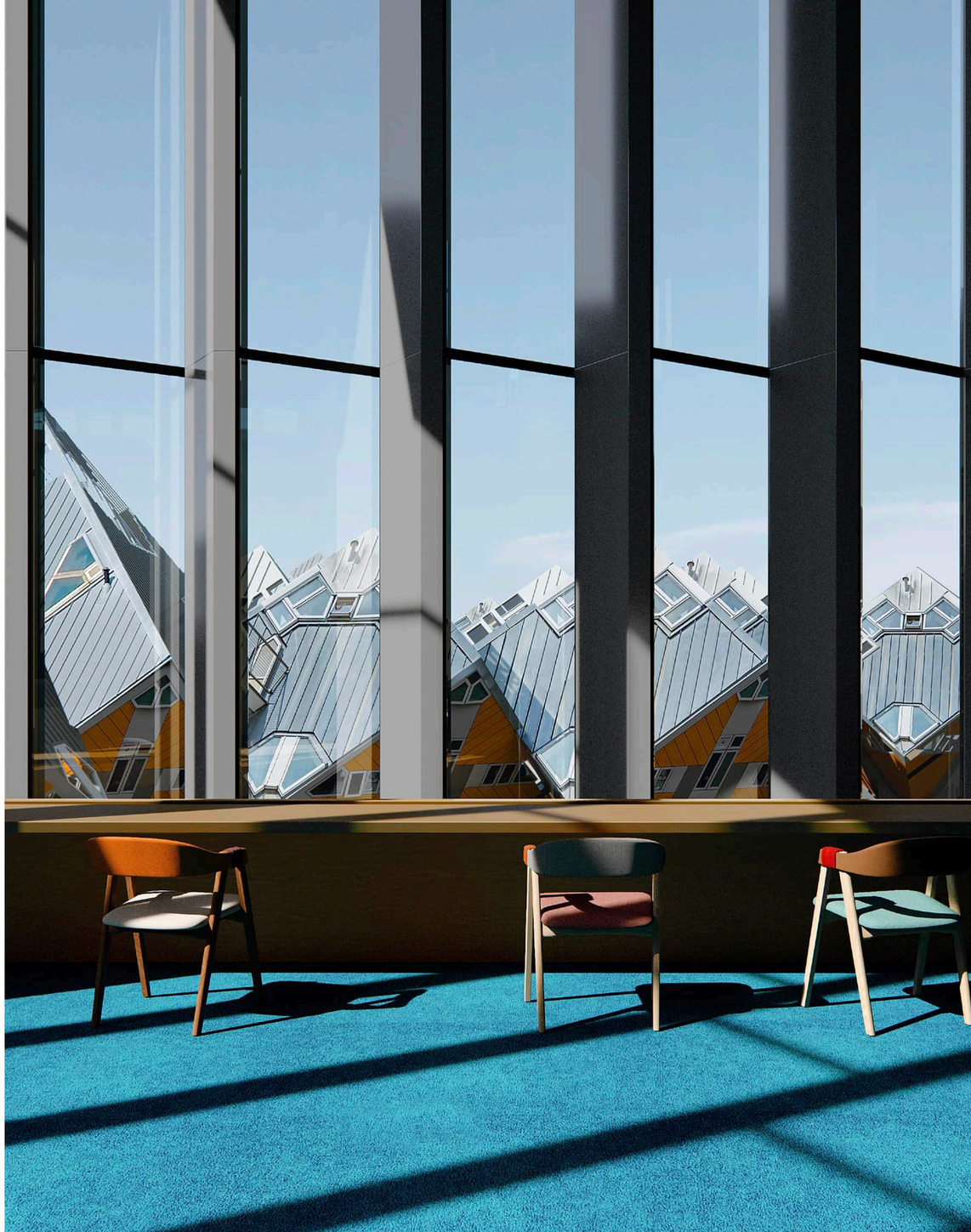
TYPICAL SECTION

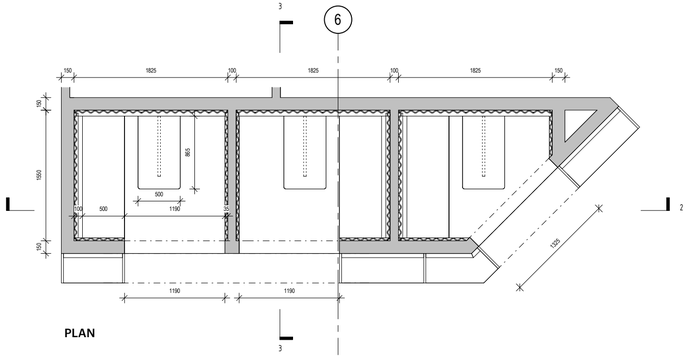


SECTION - MOUNTING PRINCIPLE FOR FIXED PC'S

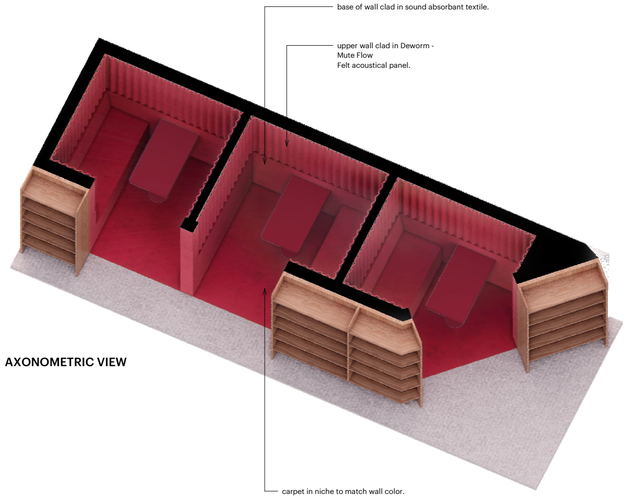


TYPICAL ELEVATION

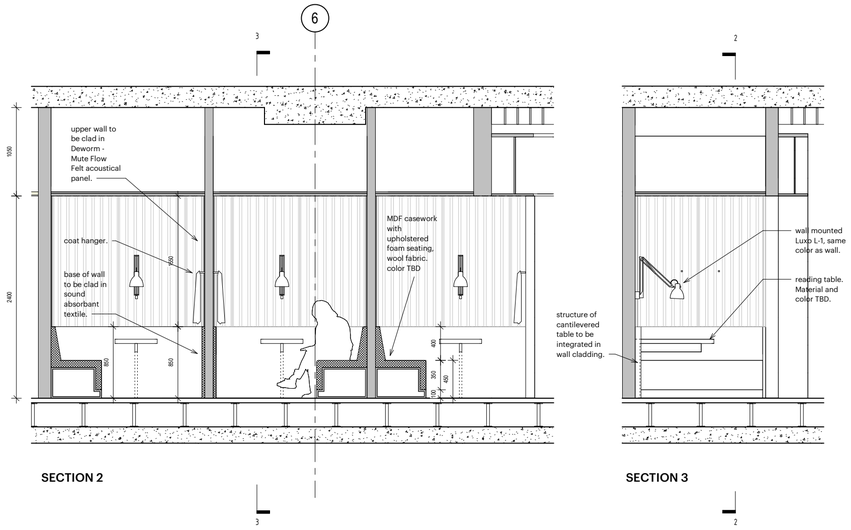




PLAN



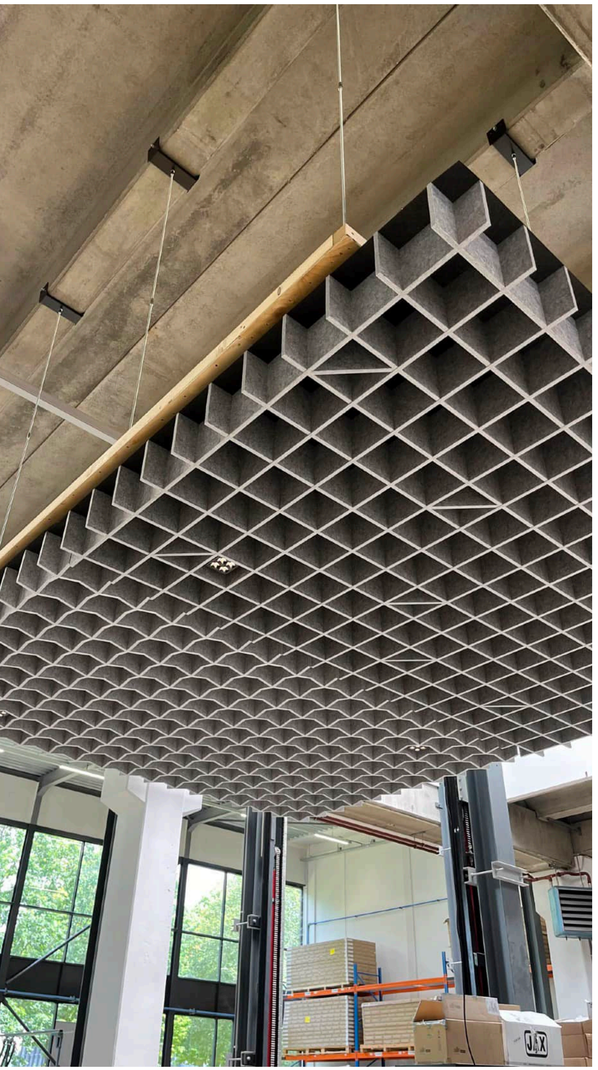
AXONOMETRIC VIEW

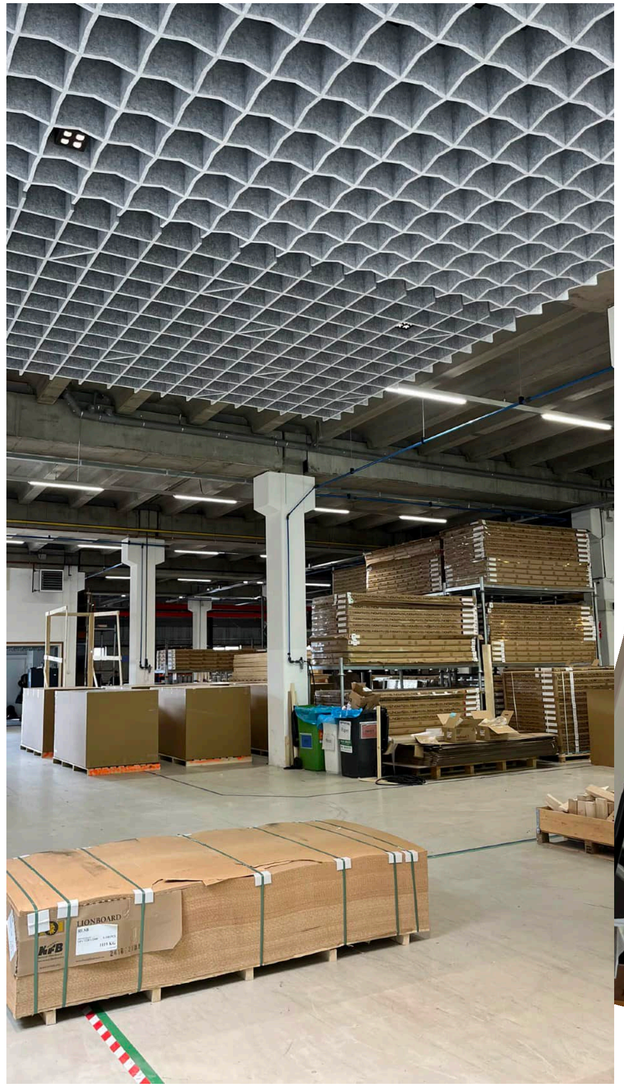


SECTION 2

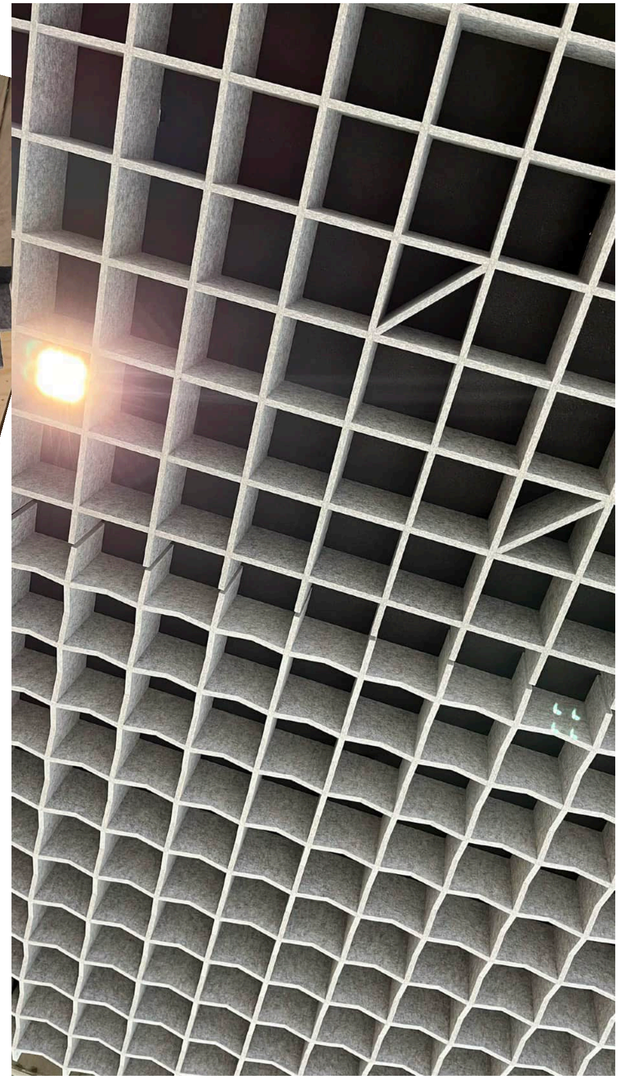
SECTION 3

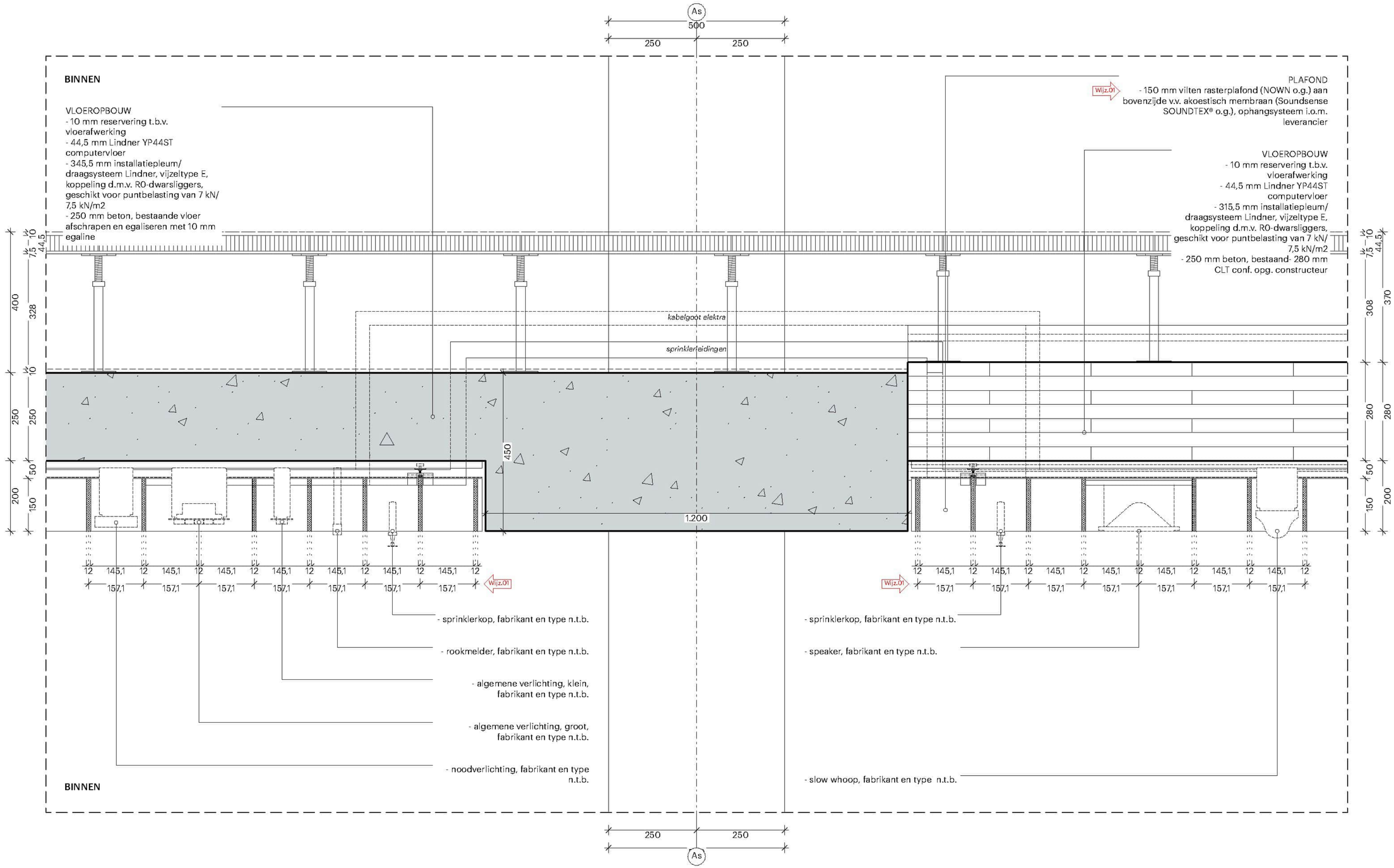





LIONBOARD






As
500
250
250
BINNEN
VLOEROPBOUW
- 10 mm reservering t.b.v. vloerafwerking
- 44,5 mm Lindner YP44ST computervloer
- 345,5 mm installatiepleum/ draagsysteem Lindner, vijzeltype E, koppeling d.m.v. R0-dwarsliggers, geschikt voor puntbelasting van 7 kN/ 7,5 kN/m2
- 250 mm beton, bestaande vloer afschrapen en egaliseren met 10 mm egaline
PLAFOND
- 150 mm vilten rasterplafond (NOWN o.g.) aan bovenzijde v.v. akoestisch membraan (Soundsense SOUNDTEX® o.g.), ophangsysteem i.o.m. leverancier
Wijz.01
VLOEROPBOUW
- 10 mm reservering t.b.v. vloerafwerking
- 44,5 mm Lindner YP44ST computervloer
- 315,5 mm installatiepleum/ draagsysteem Lindner, vijzeltype E, koppeling d.m.v. R0-dwarsliggers, geschikt voor puntbelasting van 7 kN/ 7,5 kN/m2
- 250 mm beton, bestaand- 280 mm CLT conf. opg. constructeur
kabelgoot elektra
sprinklerleidingen
400
328
10
10
44,5
7,5
250
250
50
200
150
450
1.200
308
370
280
280
12
145,1
157,1
- sprinklerkop, fabrikant en type n.t.b.
- rookmelder, fabrikant en type n.t.b.
- algemene verlichting, klein, fabrikant en type n.t.b.
- algemene verlichting, groot, fabrikant en type n.t.b.
- noodverlichting, fabrikant en type n.t.b.
- speaker, fabrikant en type n.t.b.
- slow whoop, fabrikant en type n.t.b.
BINNEN
250
250
As

Ground floor



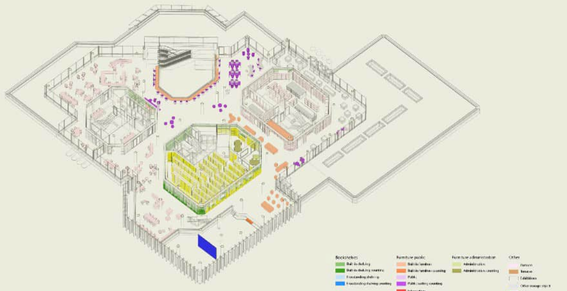
1st floor



2nd floor



3rd floor



4th floor



5th floor



6th floor



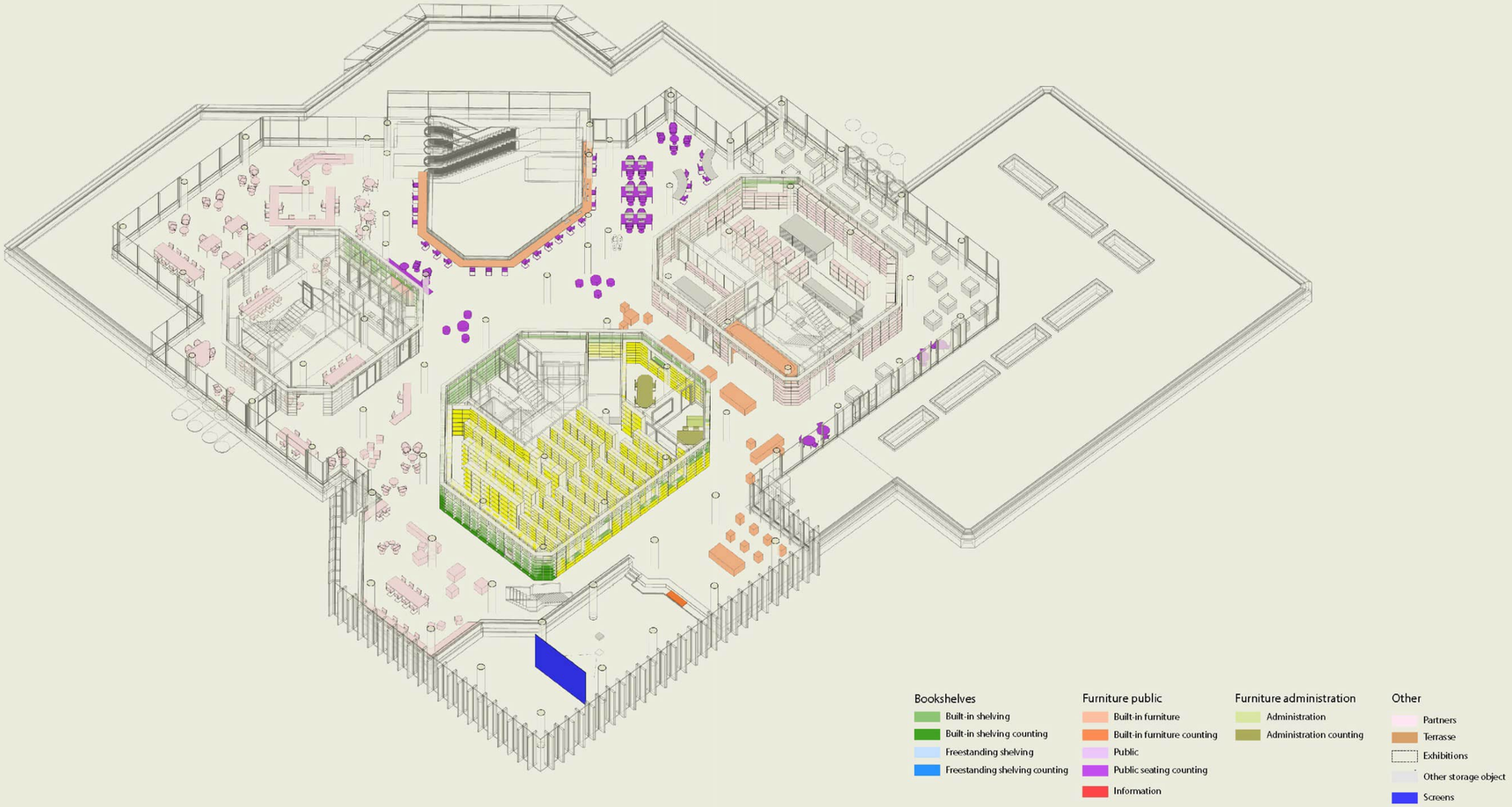
7th floor



1st floor


Bookshelves
Built-in shelving
Built-in shelving counting
Freestanding shelving
Freestanding shelving counting
Furniture public
Built-in furniture
Built-in furniture counting
Public
Public seating counting
Information
Furniture administration
Administration
Administration counting
Other
Partners
Terrasse
Exhibitions
Other storage object
Screens

3rd floor


Bookshelves
Built-in shelving
Built-in shelving counting
Freestanding shelving
Freestanding shelving counting
Furniture public
Built-in furniture
Built-in furniture counting
Public
Public seating counting
Information
Furniture administration
Administration
Administration counting
Other
Partners
Terrasse
Exhibitions
Other storage object
Screens

6th floor



Bookshelves
- Built-in shelving
- Built-in shelving counting
- Freestanding shelving
- Freestanding shelving counting

Furniture public
- Built-in furniture
- Built-in furniture counting
- Public
- Public seating counting
- Information

Furniture administration
- Administration
- Administration counting

Other
- Partners
- Terrasse
- Exhibitions
- Other storage object
- Screens













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Situated between the office and public areas, the cooking workshop allows staff members to use both the workshop and the terrace outside, especially during times when it's not open to the public

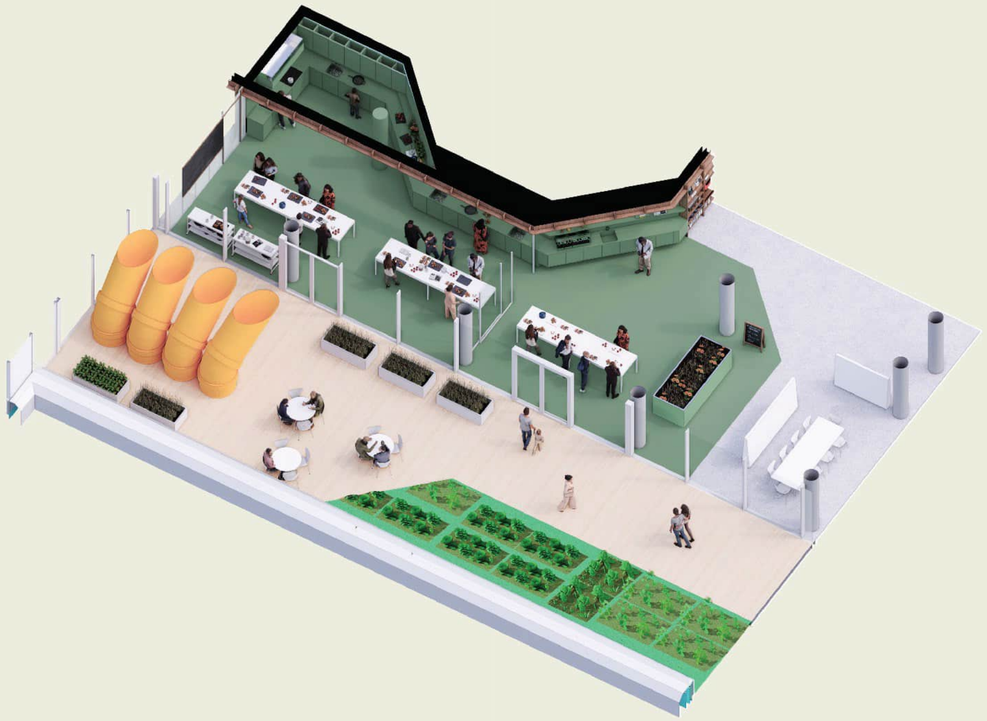


Offering various cooking classes for children not only provides valuable insights into nutrition but also imparts knowledge about food. These classes can also offer some children the opportunity to enjoy a nutritious meal, contributing to their overall well-being



Outside on the terrace, various forms of vegetable cultivation offer children insight into food growth. Through hands-on experience planting, watering, and harvesting, they develop a deeper connection to nature an an increased awareness of where our food comes from







Various partners have access to the kitchen, enabling them to offer affordable meals to diverse user groups

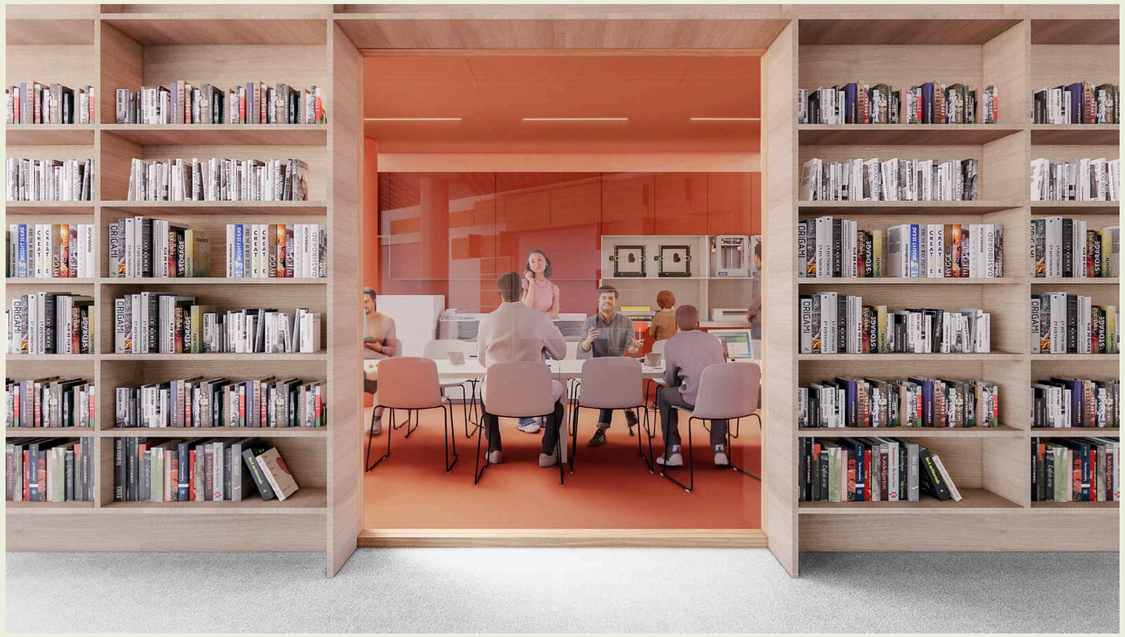


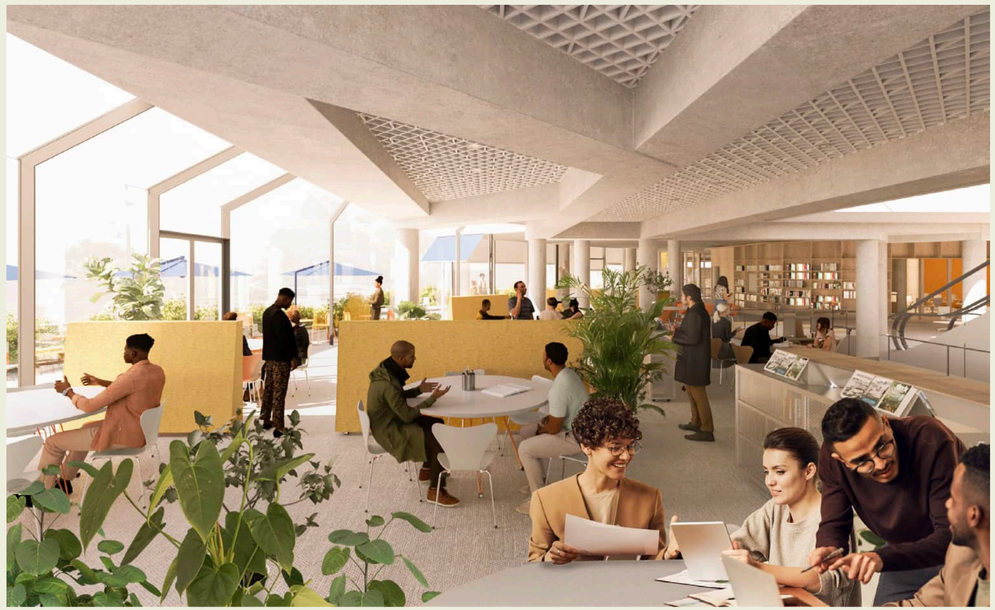
The open area also serves individuals bringing their own food, providing a space for dining right in the heart of the library



Participating in various cooking classes not only teaches valuable skills but also provides opportunities to learn about different cultures, creating a meaningful connection to the "leercentrum," which also offers language education among other services







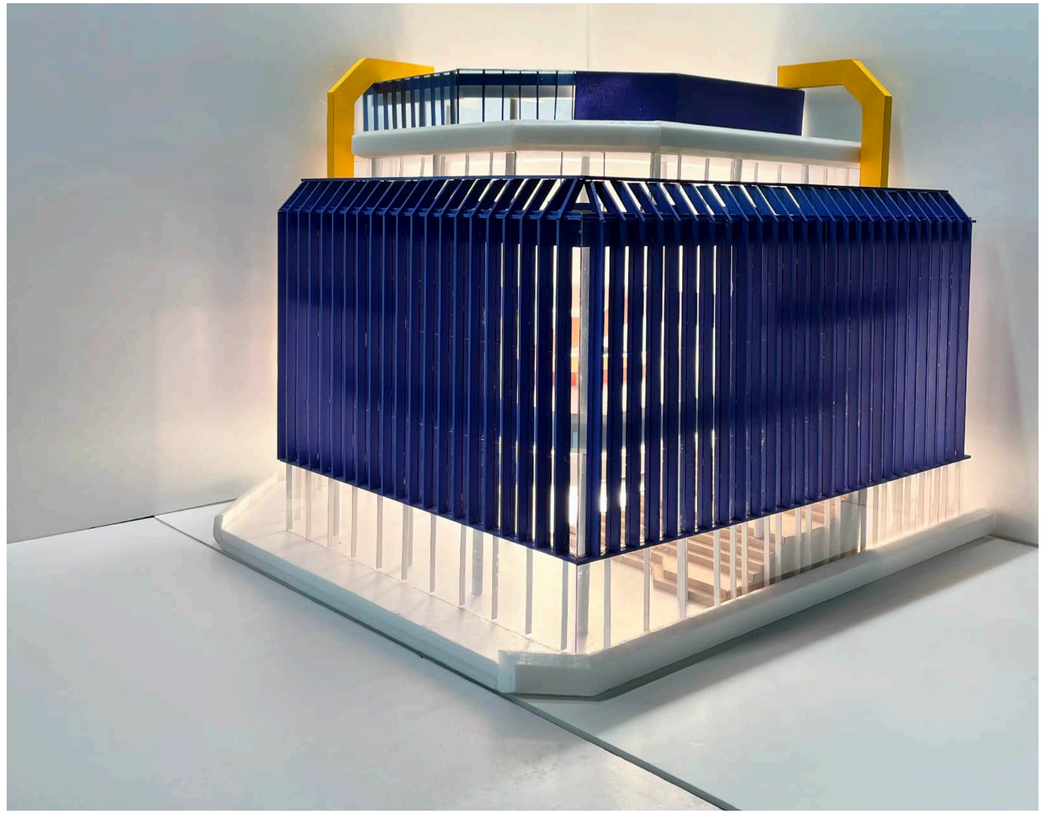




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Blauwe Magazijn

Blauwe magazijn; wisselende verschijningsvorm.



Gesloten volume onder een hoek.



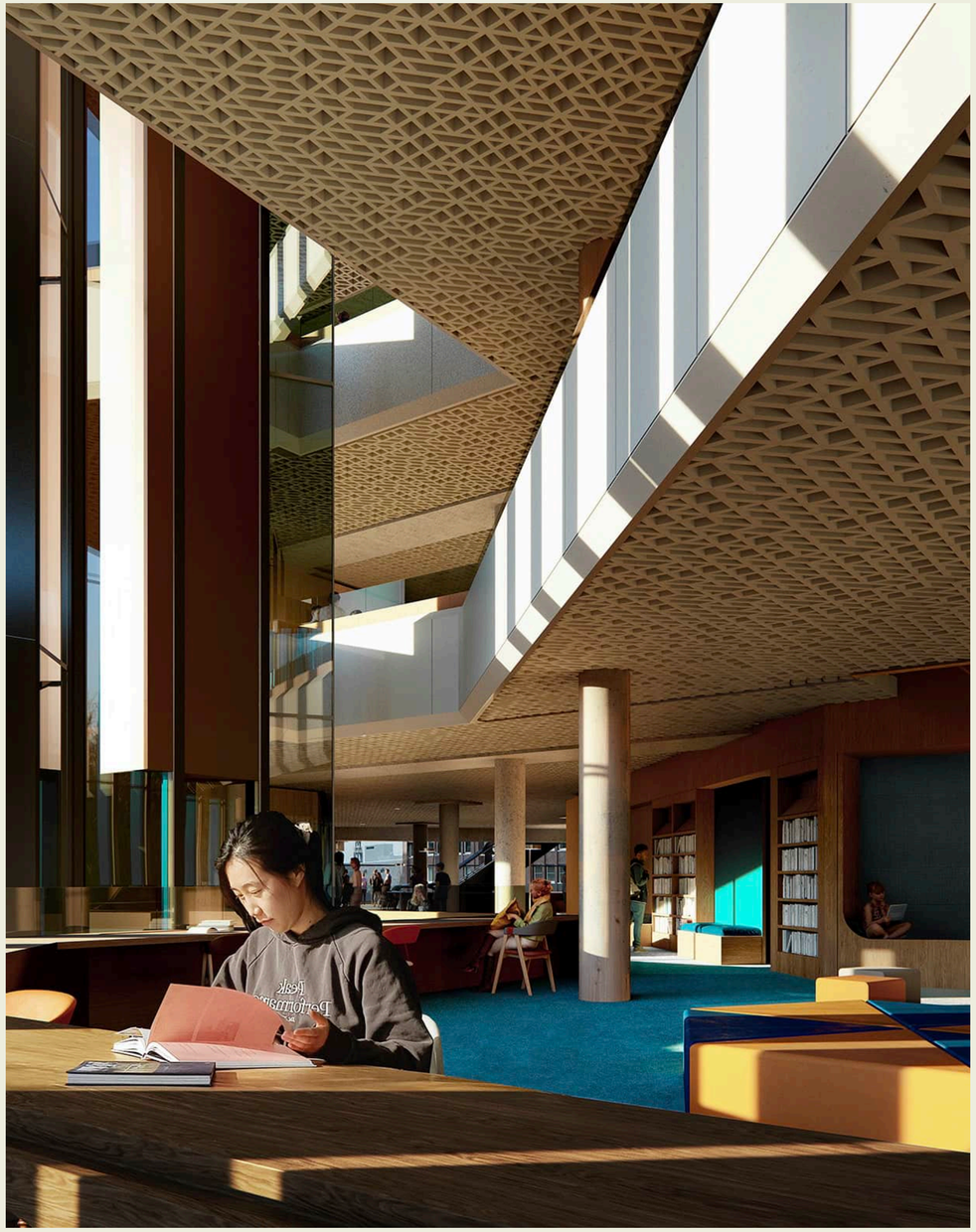
Frontaal een verticaal filter.



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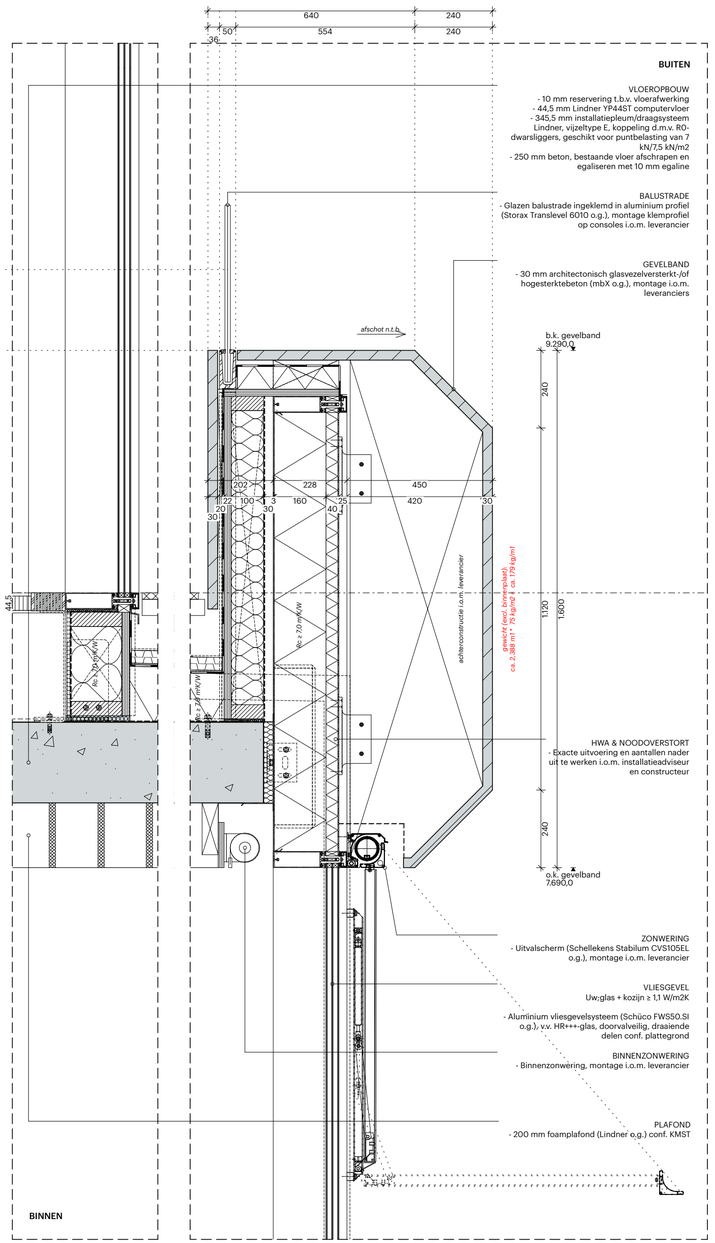




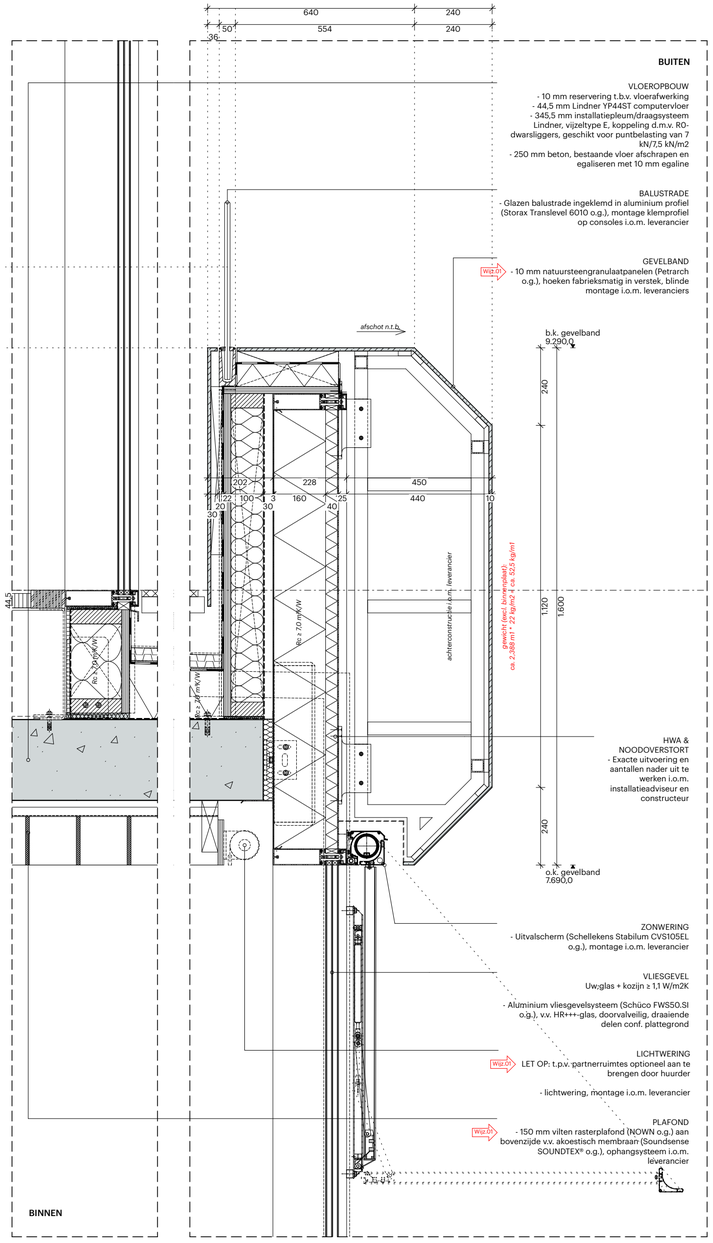
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Lichtere gevelelementen

- Dezelfde uitstraling, minder gewicht op de bestaande vloerranden.
- Hoeken in verstek geassembleerd op de bouw.
- Alleen verticale naden zichtbaar.



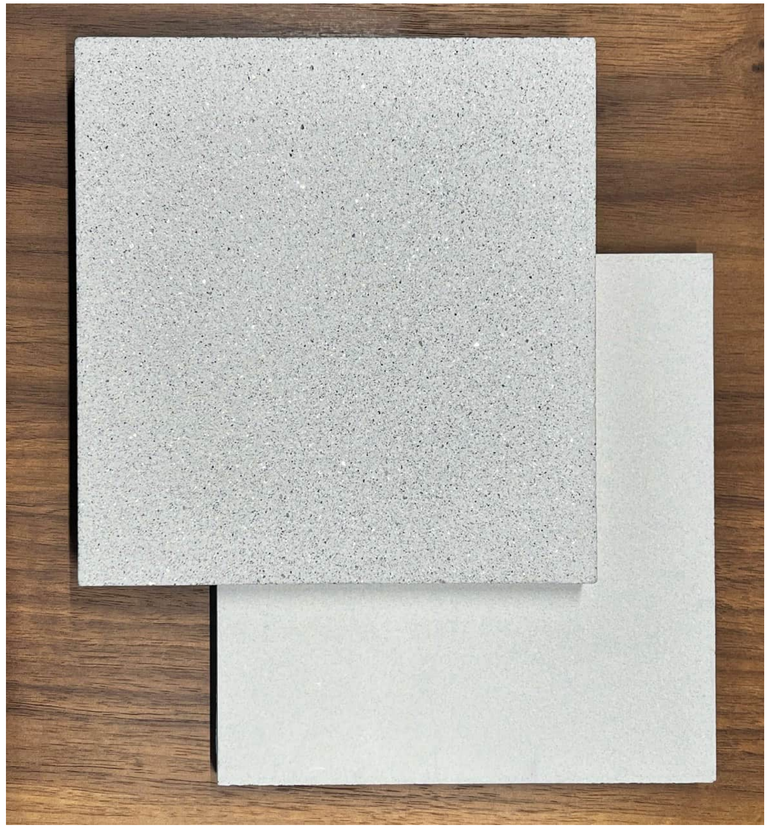
Versterkt sierbeton, 30mm



Natuursteengranulaat, 18mm

Lichtere gevelelementen

- Ultstraling en ‘gevoel’ vergelijkbaar.
- Kleur door en door.



Versterkt sierbeton, licht gestraald.



Natuursteen granulaat panelen.

Blauwe magazijn

vanaf de Binnerotte voor.



Blauwe magazijn
vanaf de Binnerotte na.



Blauwe magazijn
vanaf het Blaakse Bos voor.



Blauwe magazijn
vanaf het Blaakse Bos na.



Blauwe magazijn

vanaf de Hoogstraat voor.



Blauwe magazijn
vanaf de Hoogstraat na.



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