

P5 Presentation 03-07-2018
Studio: Harbour Heritage
Lukas Jaspers 1396757
Tutors: W.L.E.C. Meijers -
B. Gremmen - N.J. Clarke

Santos





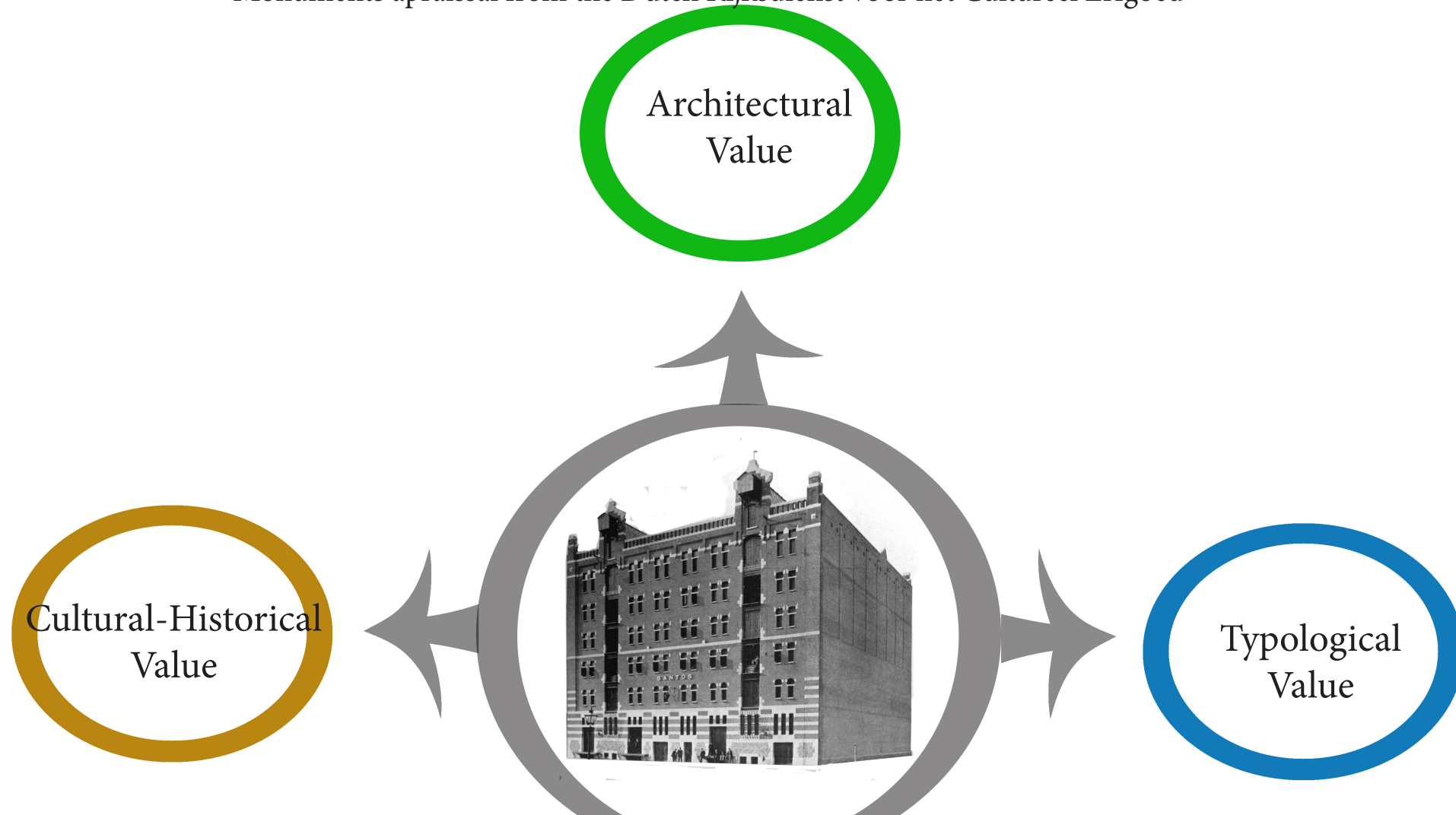
General info

Address:	Brede Hilledijk 95 / Rijnhaven Z.z. 6, Rotterdam
Status:	National monument nr. 513940
Year of construction:	1901-1902
Client:	N.V. Blaauwhoedenveem
Architect:	J.P. Stok Wzn. J.J. Kanters
Original function:	Warehouse for the storage of coffee from the port of Santos, Brazil
Owner:	Onwikkelings Bedrijf Rotterdam, municipality of Rotterdam
Building condition:	Good
Total surface area:	6420m

Why is Santos listed as a monument?

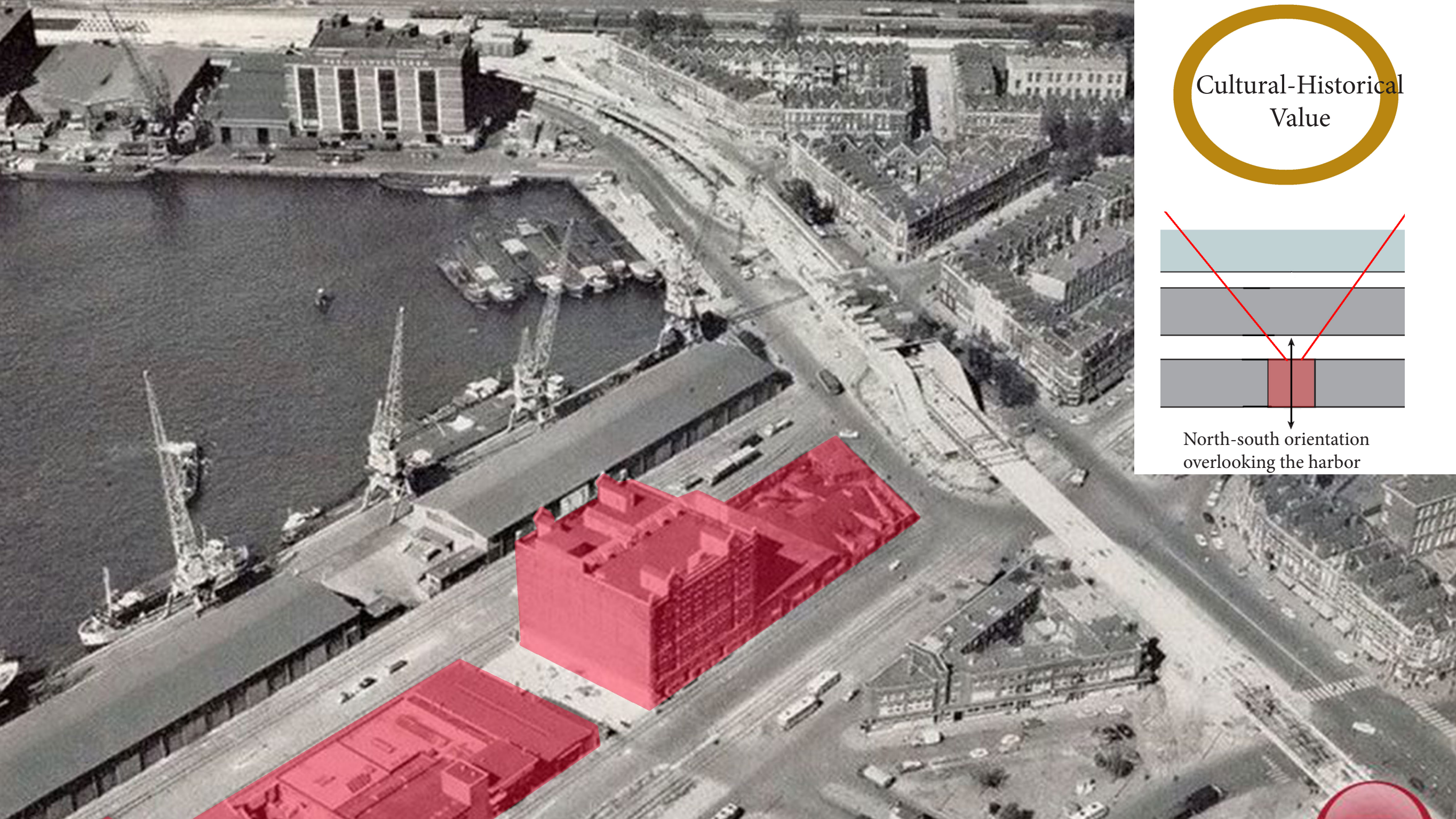
“Early 20th century warehouse for the storage of coffee. Of common interest because of the cultural-historical, architectural and typological value.”

- Monuments appraisal from the Dutch Rijksdienst voor het Cultureel Erfgoed -

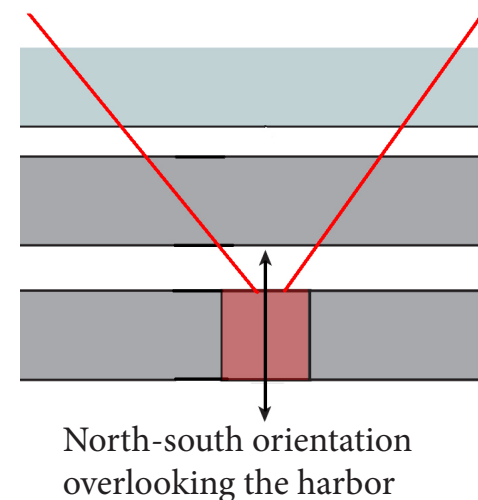


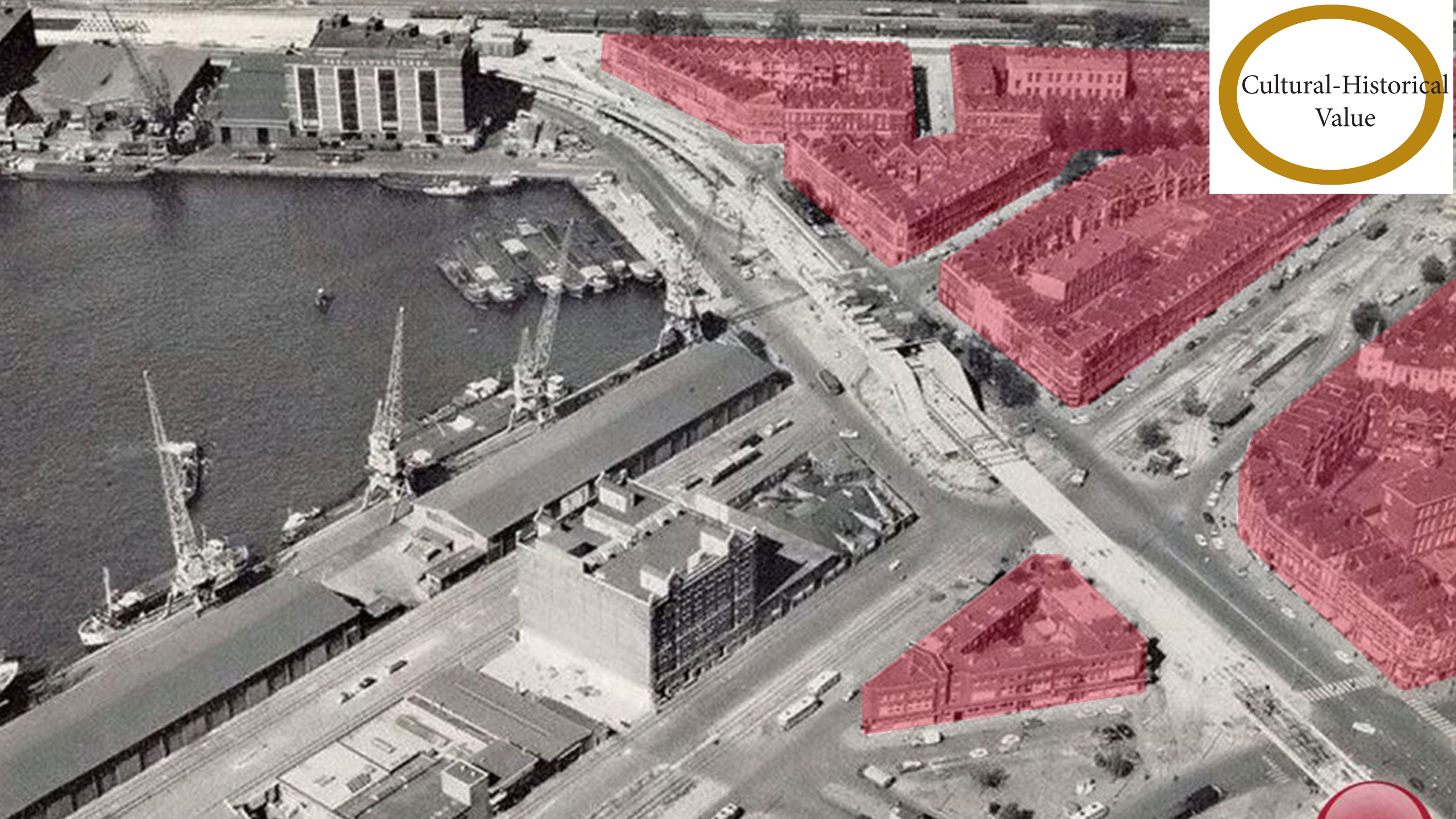


Cultural-Historical
Value

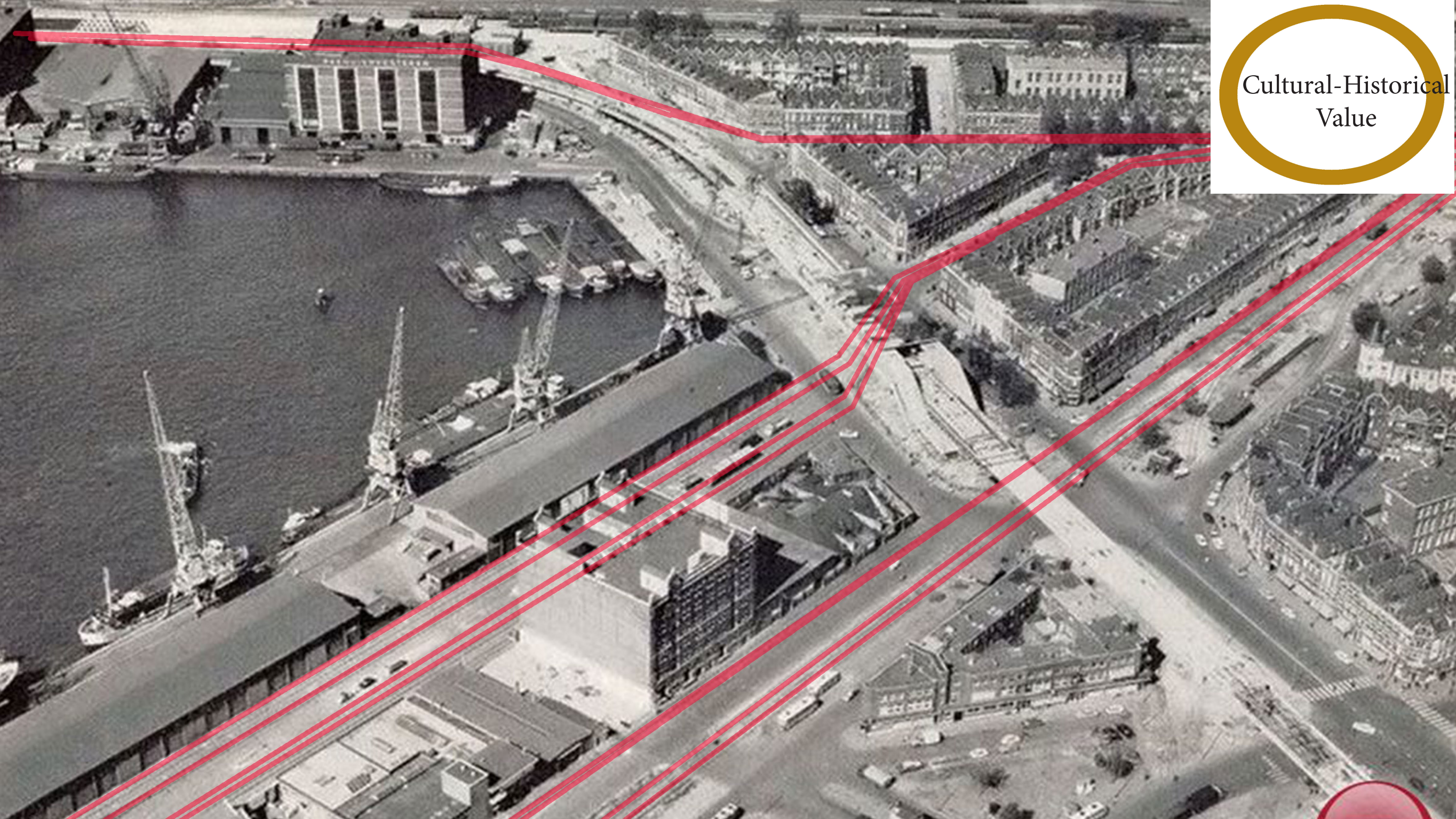


Cultural-Historical
Value

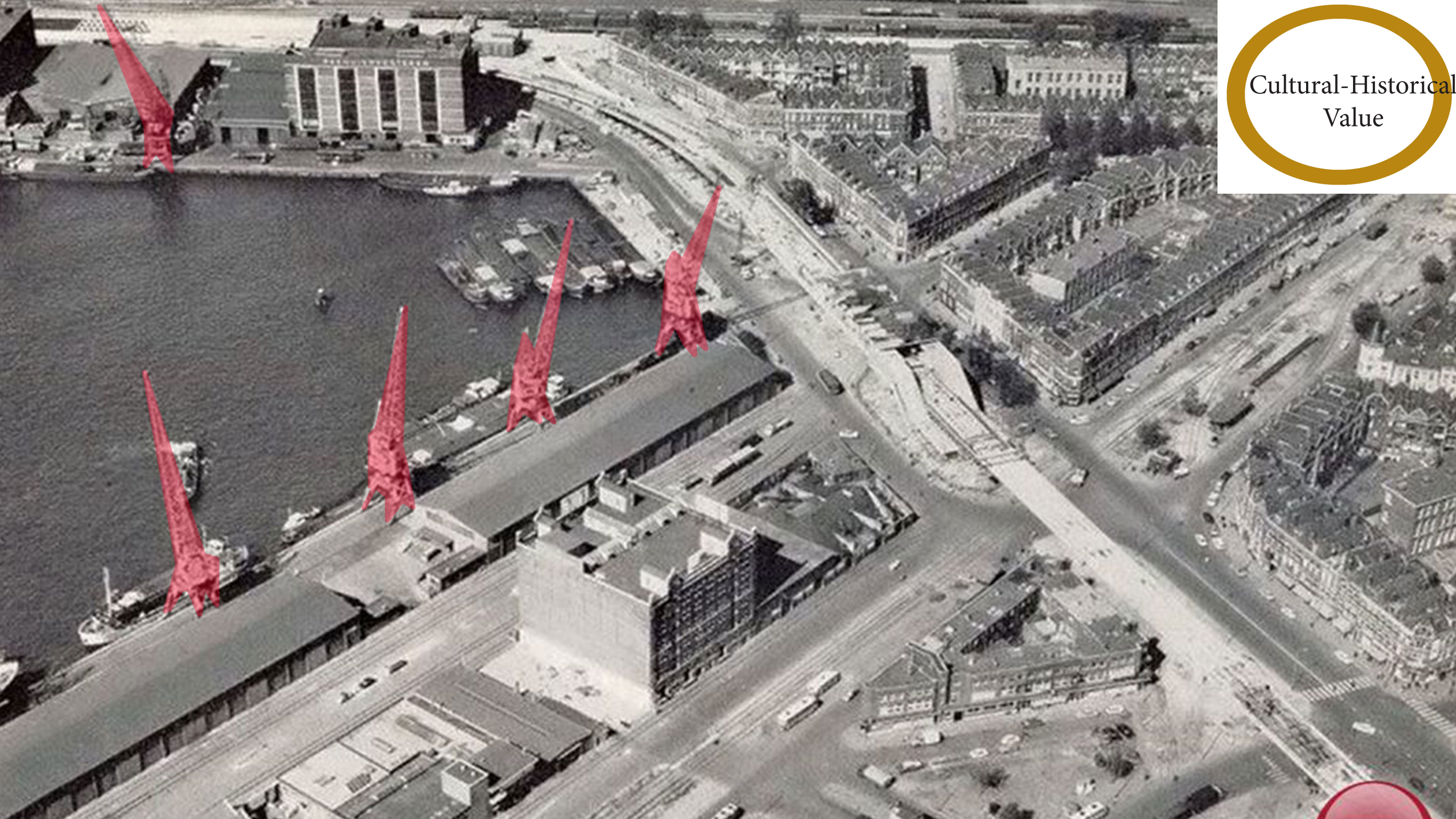




Cultural-Historical
Value



Cultural-Historical
Value



Cultural-Historical
Value

The historic image

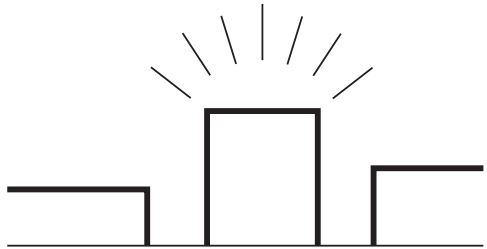
Cultural-Historical
Value



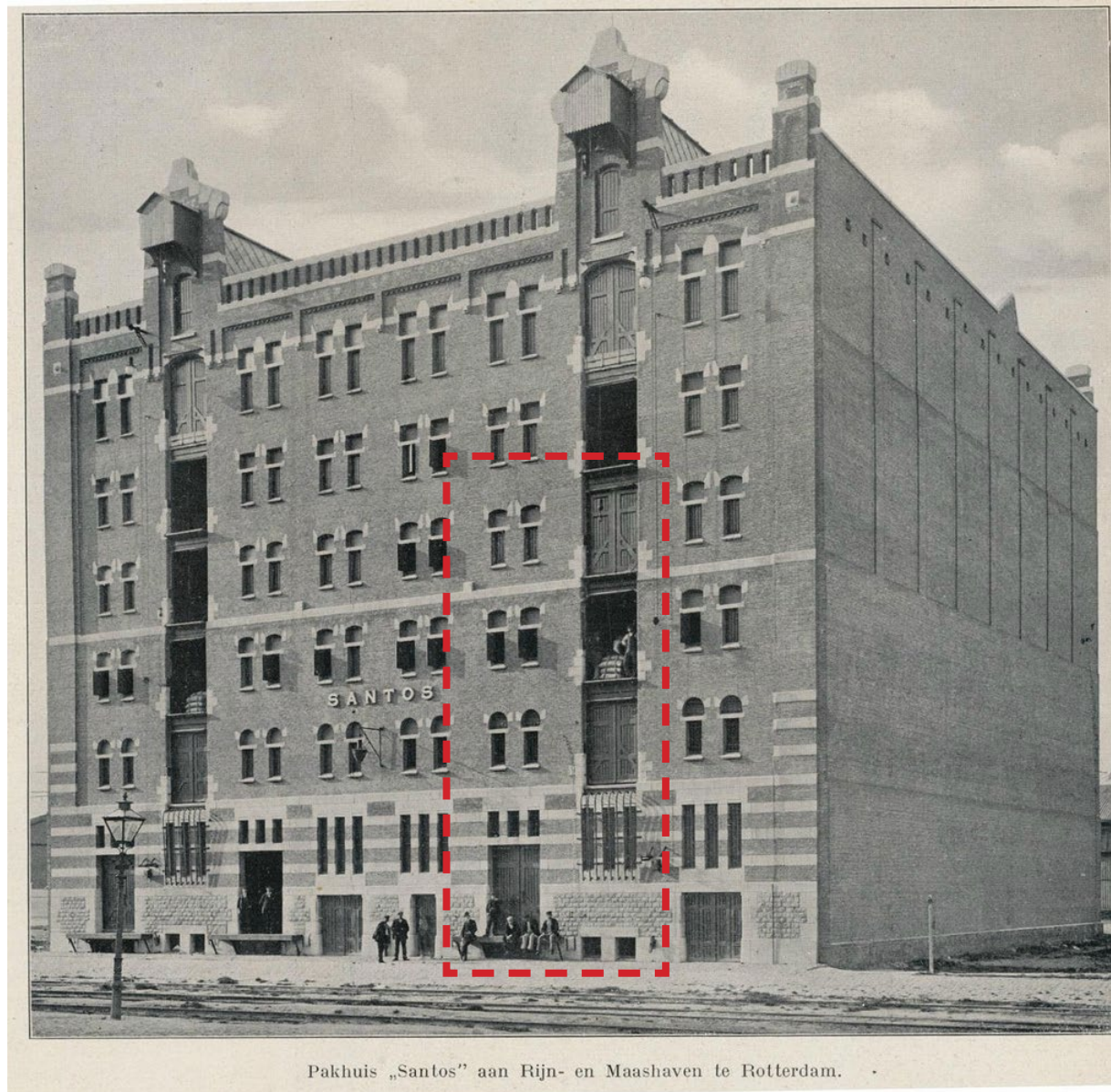
The historic image

Cultural-Historical
Value

Typological
Value



Dominant presence to the neighborhood



Pakhuis „Santos” aan Rijn- en Maashaven te Rotterdam.



The facade design

Architectural
Value



Pakhuis „Santos” aan Rijn- en Maashaven te Rotterdam.



J.P. Stok Wzn. (1862-1942)

- the academy for the visual arts in Rotterdam
- two years at the Academie des Beaux Arts in Brussels
- two years at the Politechnische school in Delft

The facade design

Architectural
Value



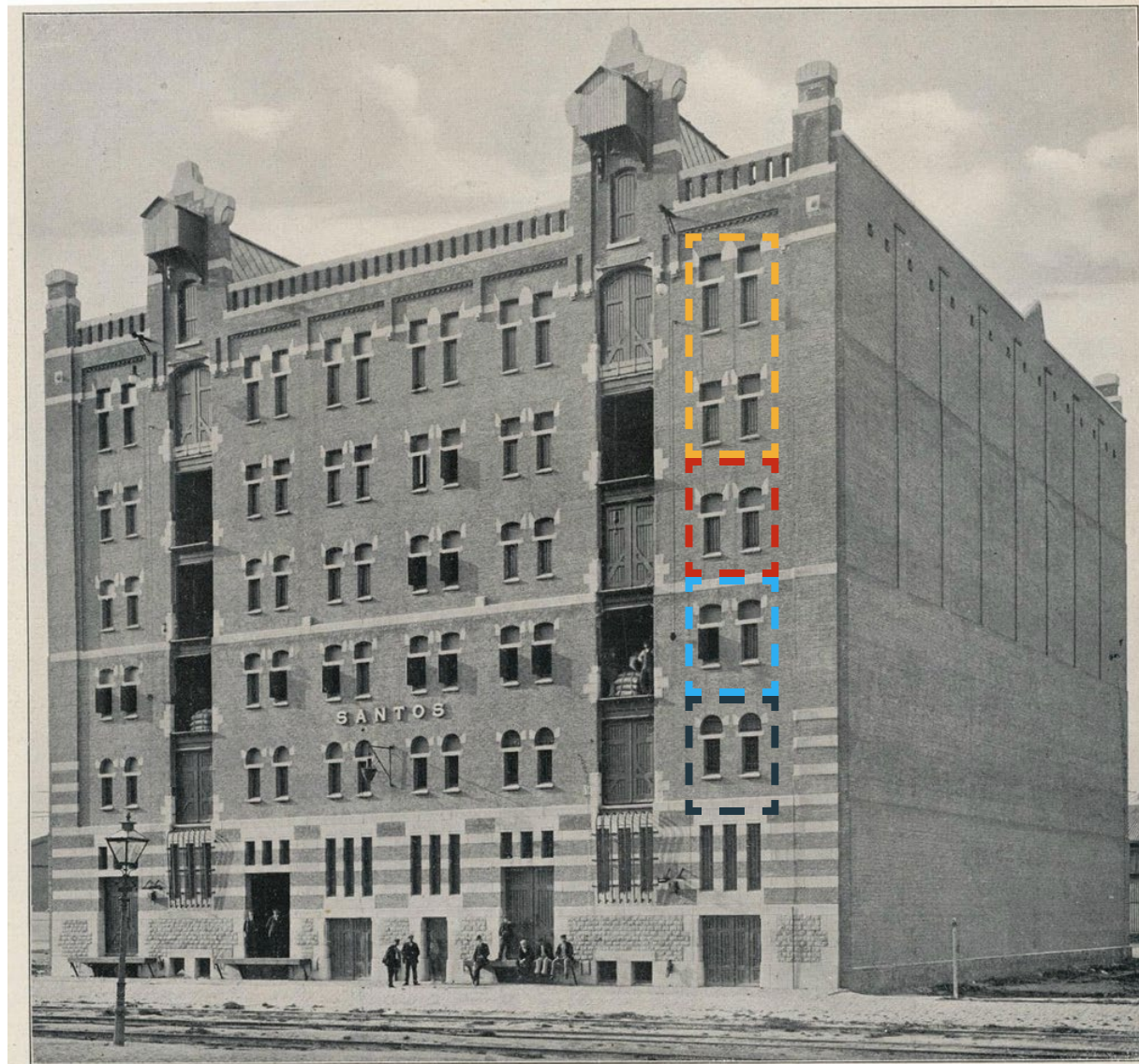
Ornamental pattern

The facade design

Architectural
Value

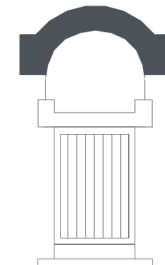
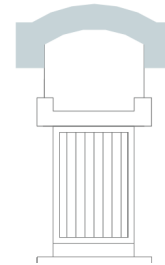
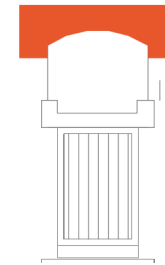
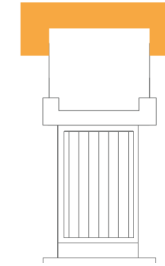


The facade design



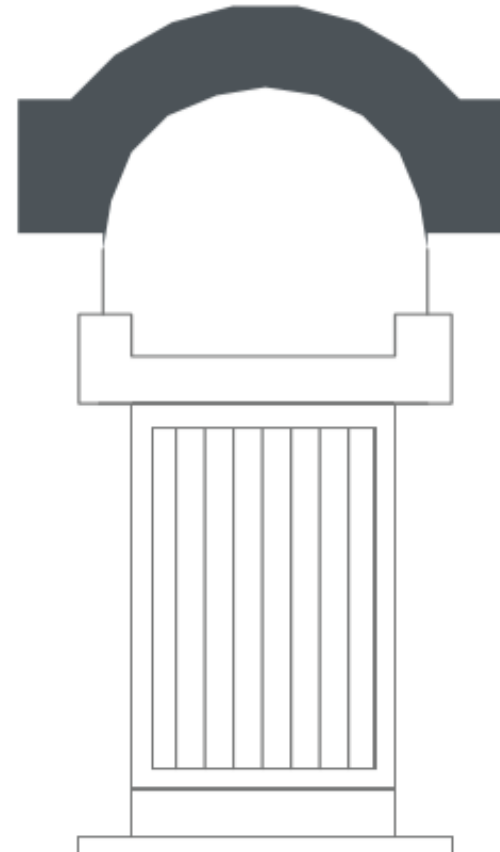
Pakhuis „Santos” aan Rijn- en Maashaven te Rotterdam.

Architectural
Value





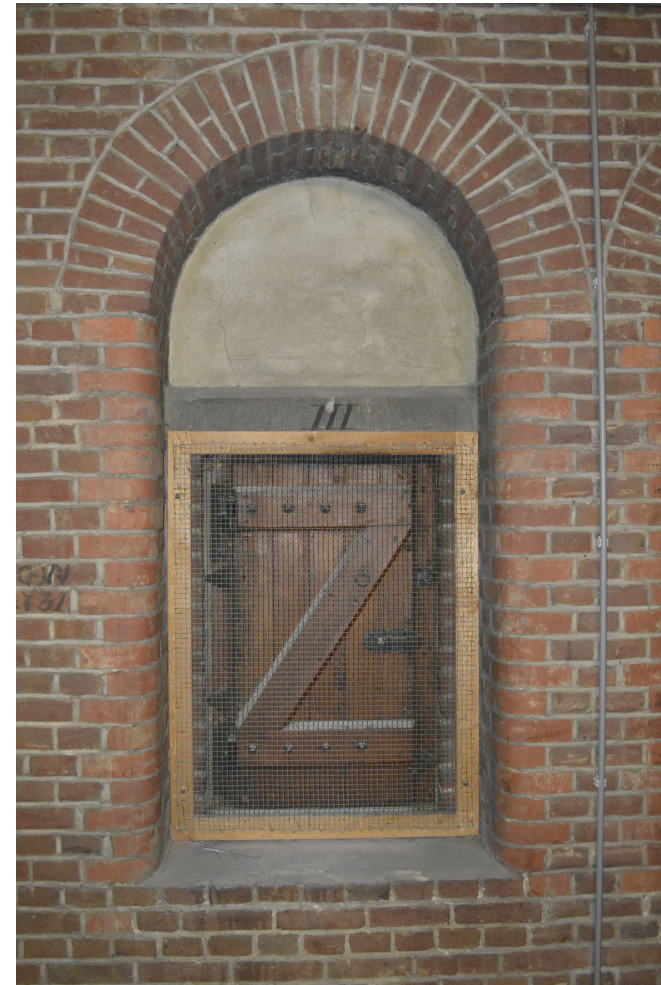
Exterior window



Architectural
Value



Exterior window



Interior window

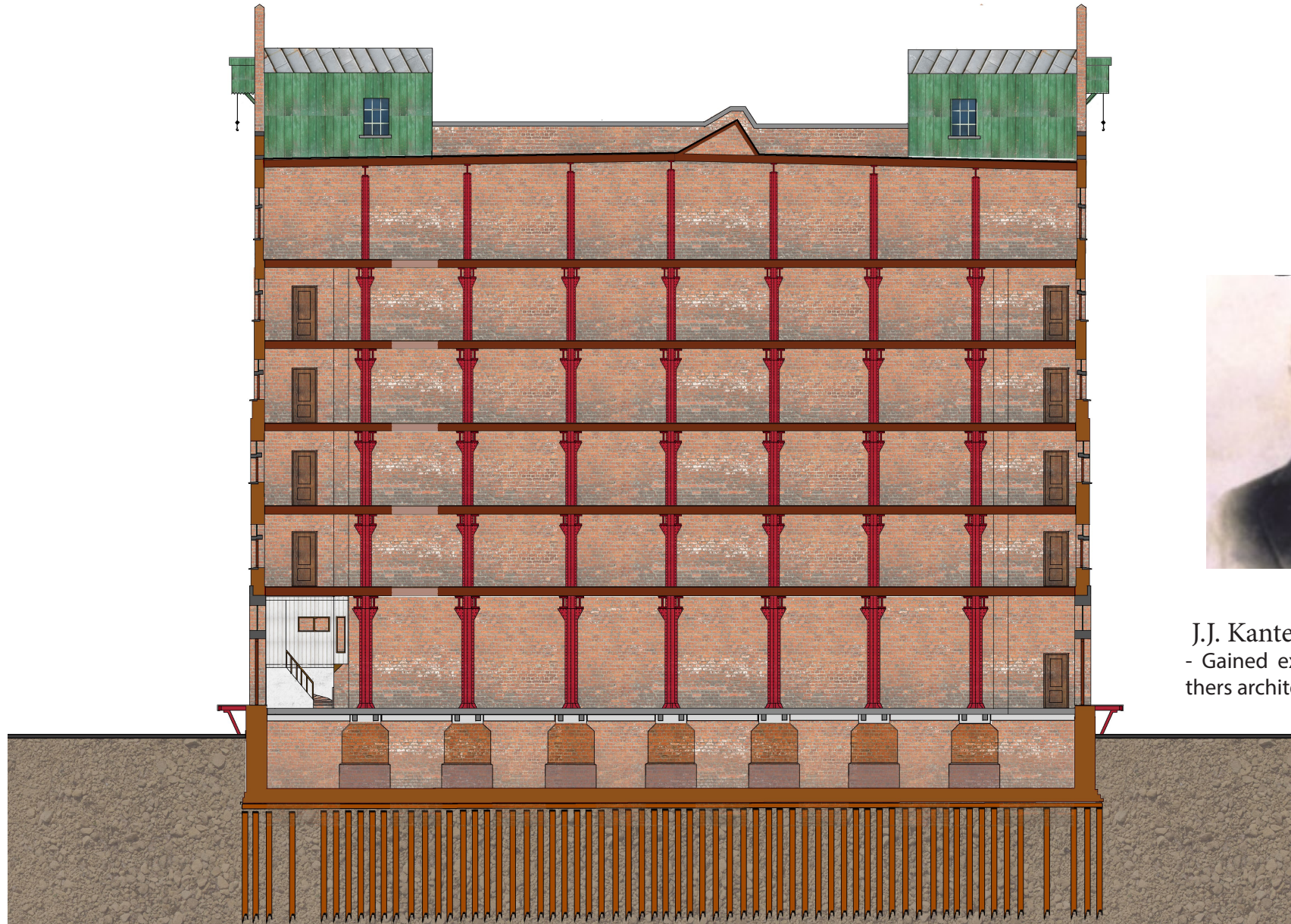
The structural design

Typological
Value



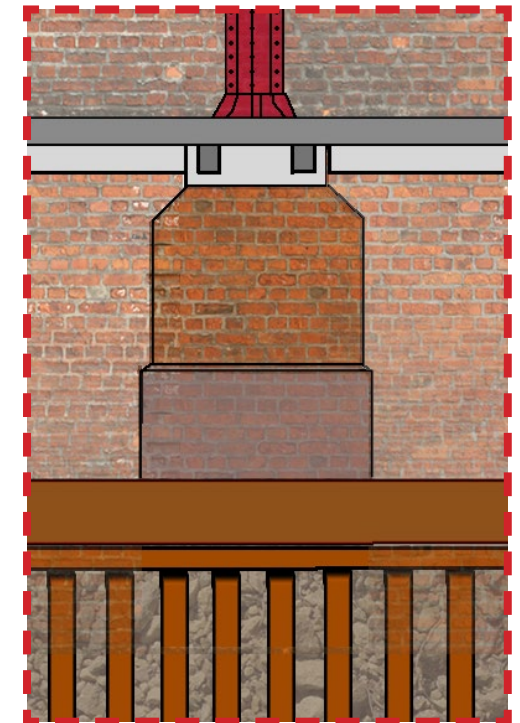
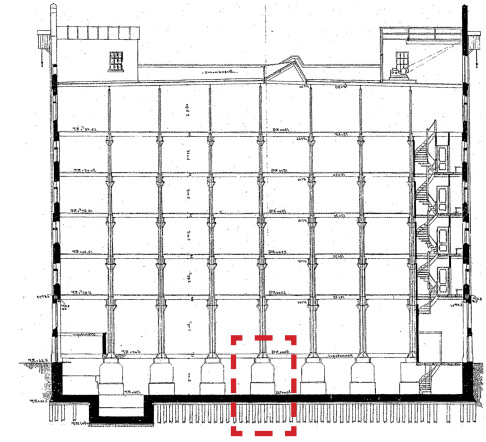
The structural design

Architectural
Value



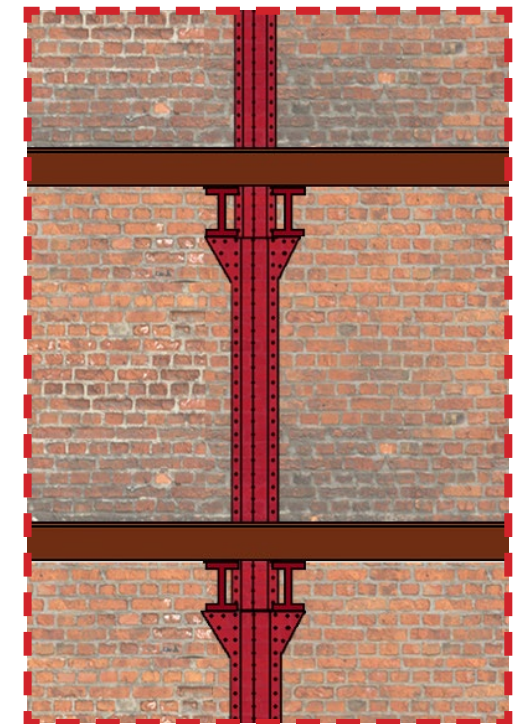
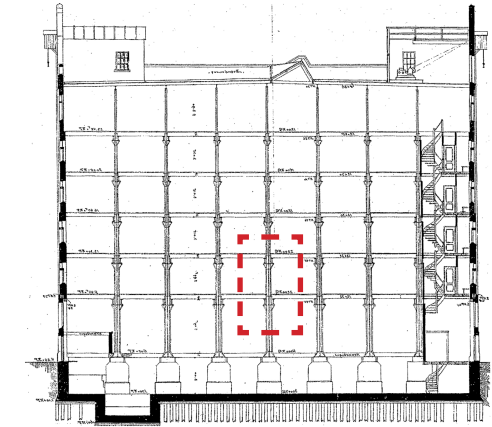
J.J. Kanters (1869 - 1920)
- Gained experience through his father's architecture firm

The structural design



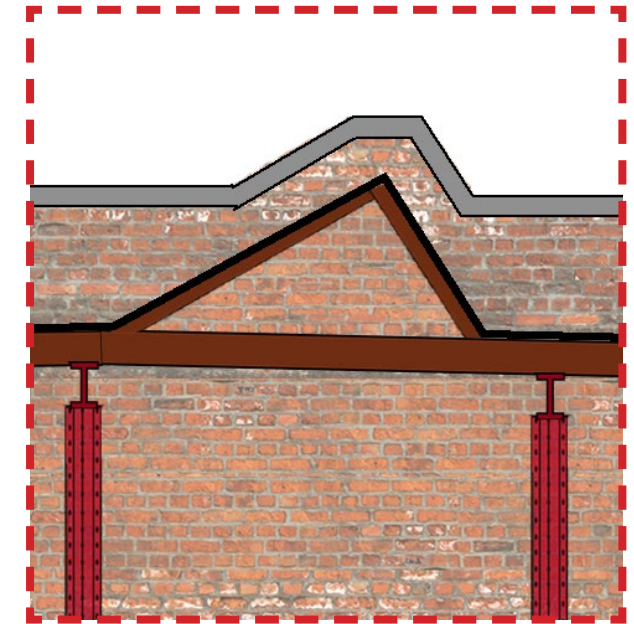
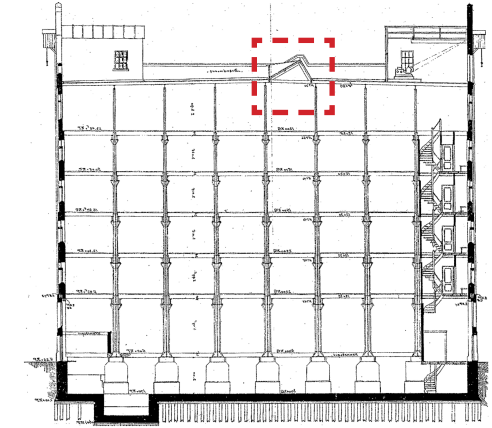
Typological
Value

The structural design

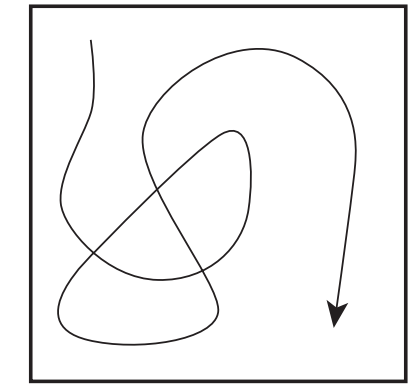


Typological
Value

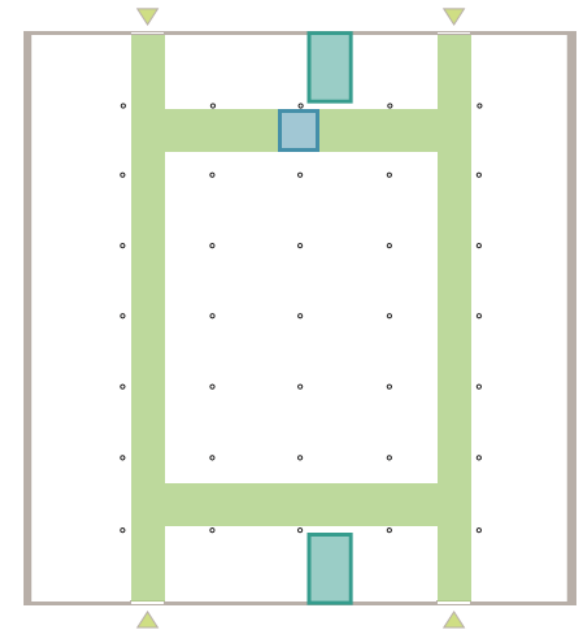
The structural design



Typological
Value



Open space plan



Logistic lanes

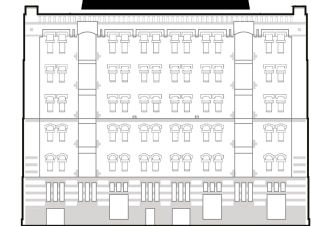
Typological
Value

The structural design

Typological
Value

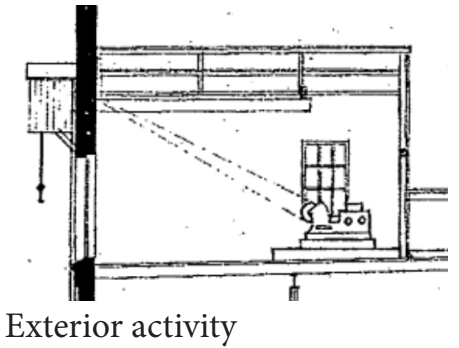
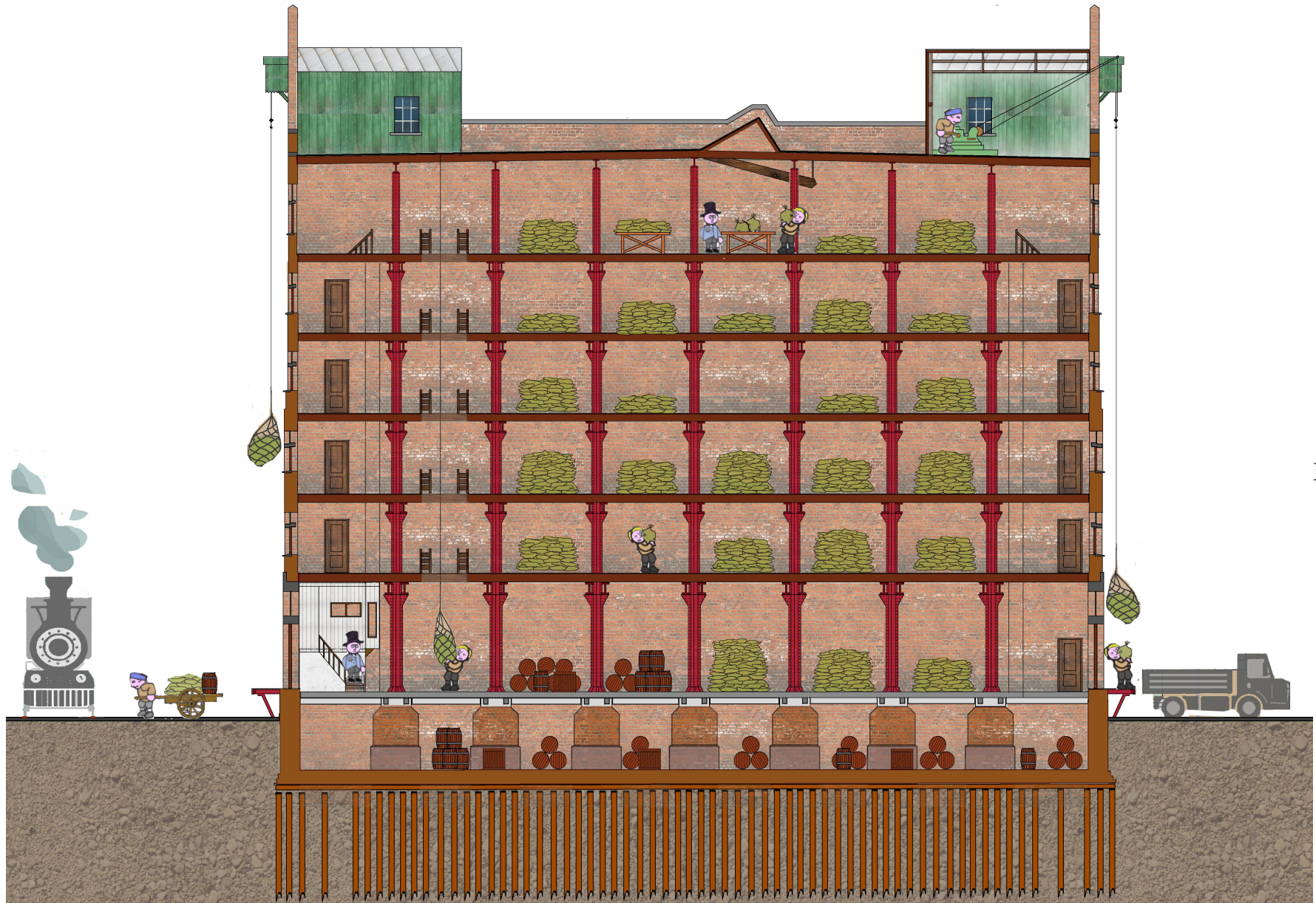


15600 KG
Total capacity

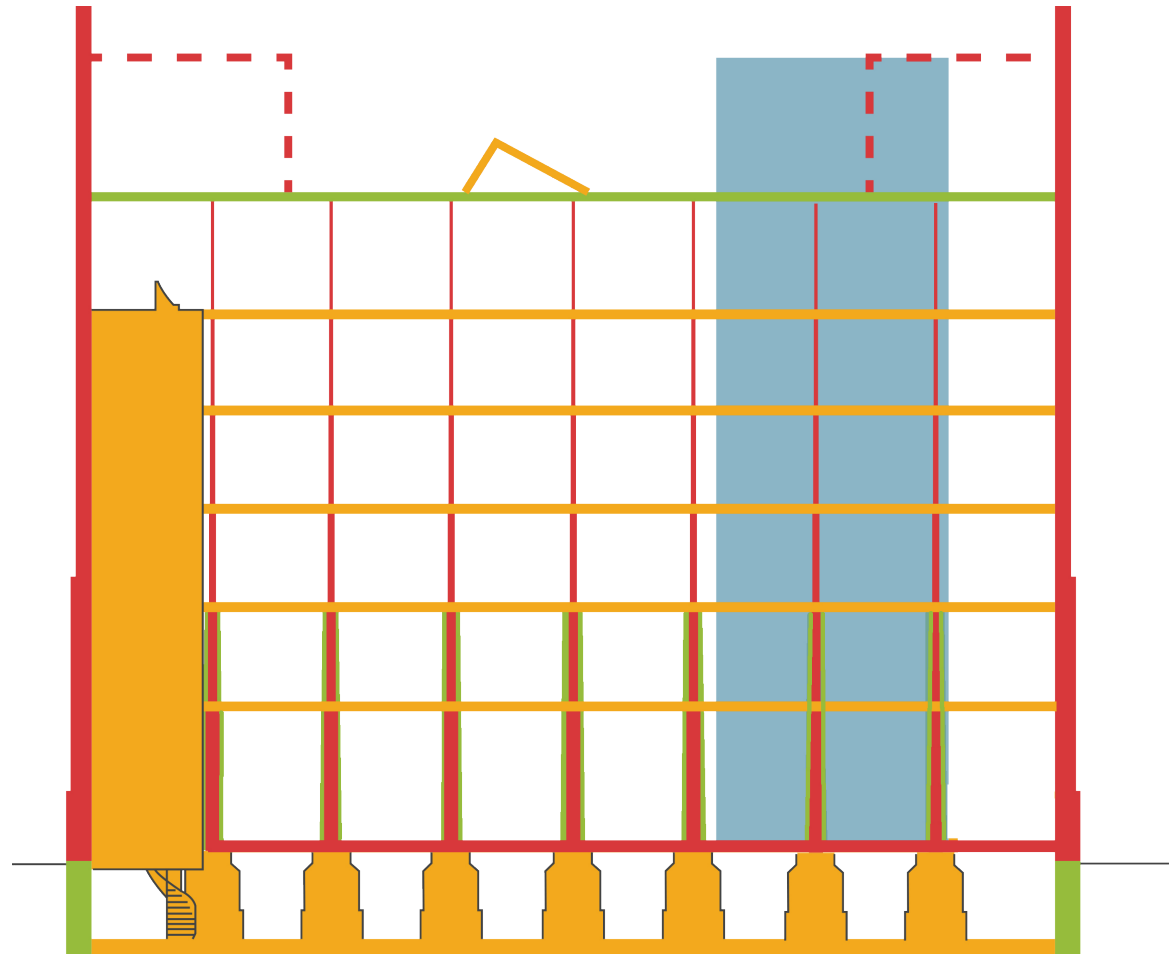


Weight bearing capabilities

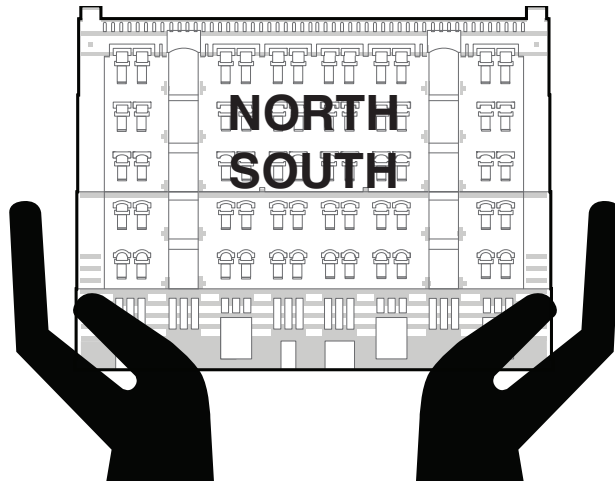
Cultural-Historical
Value



Value assessment



Dilemmas



Facade architecture



Patina



Missing elements

Current situation



Current situation

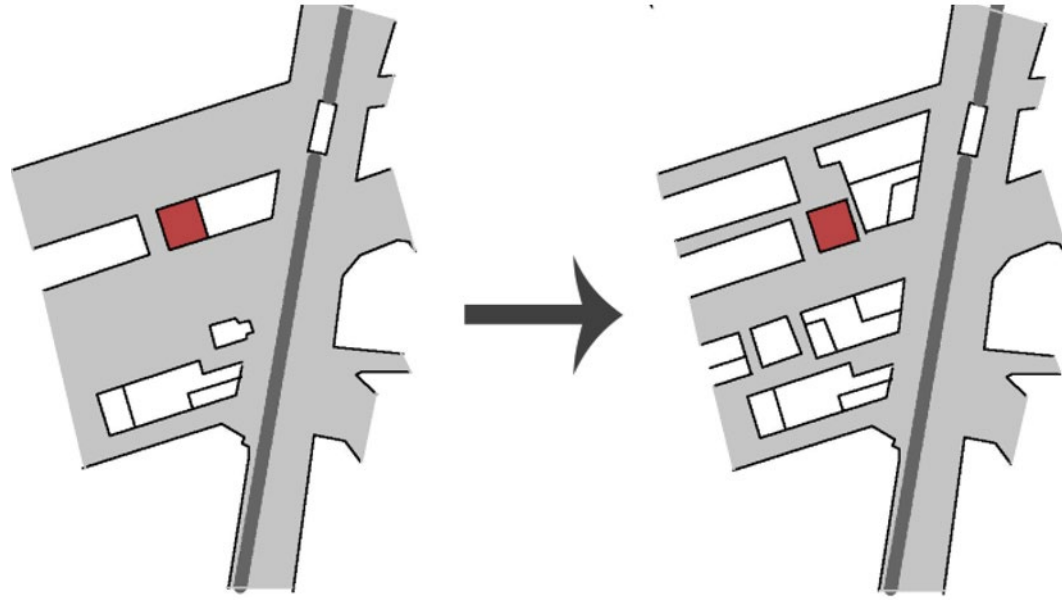


Future urban setting

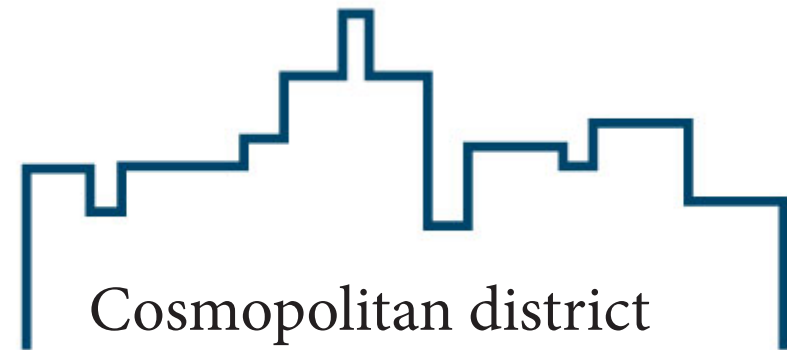




A radically changing enviroment



Industrial area

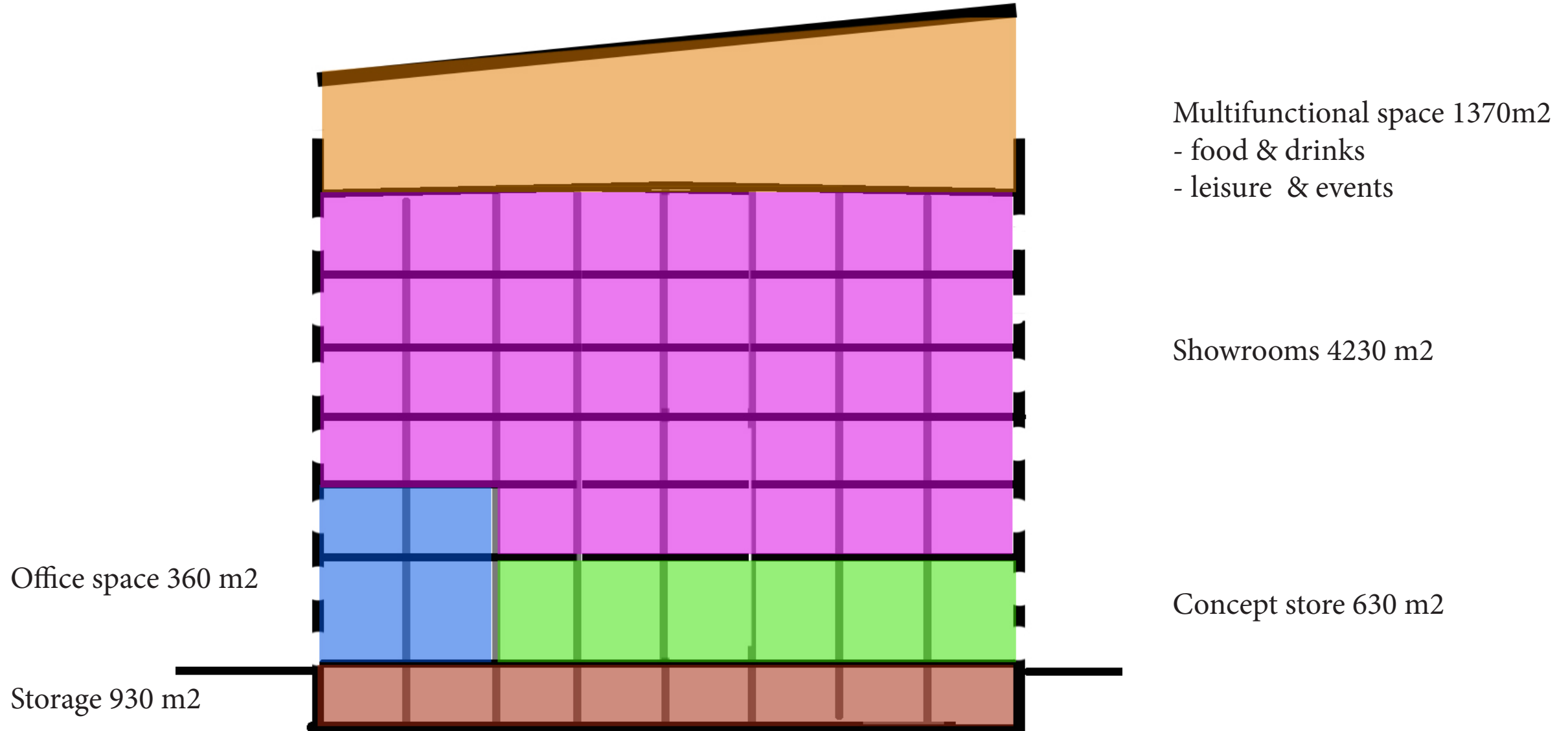


Cosmopolitan district

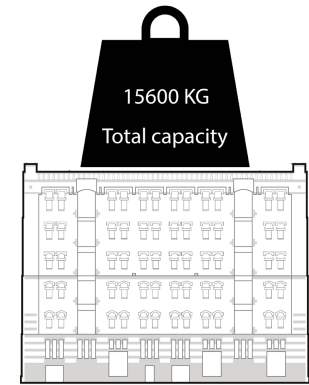
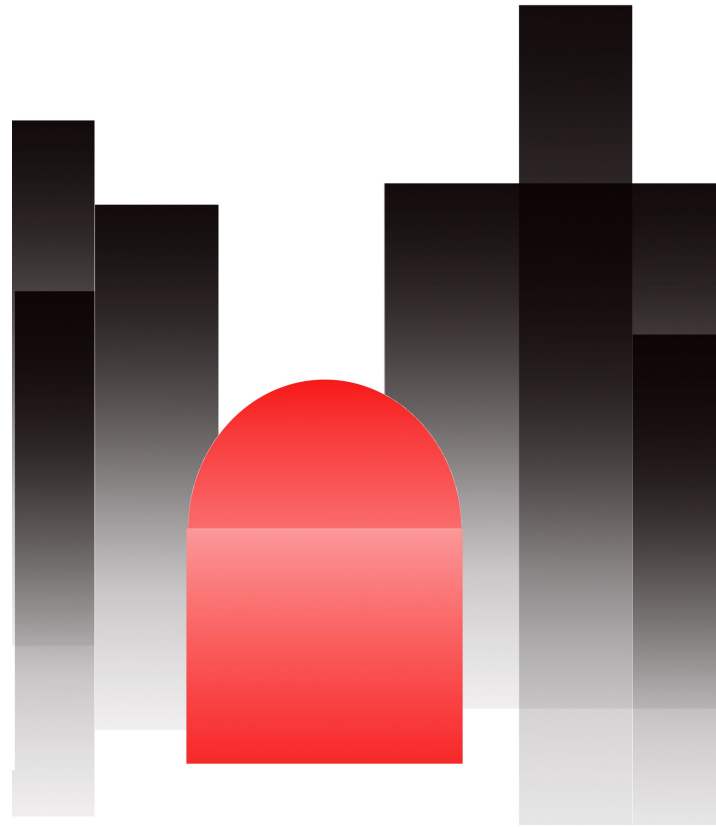
Lifestyle and Design



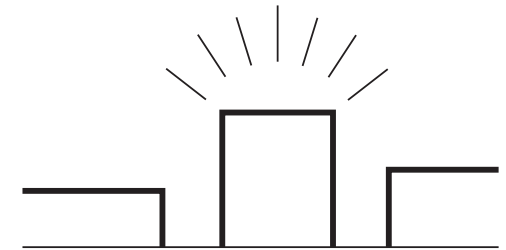
Program



Reinstatement of the dominant presence in the neighbourhood



Weight bearing capabilities



Dominant presence to the neighborhood

Time layers

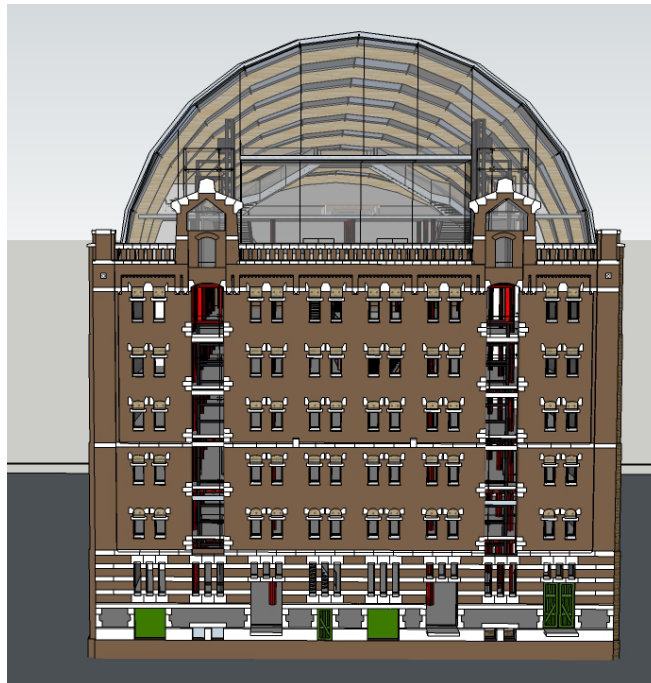
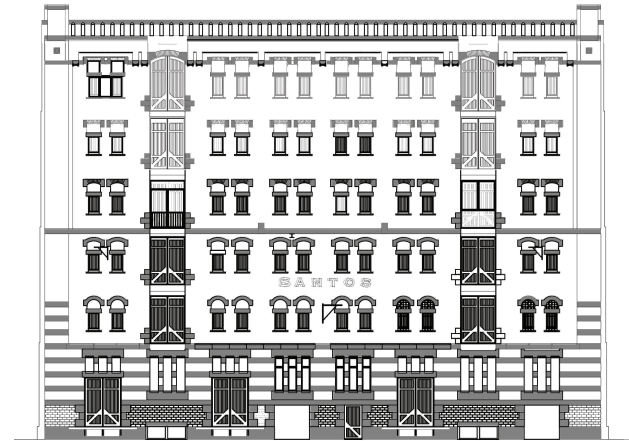


1902-1974

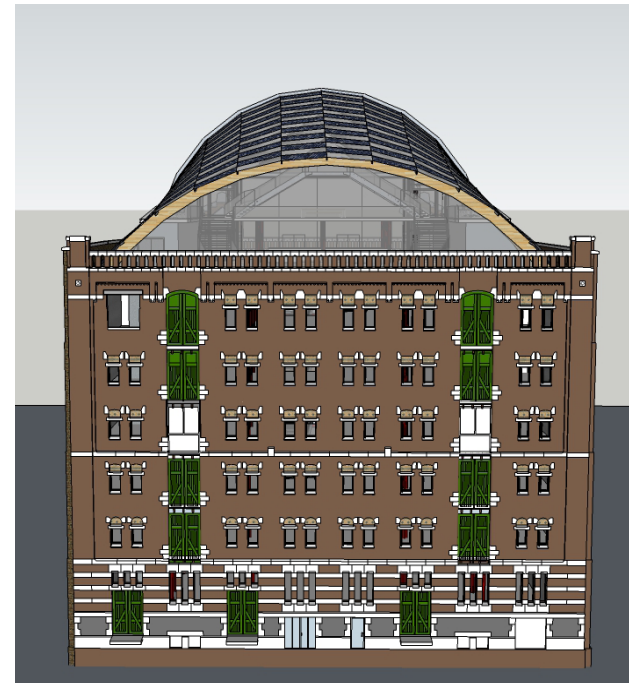


1974-2018

Time layers



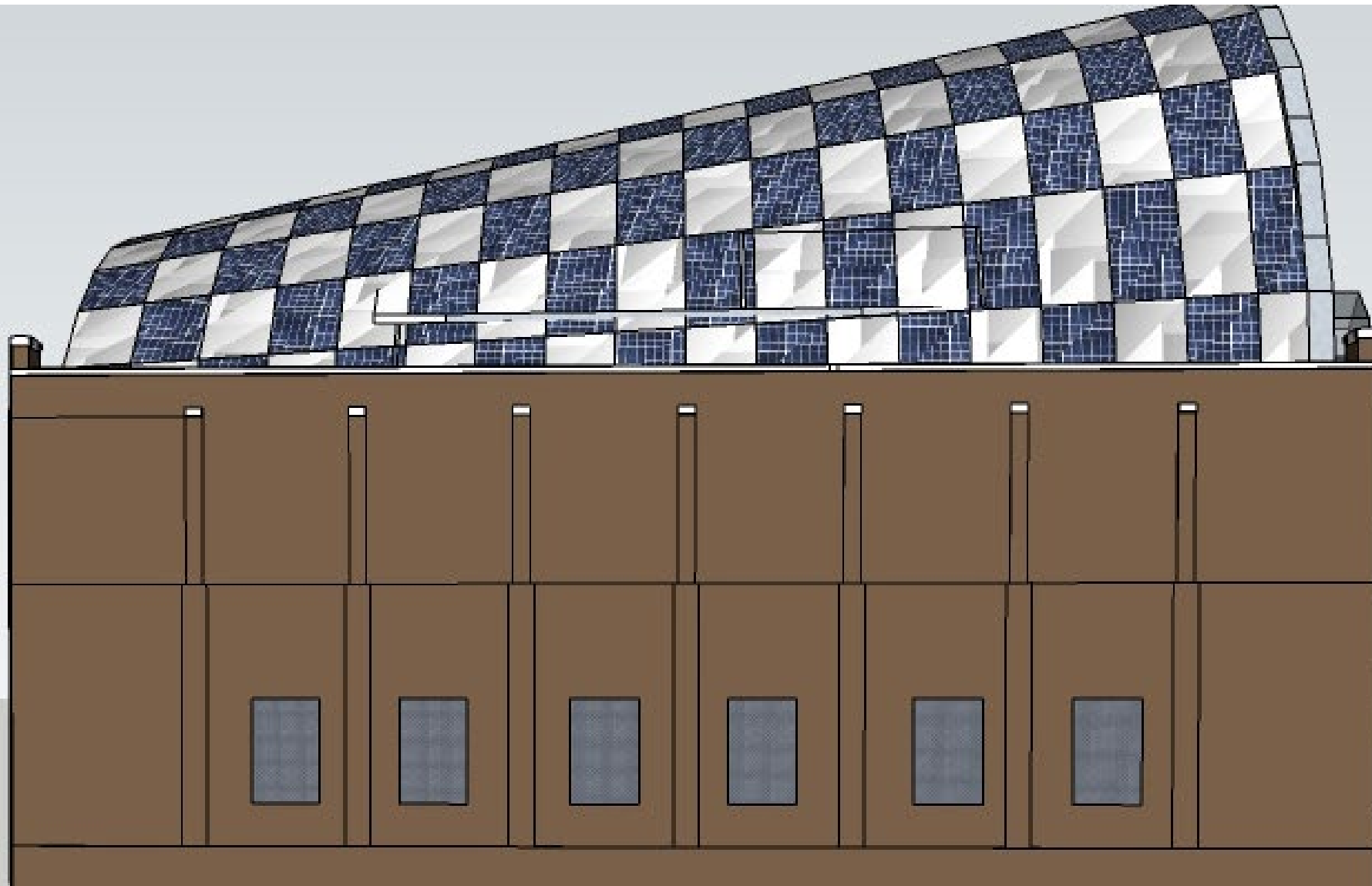
1902-1974+2020



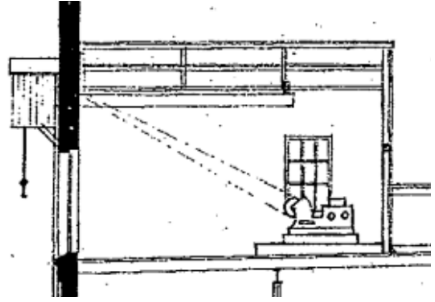
1974-2018+2020



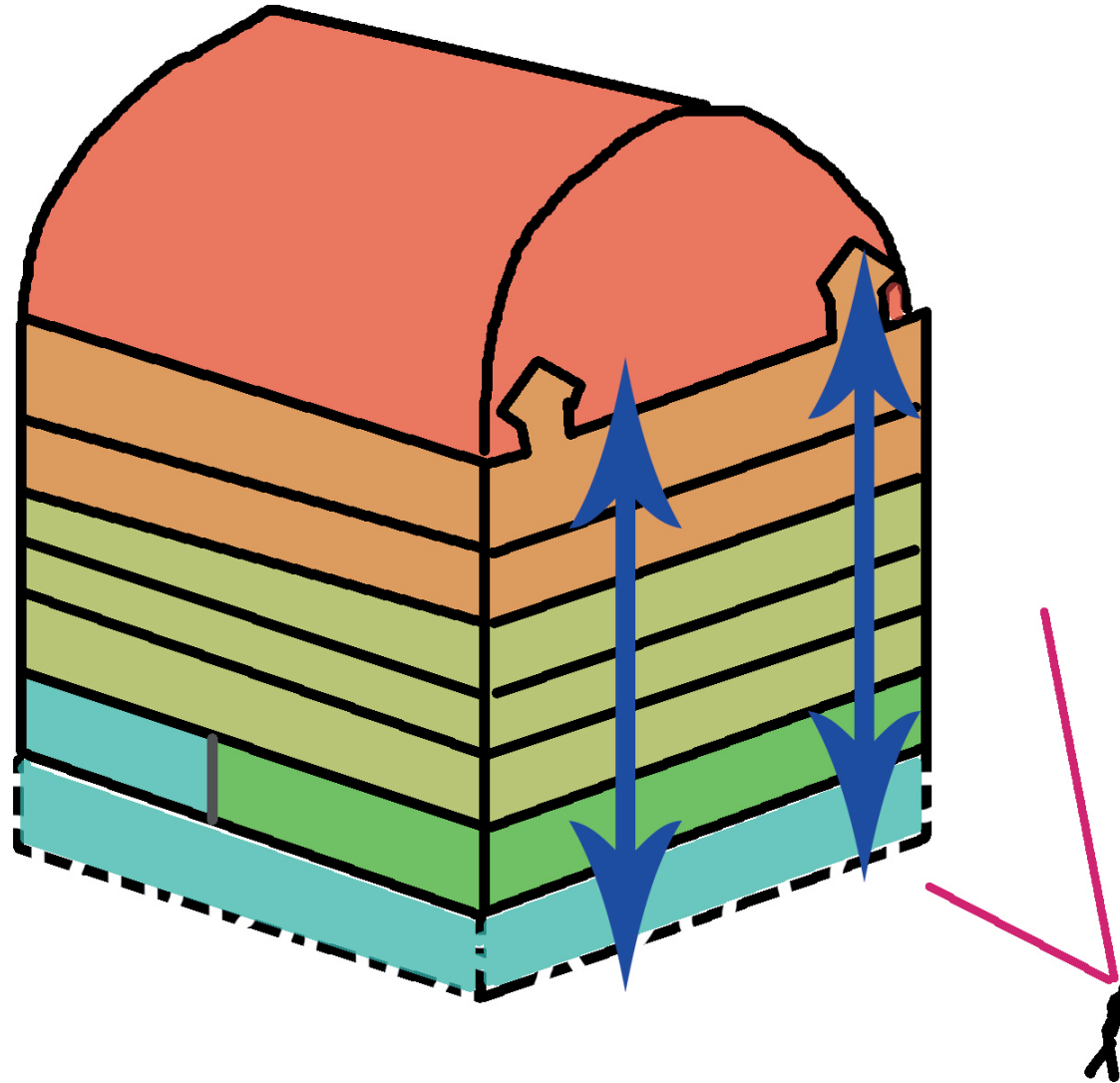
Ornamental pattern



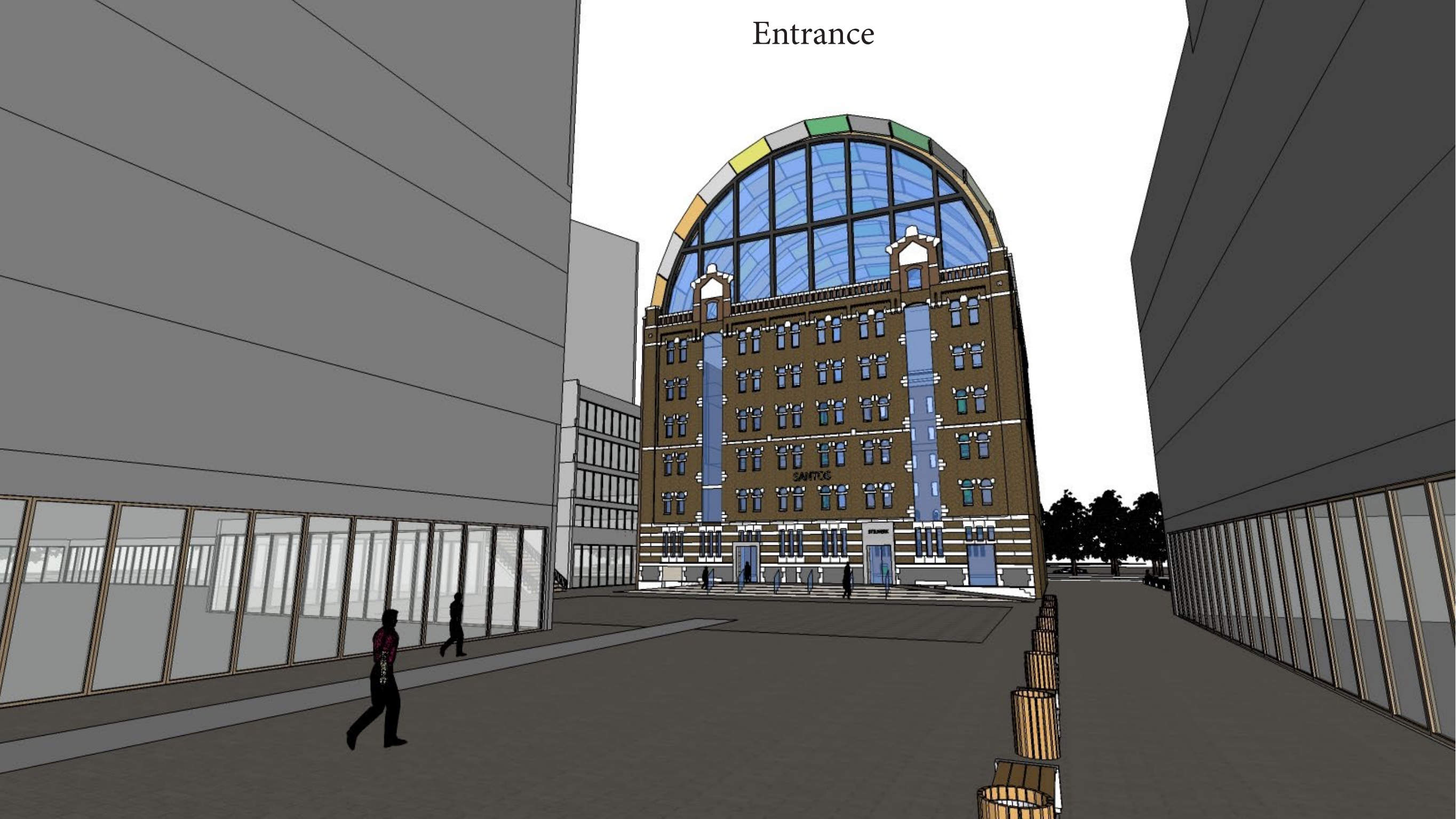
Exterior activity



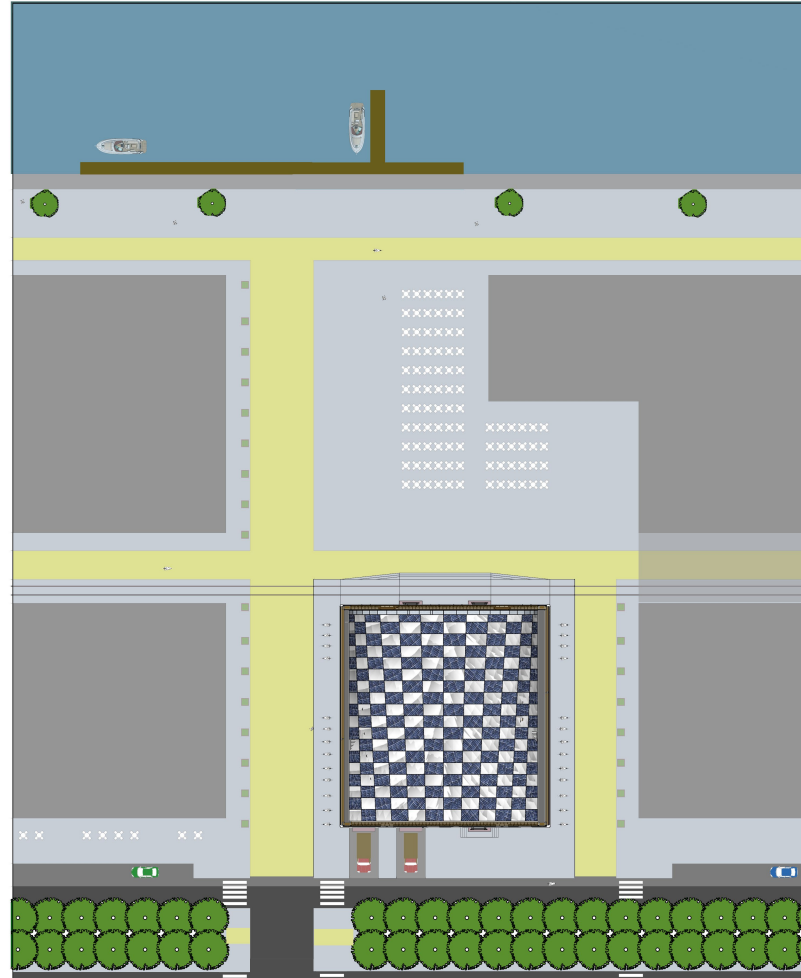
Exterior activity



Entrance



Masterplan



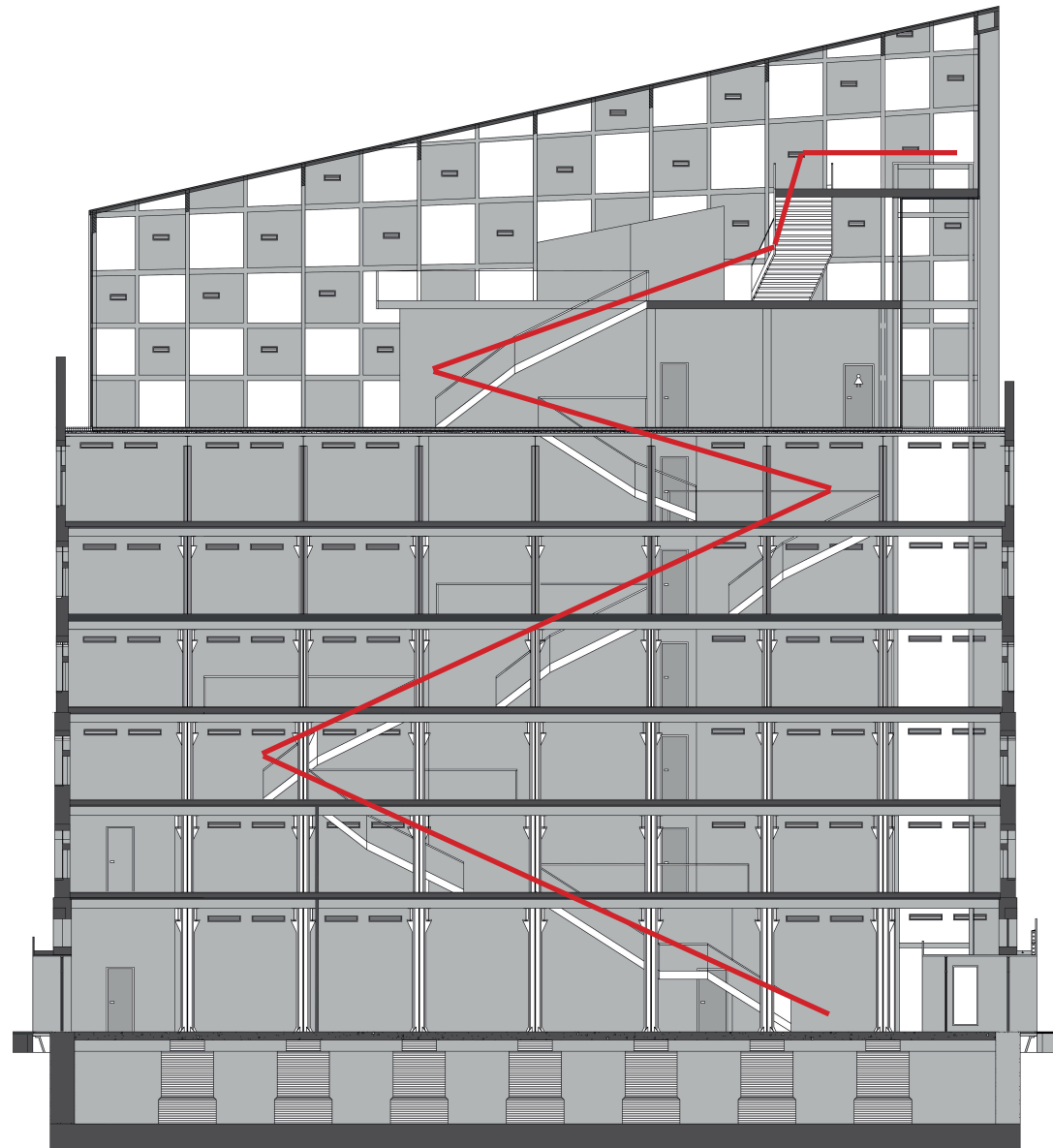


SANTOS

STILWERK

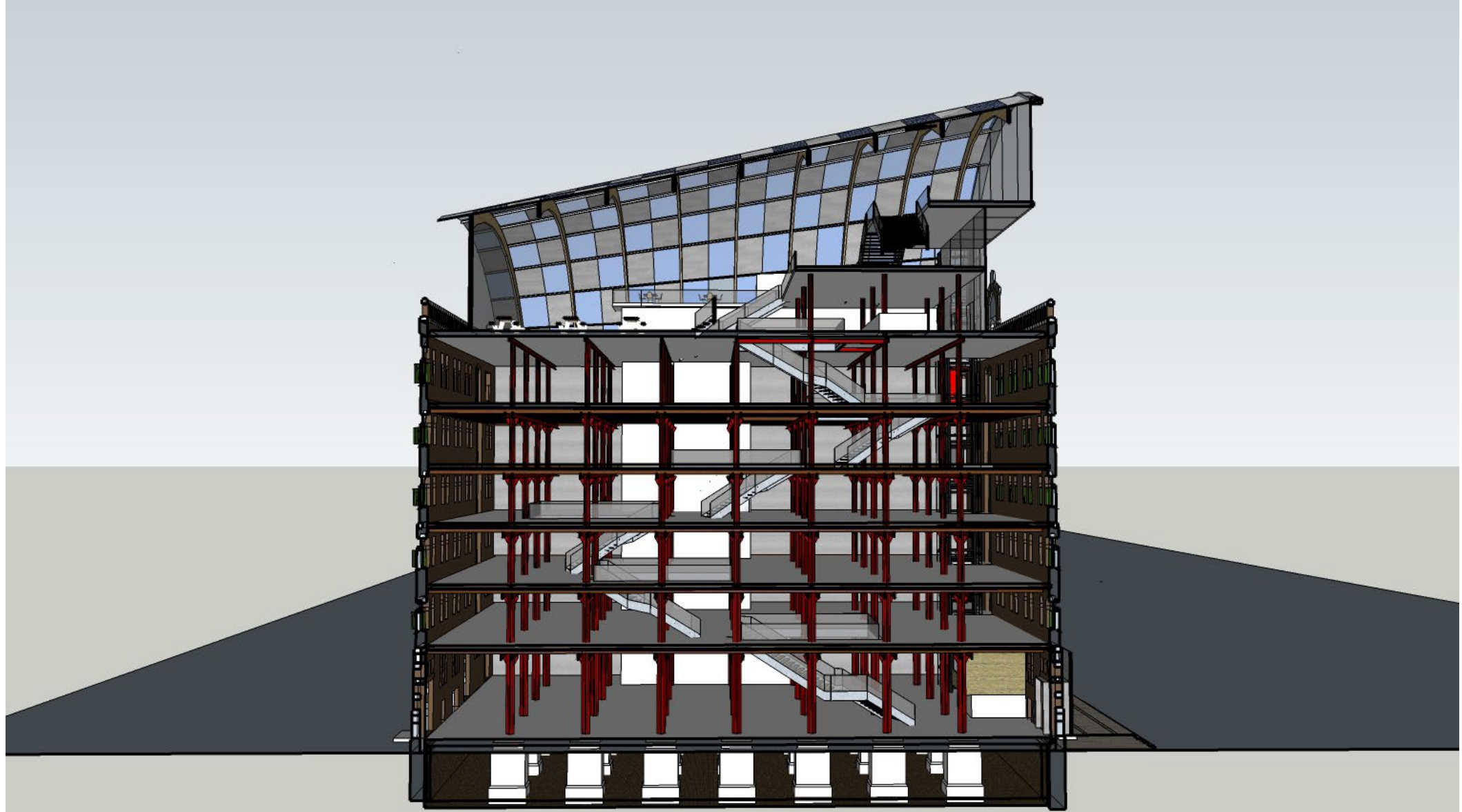
STILWERK

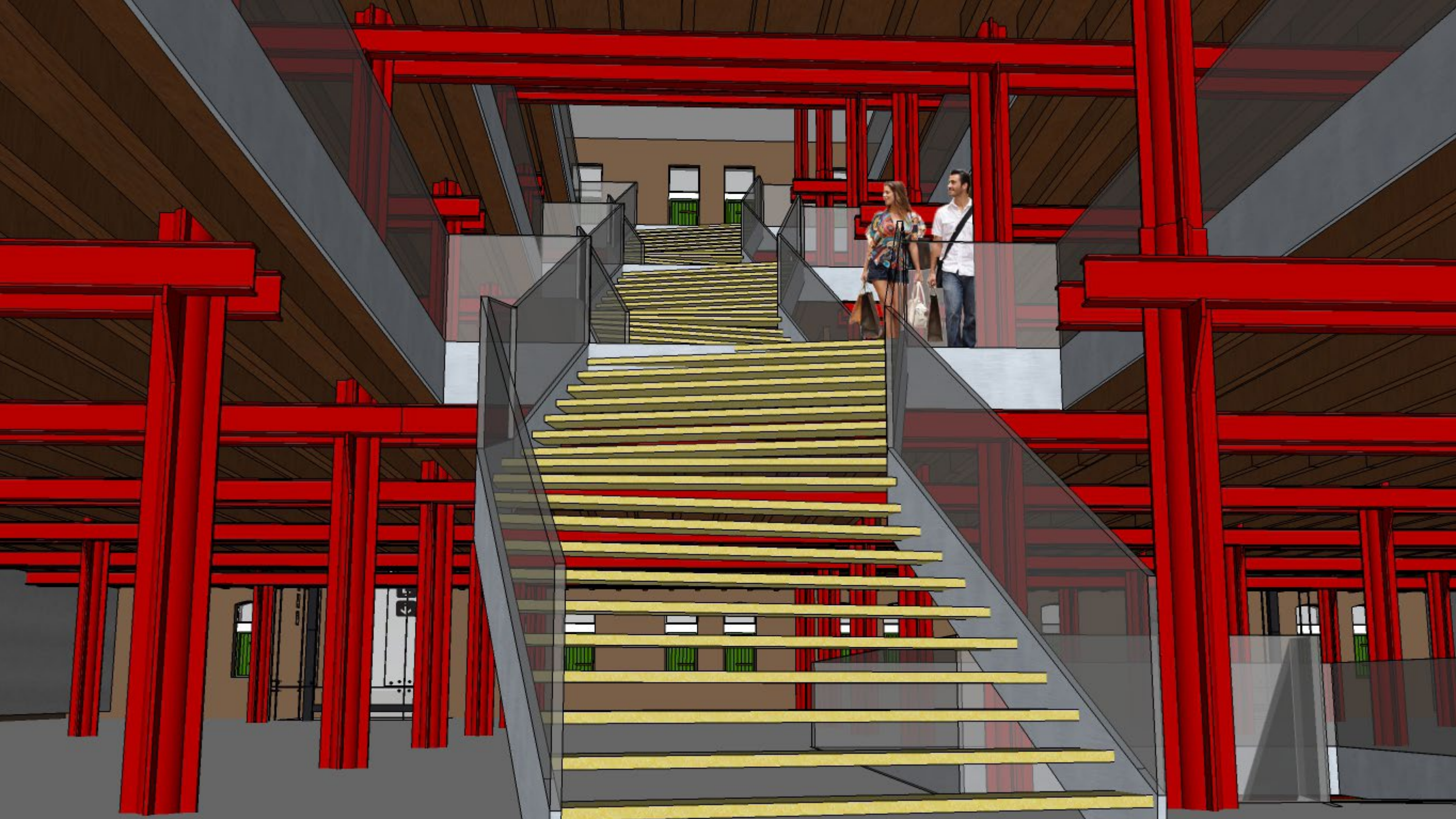
Routing

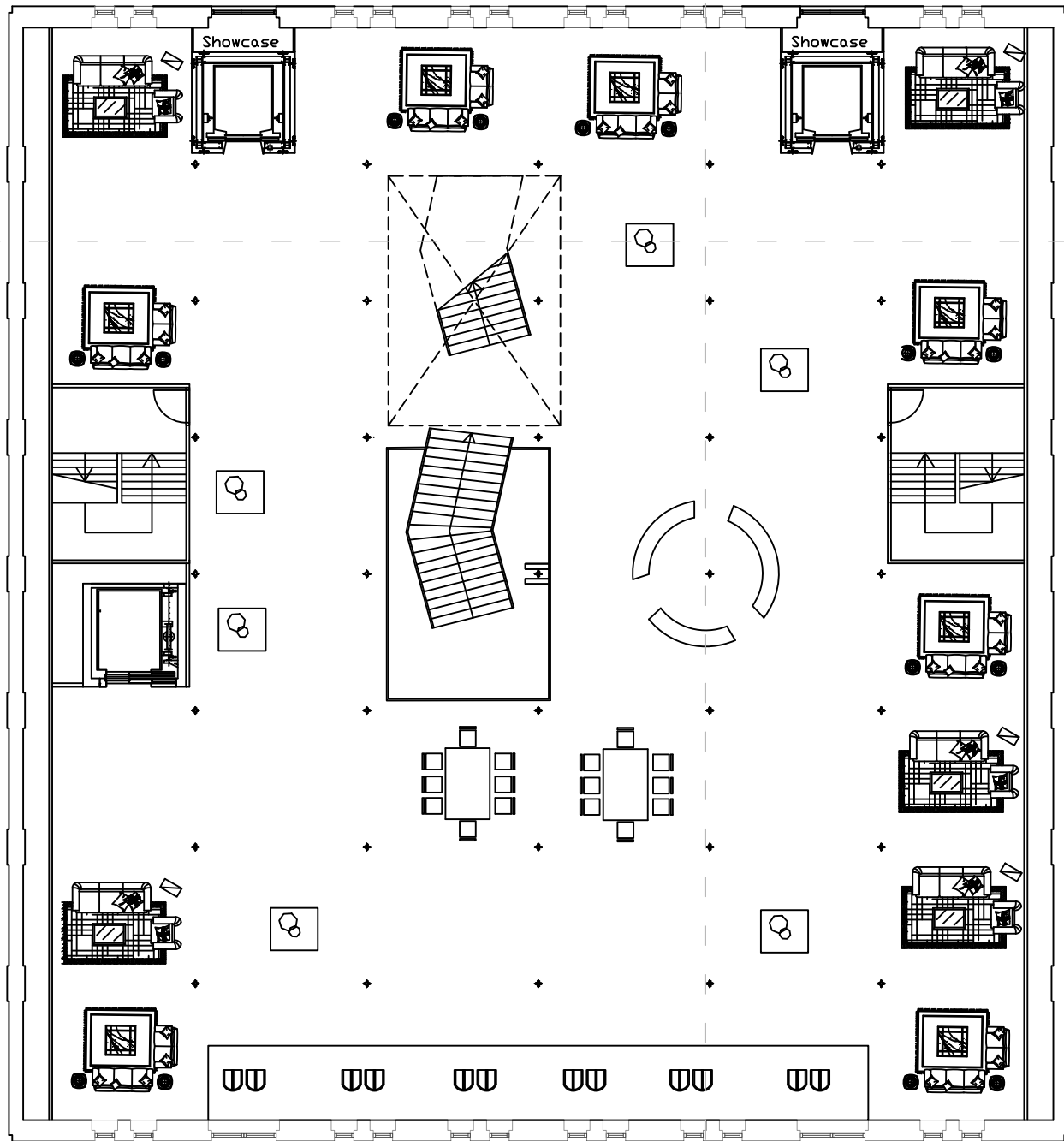


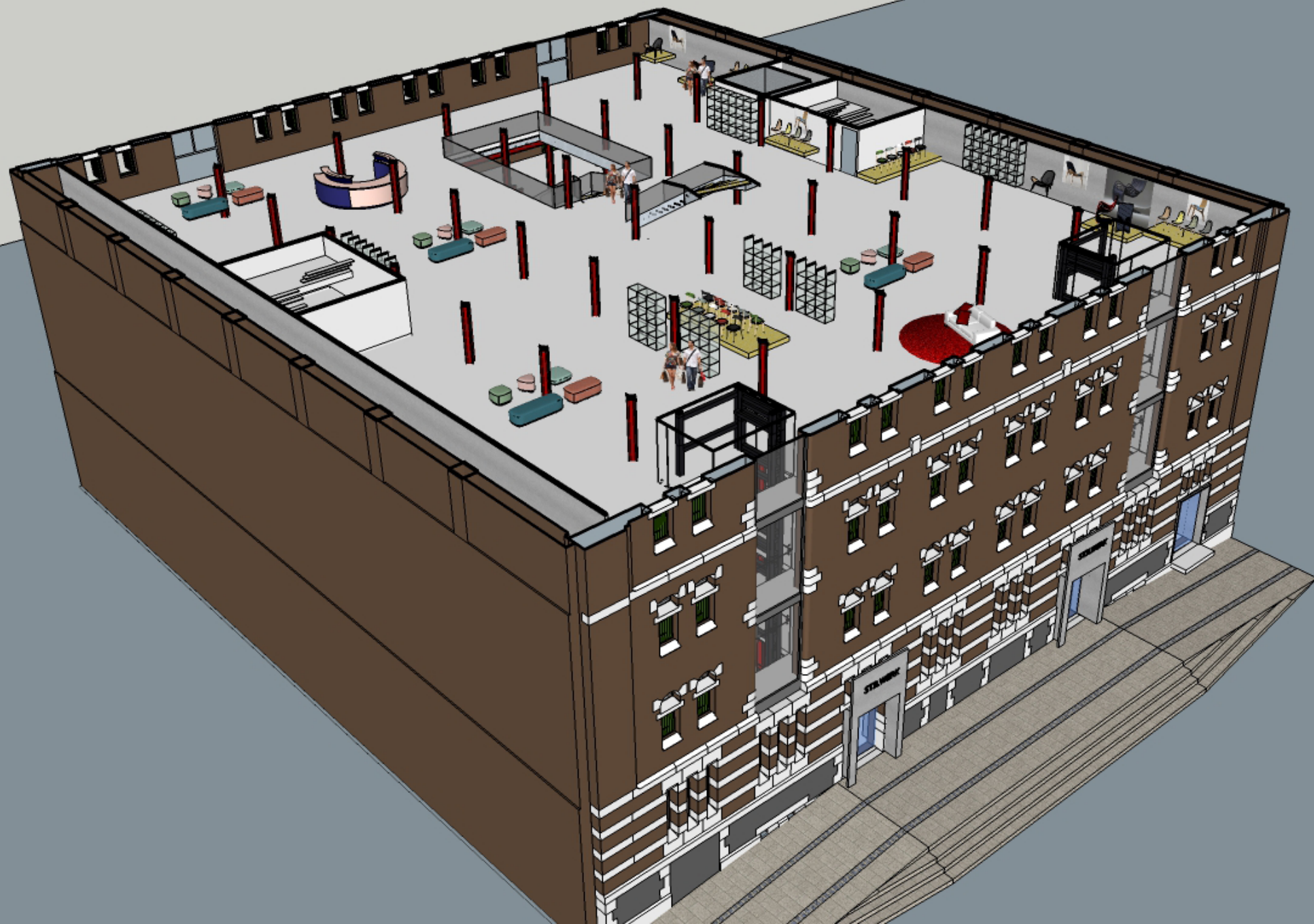
Section AA'

Scale 1:100





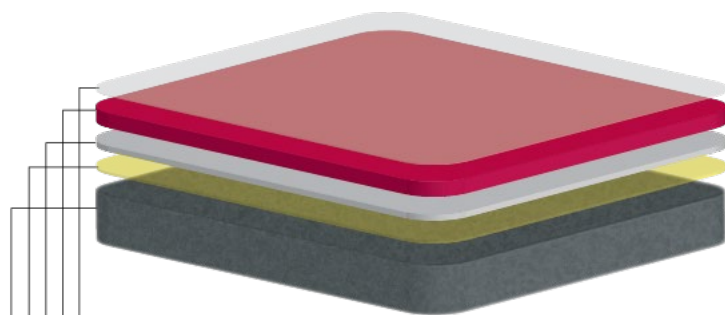






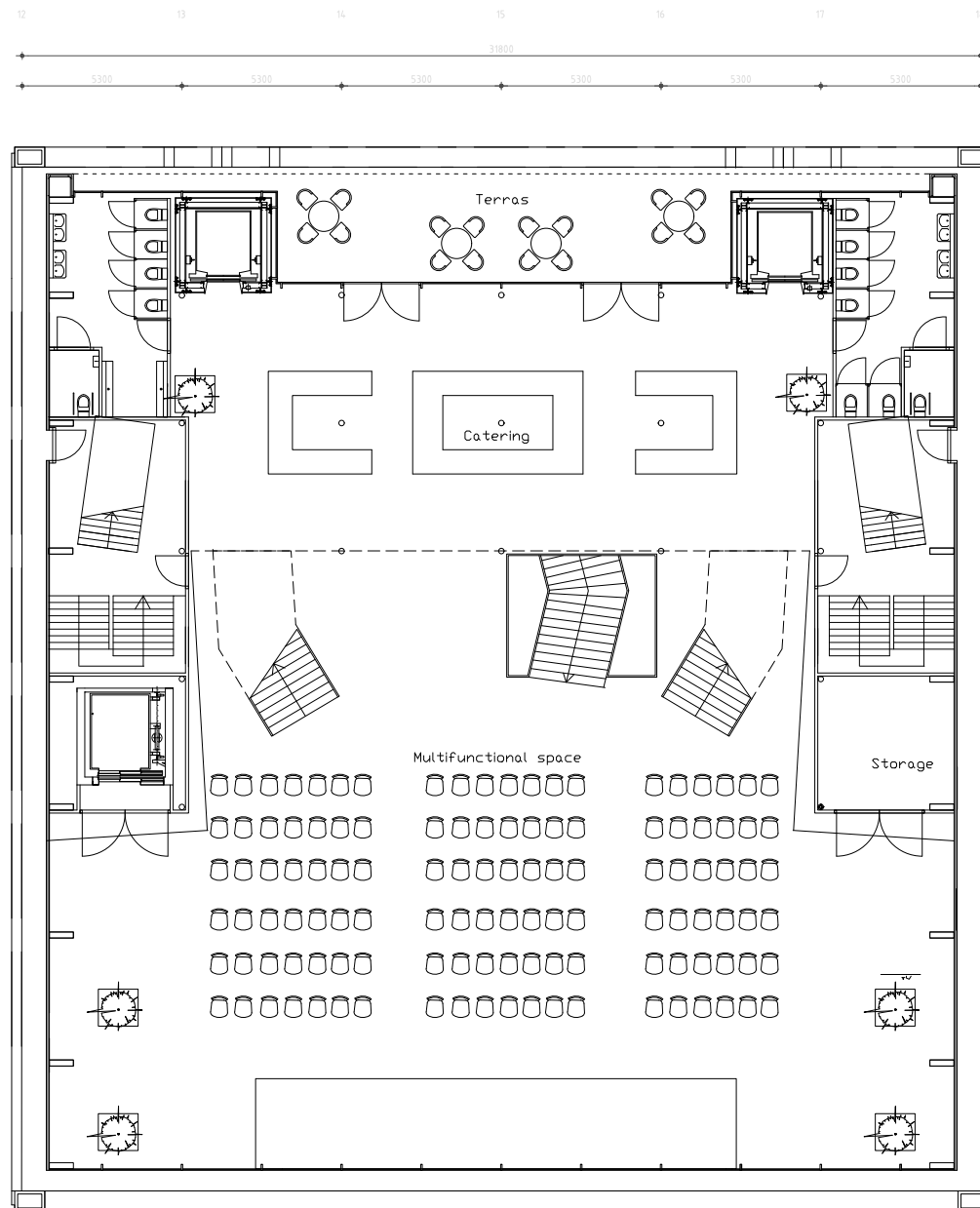
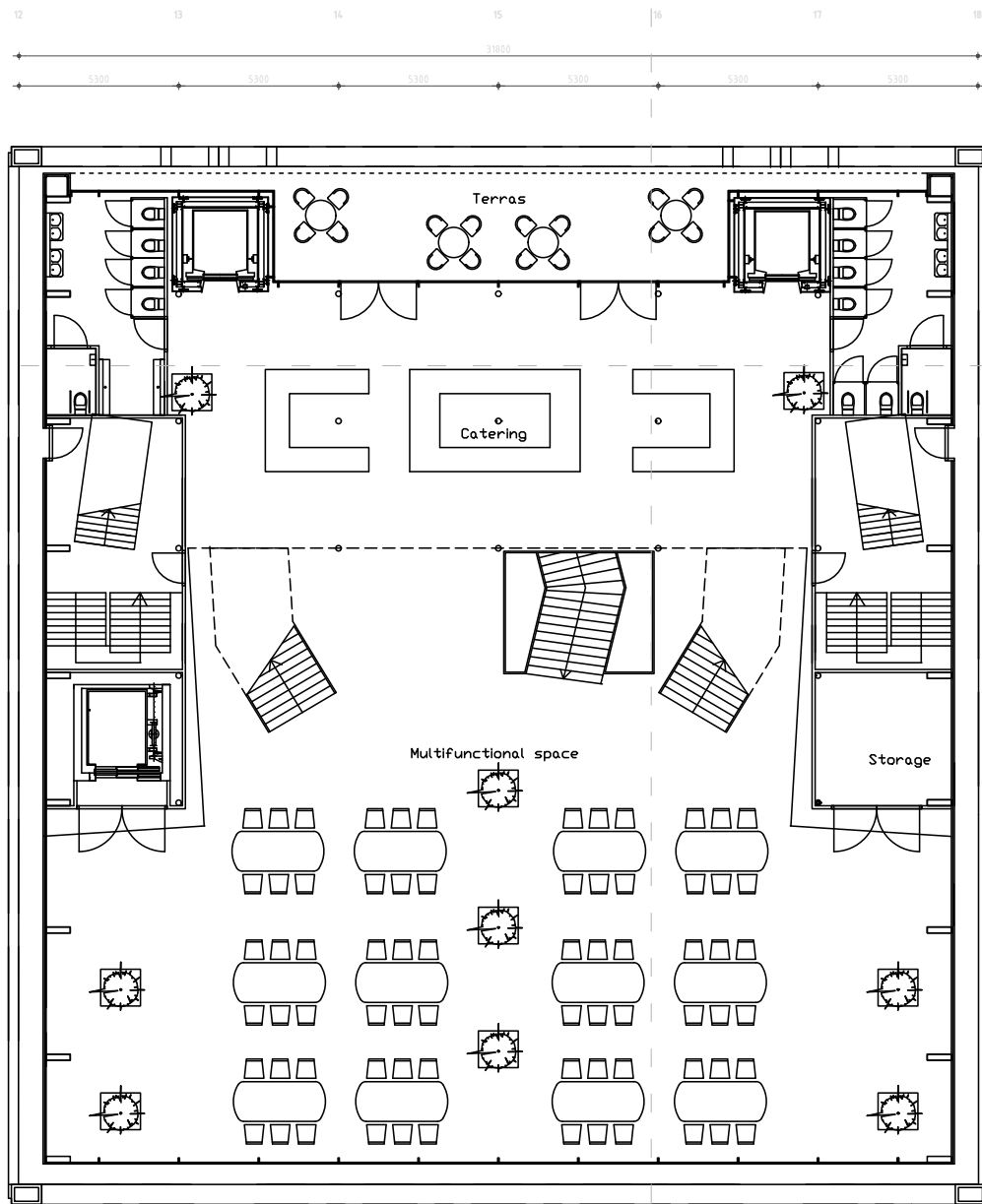
Showroom floor finish

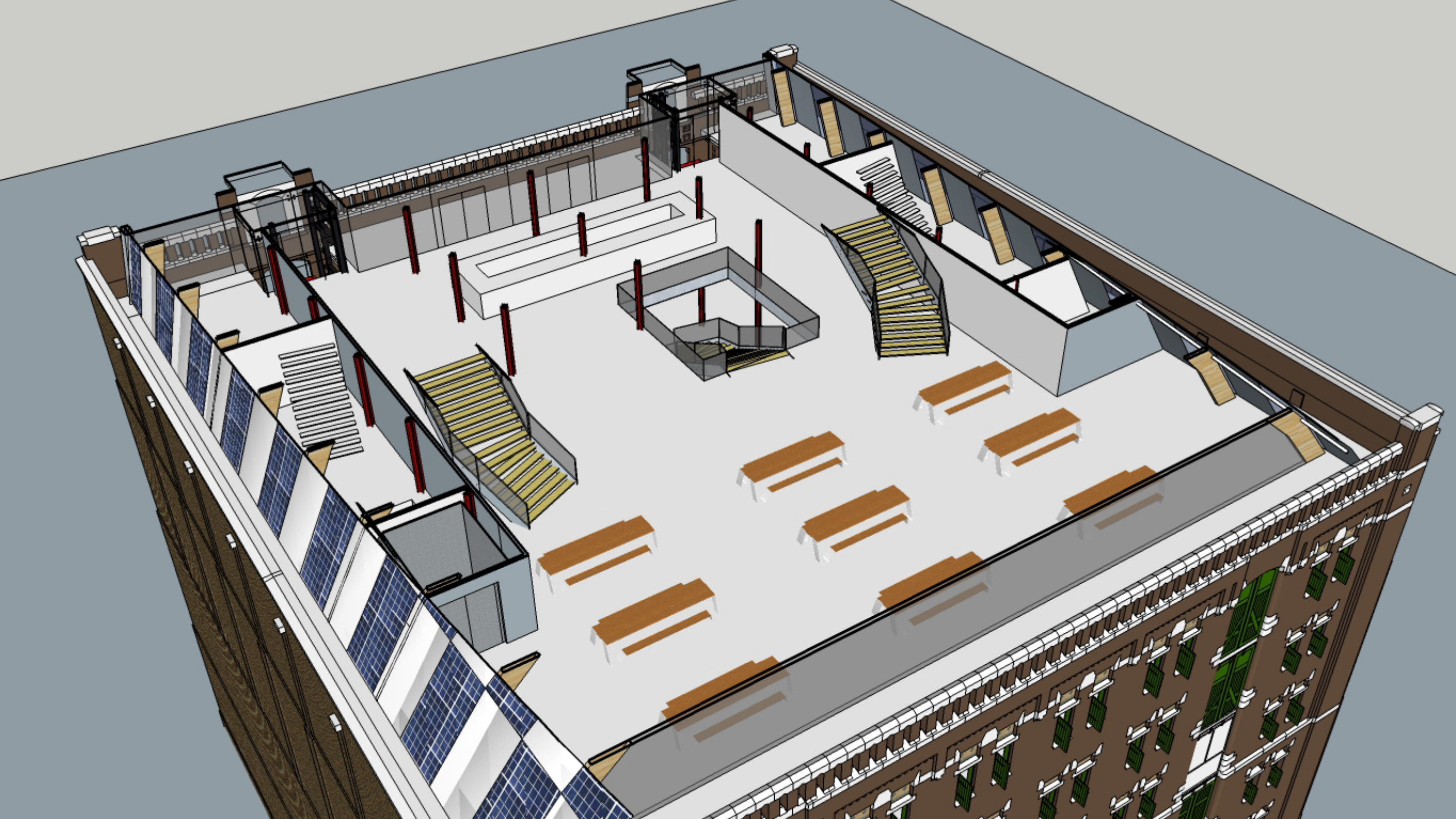
DGF - Wooncomfortabel Vloersysteem

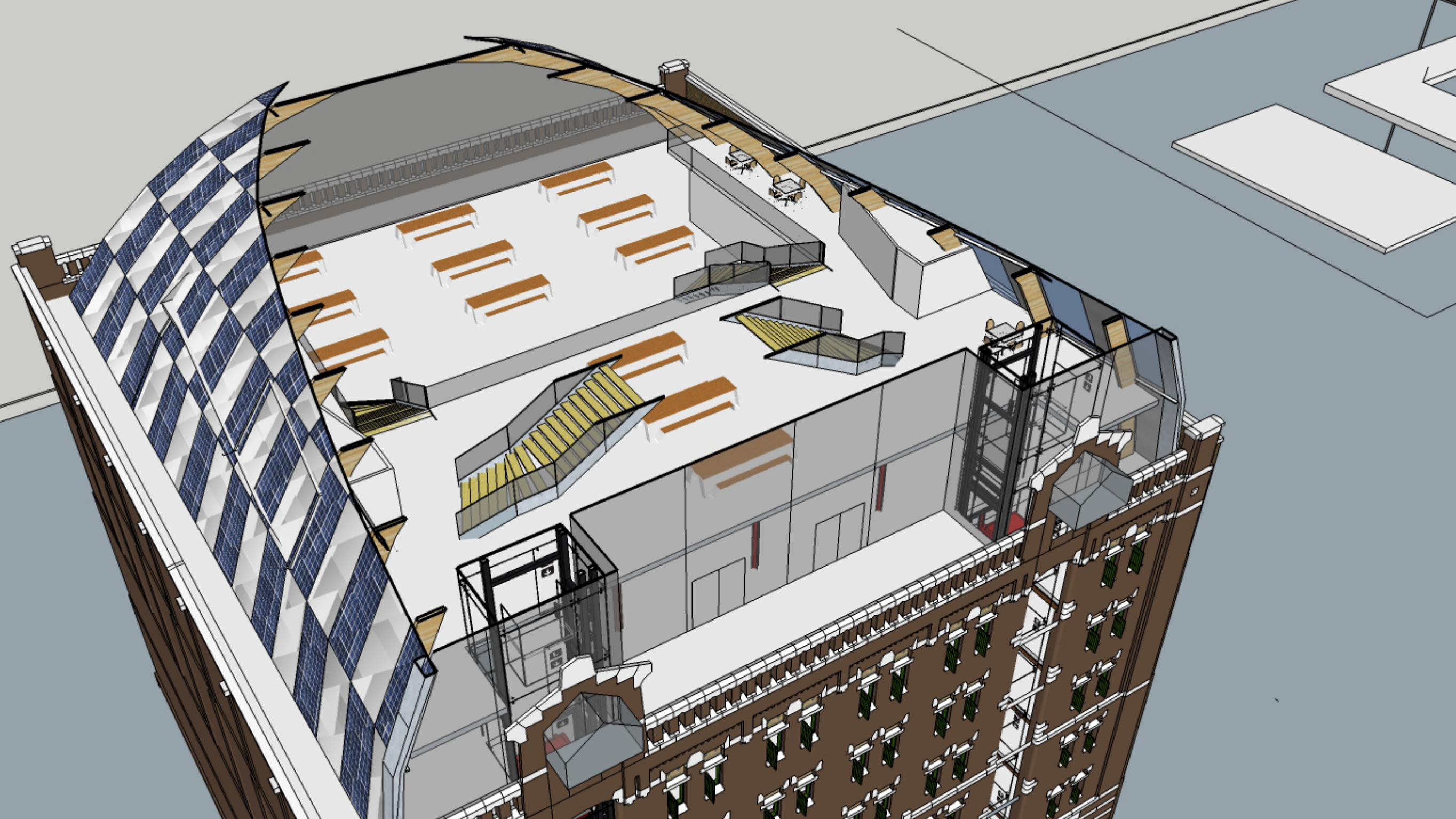


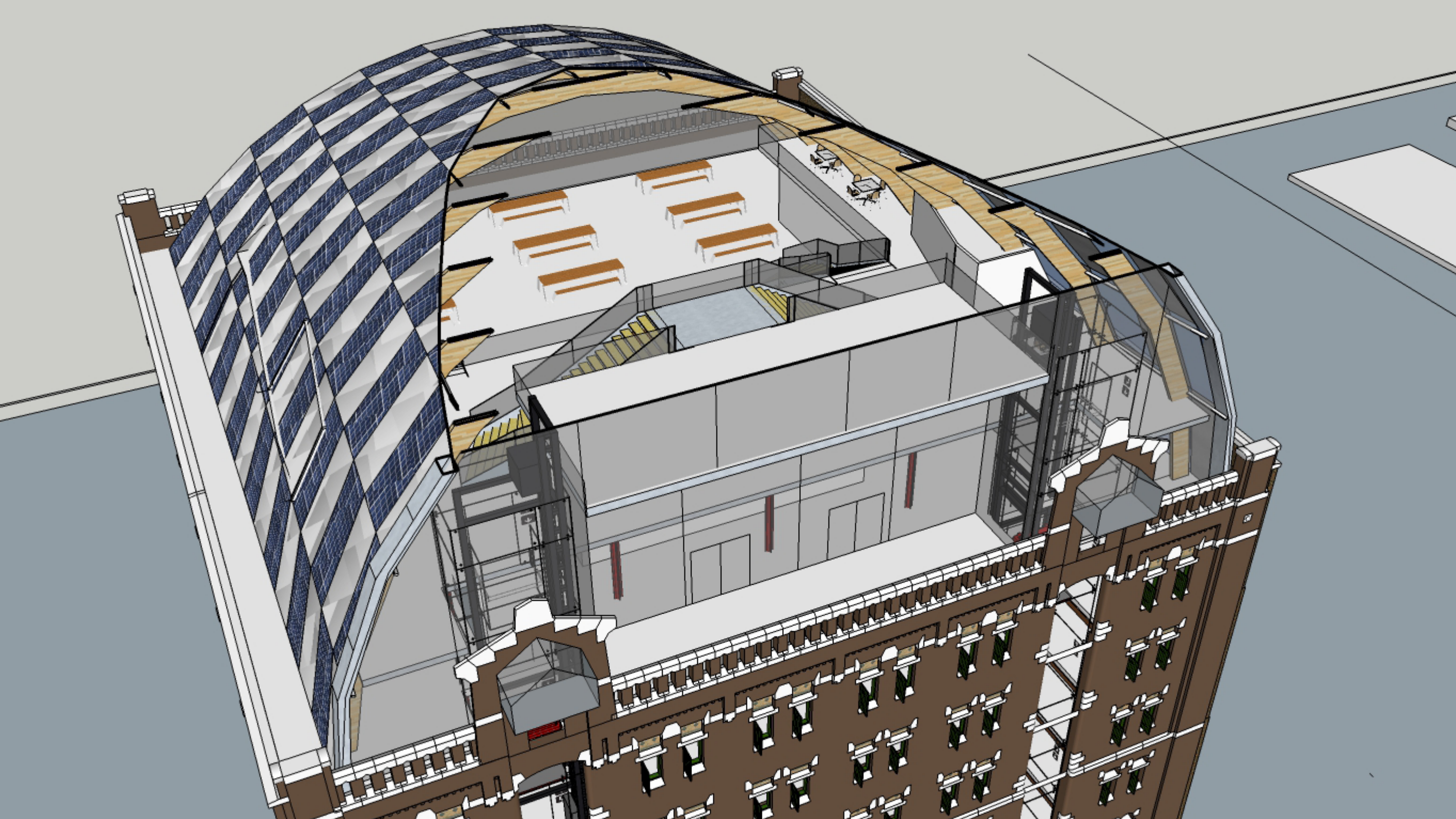
- DGX 4050 : Transparante onderhoudscomfortabele toplaag met zeer hoge slijtvastheid
- DGE 3355 (alifatisch) : Gietvloer, 100% KLEURVASTE polyurethaan versie
- EPS 2190 : Uitvlakmassa, ter versterking van de ondervloer
- EPP 1090 : Hechtlaag voor een goede hechting op de ondergrond
- Ondergrond



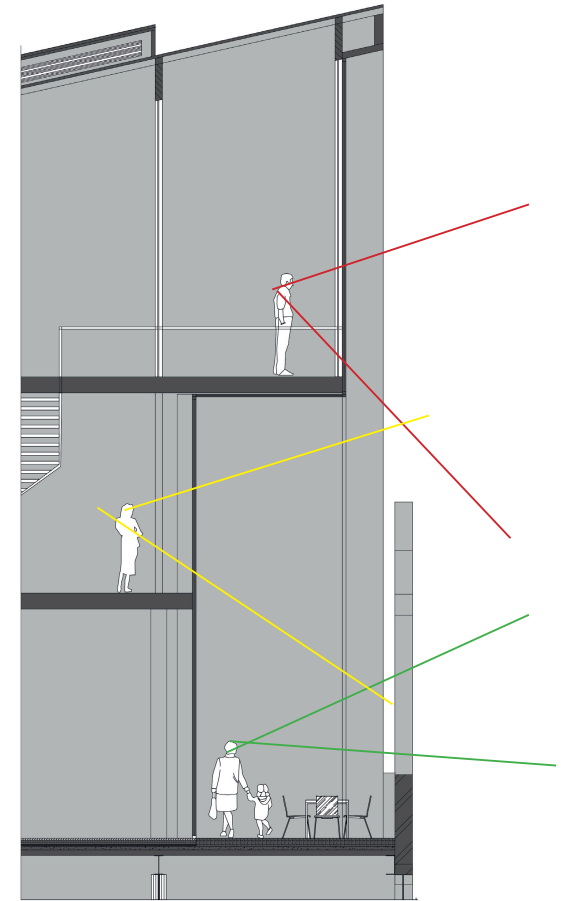
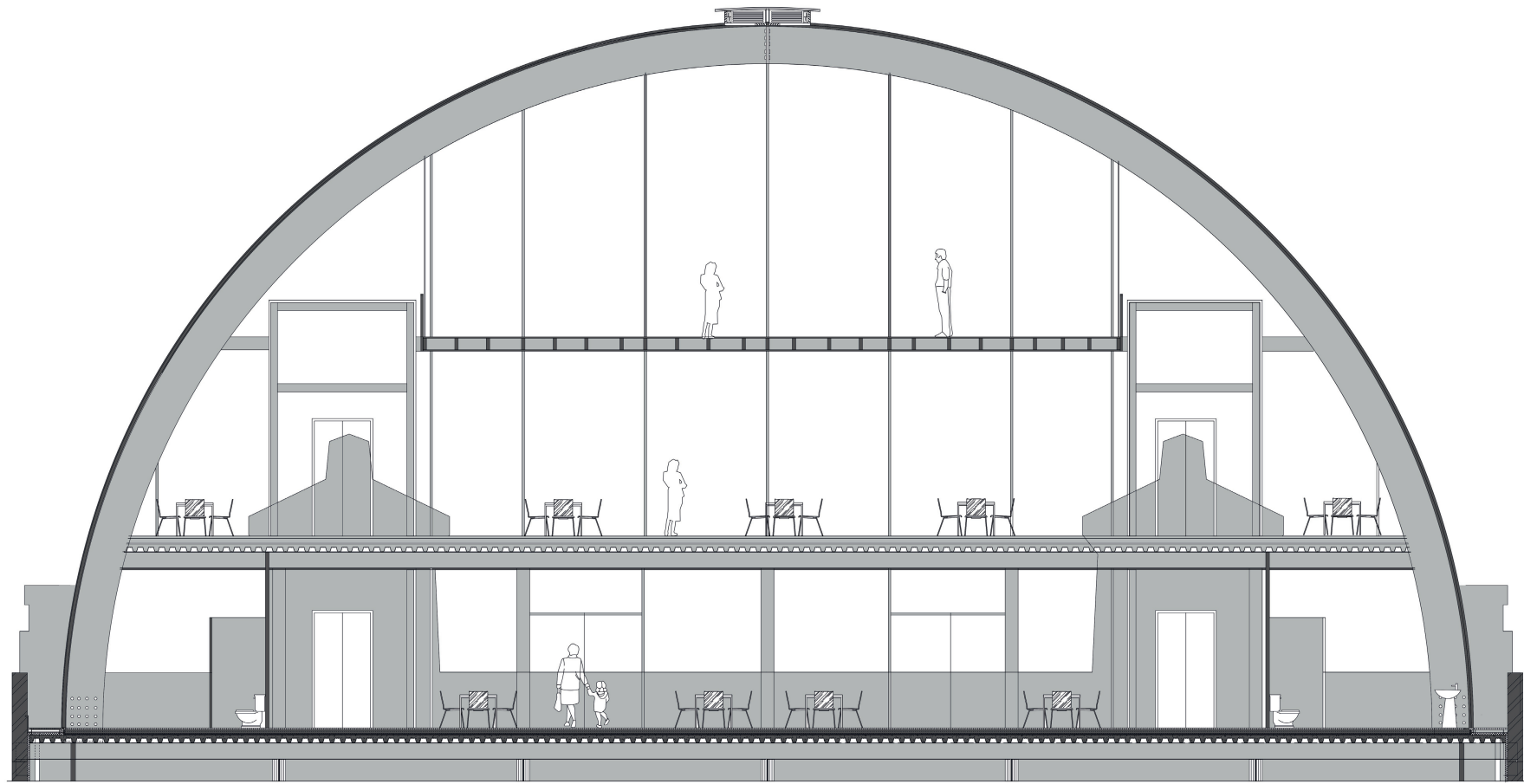






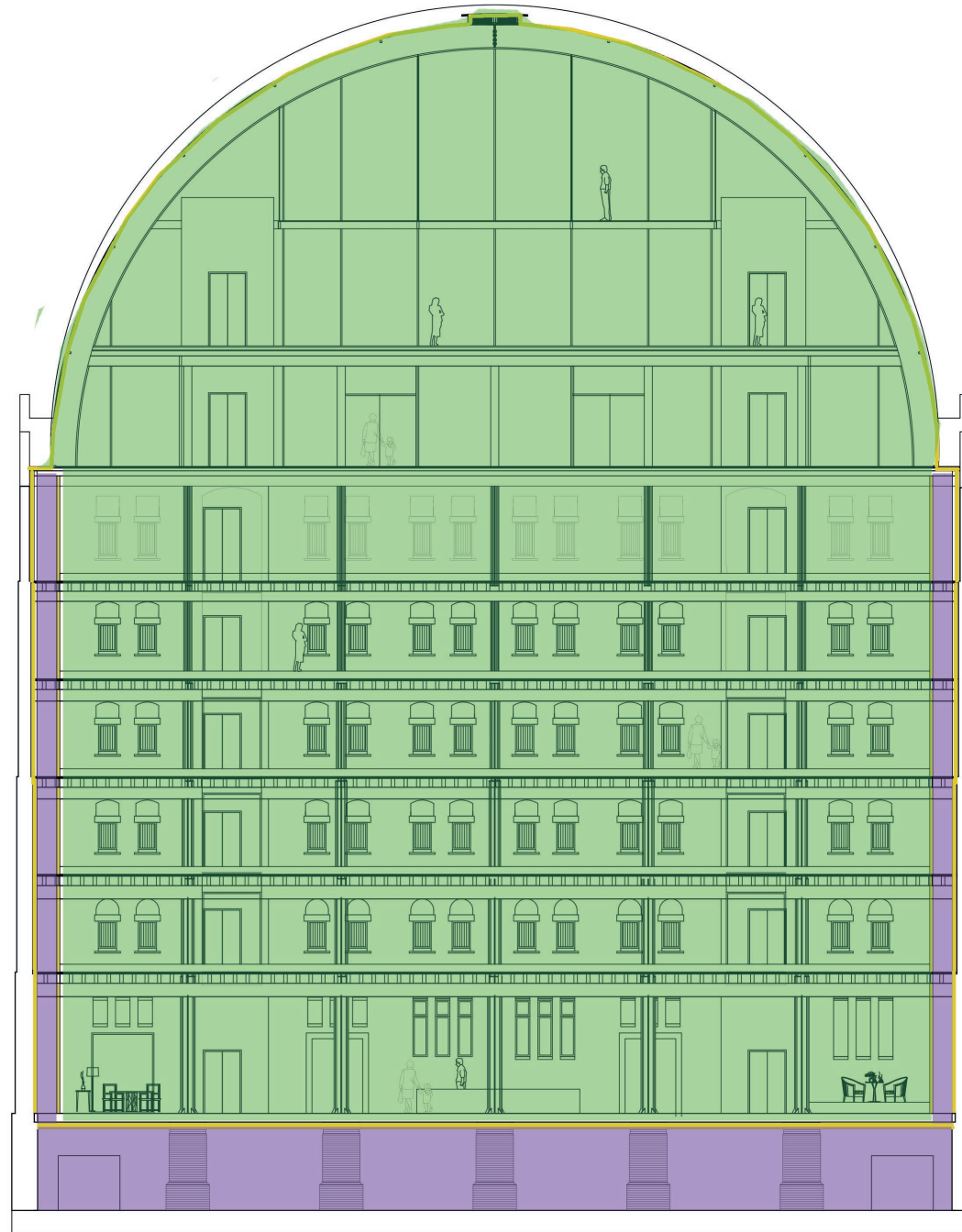


The view





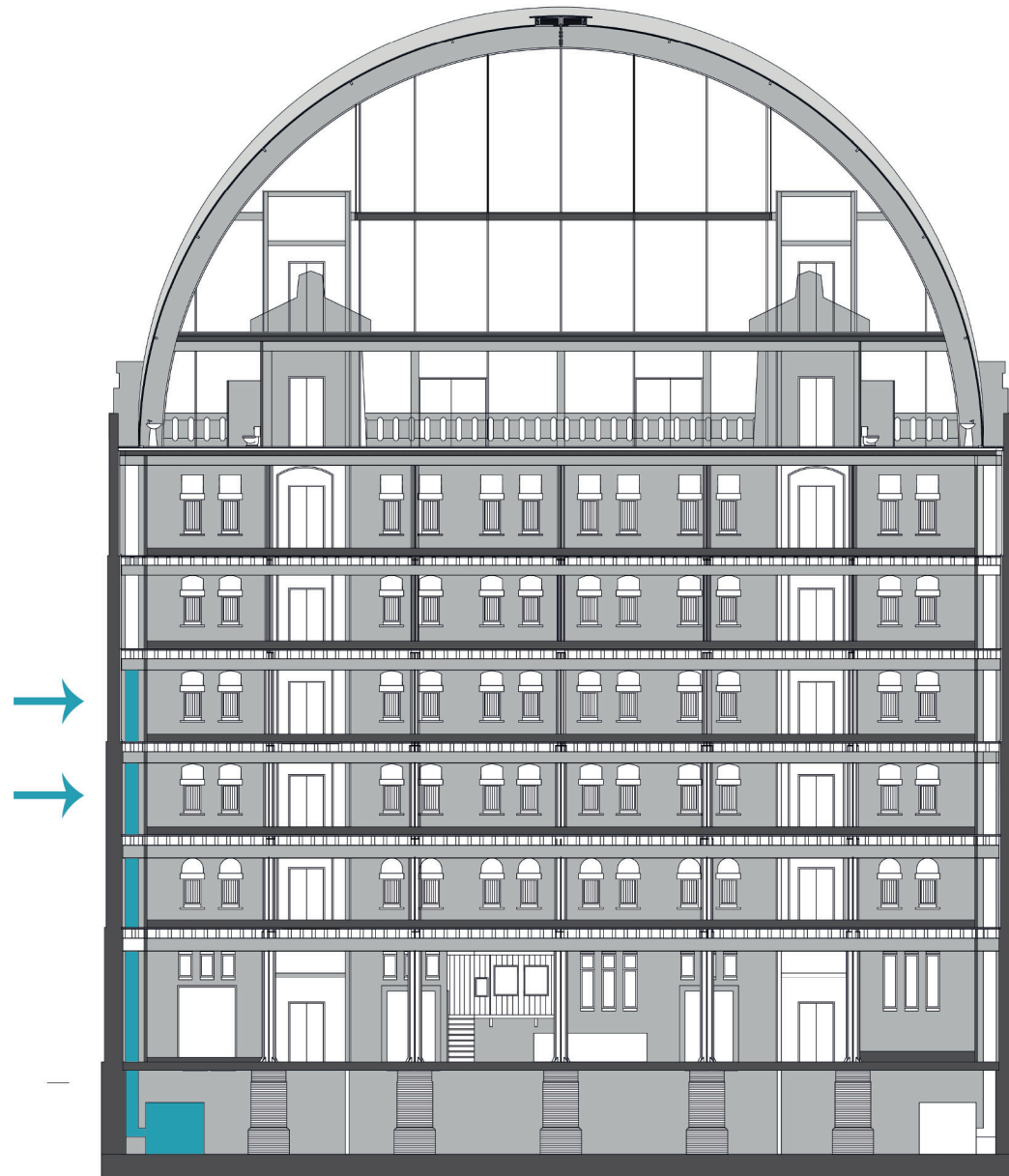
Insulation



Current facade insulation degree: $R_c=0,36$
N-S = 0,34 and E-W = 0,38

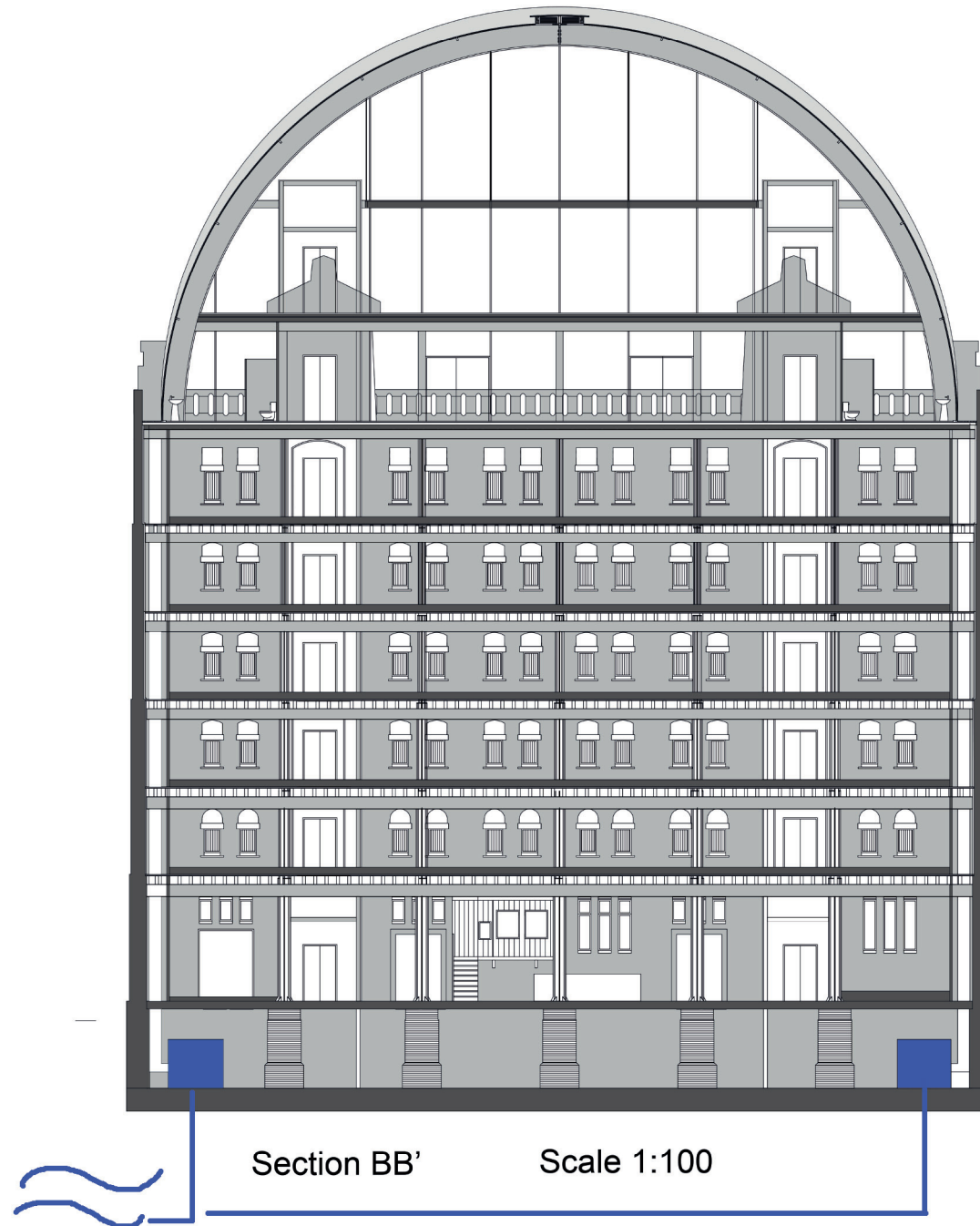
Proposed facade insulation degree: $R_c= 4,15$
N-S = 1,23 and E-W = 7.07

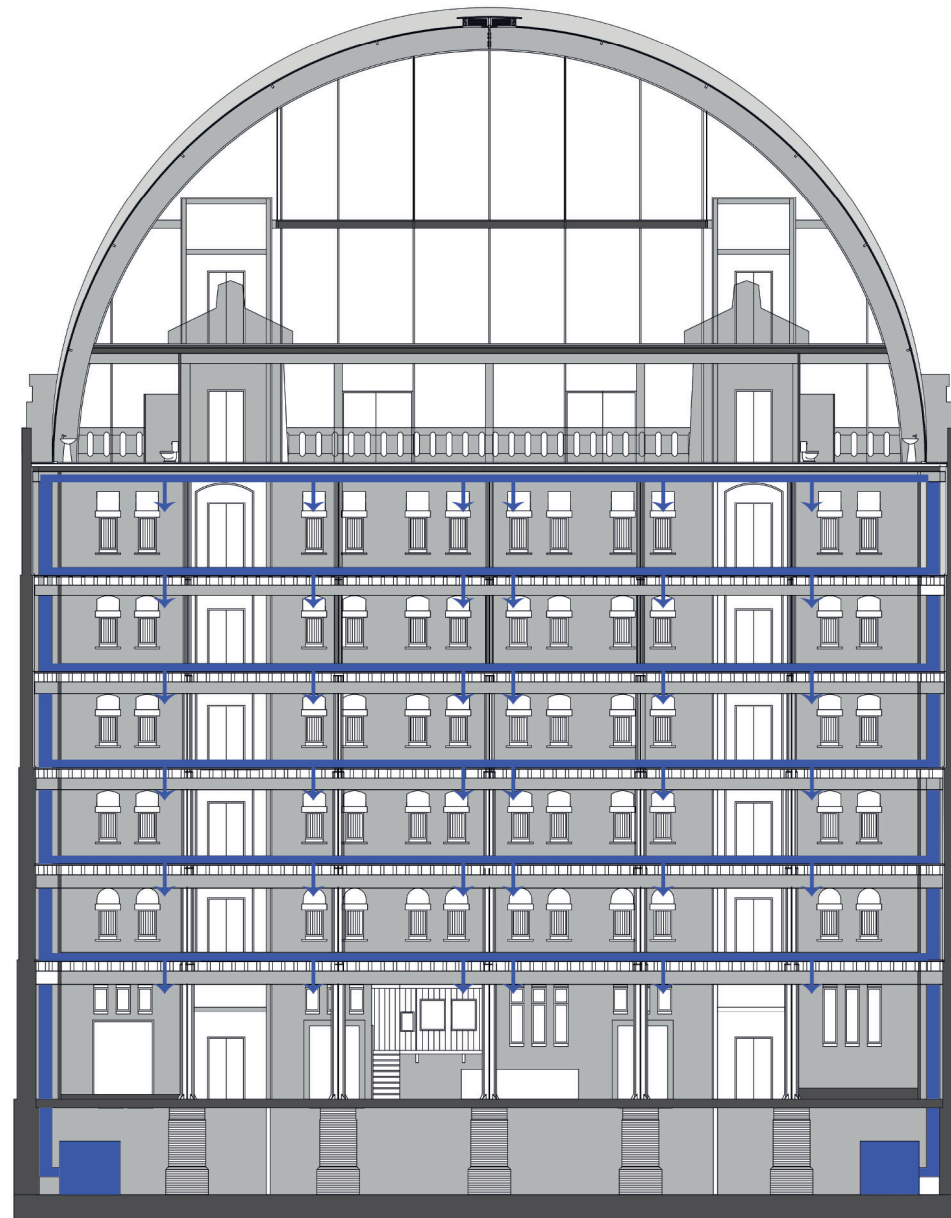
Ventilation



Section BB'

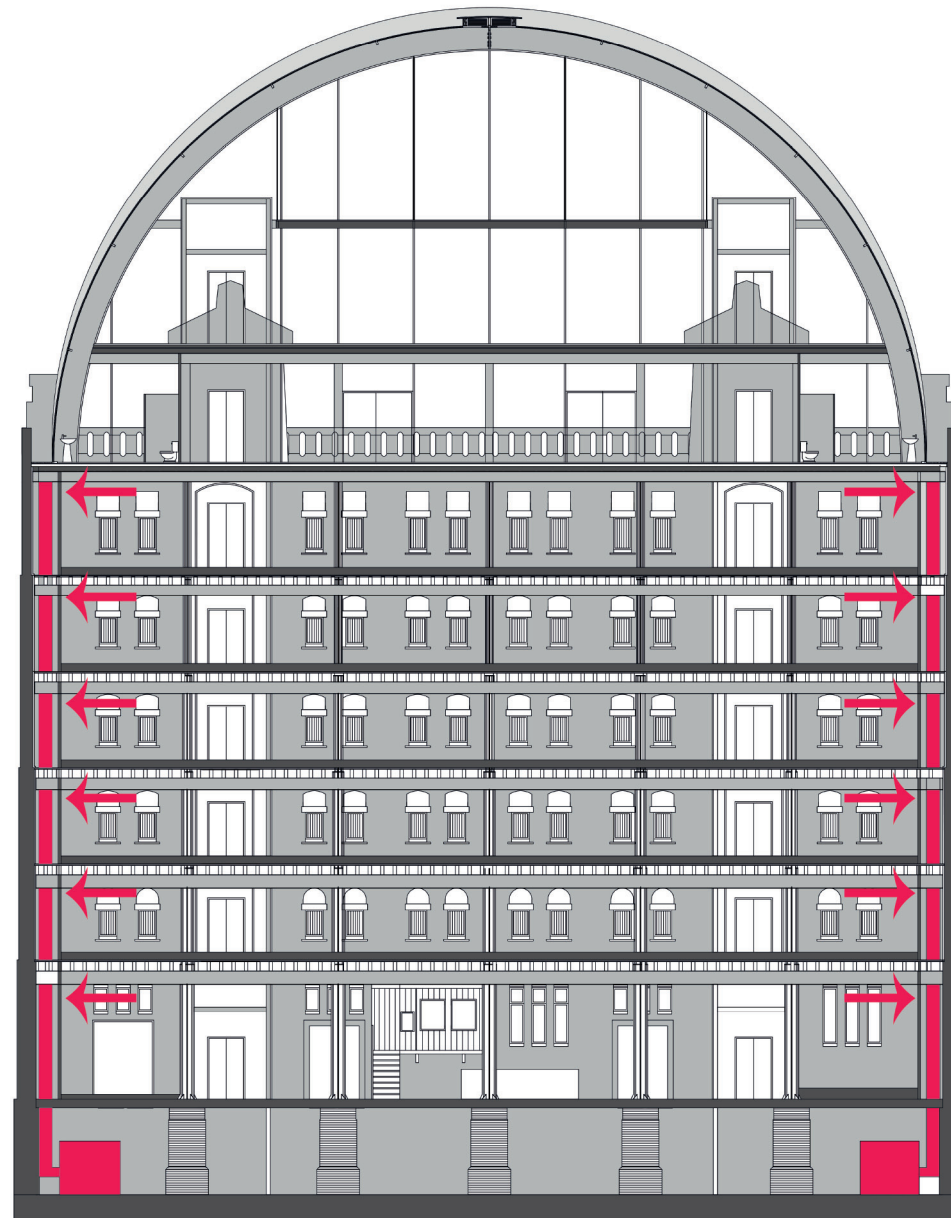
Scale 1:100





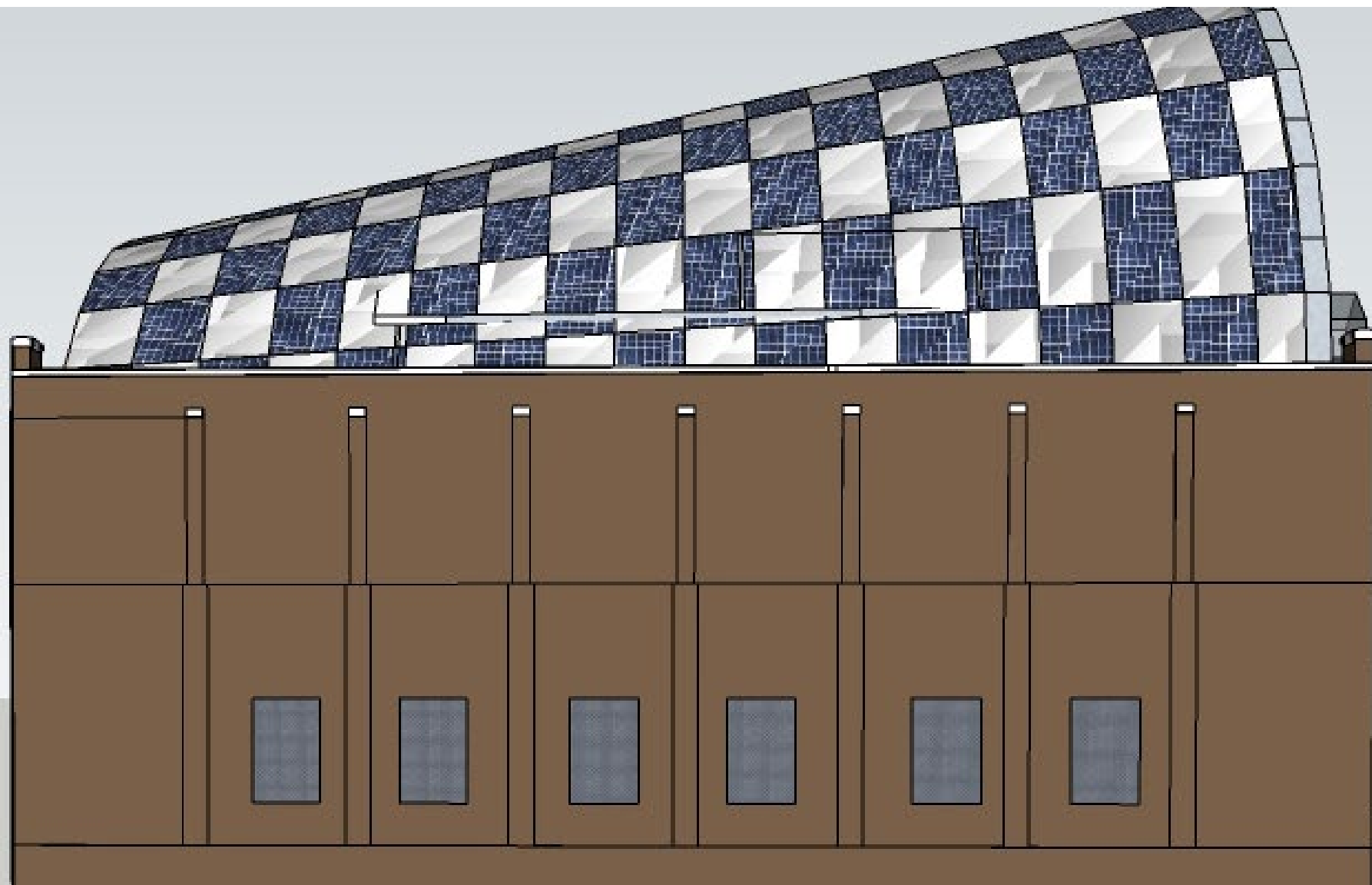
Section BB'

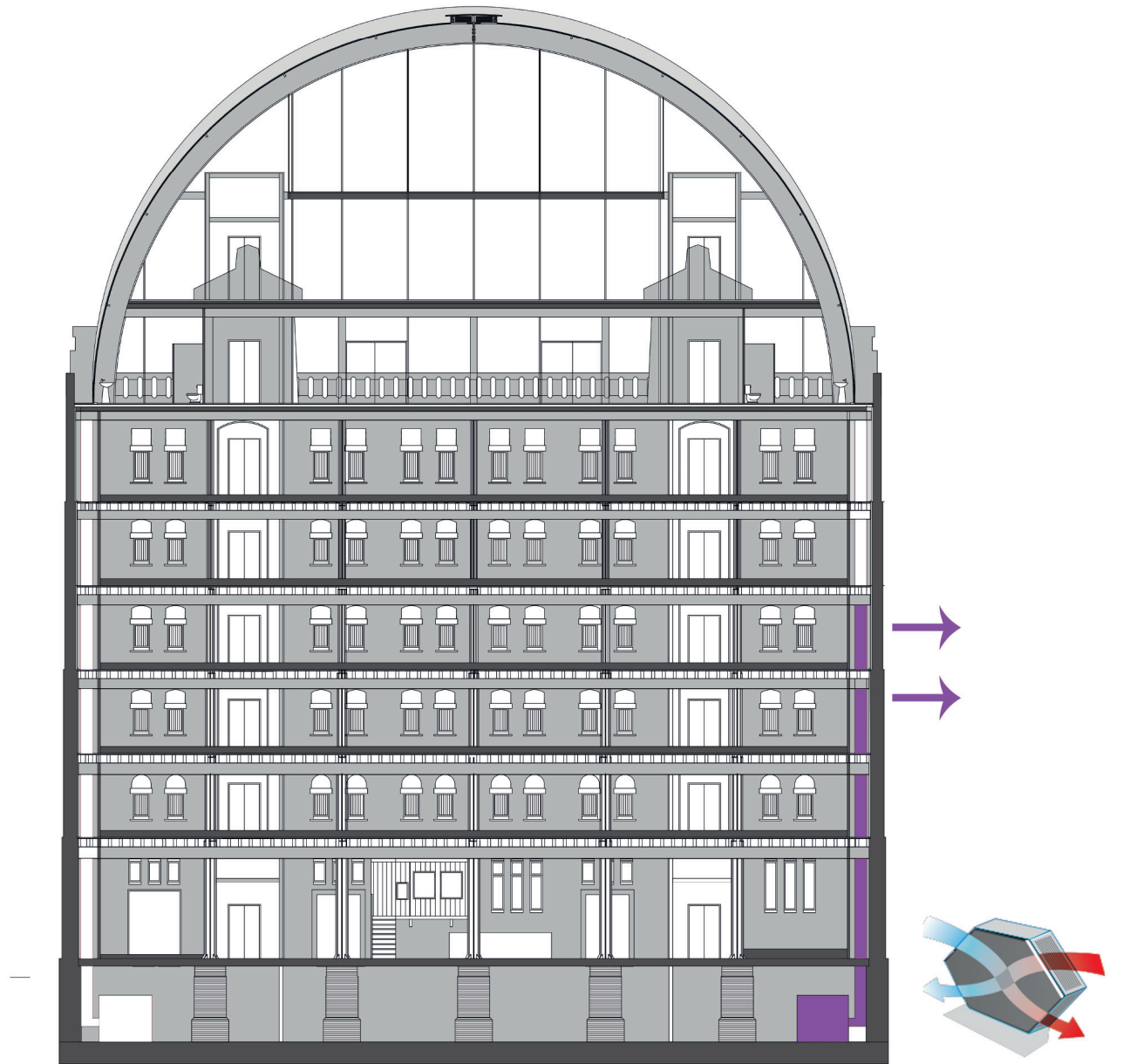
Scale 1:100



Section BB'

Scale 1:100

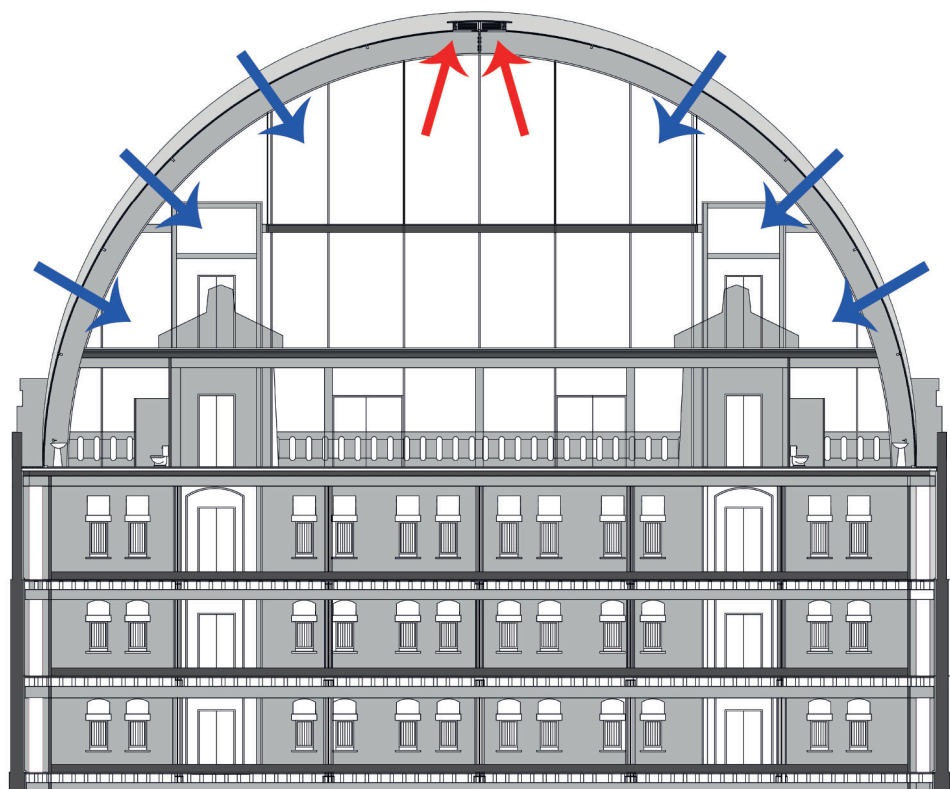


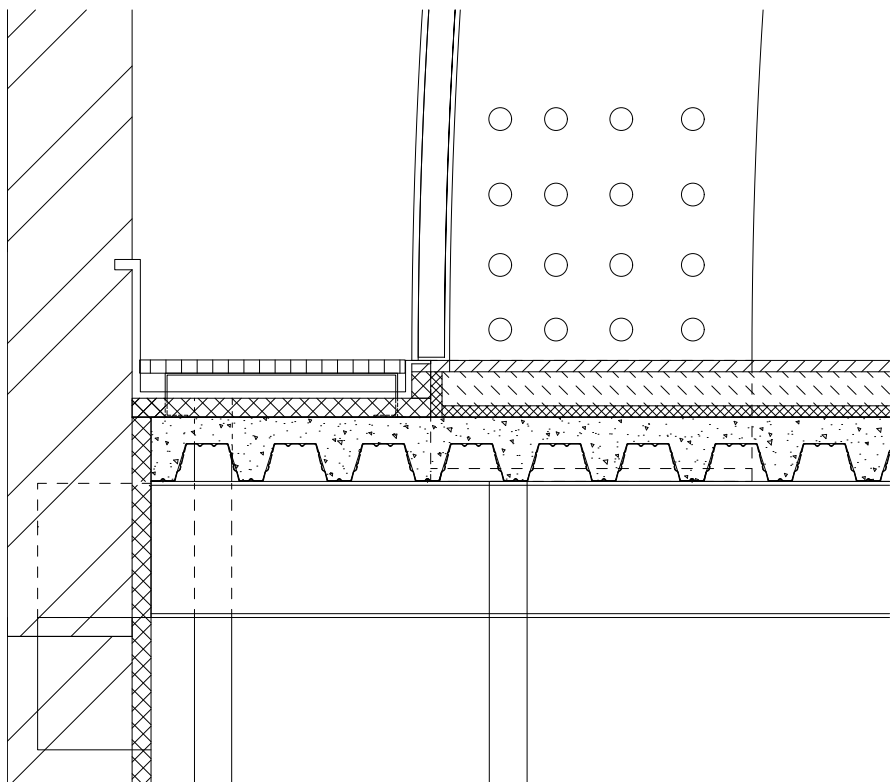
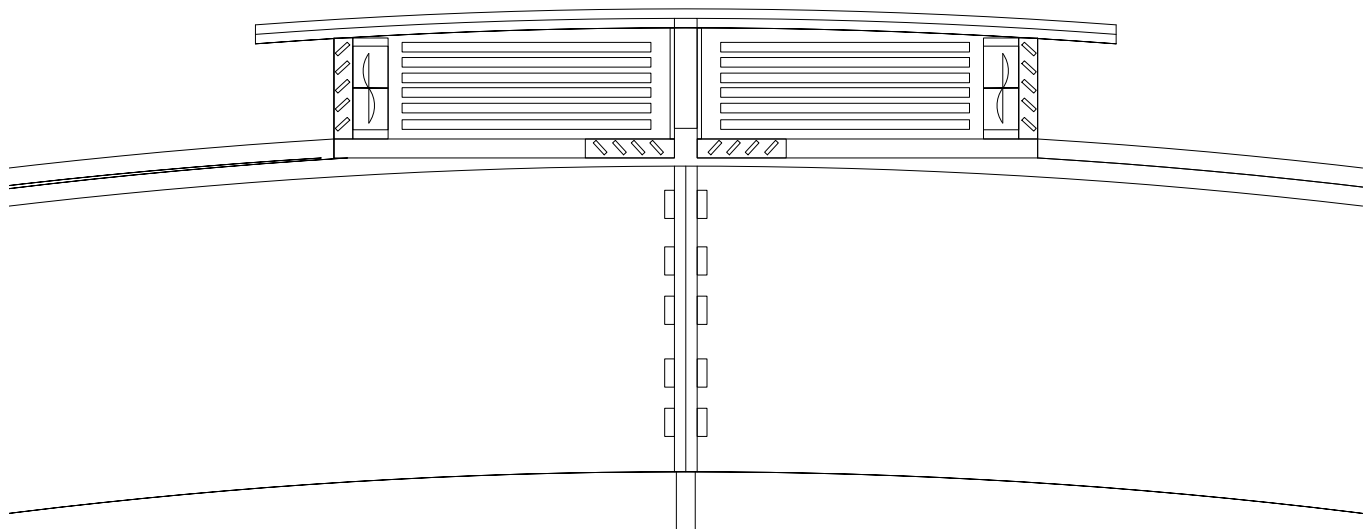


Section BB'

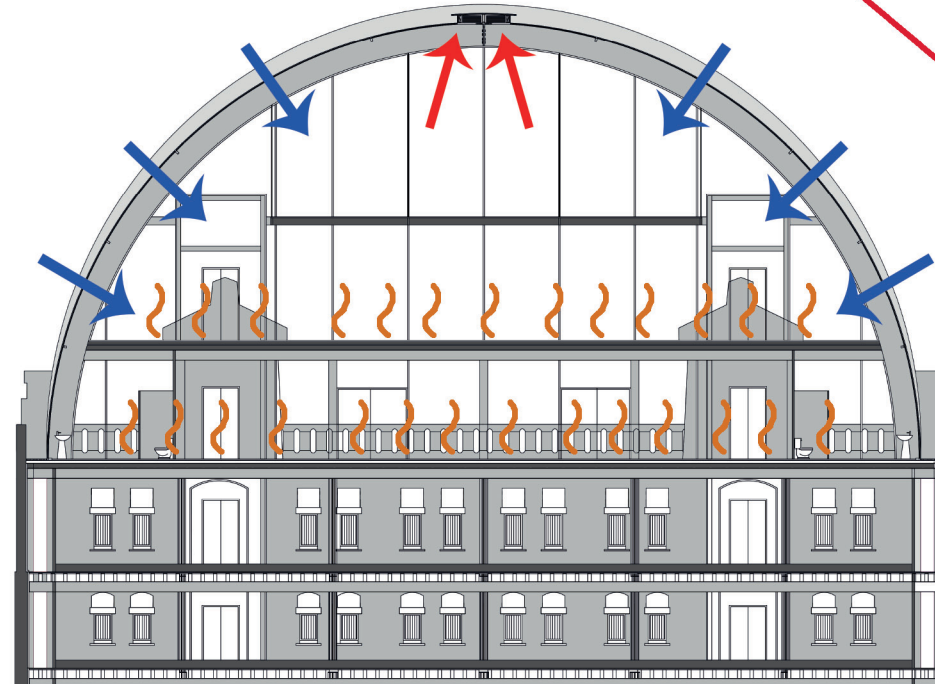
Scale 1:100

Heat exchange

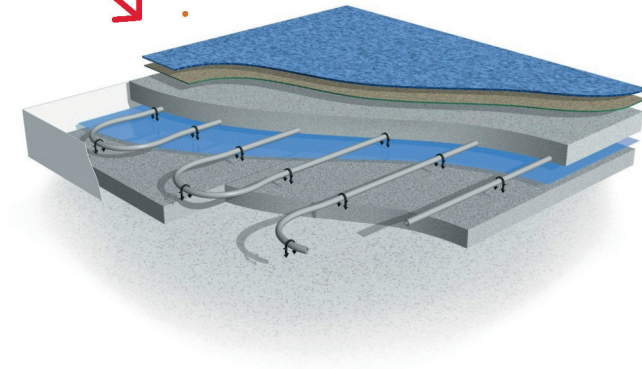




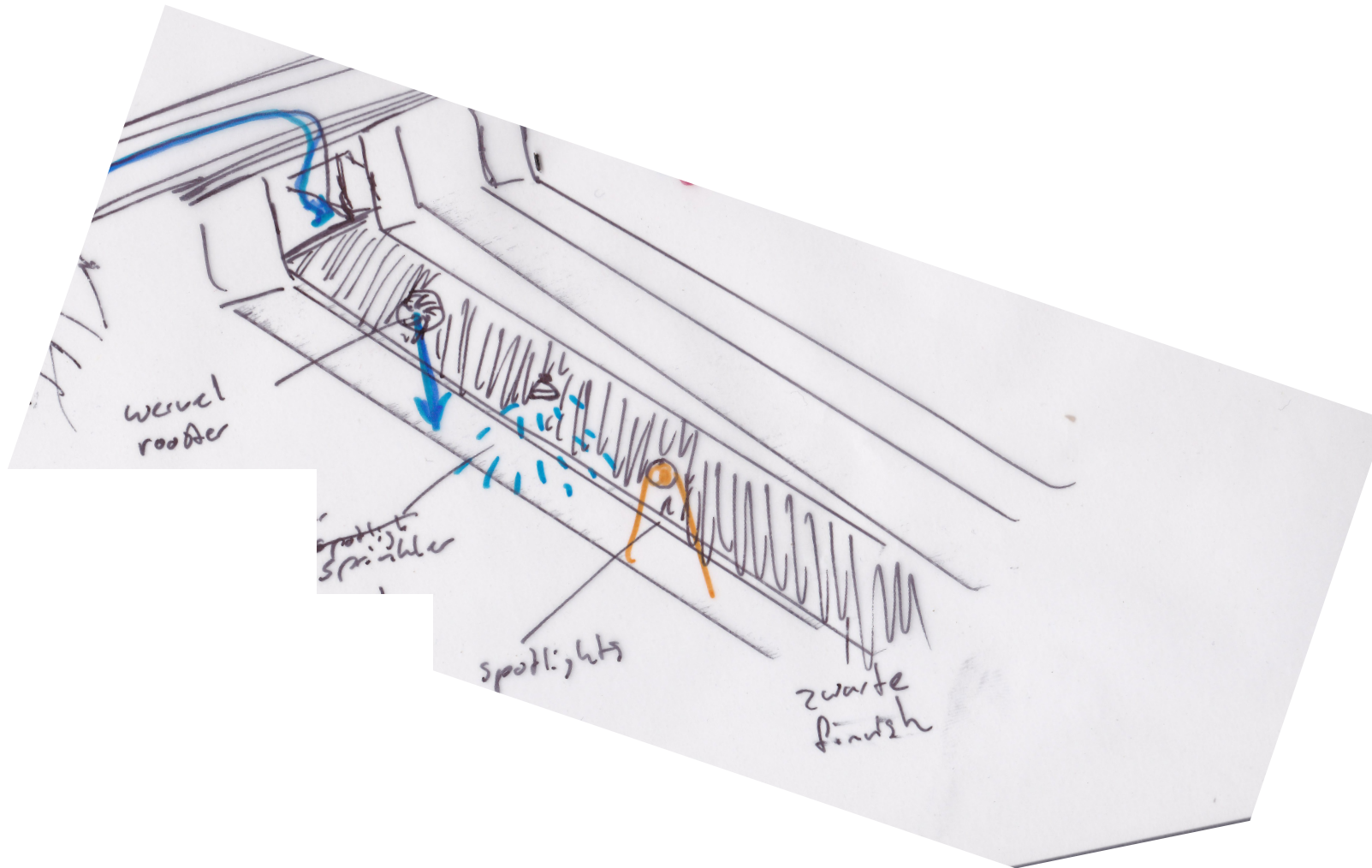
Heat exchange



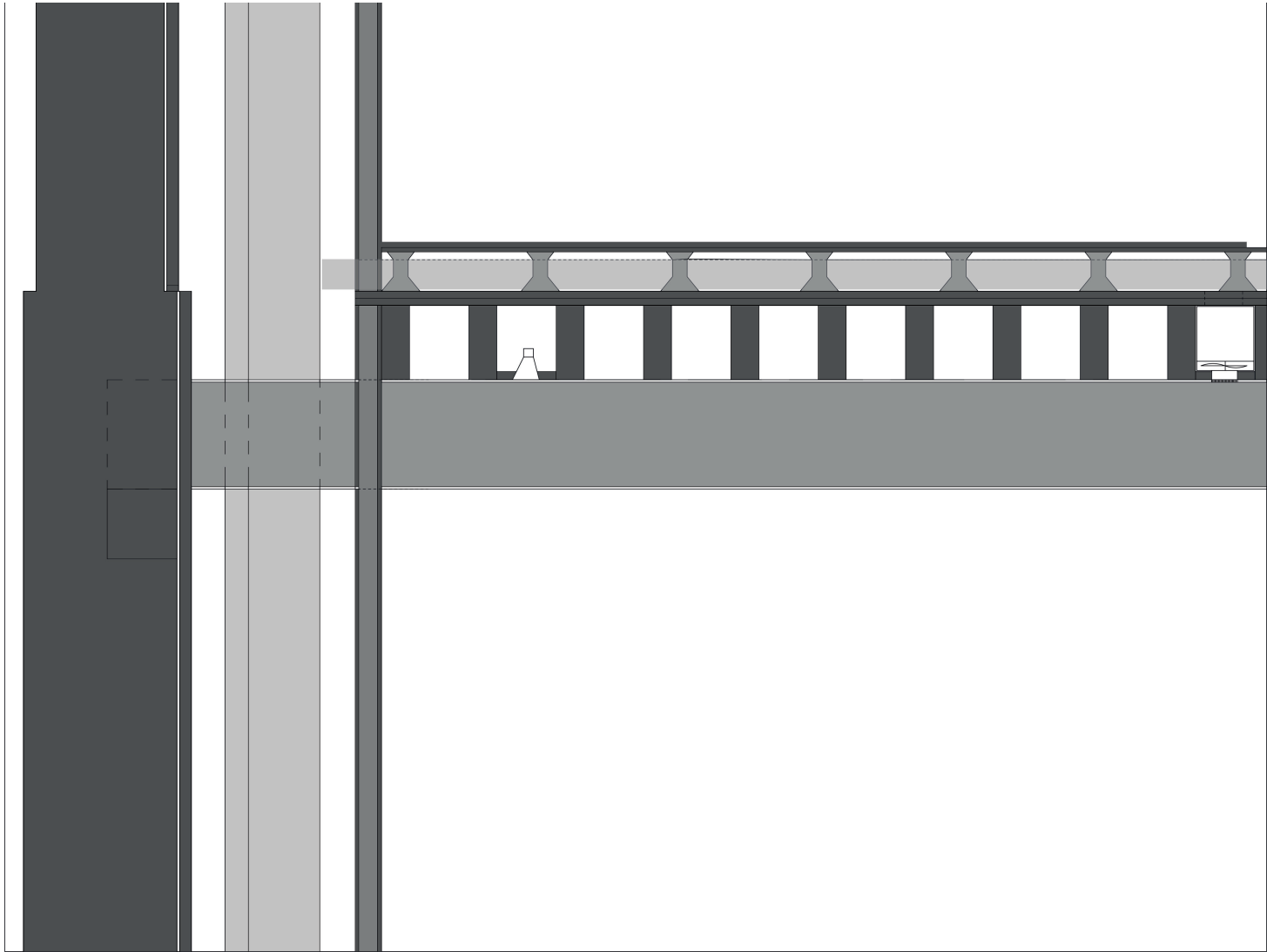
Floor heating system

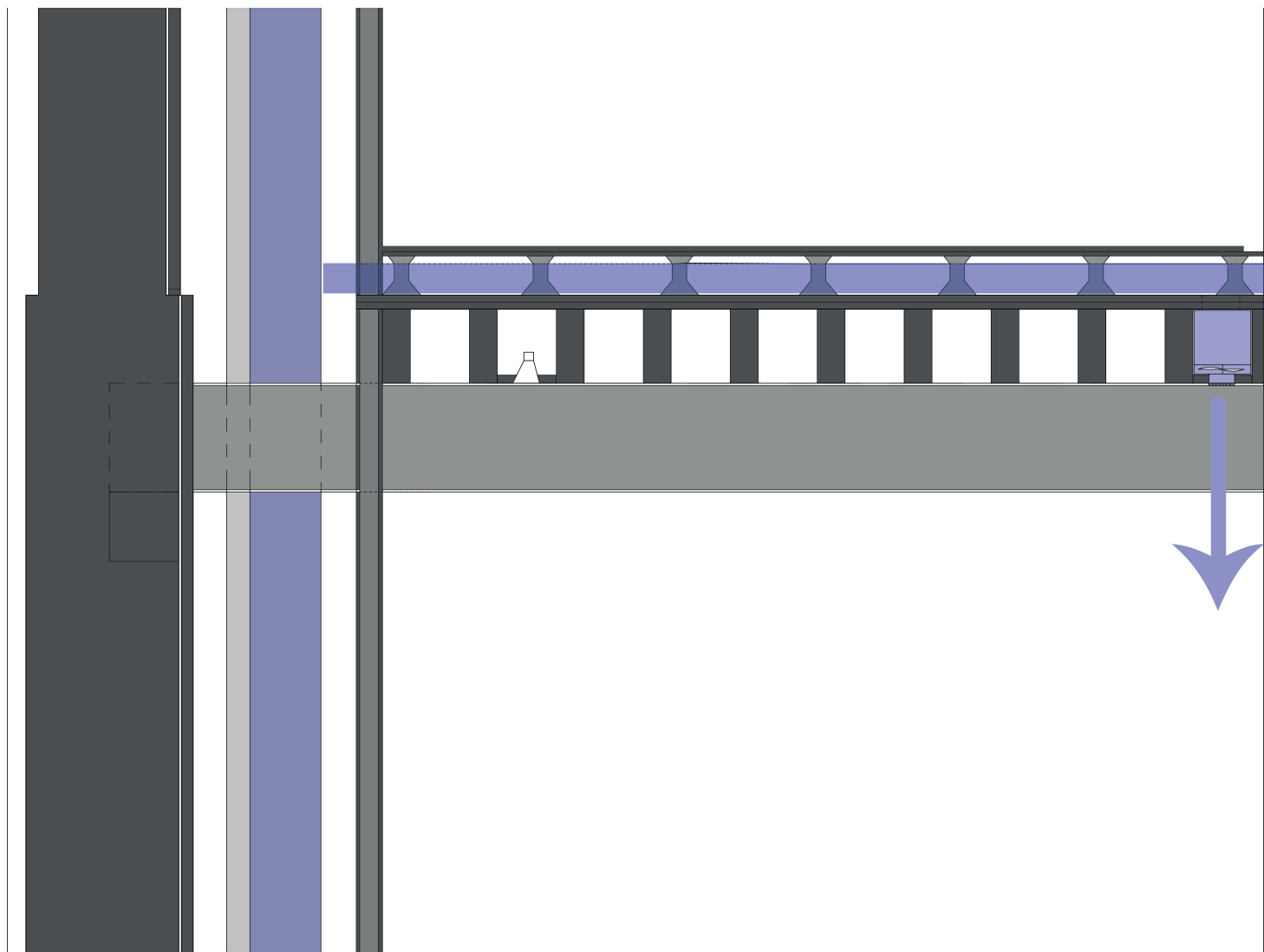


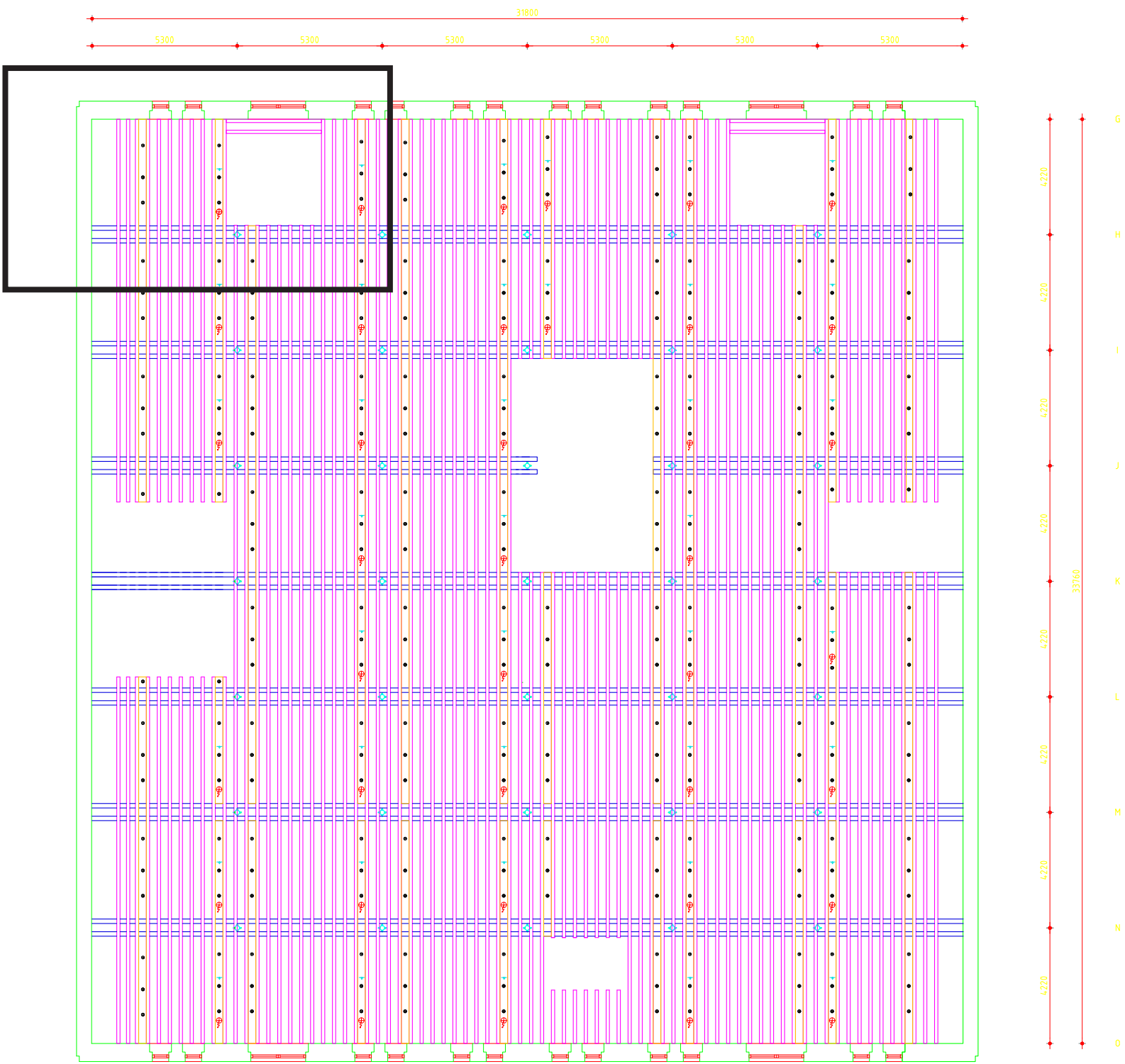
Systems integration in ceiling



Air exhaust



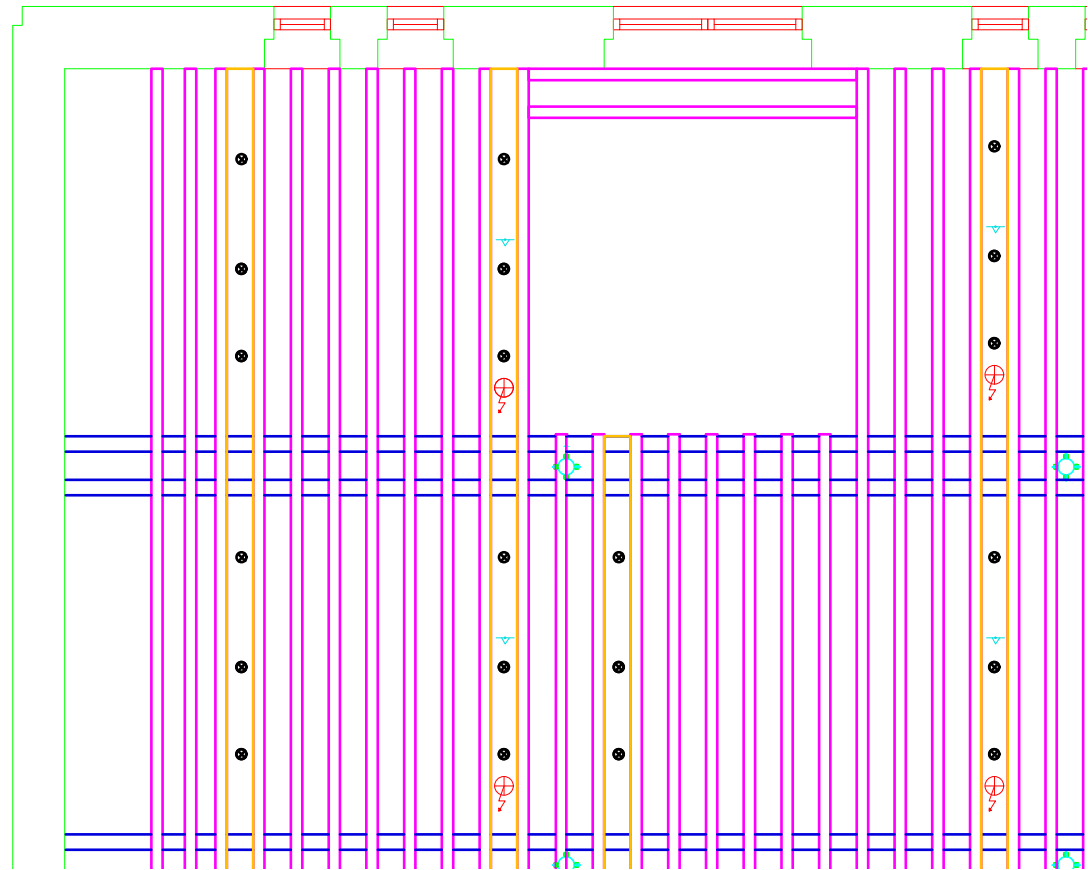
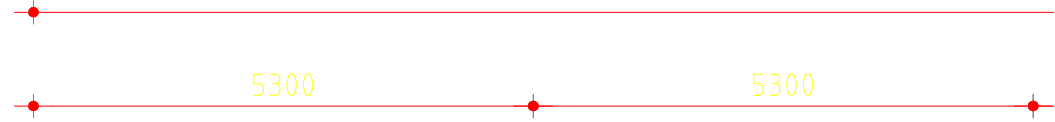


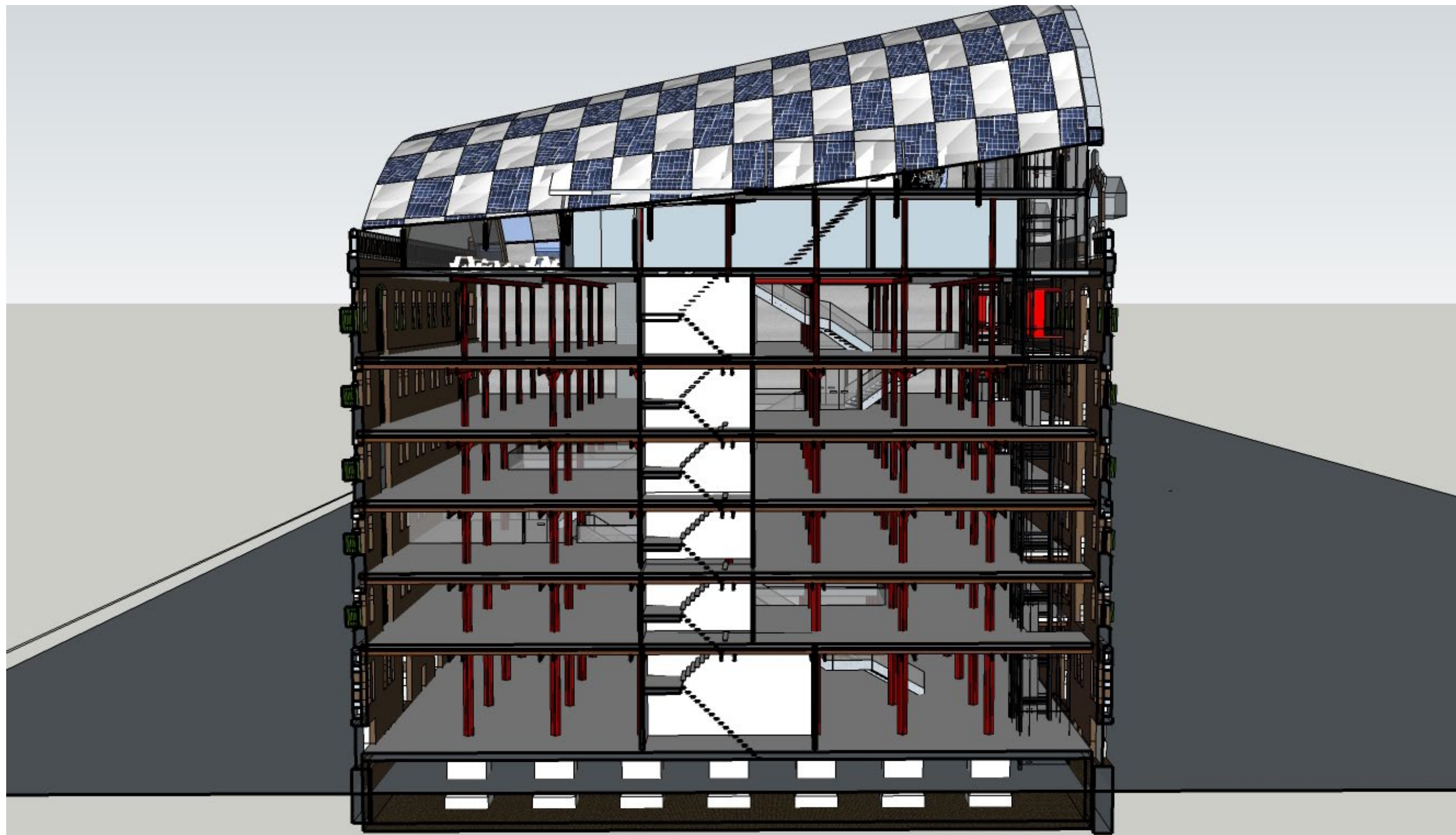


12

13

14





Durability



Does not rely on toxic chemicals. No lead, cadmium, hydrofluoric acid, or hydrochloric acid.



Requires less water to manufacture and recycles the little water used



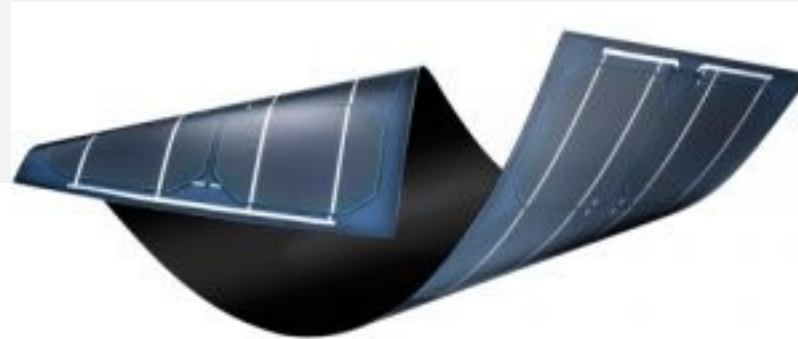
Materials are recycled when spent.



Unlike fossil fuels, Sunflare solar panels do not produce pollutants or release CO₂ into the atmosphere as they generate energy.



80% less energy to produce than Silicon.



No purification of silicon



No frame



No glass



No mount

Thank you for listening.

