



mecanoo
architecten

Friso van der Steen



Friso van der Steen

Technical Director
Mecanoo architecten

Delft, The Netherlands

Mecanoo: HQ in Delft, satellite offices in US and Taiwan



architecture must appeal to all the senses and
intellectual, conceptual and visual game alone
in the end, is the arrangement of form and
francine houben. What a beautiful
purely emotional and
is never

“Architecture that appeals
to all the senses...”

- Francine Houben, Founding Partner/Creative Director



Public buildings all over the world



National Kaohsiung Center for the Arts,
Taiwan



La Llotja Theater and Conference Center,
Lleida, Spain



Bruce C. Bolling Municipal Building,
Boston (MA), US



Library of Birmingham, UK



Municipal Offices and Train Station,
Delft, NL



Delft University of Technology Library, NL

Libraries all over the world



Library of Birmingham, UK



Delft University of Technology Library, NL



Martin Luther King Jr. Memorial Library,
Washington DC, US



Mid-Manhattan Library,
New York Public Library, US



Tainan Public Library, Taiwan



Stephen A. Schwarzman Building,
New York Public Library, US

Cultural buildings all over the world



National Kaohsiung Center for the Arts,
Taiwan



La Llotja Theater and Conference Center,
Lleida, Spain



HOME Arts Centre, Manchester, UK



KRONA Knowledge and Cultural Centre,
Kongsberg, Norway



Kaap Skil, Maritime and Beachcombers
Museum, Texel, NL



Netherlands Open Air Museum,
Arnhem, NL

Office buildings all over the world



Palace of Justice, Córdoba, Spain



Eurojust, The Hague, NL



Bruce C. Bolling Municipal Building,
Boston (MA), US



Rabobank Westelijke Mijnstreek Advice
Centre, Sittard, NL



Namdeamun Office Building,
Seoul, South Korea



Municipal Offices and Train Station,
Delft, NL

Wooden exteriors



Villa Duimelot, Delft, NL



Ede Wageningen Train Station, Ede, NL



Noorderpoort Vocational Training College, Stadskanaal, NL



Nieuw Terbregge Area, Rotterdam, NL



Villa Wageningen, NL



Zwaluwpark, Arnhem, NL

Wooden interiors



Velodrome and Sports Complex,
Mondorf-les-Bains, Luxembourg



HUBB – Learning Environments



KIEM Special Care School,
Dordrecht, NL



Villa Duimelot, Delft, NL



Rabobank Advice Centre, Sittard, NL



Taekwang Country Club Cafe,
Gyeonggi-do, South Korea

KRONA Knowledge and Cultural Centre, Kongsberg, Norway





Mock-up pine timber fins in Mecanoo HQ garden

















Kaap Skil, Maritime and Beachcombers Museum, NL



Site



Existing buildings to be demolished



Detailed design model, gabled roofs



Detailed design model, gabled roofs





Bolders study (needed 9000 m1 battens)

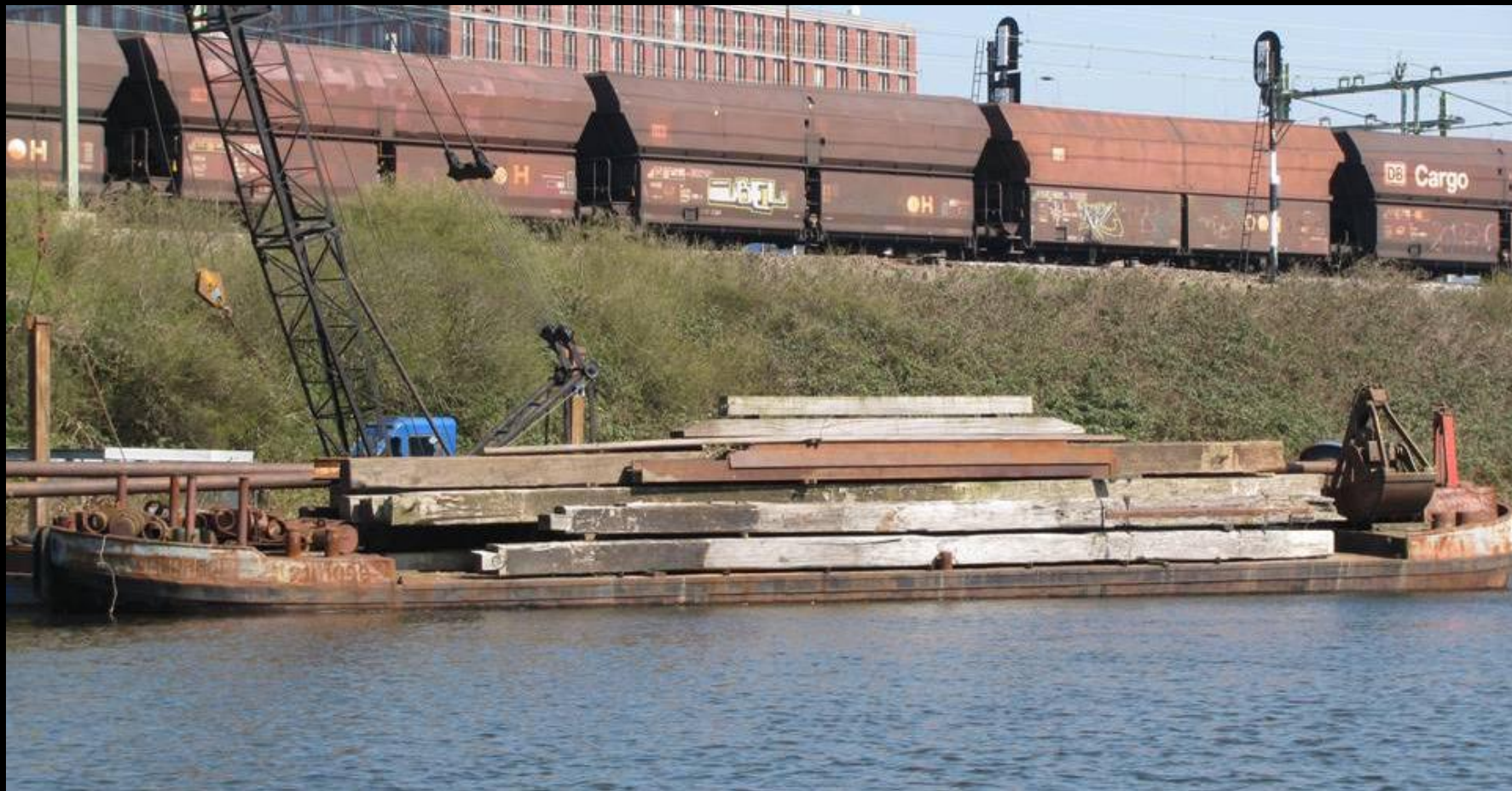


Bolders azobe and basralocus

DUIDELIJK EN DOELTREFFEND



Second hand bolders are for sale





But many of them have split cores and steel nails in them



We discovered second hand sheet piling of azobe











Cutting



Prefab assembly of large elements



Joint and fixation









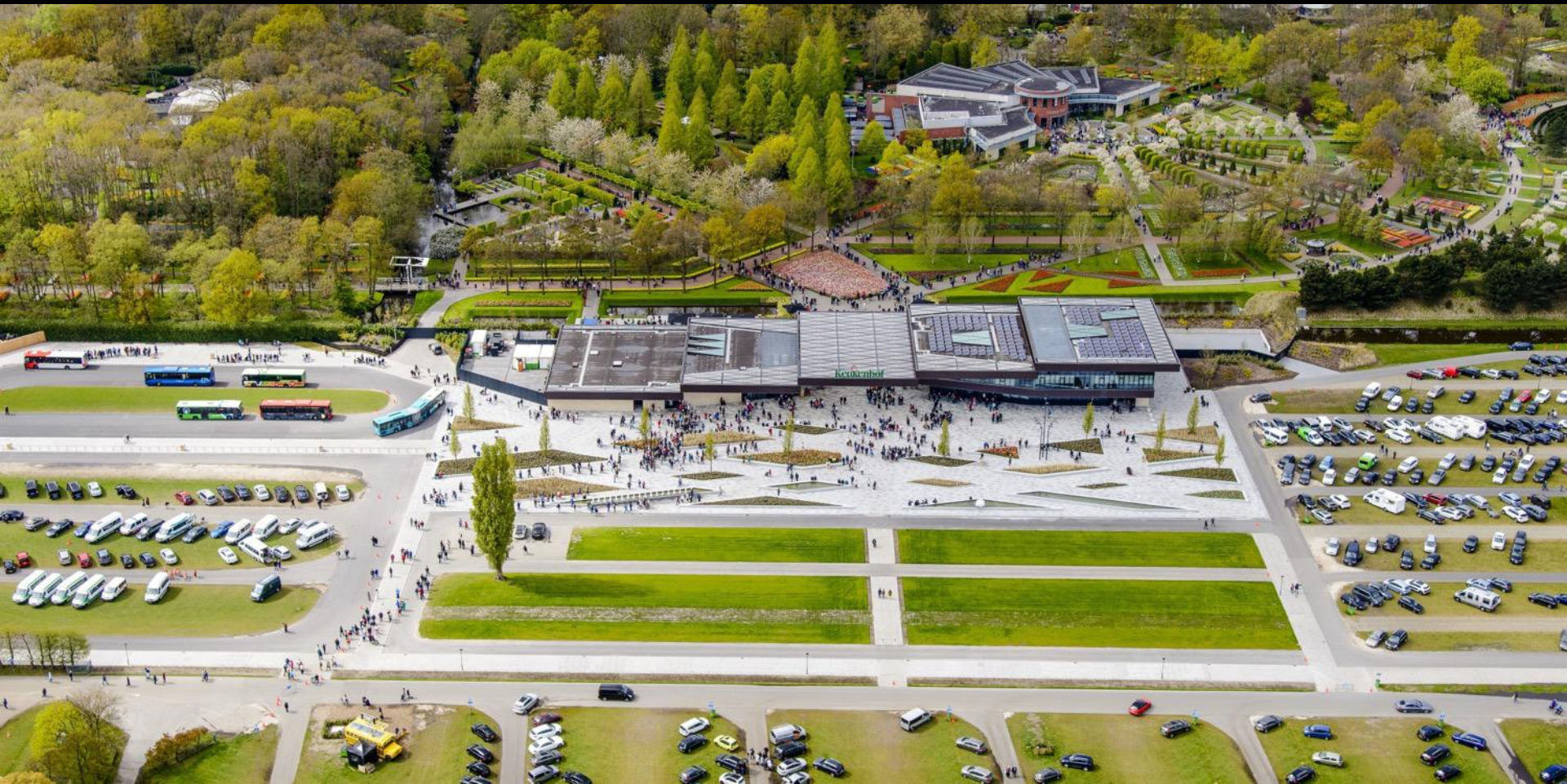


60.000 visitors per year





Keukenhof, Lisse, NL





site →

Keukenhof is open only 8 weeks a year, 1,5 million visitors



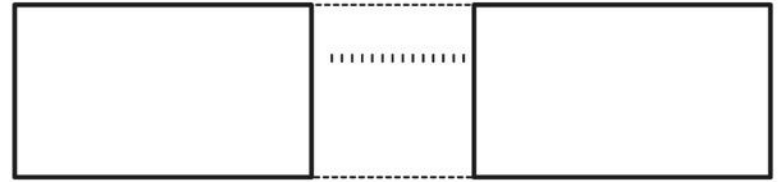
Keukenhof, 25.000 visitor per day



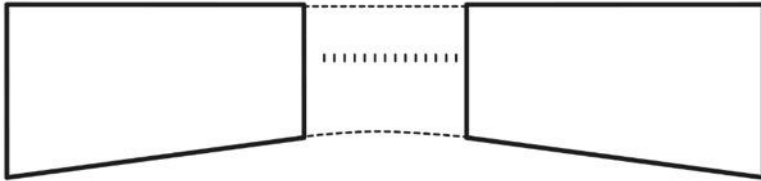
Starting points floorplan



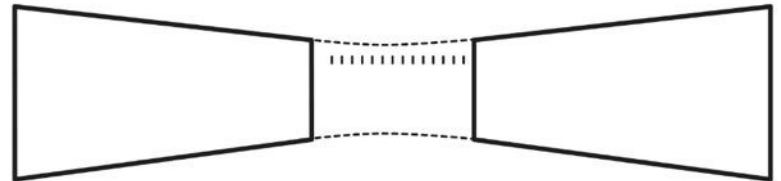
1. Horizontaal gebouw



2. Doorgang in het midden

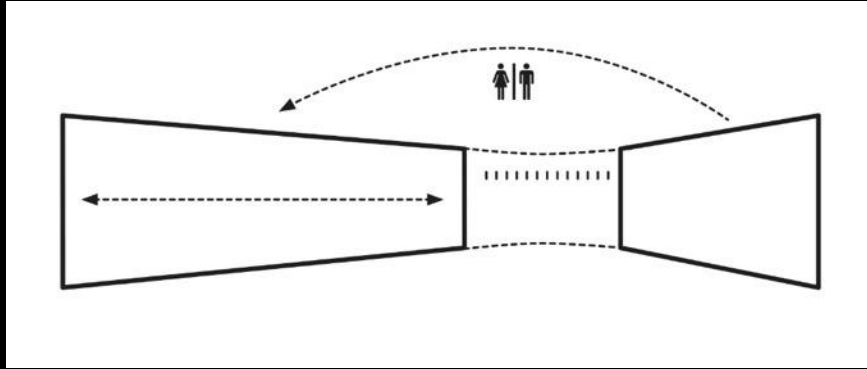


3. Voorgevel naar binnen knikken

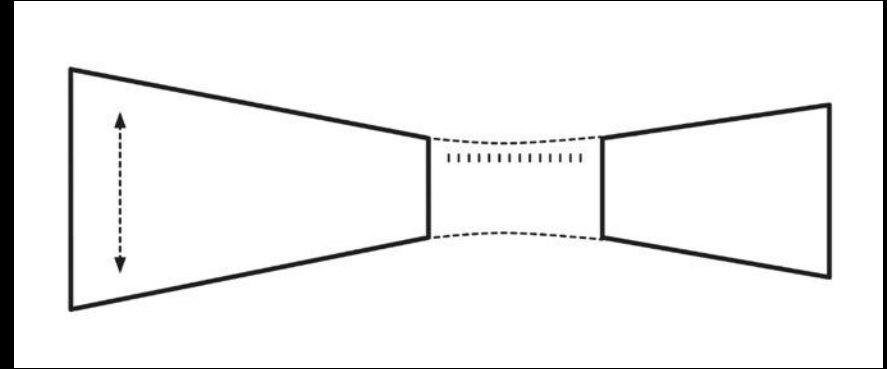


4. Achtergevel naar binnen knikken

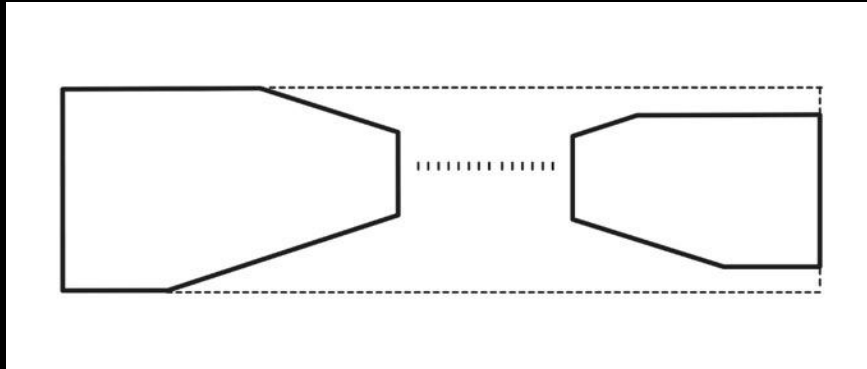
Form follows function



5. Veel functies naar linker bouwdeel verplaatst

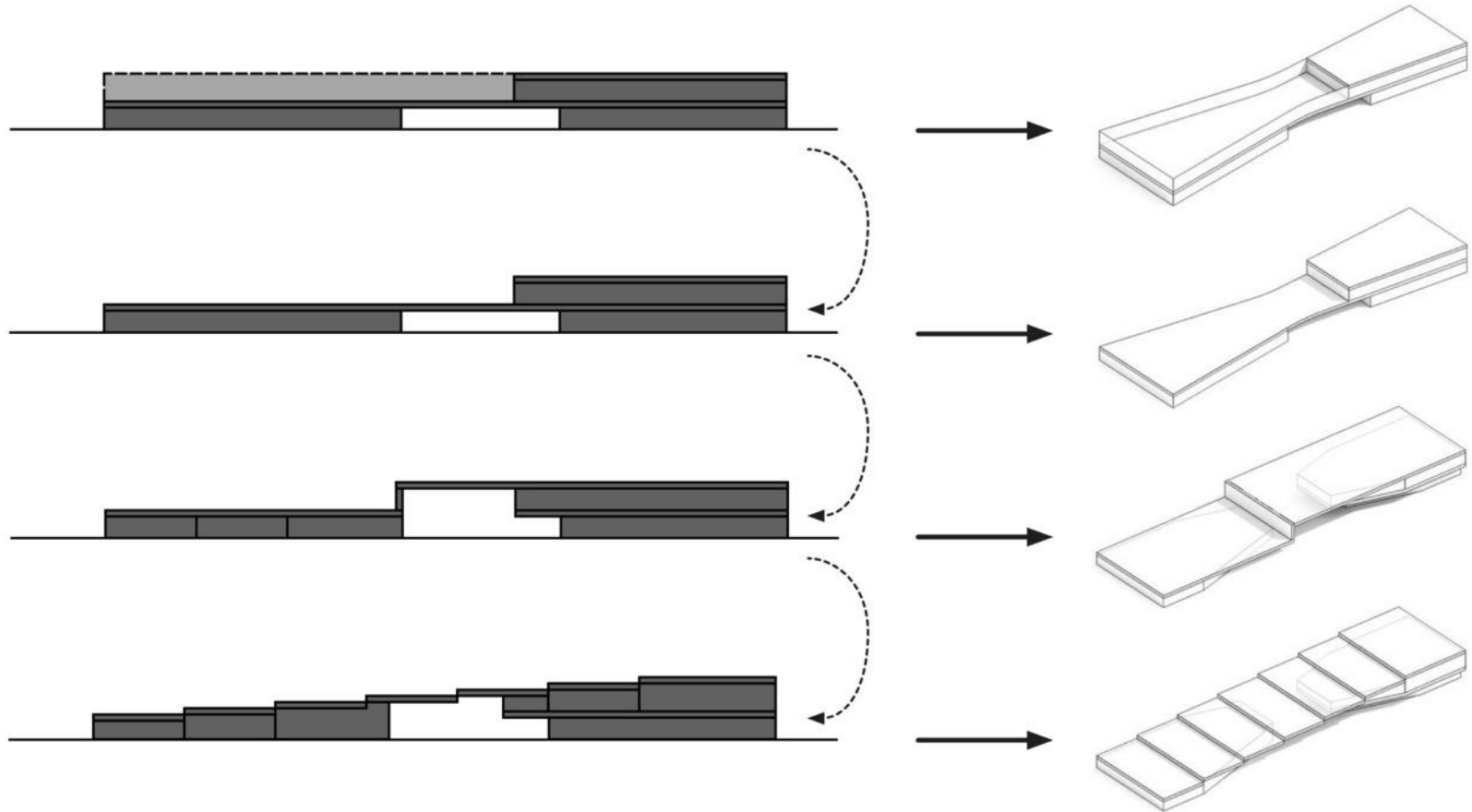


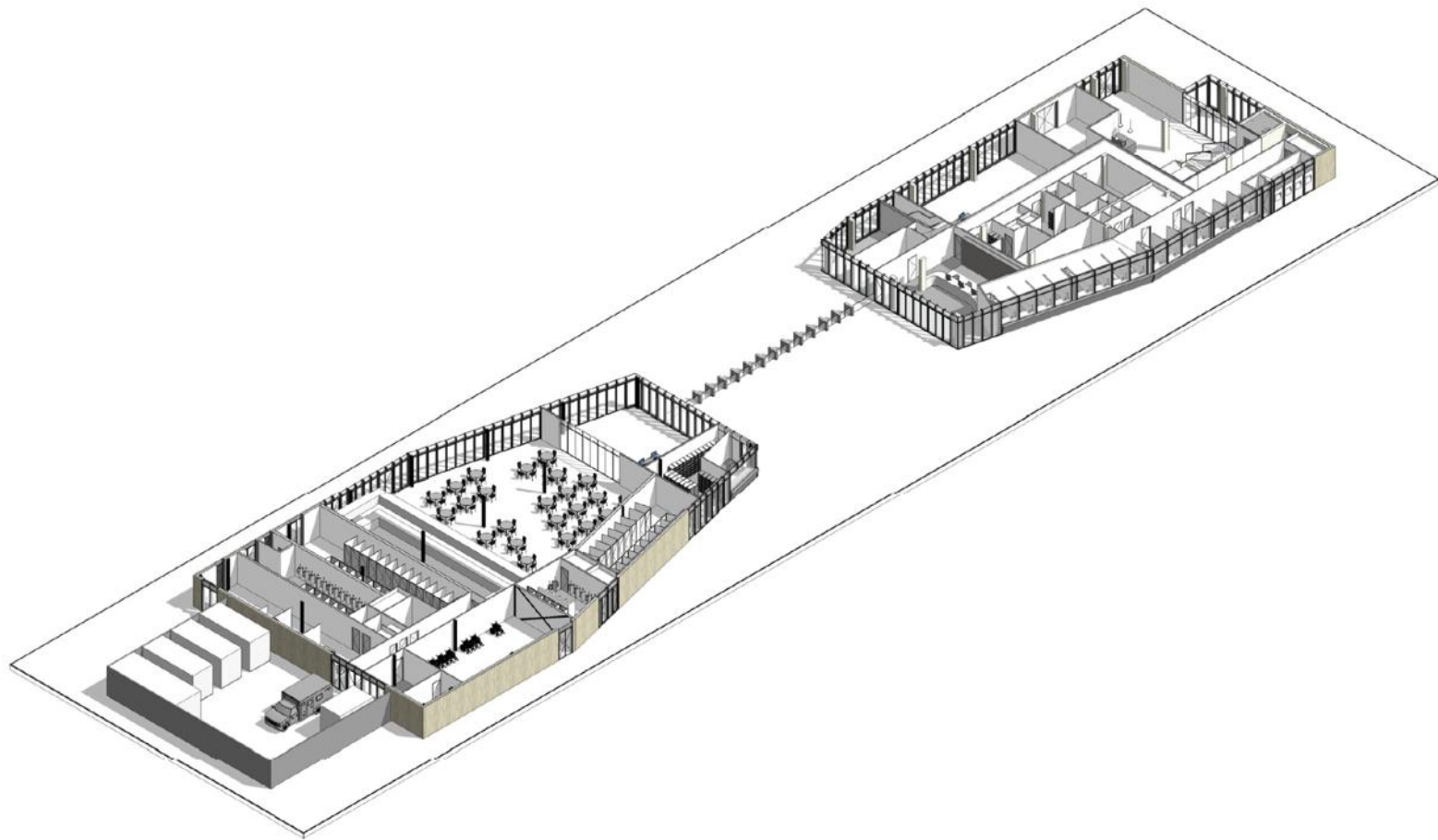
6. Linker bouwdeel dieper maken om het gebouw weer centraal op de as te krijgen

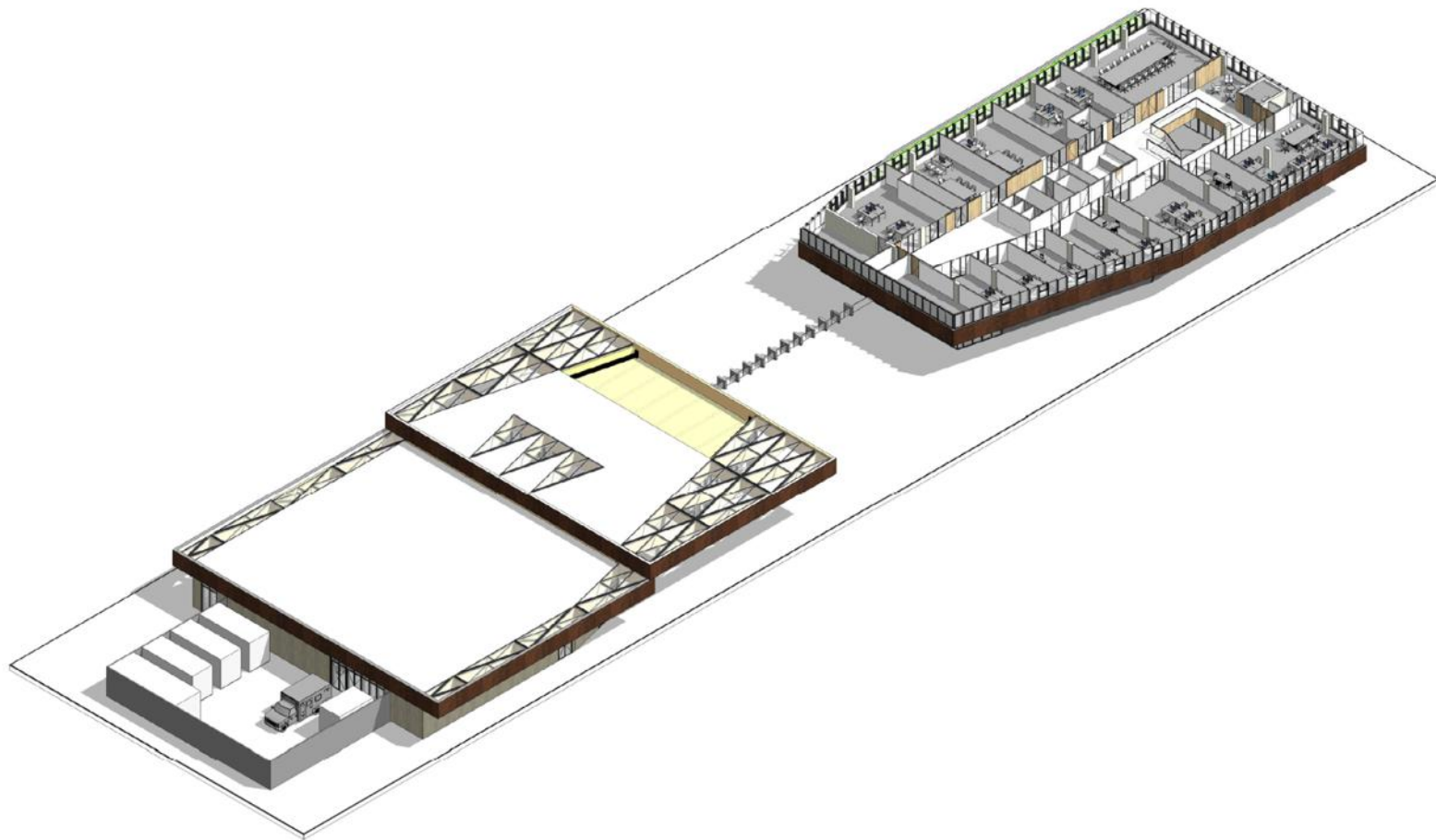


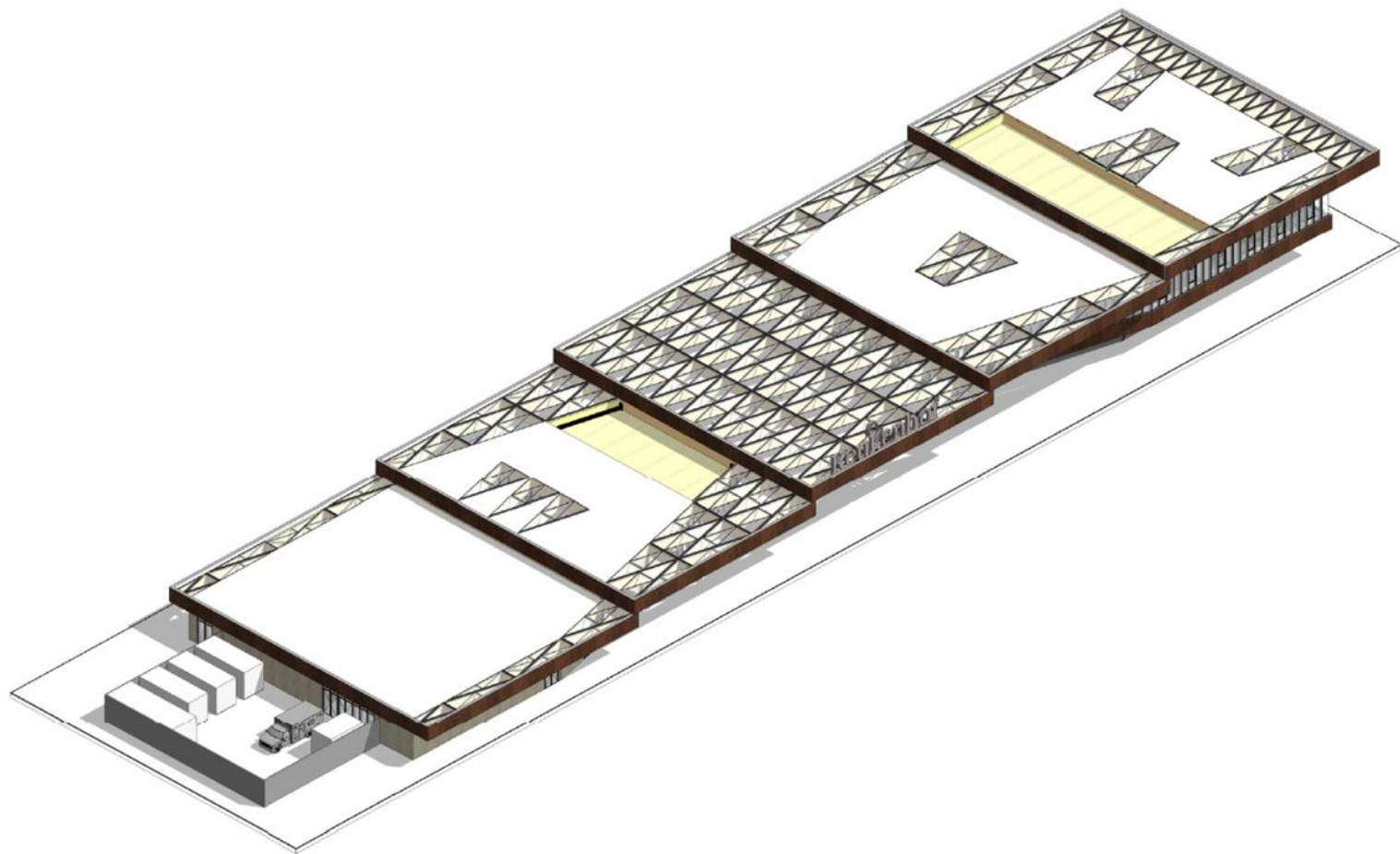
7. Vorm van linker en rechter bouwdeel worden zo aangepast dat functies het beste passen

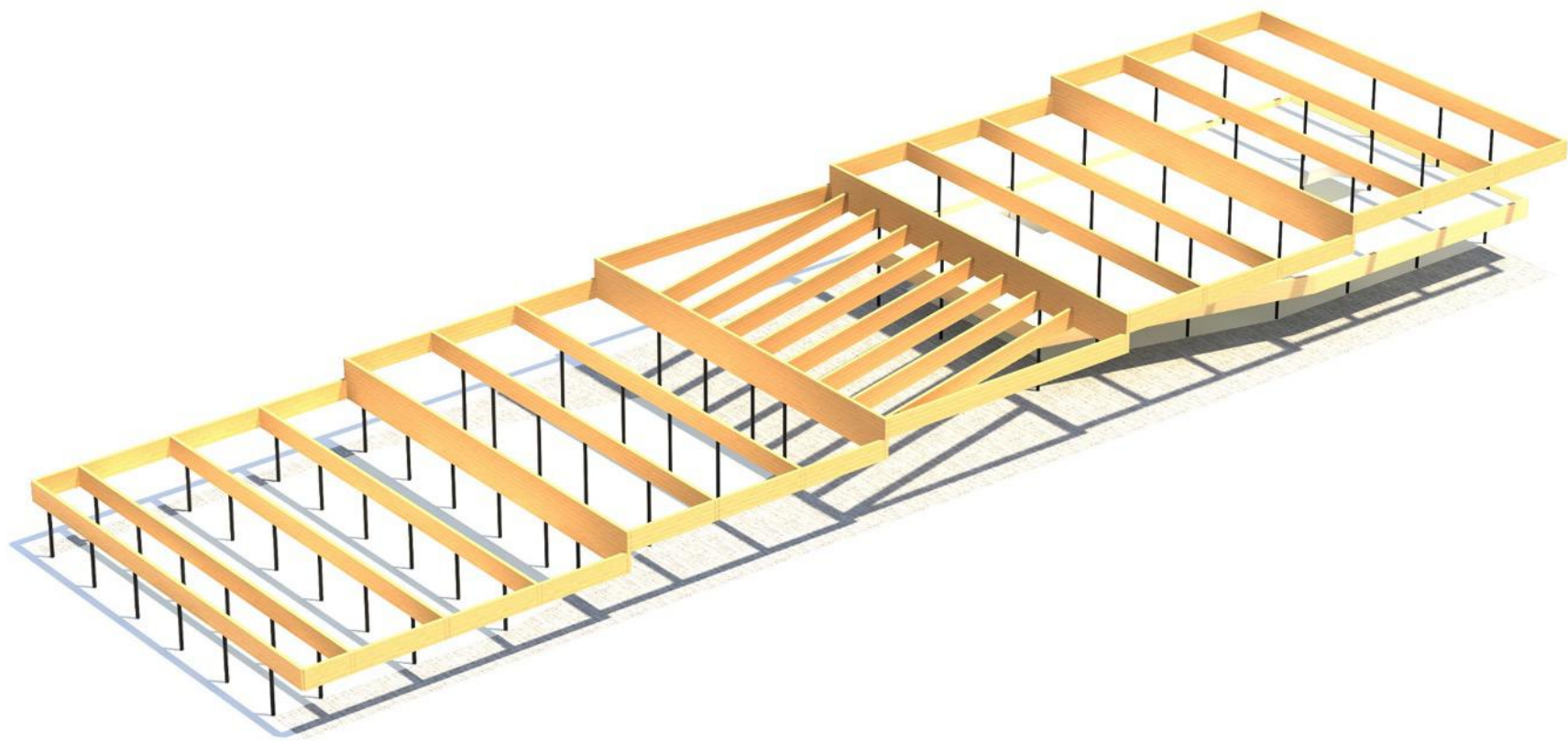
Starting points: mass/roof

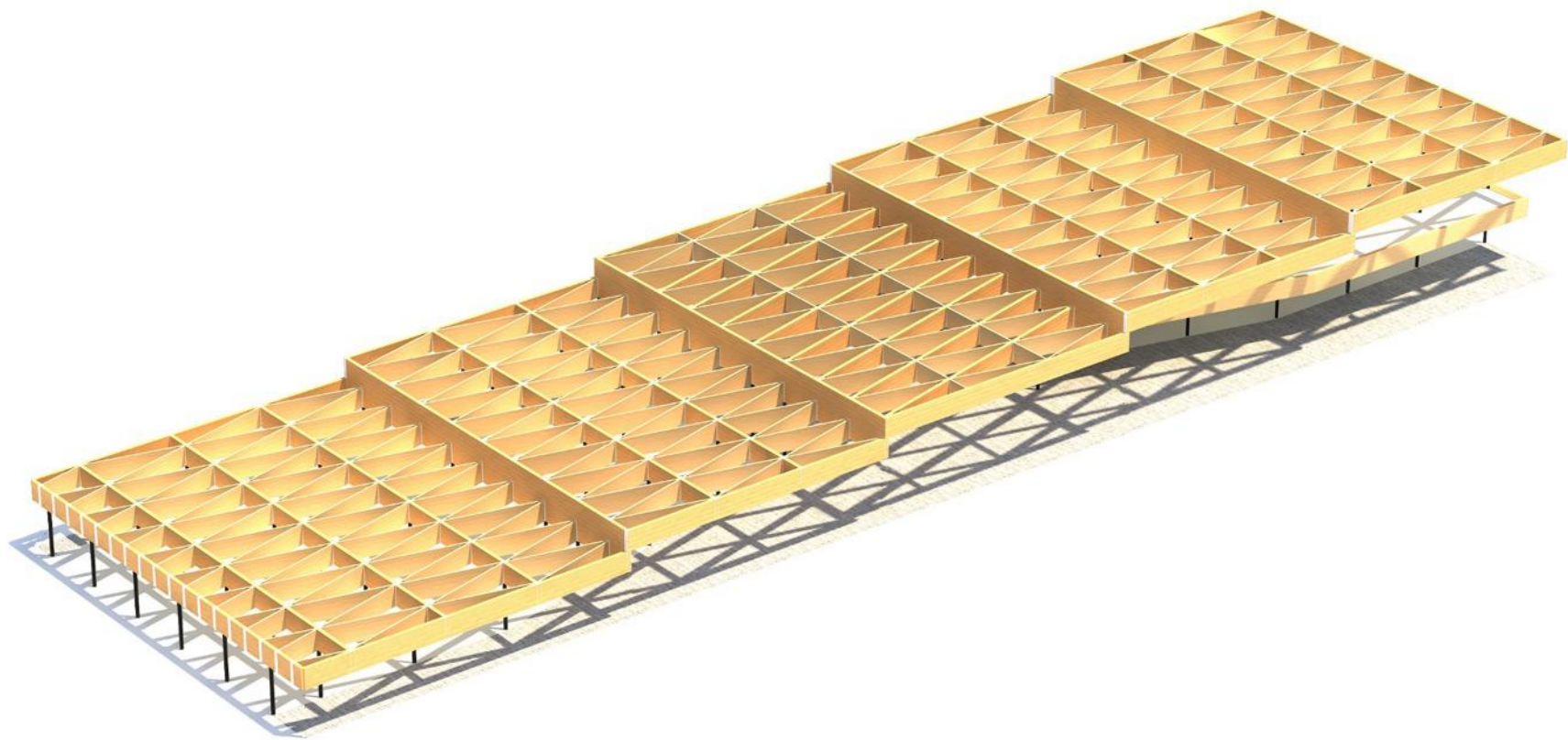


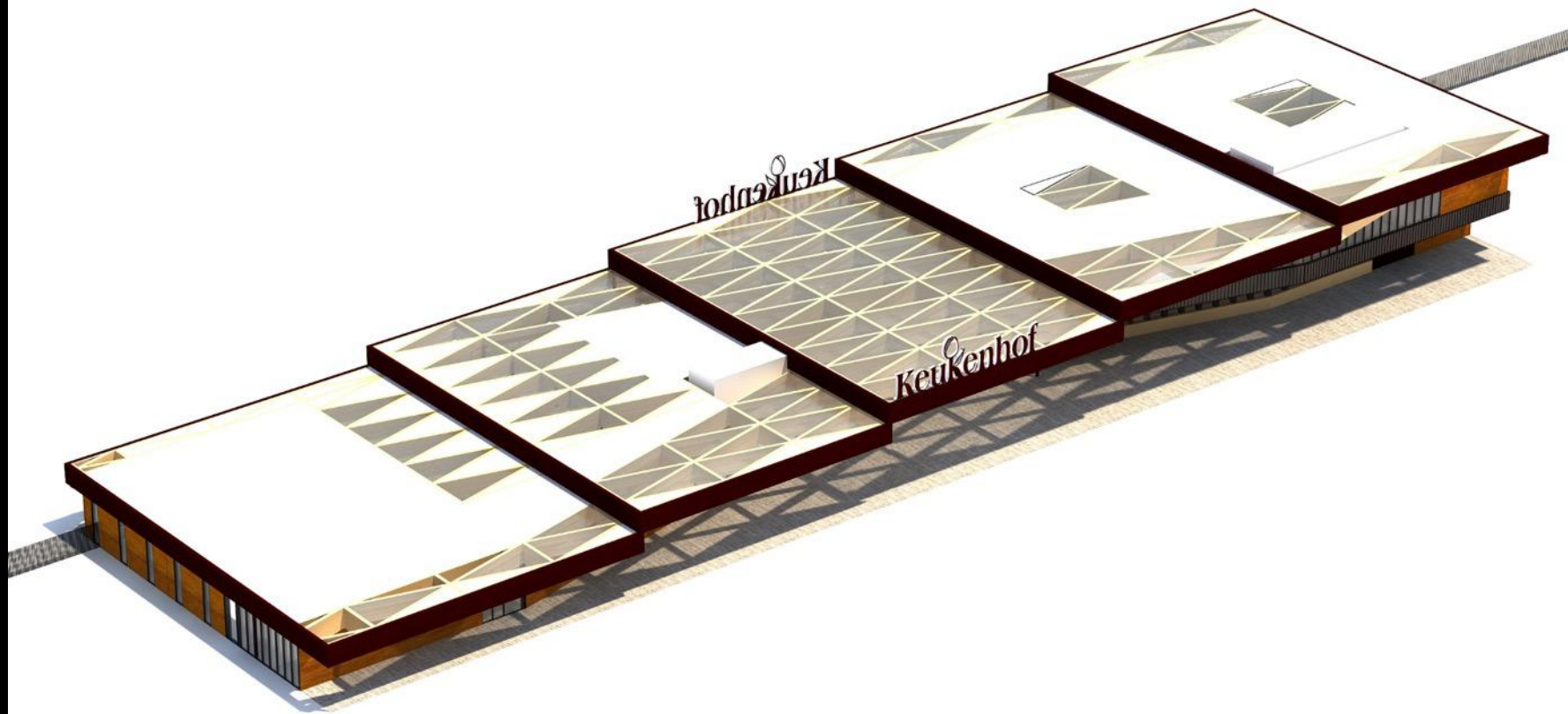












bricks



Fir/pine laminated beams



Copper



Curtain wall



1st mock-up in factory at Heko



1st mock-up in factory at Heko



Mock-up trusses and glass at factory Brakel Atmos



First laminated beams arrive on site, 31 meter long



Transport met oplegger van 31 meter lang



Connections and gutters, beam 240 x 1200 mm



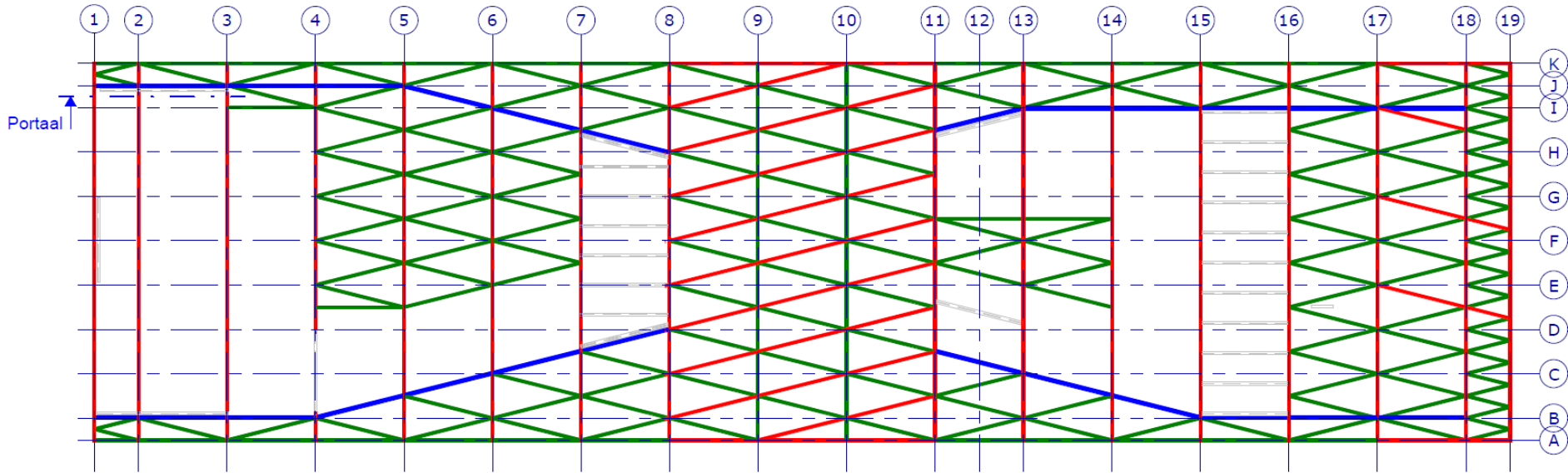
Vliesgevels en glaskappen in het werk







Structural system, solid beams (red) hollow beams (blue + green)



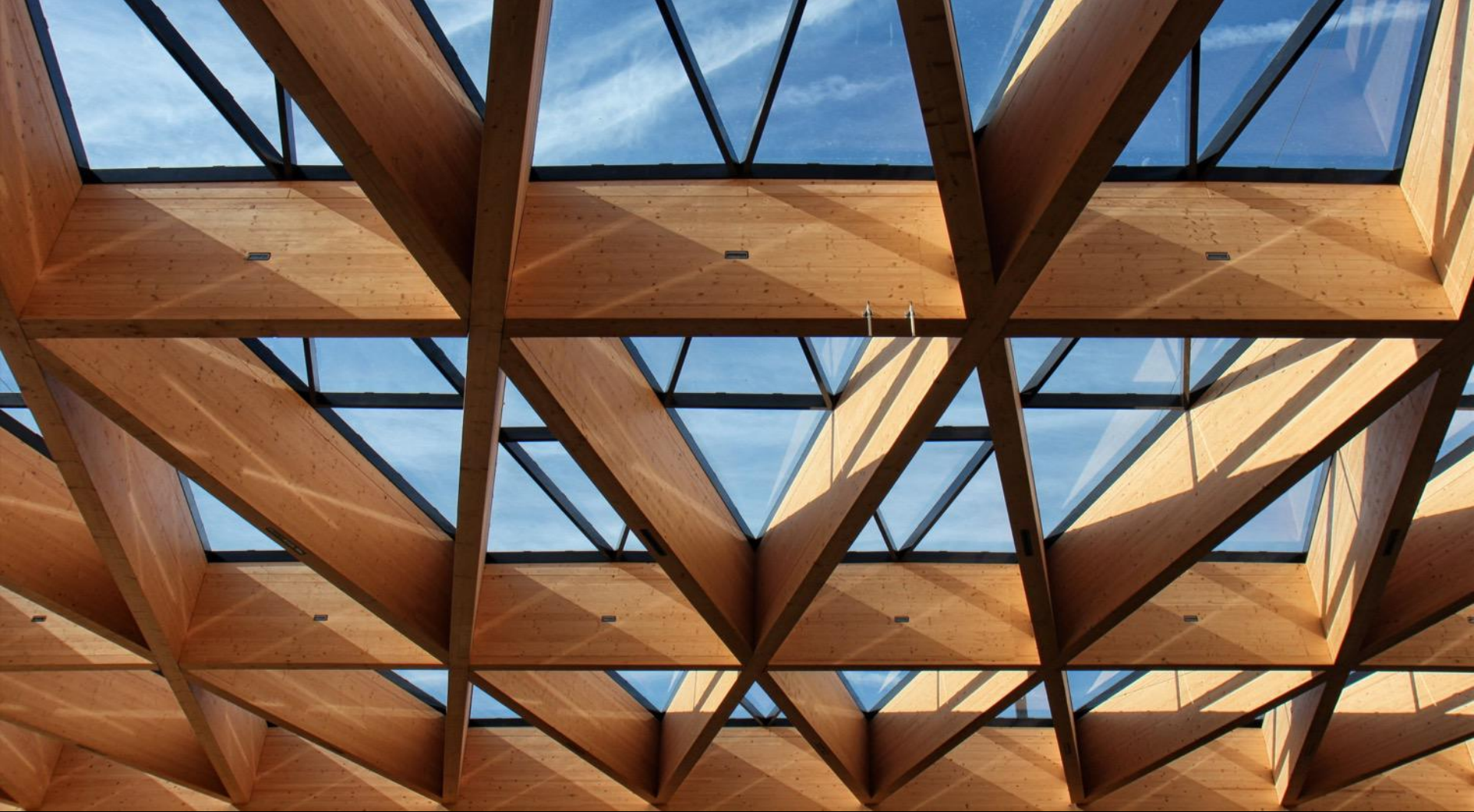
Verklaring systeemschema dak:

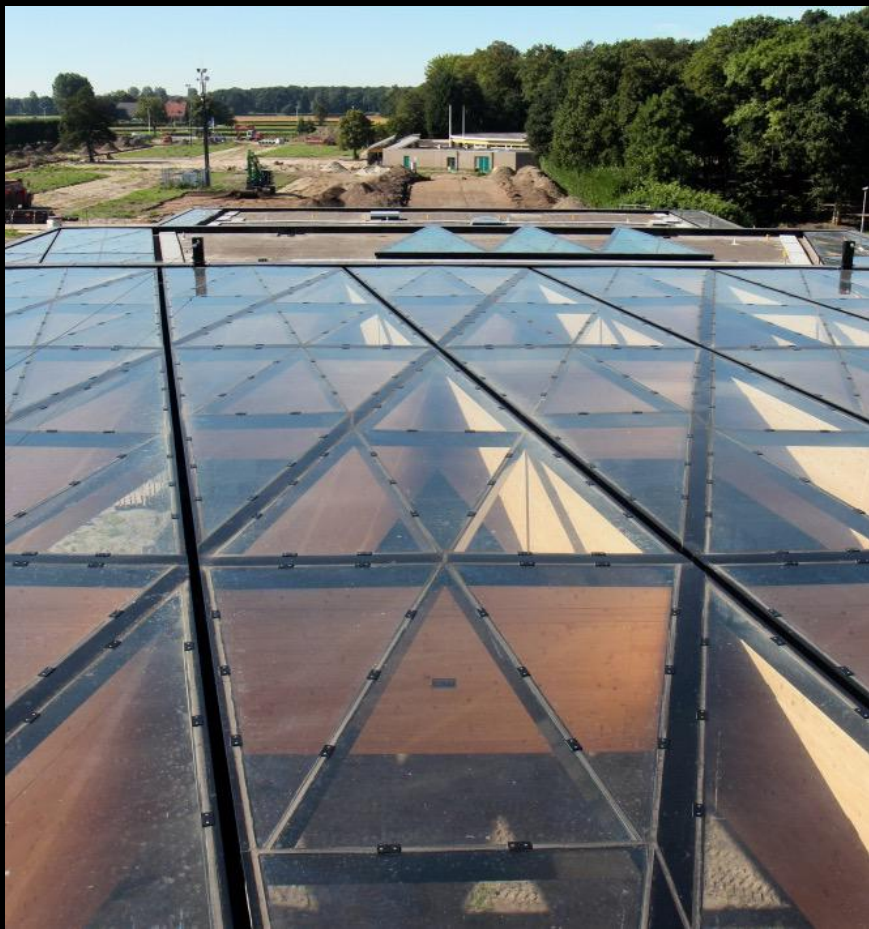


Rood	= gelamineerd hout, $b=240$
Blauw	= Houten box ligger, $b=320$
Groen	= Houten box ligger, $b=240$

Testing the lighting











Keukenhof

Keukenhof



























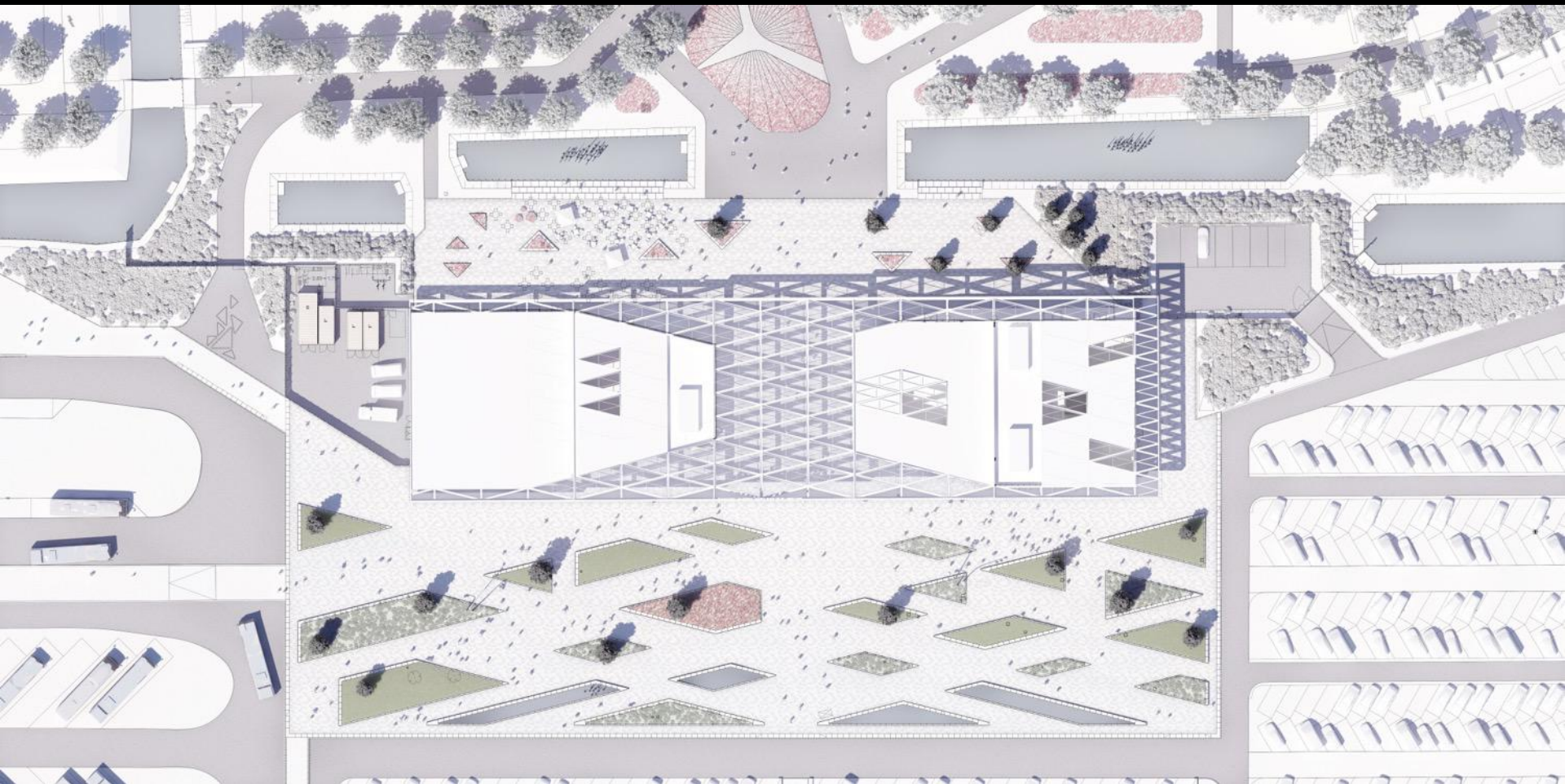








Situation



Spacious atrium leads to the offices on the first floor







Thank you, any questions?

