



Timber Construction Day 2019



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SWG – Schraubenwerk Gaisbach

TEAM

Architect : **HK Architekten**

Mathias Schädler, Hanna Bayer, Benjamin Baumgartl, Thomas Fußenegger

Structure (Concrete) : **BHM Ingenieure**

Uli Forster

Structure (Wood) : **SWG Engineering (Wood)**

Henning Ernst

MEP : **BHM Ingenieure**

Jörg Nowitzki, Josef Hinteregger

Fire Safety : **Portz Brandschutz**

Ricco Kröger

Building Science : **RW Bauphysik**

Bärbel Kolaczek

Project Control : **Mahl Projeksteuerung**

Jürgen Mahl

Carpenter : **Schlosser Holzbau**

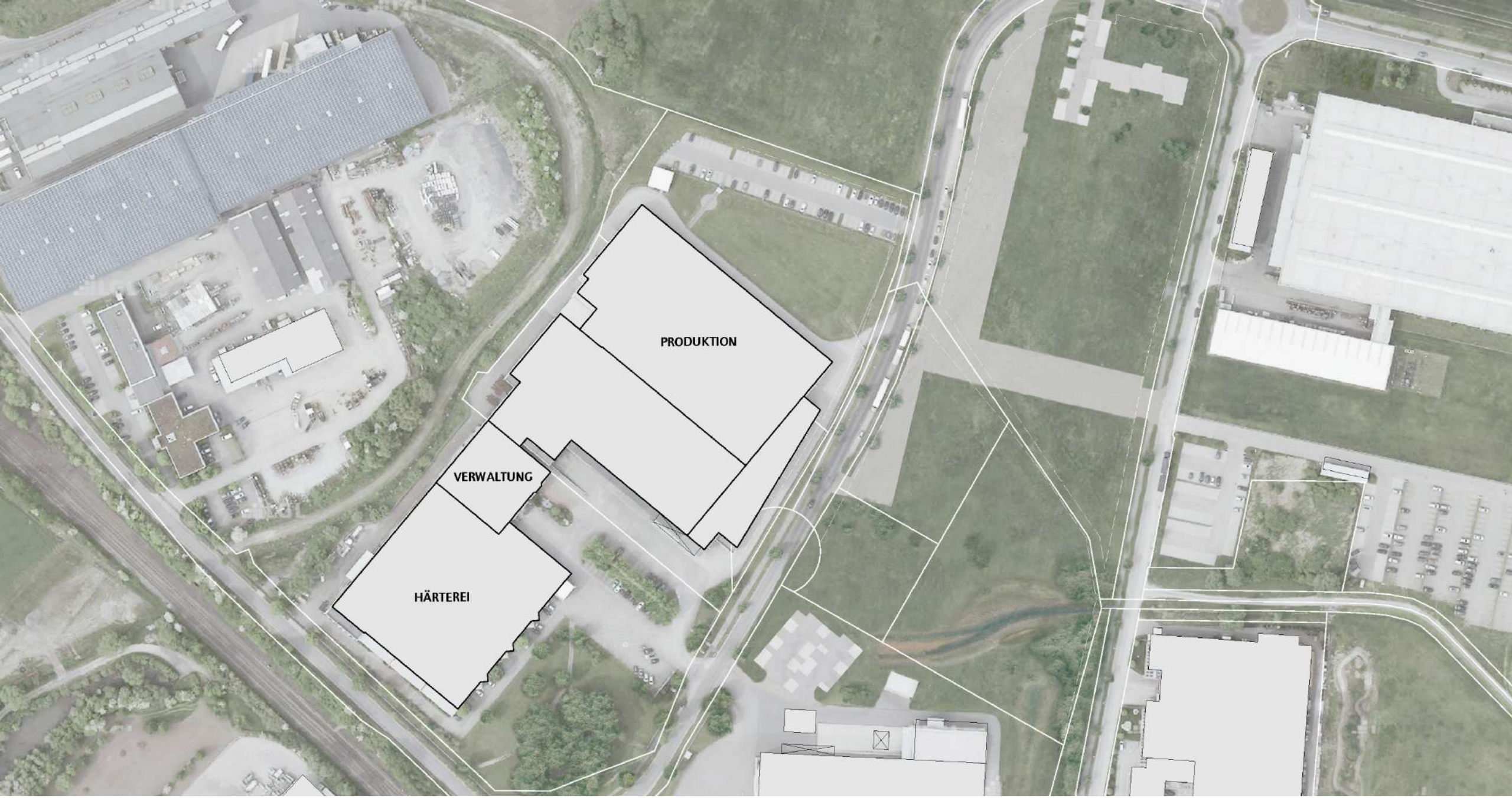
Florian Eitel

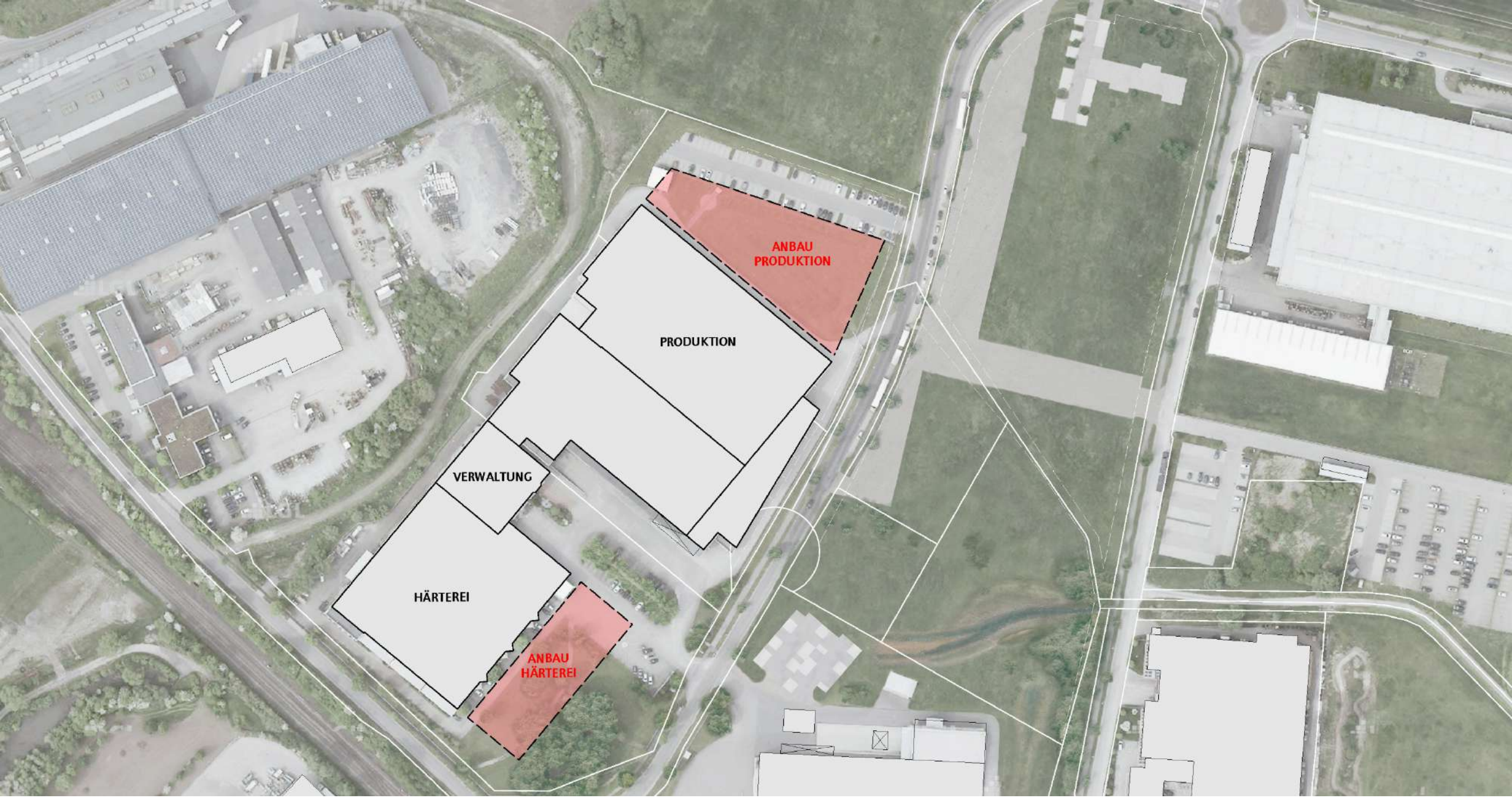
Builder : **Leonhard Weiss**

Hömes Maximilian

Facade, Roof : **Eitle Dieter, Alwico**

Jörg Möke









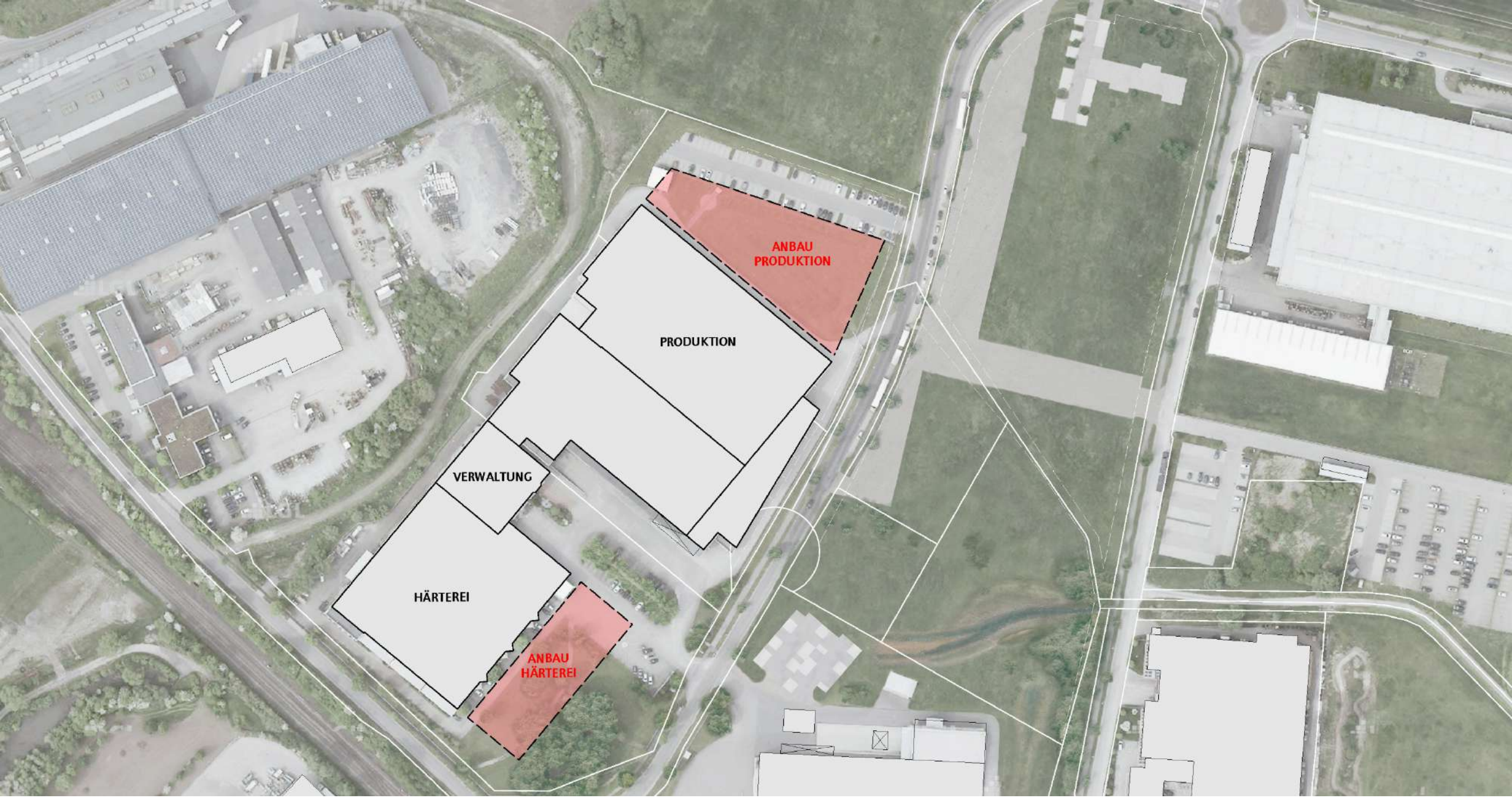












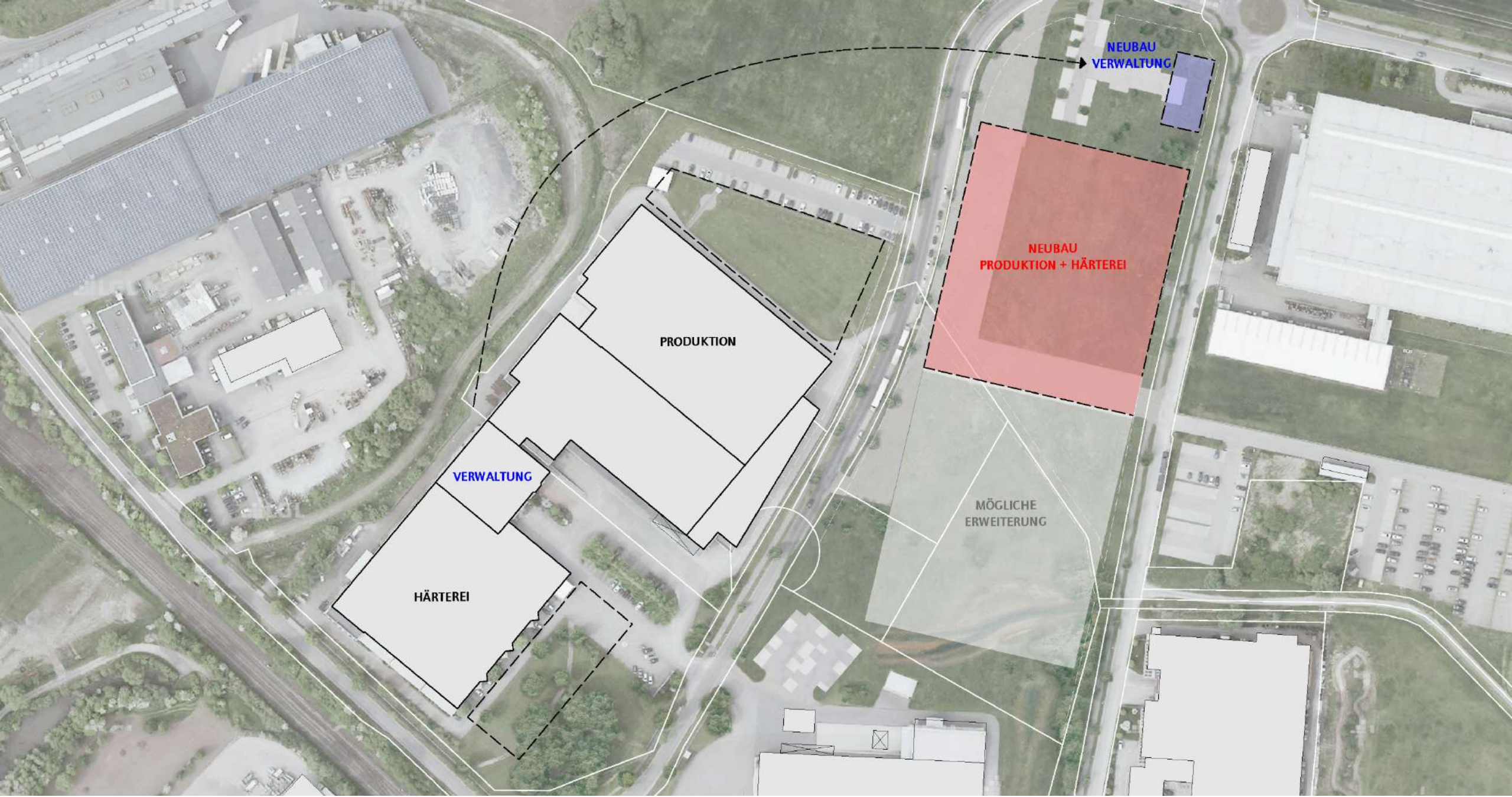
ANBAU
PRODUKTION

PRODUKTION

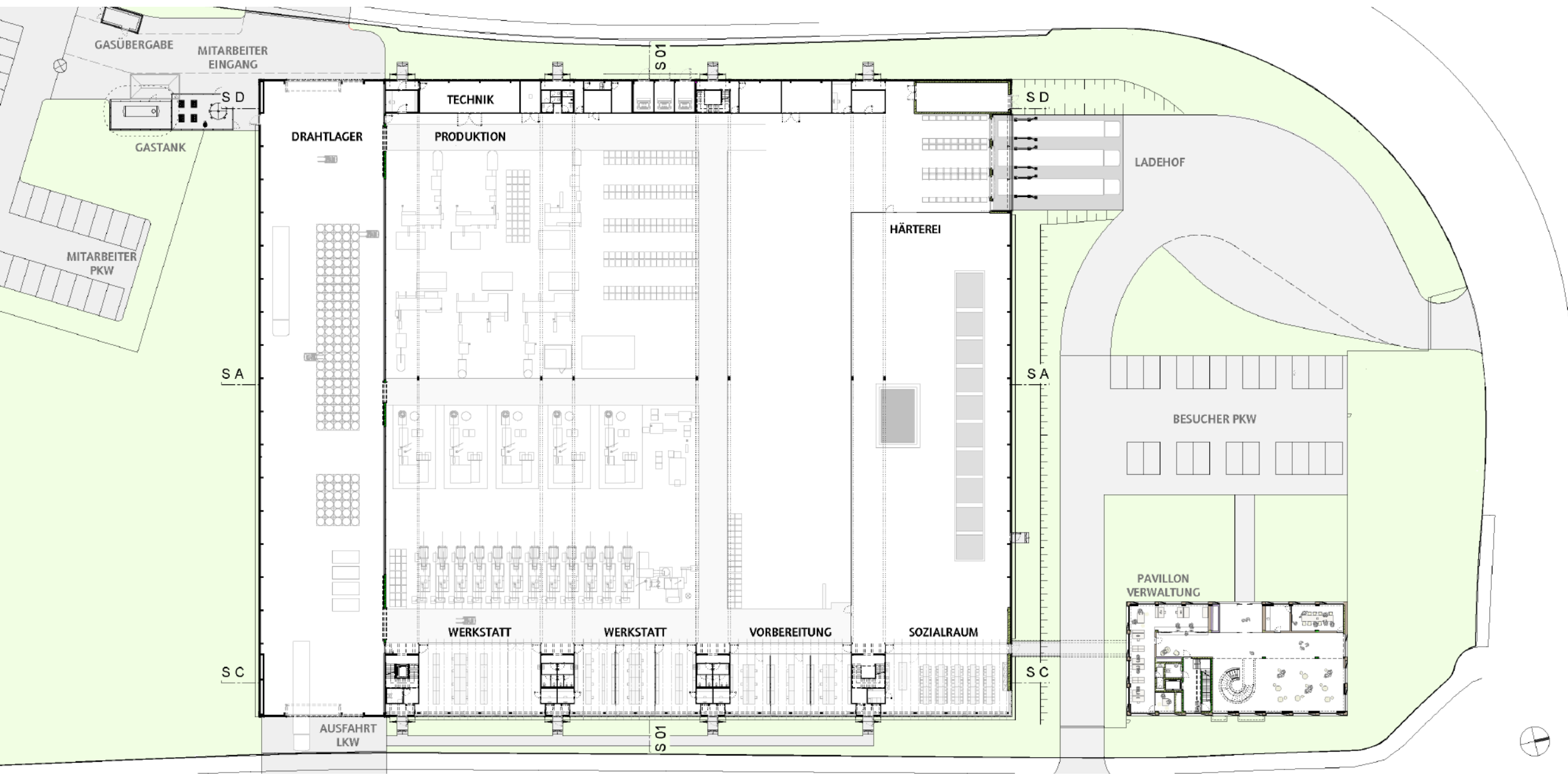
VERWALTUNG

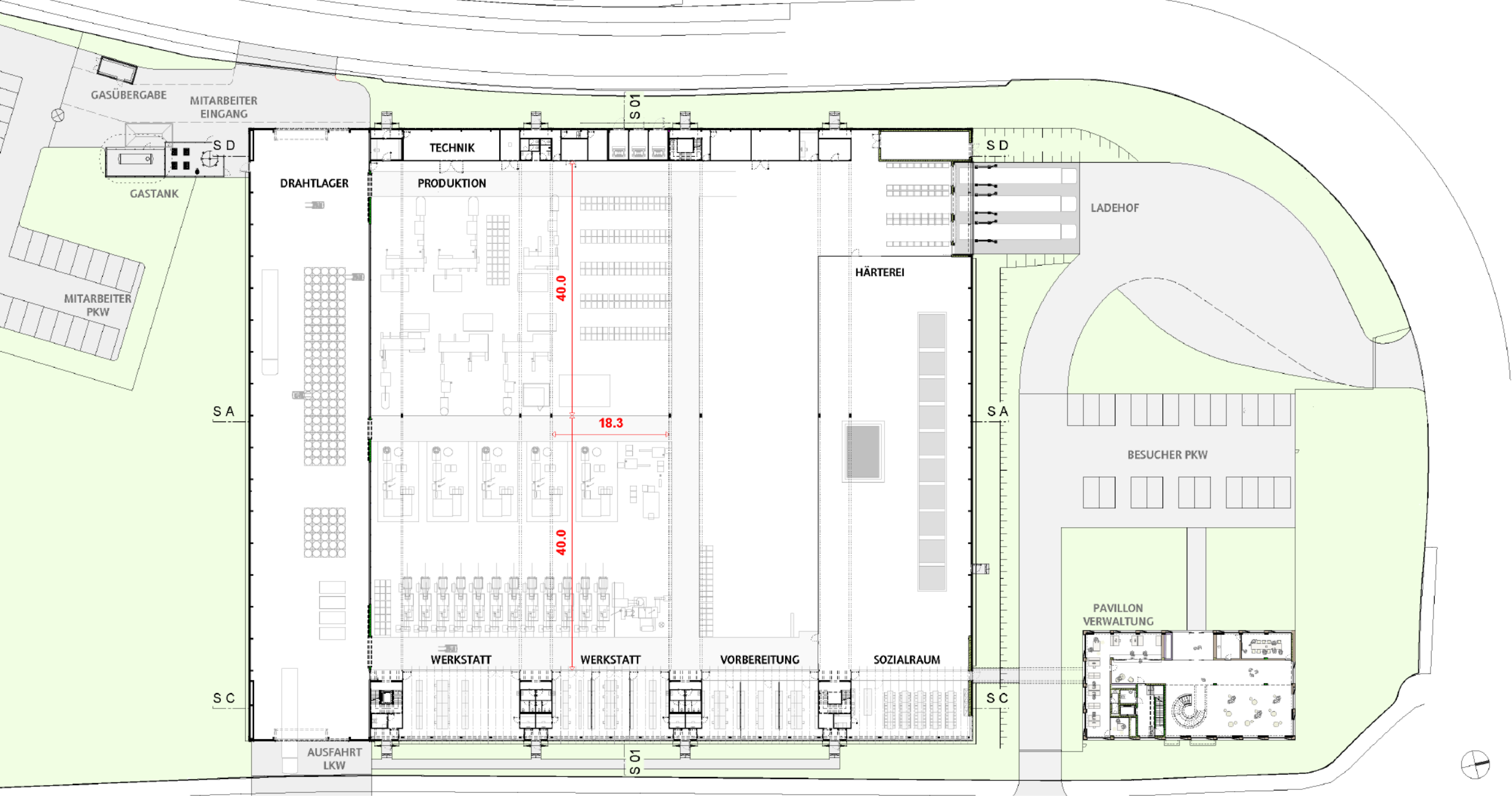
HÄRTEREI

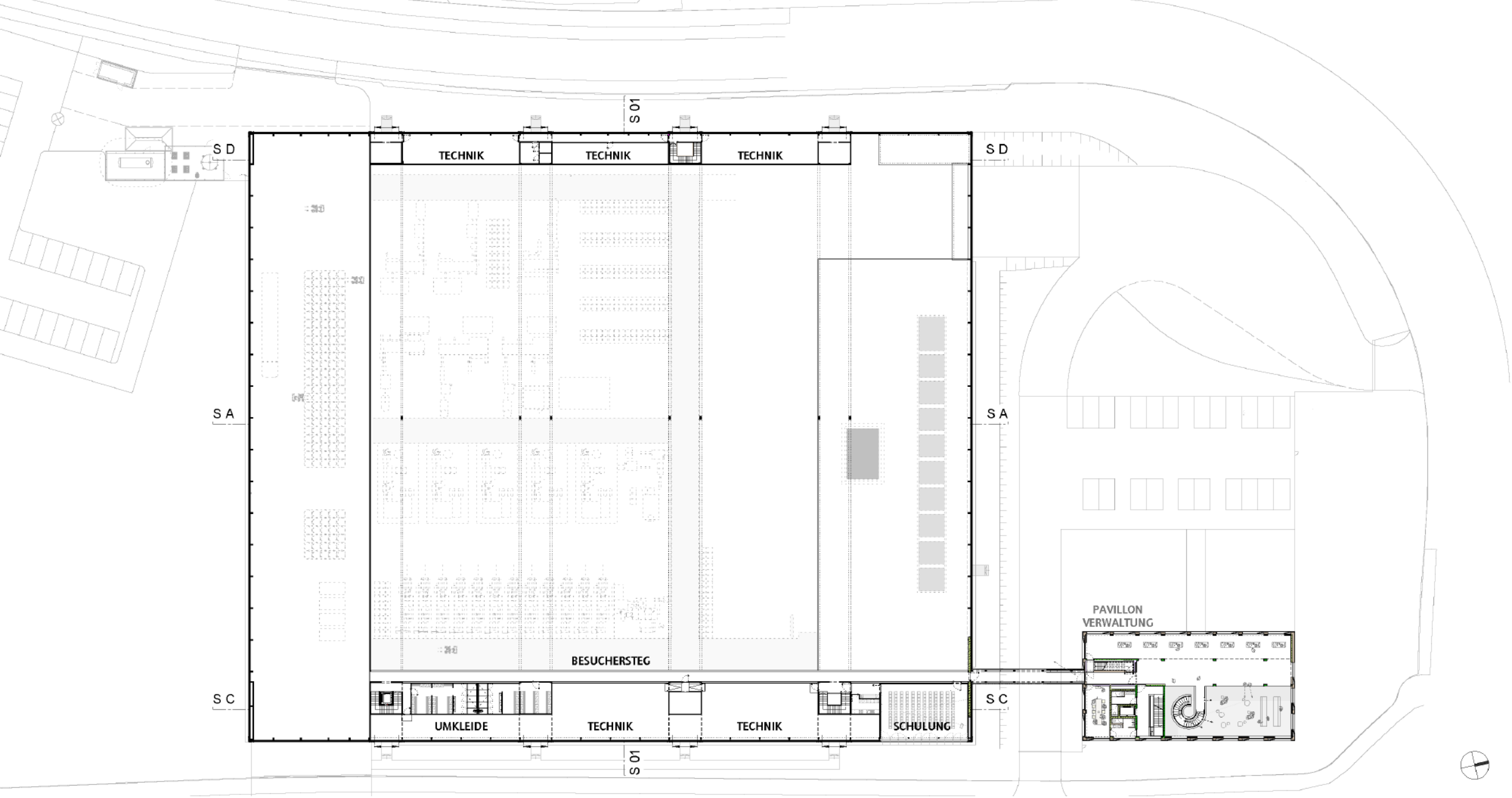
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HÄRTEREI

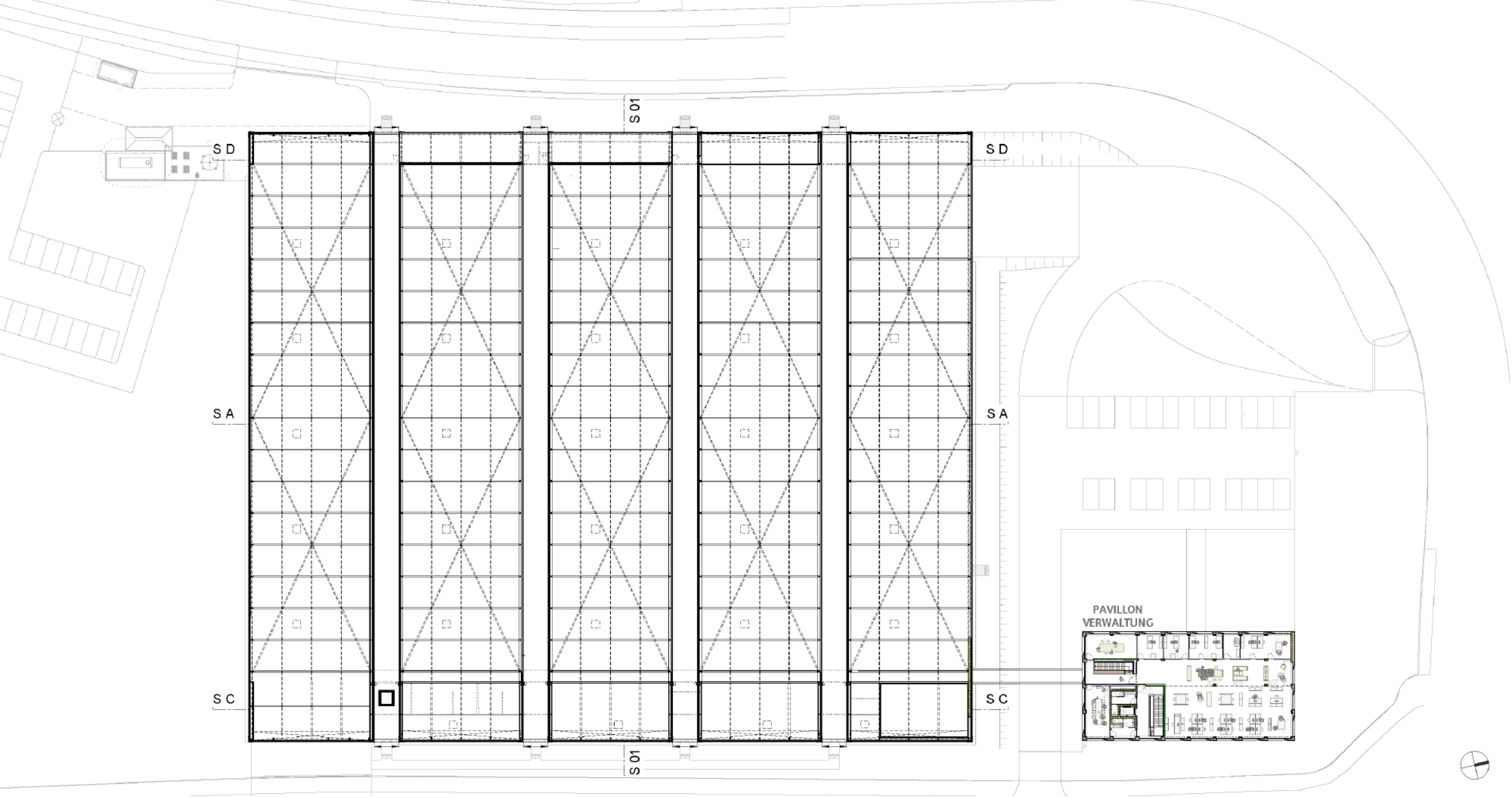












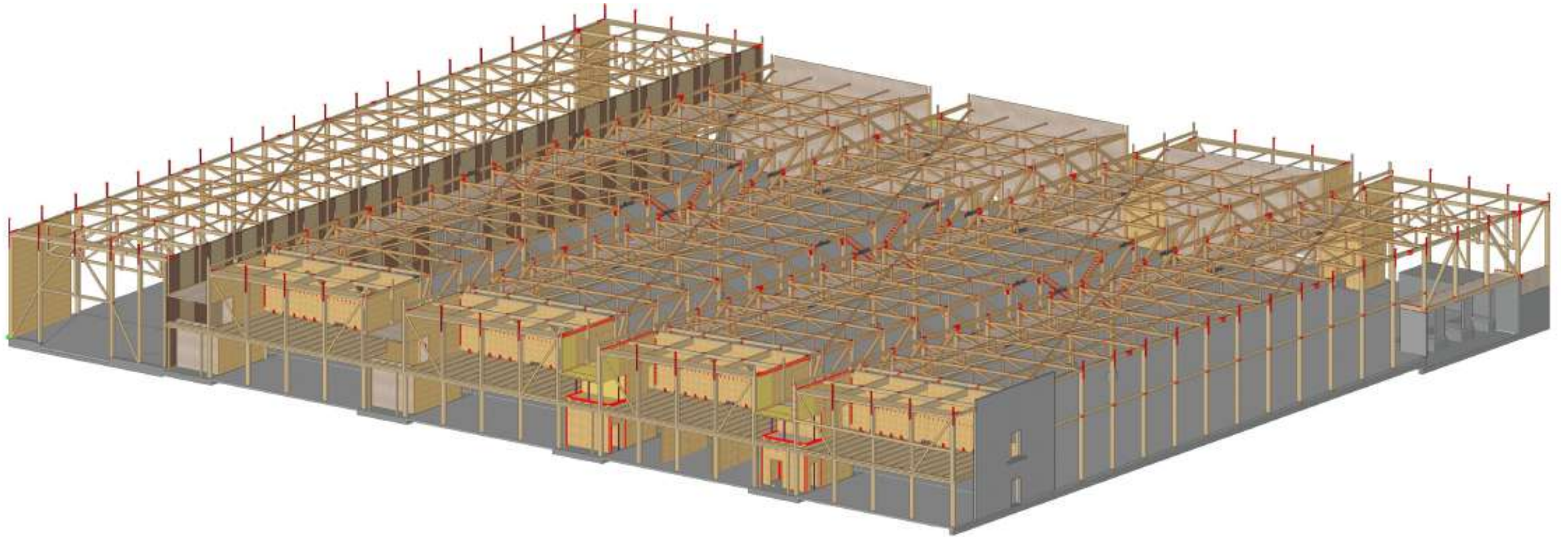


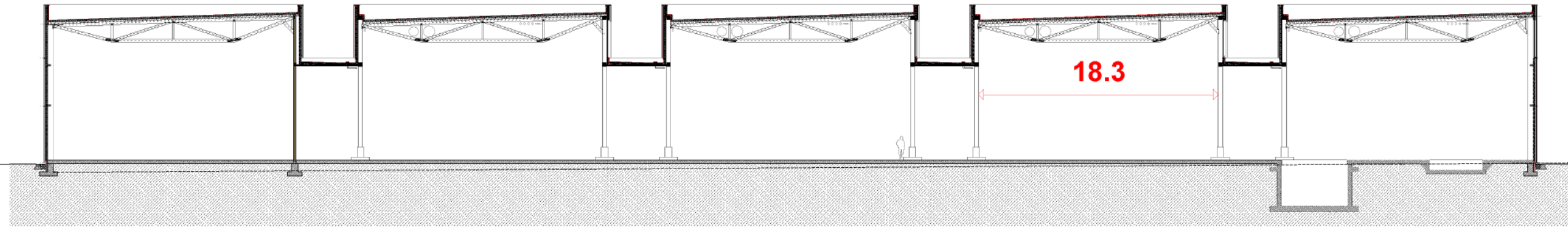
PRODUCTION HALL



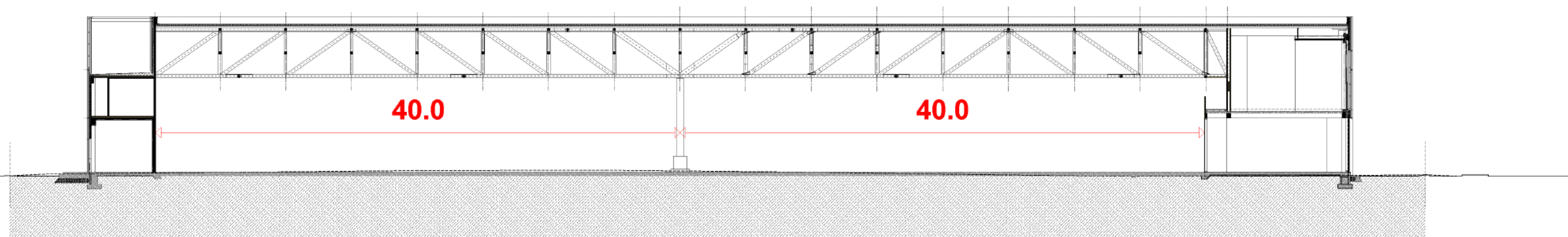




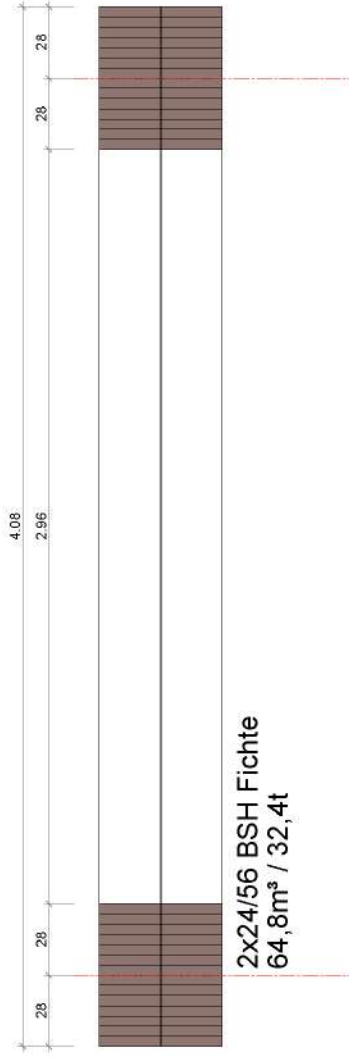


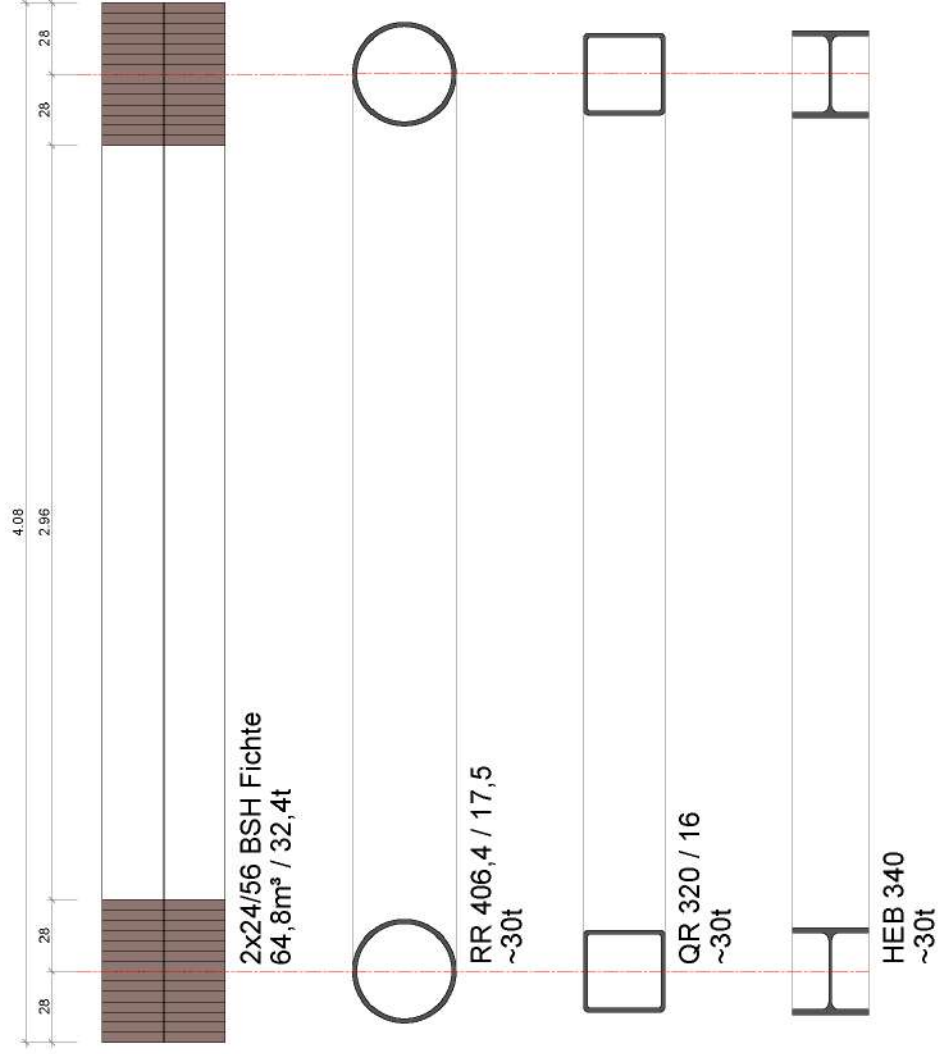


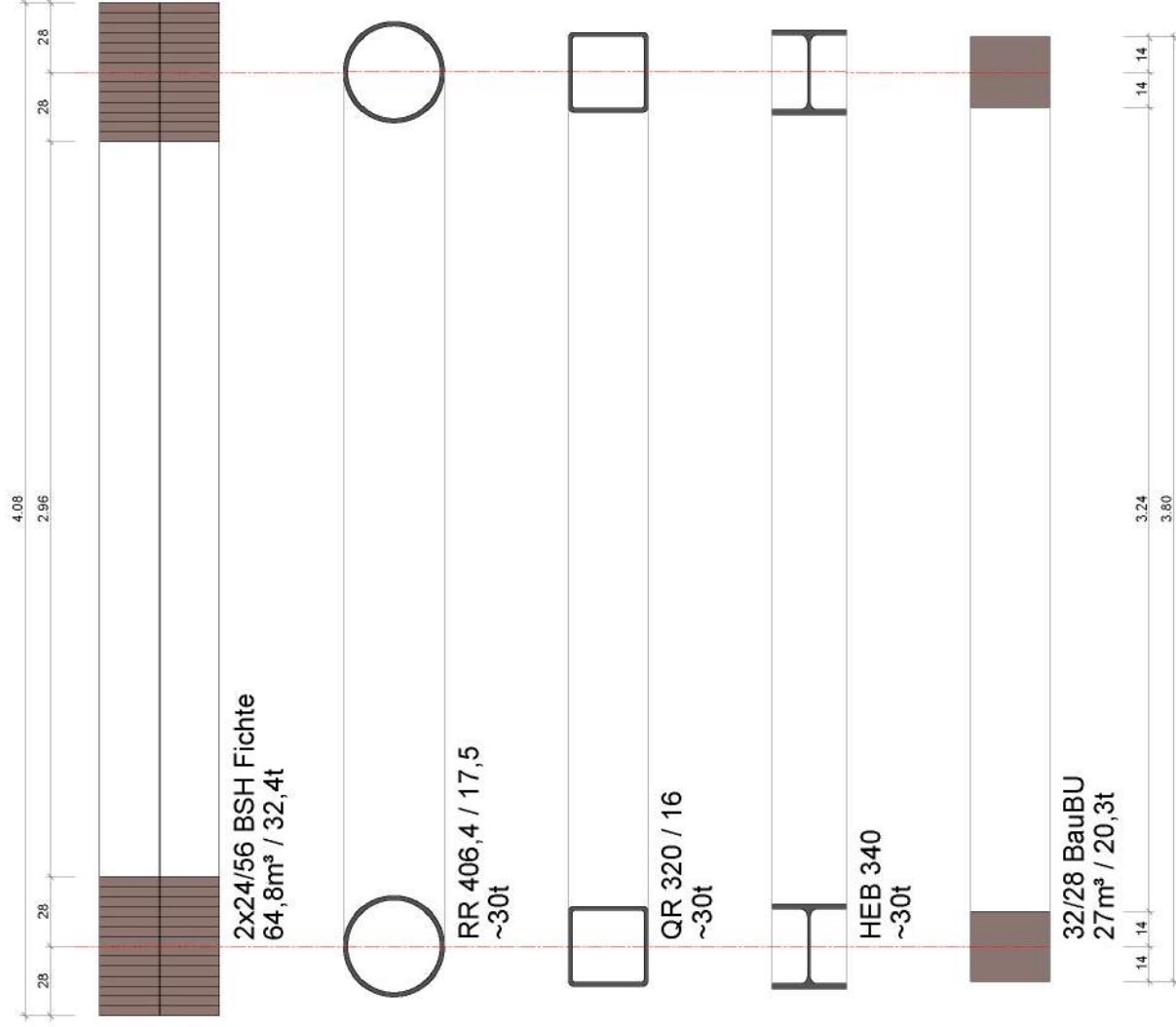
SCHNITT A



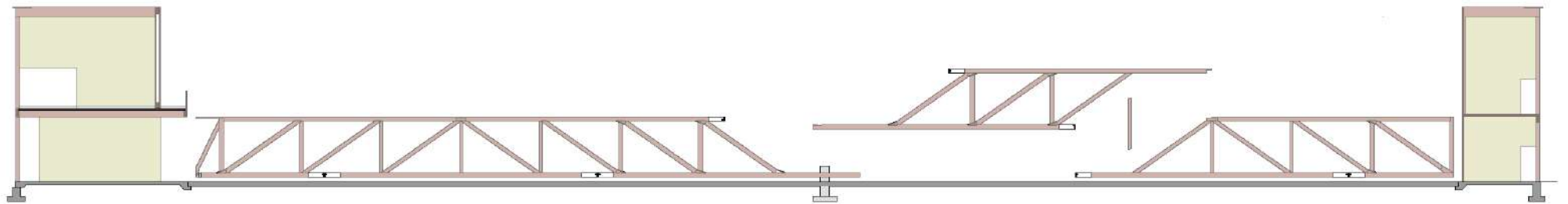
SCHNITT 01

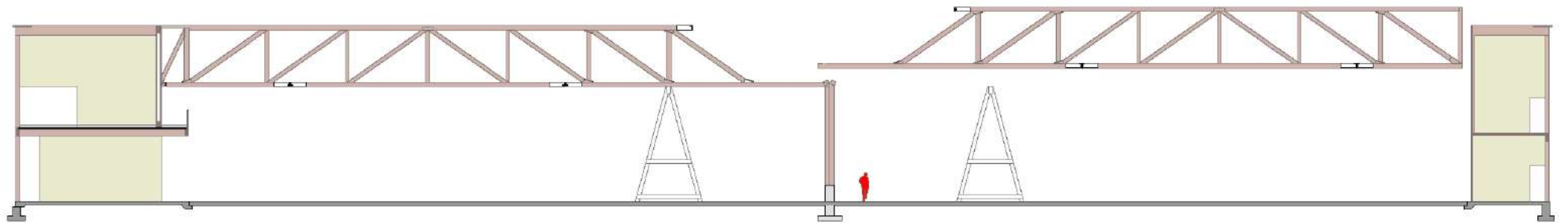


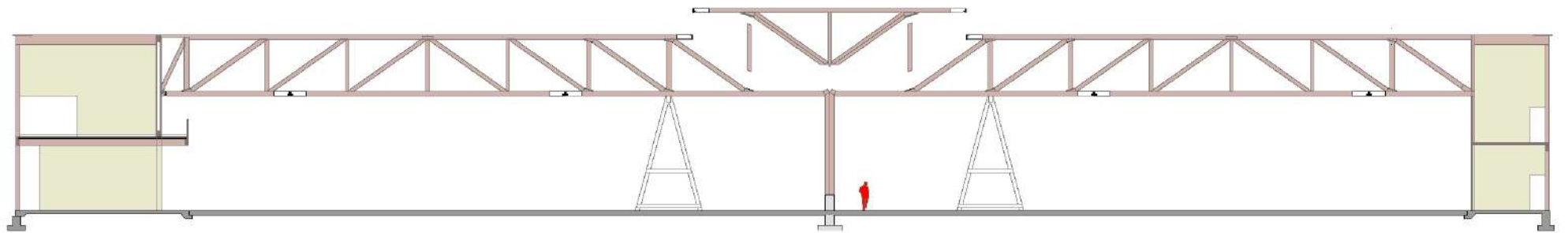


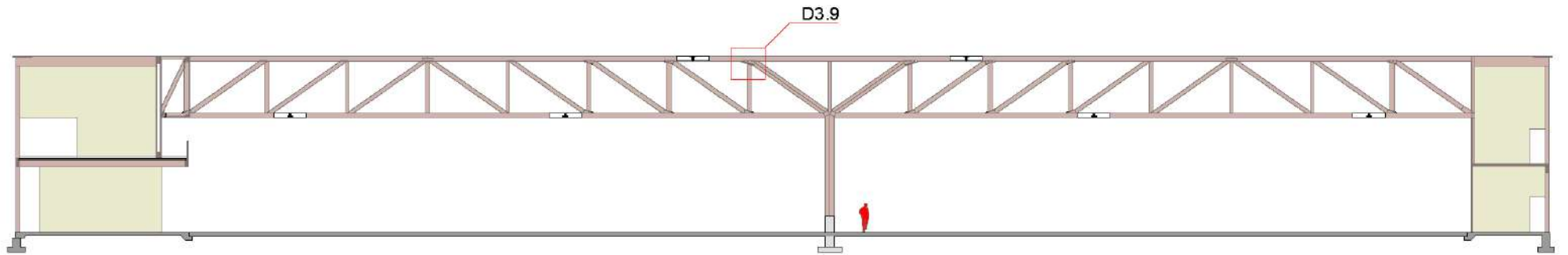


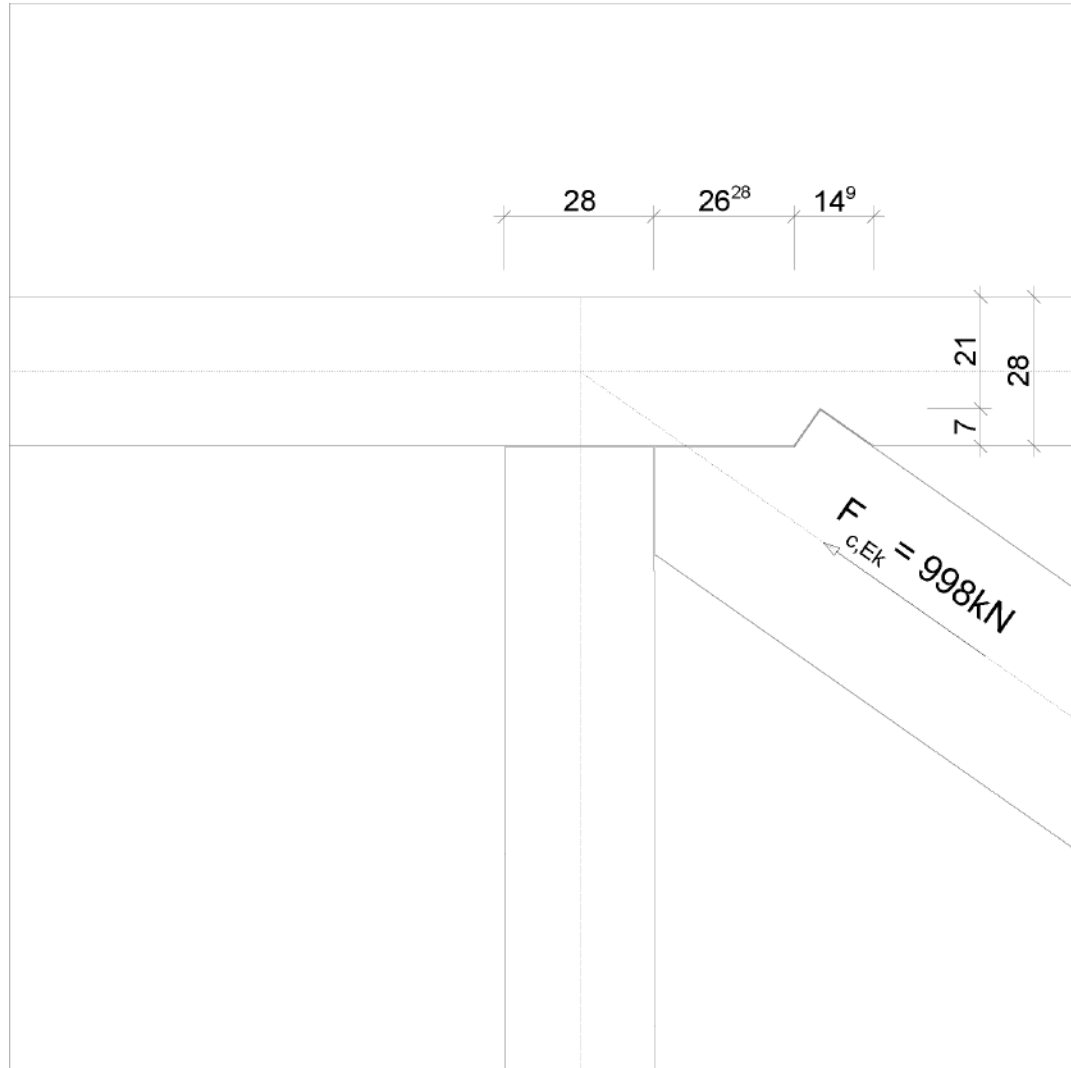








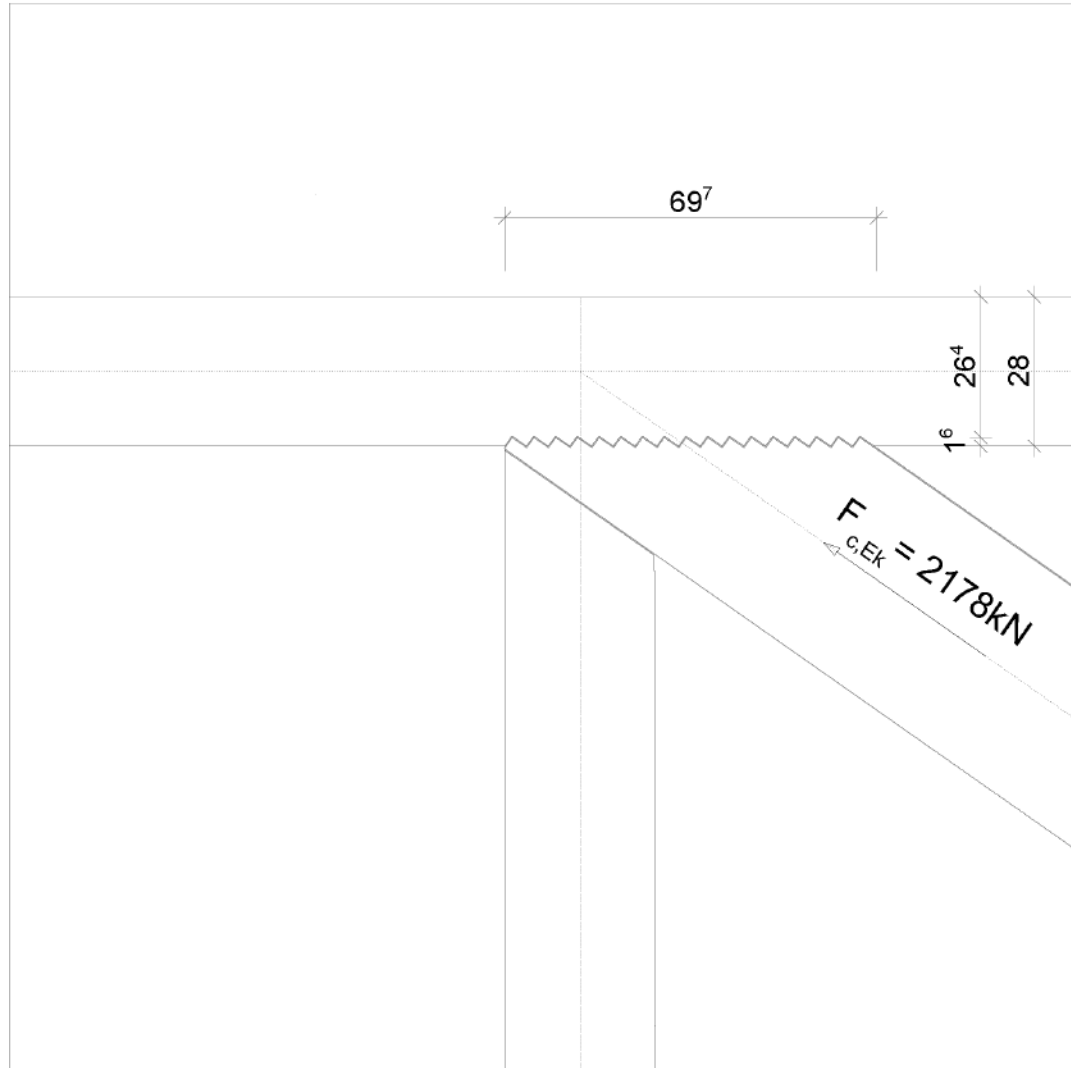




Utilisation of the compressive strenght

Notched connection:

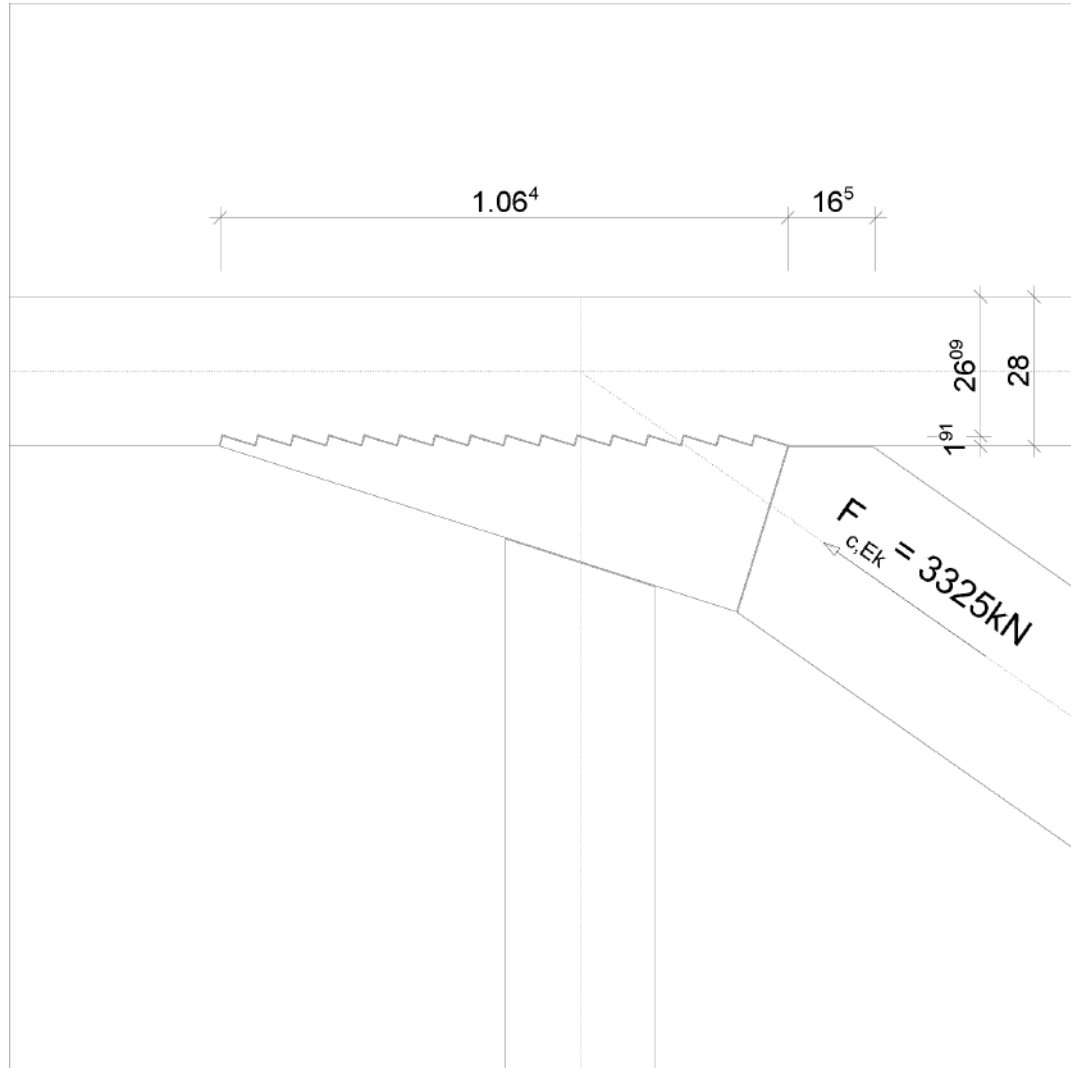
- massive weakening of the upper / lower chord
- high dimensional tolerance and positively
- absorbable compressive force: $F_{c,EK} = 998 \text{ kN}$



Utilisation of the compressive strenght

Multiple notched connection:

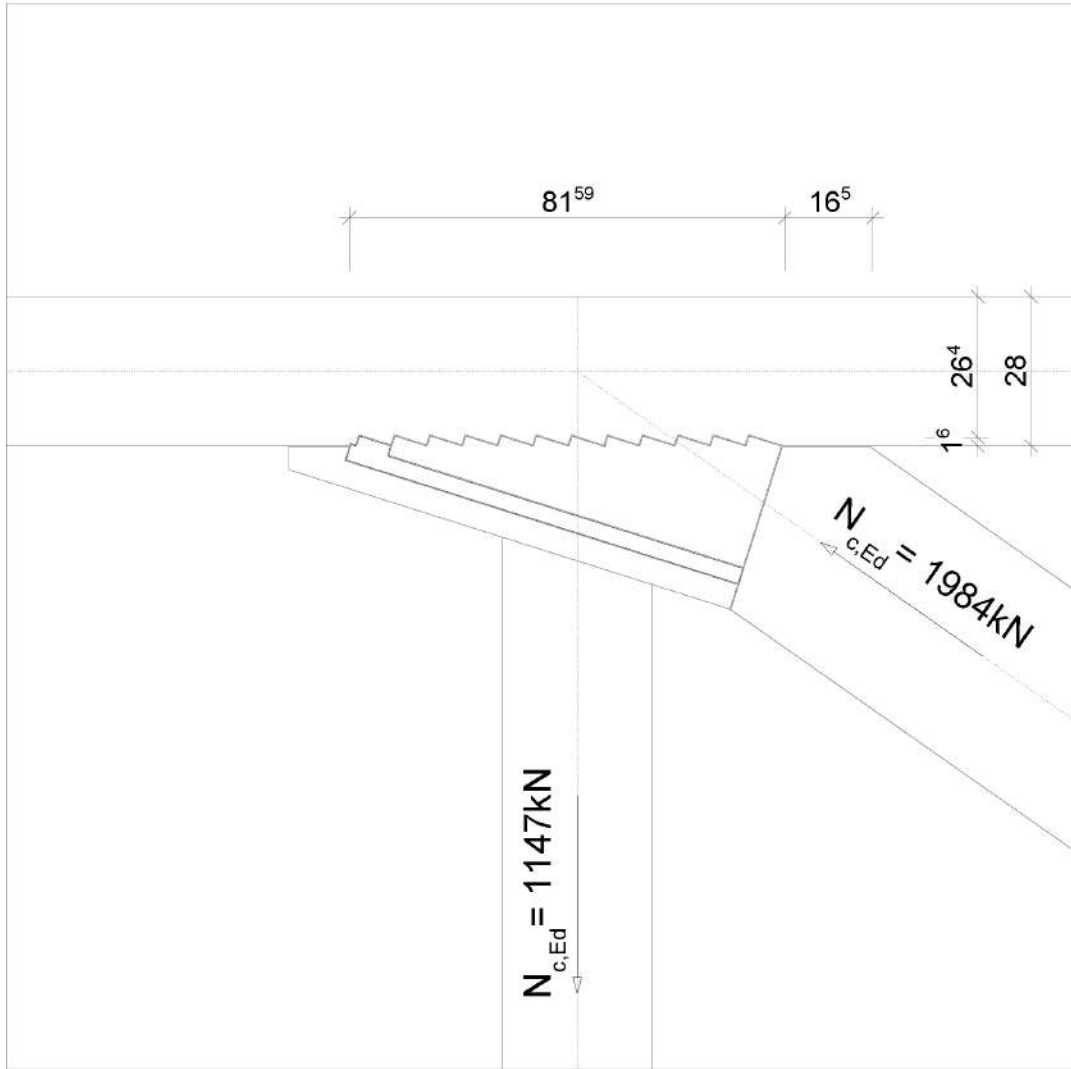
- slight weakening of the upper / lower chord
- no dimensional tolerance and positively
- absorbable compressive force: $F_{c,EK} = 2178 kN$

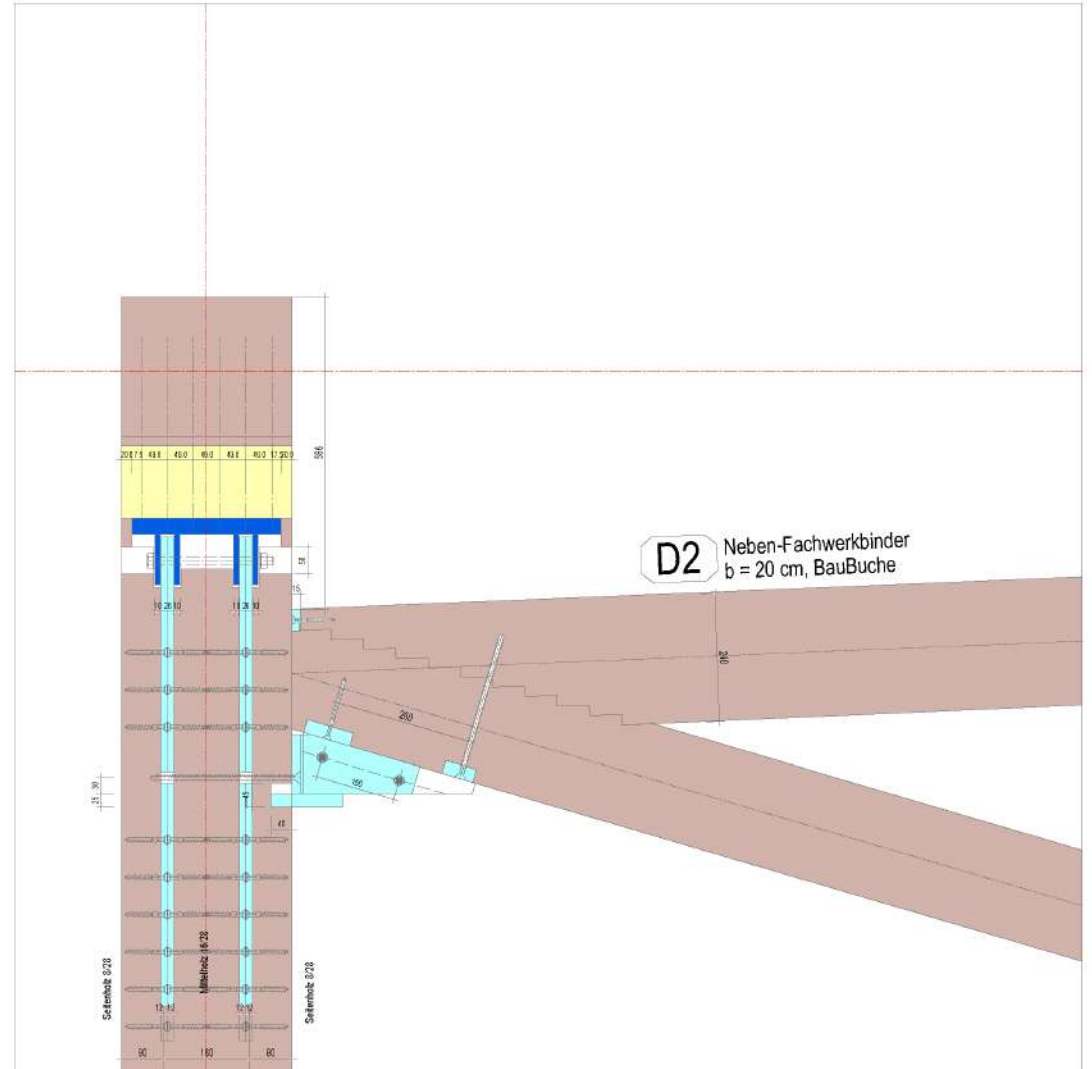
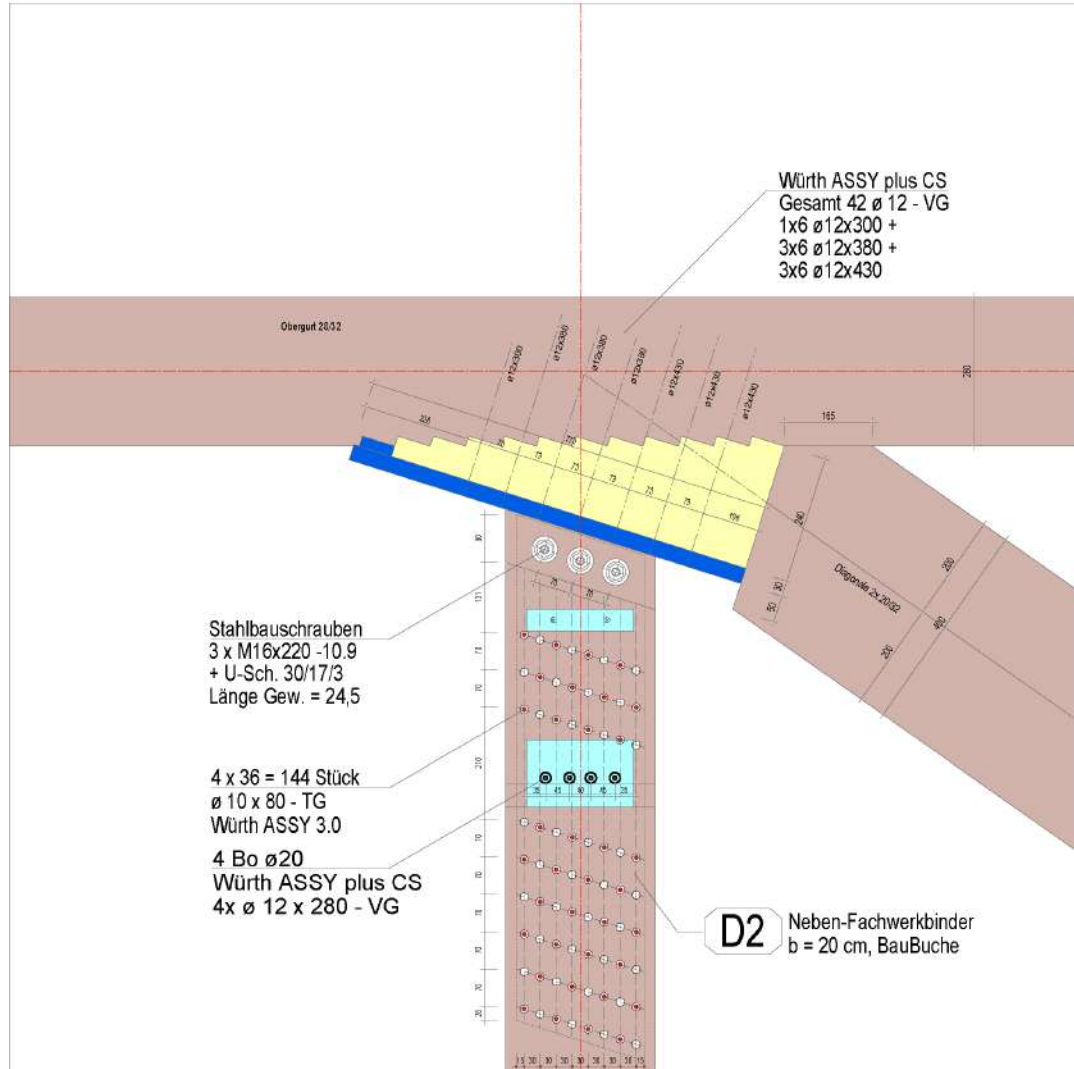


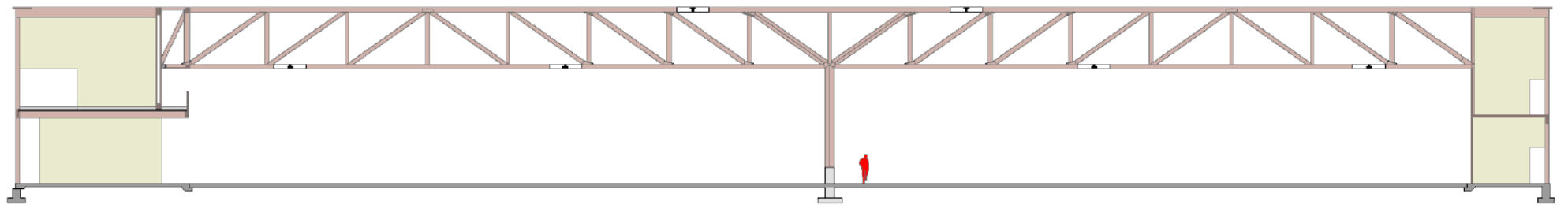
Utilisation of the compressive strenght

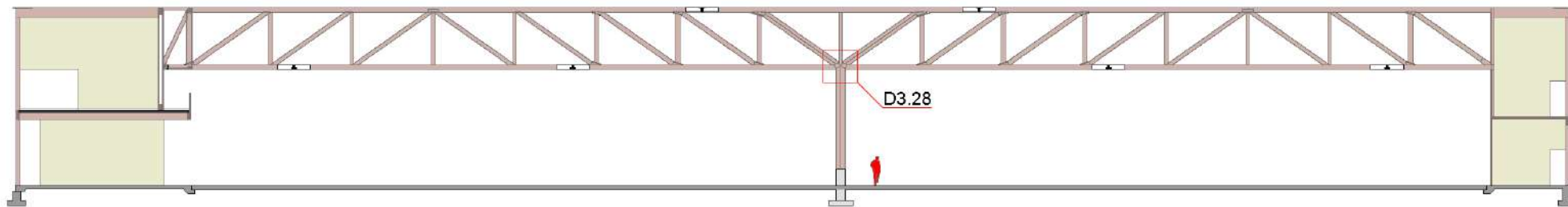
Extended multiple notched connection:

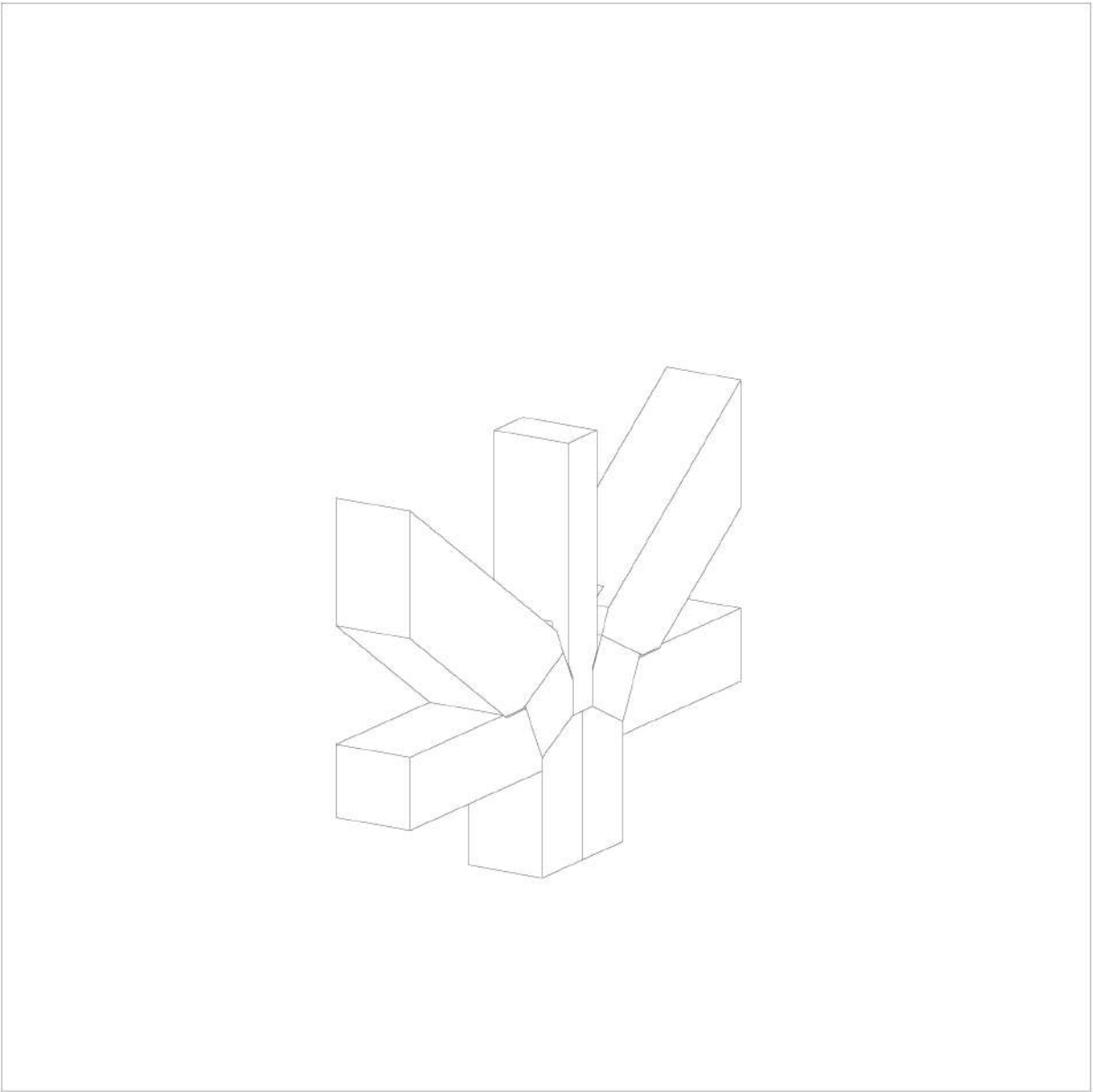
- slight weakening of the upper / lower chord
- no dimensional tolerance and positively
- absorbable compressive force: $F_{c,EK} = 3325\text{ kN}$

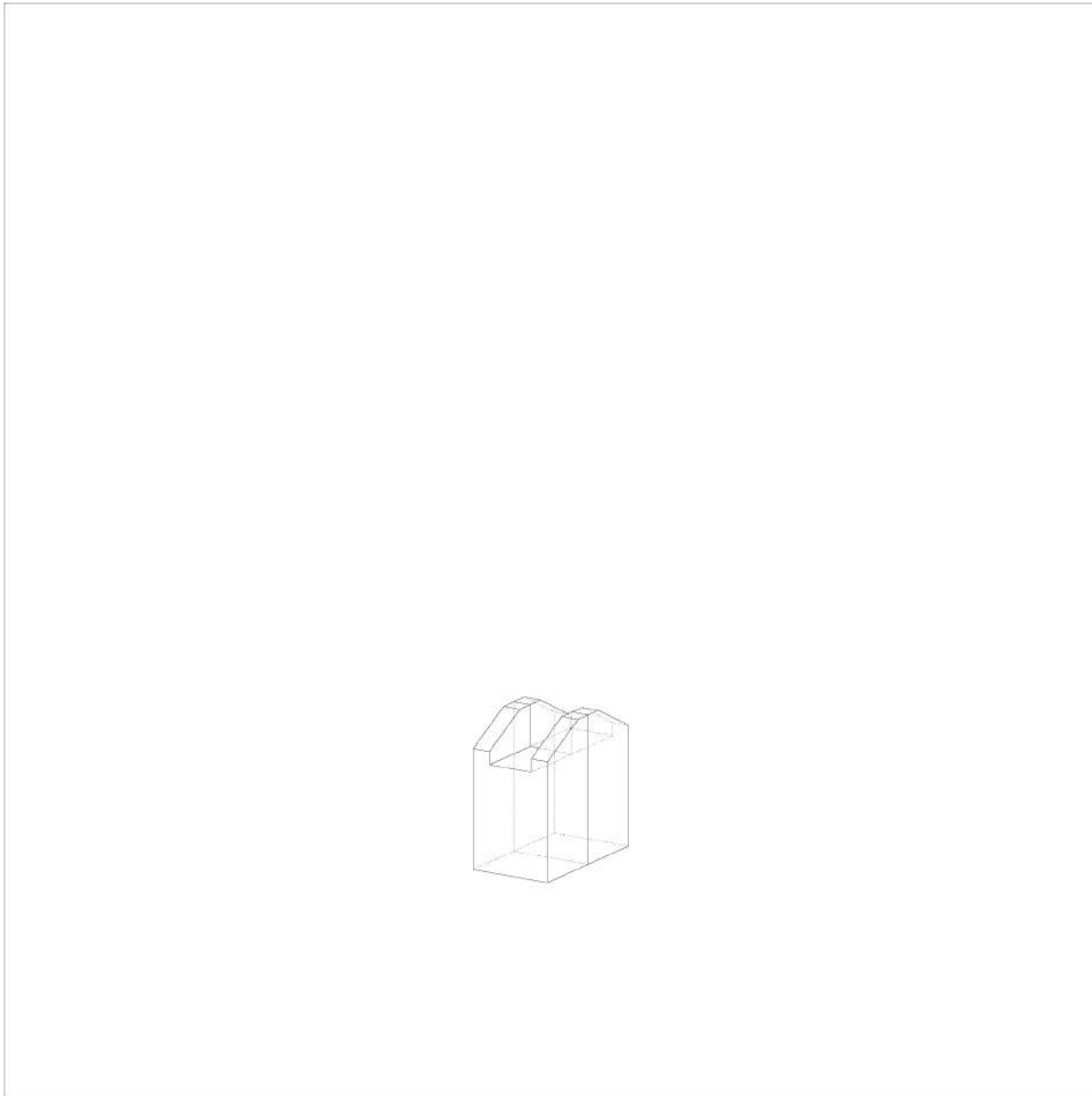


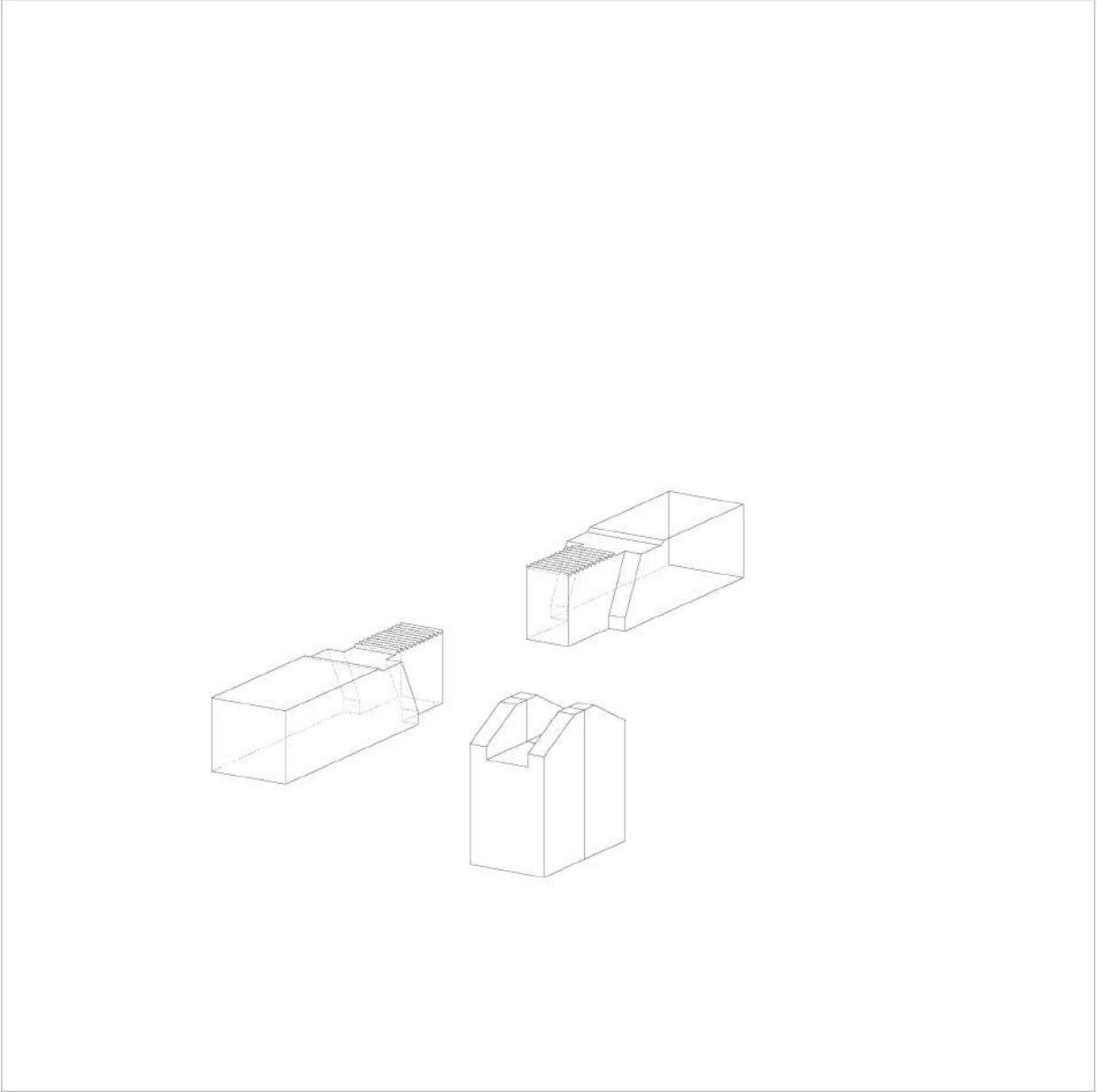


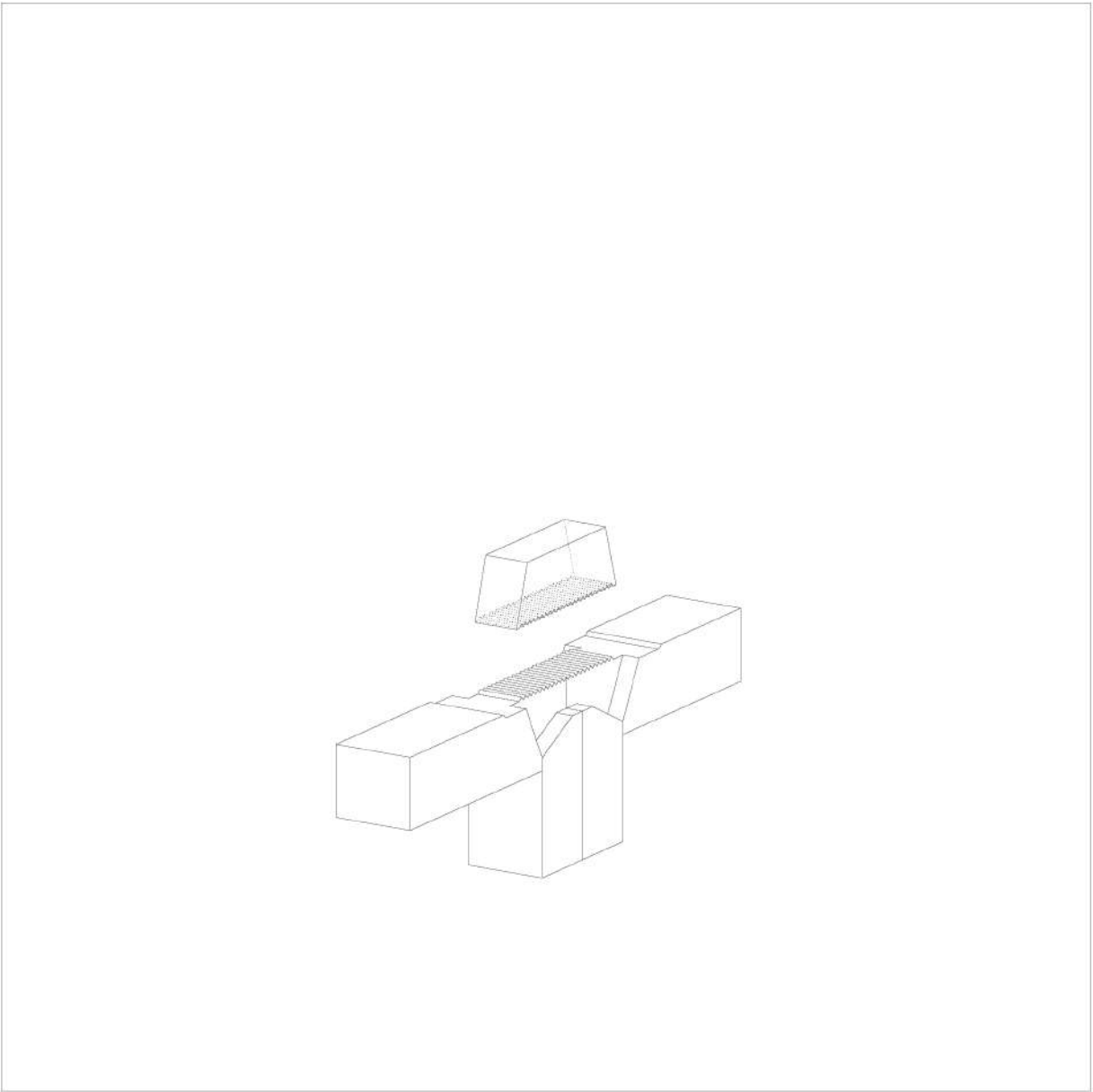


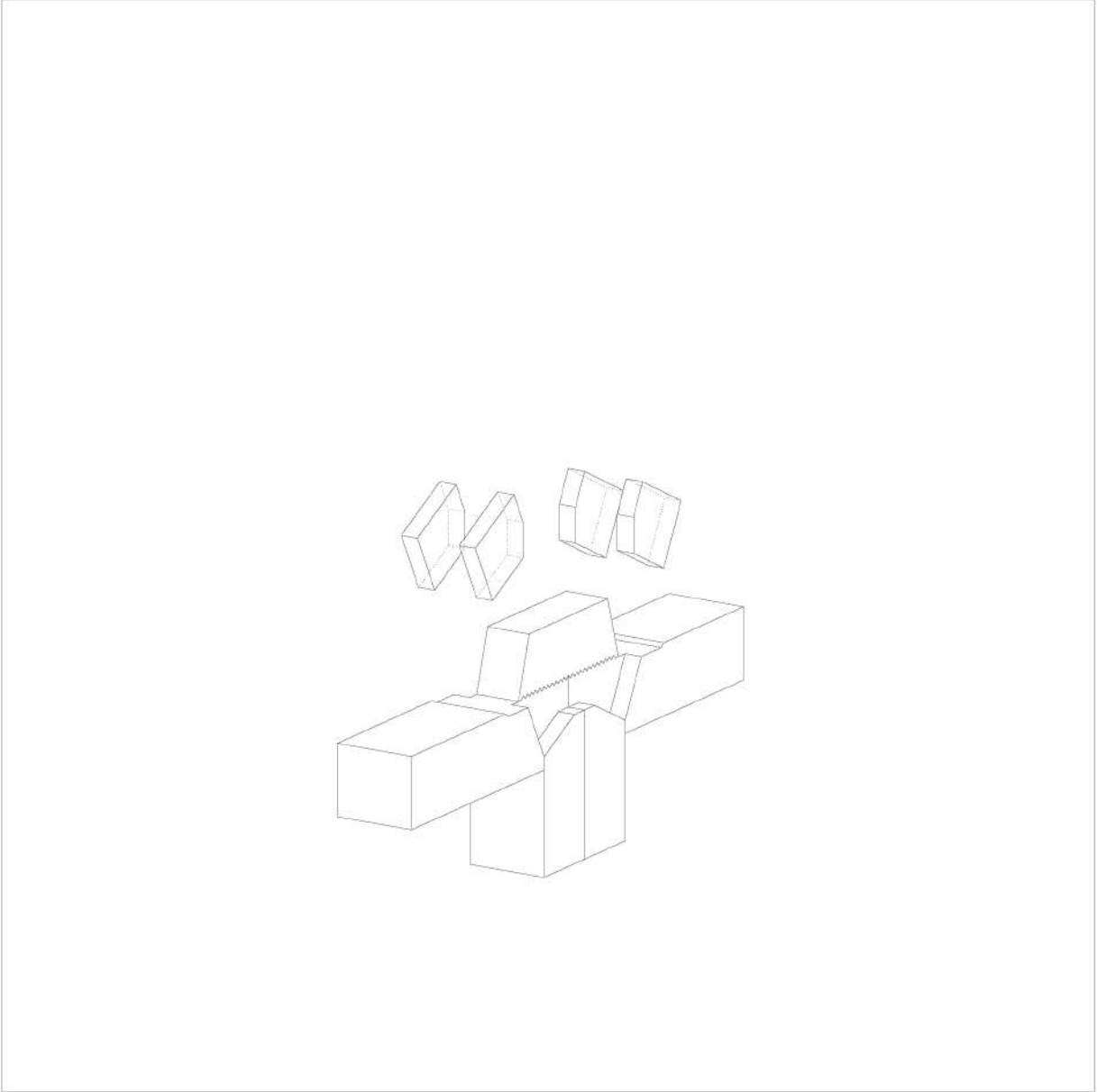


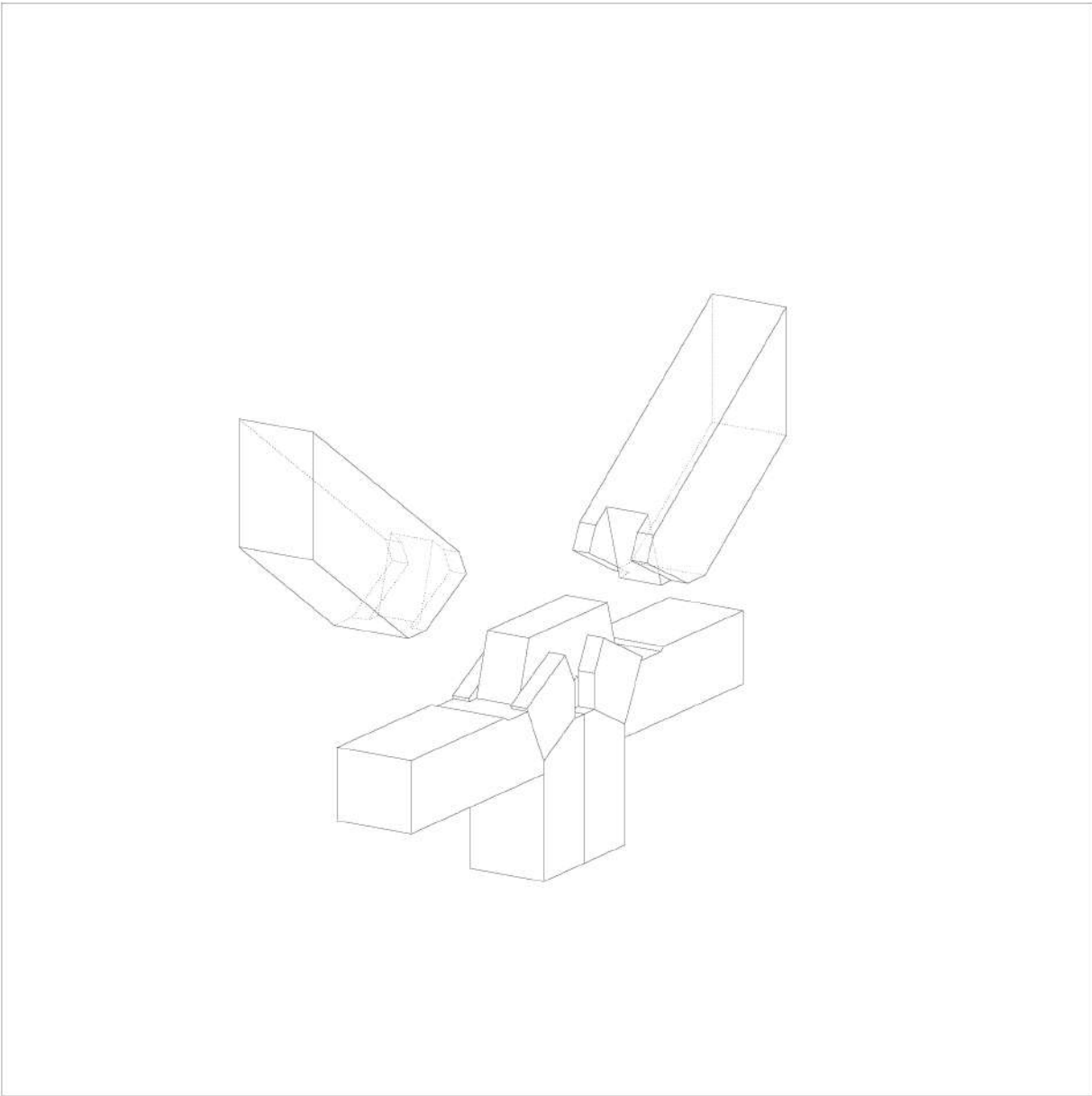


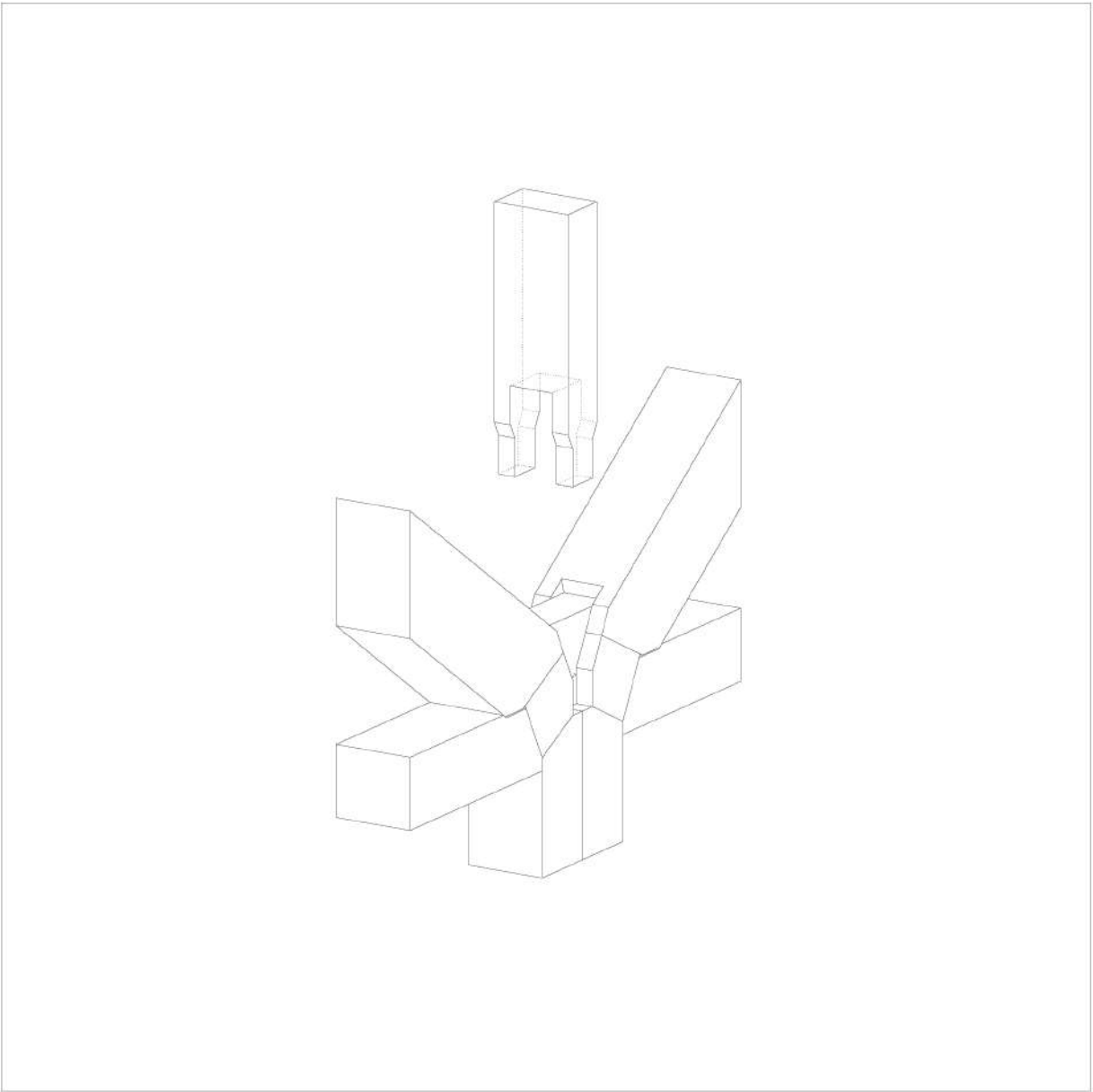


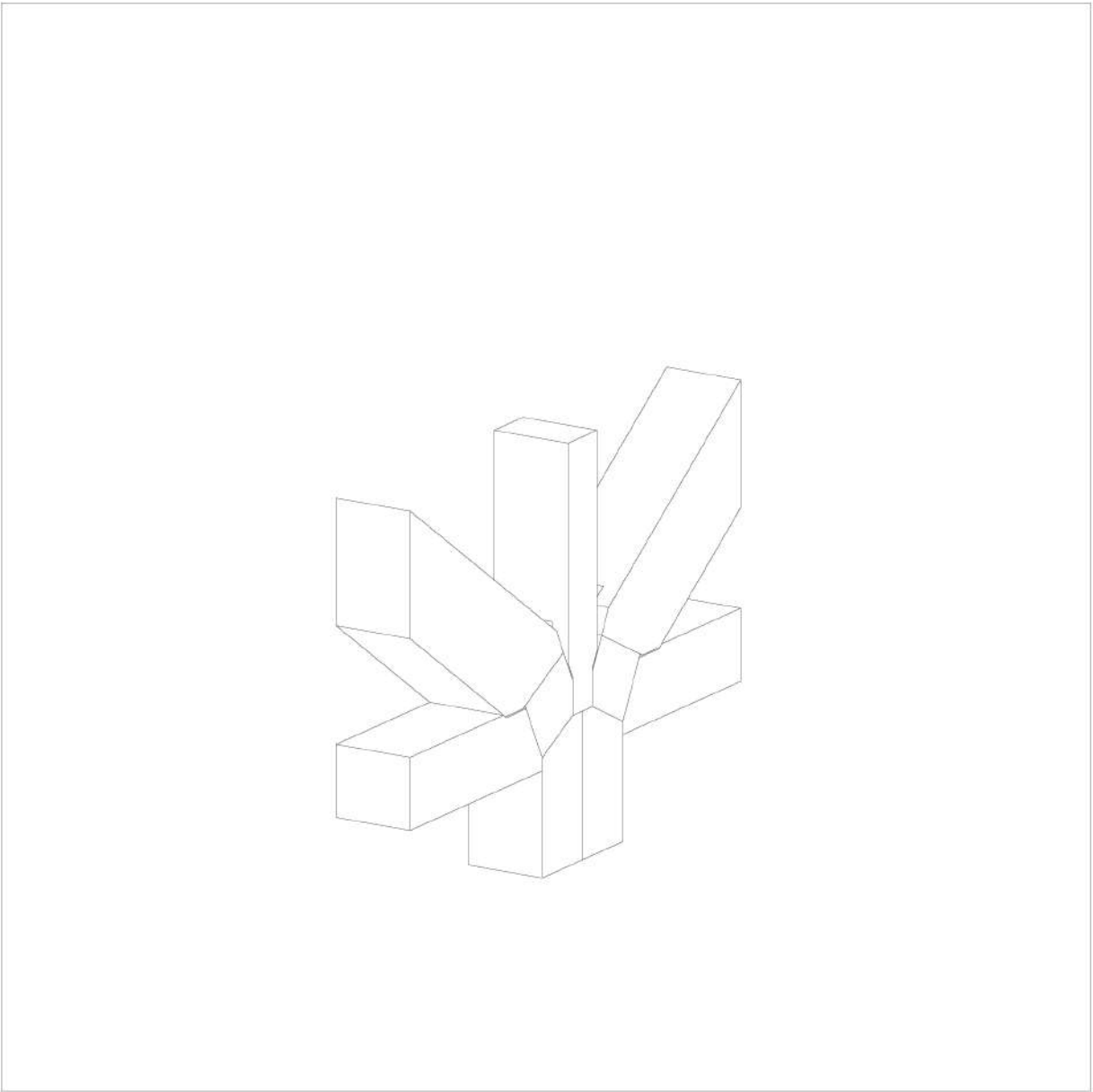


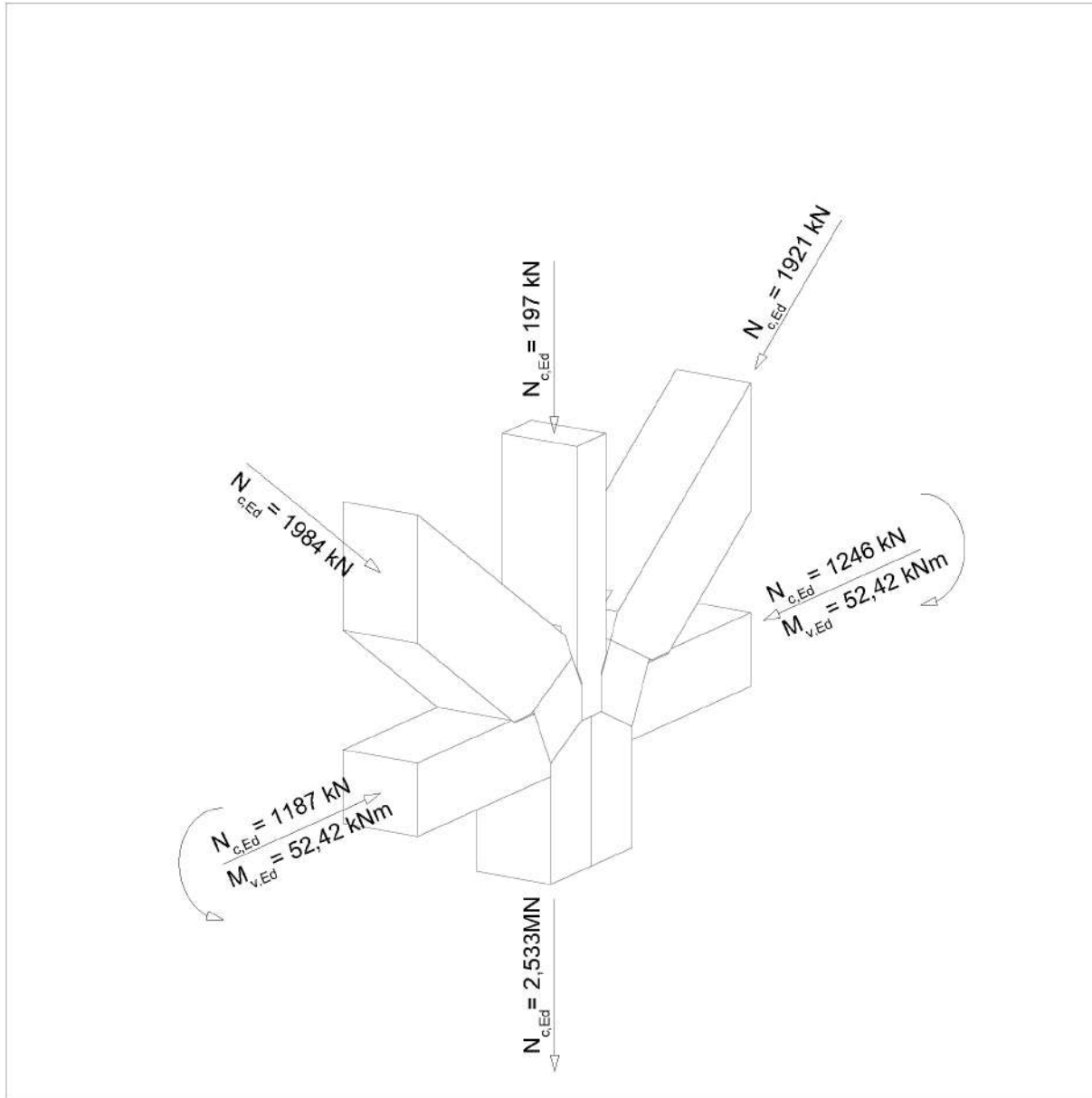


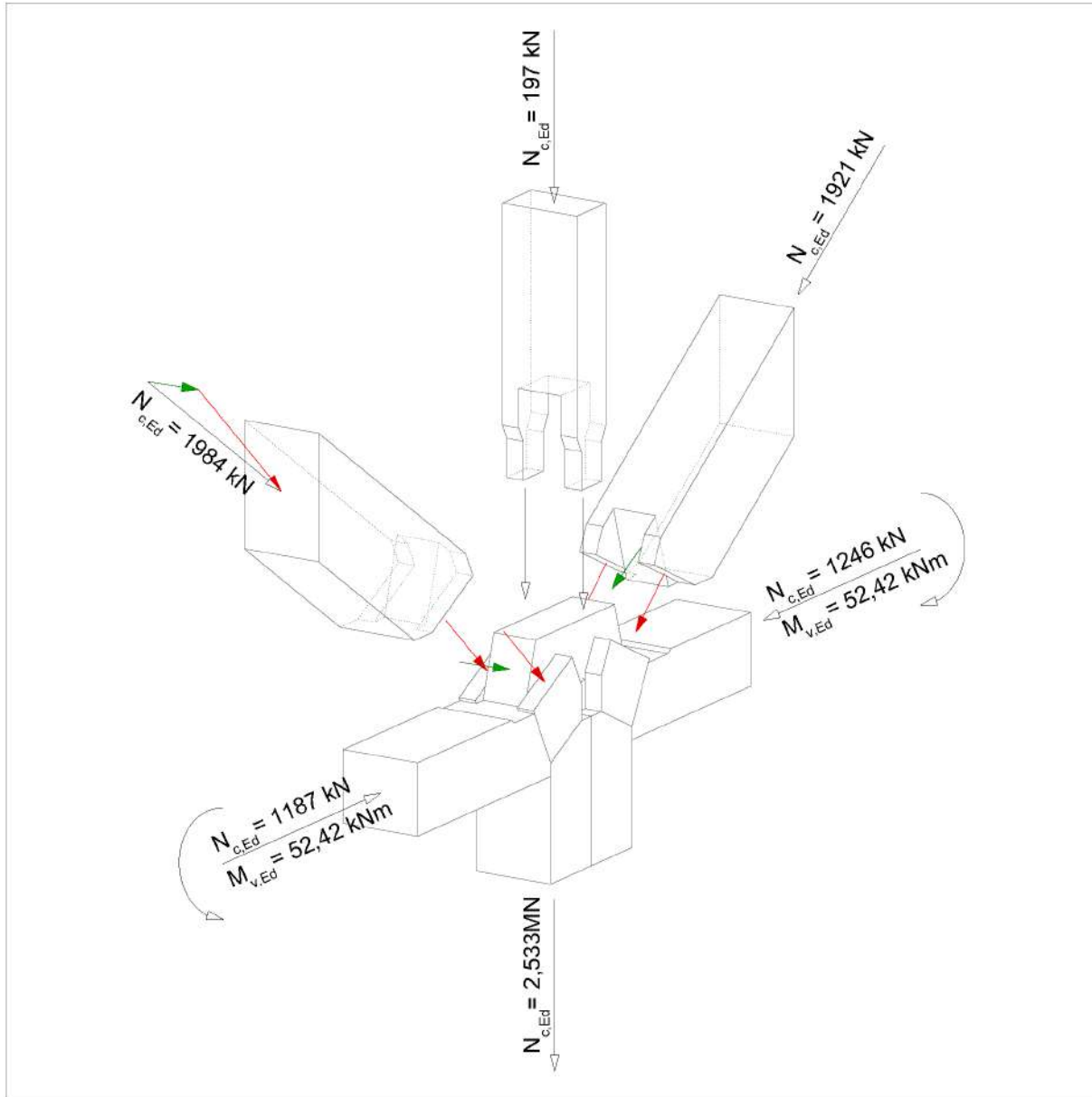


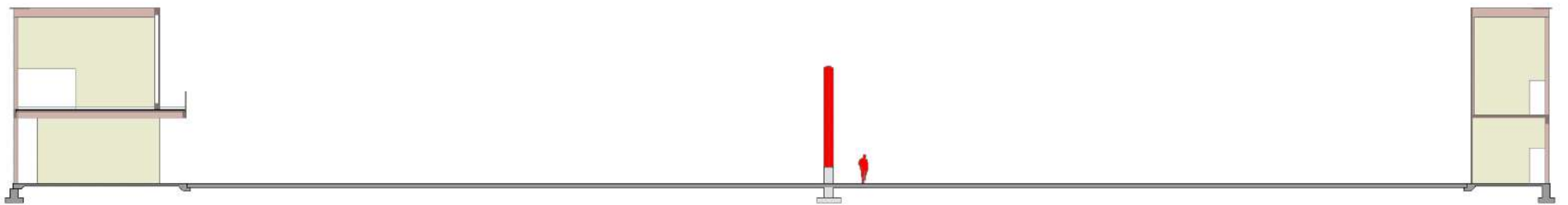


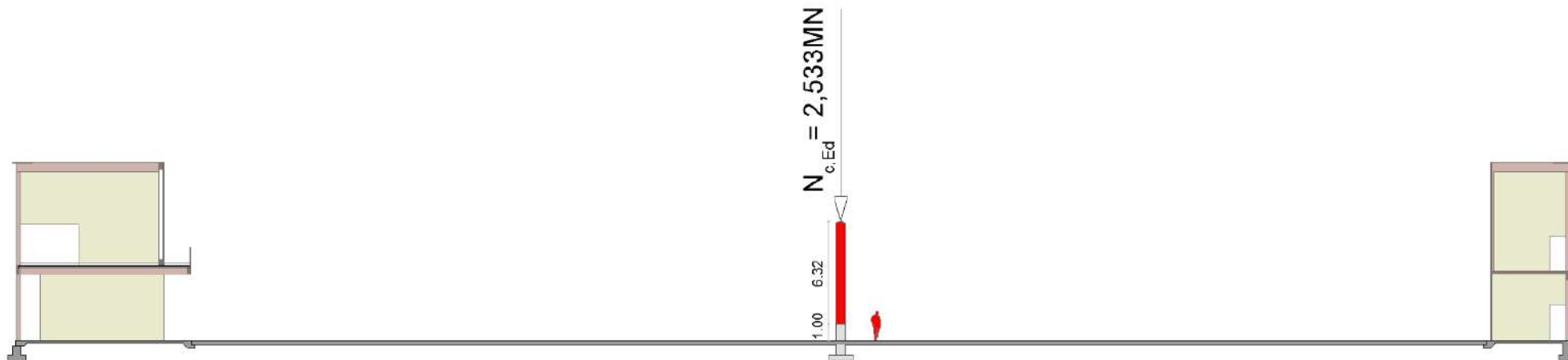






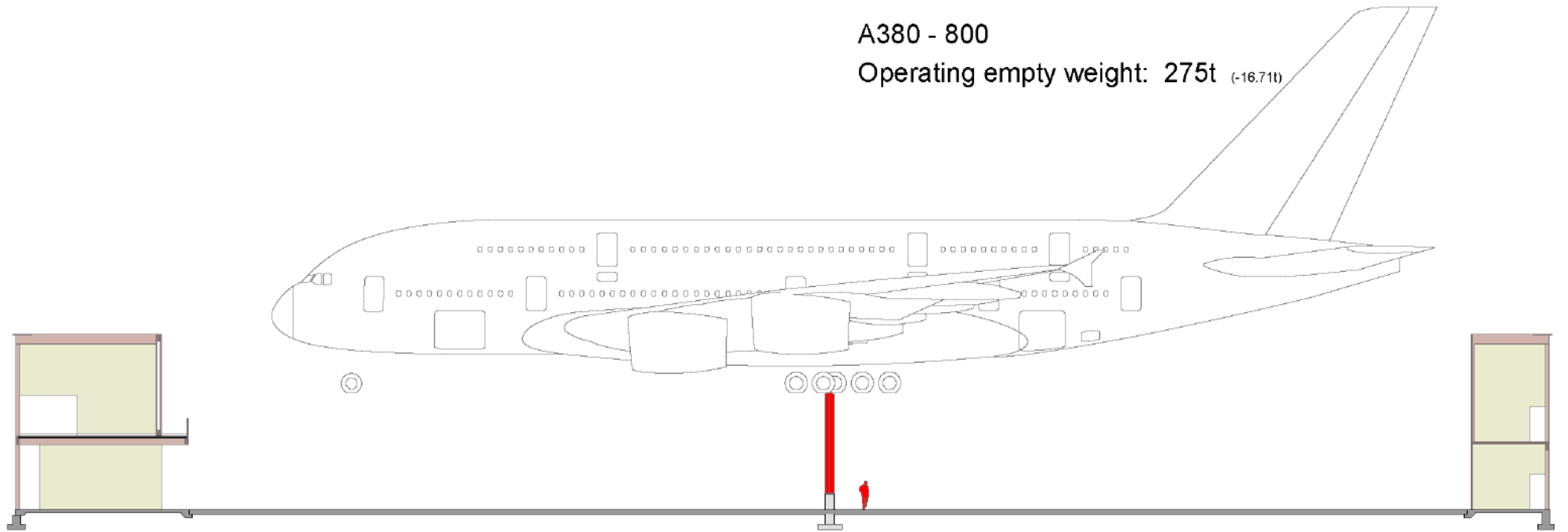


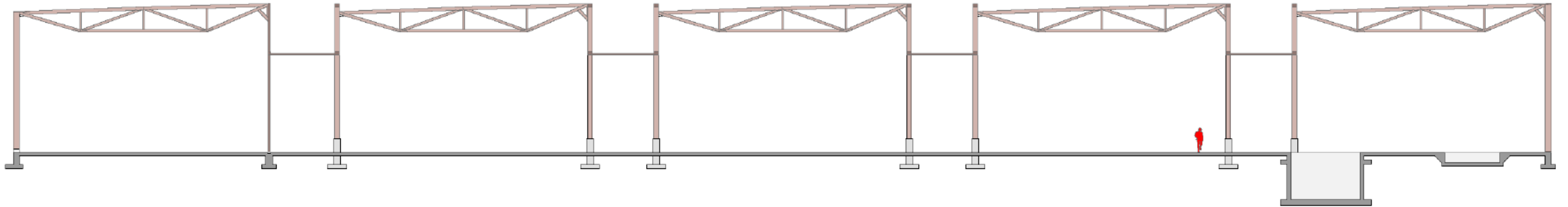




A380 - 800

Operating empty weight: 275t (-16.71t)

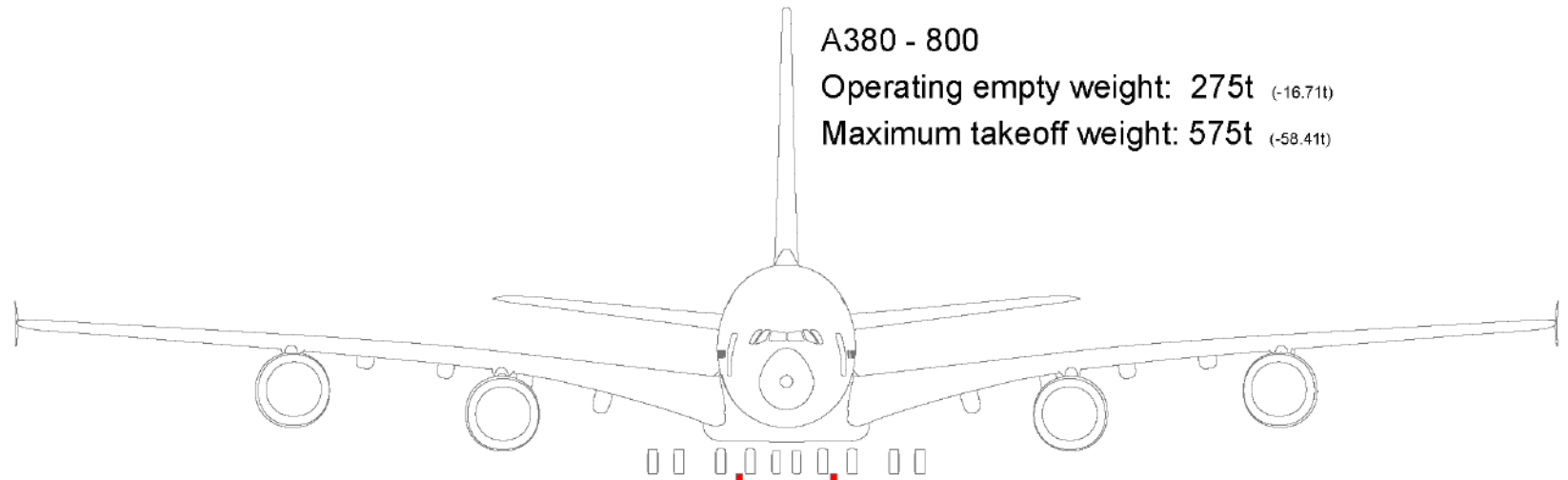




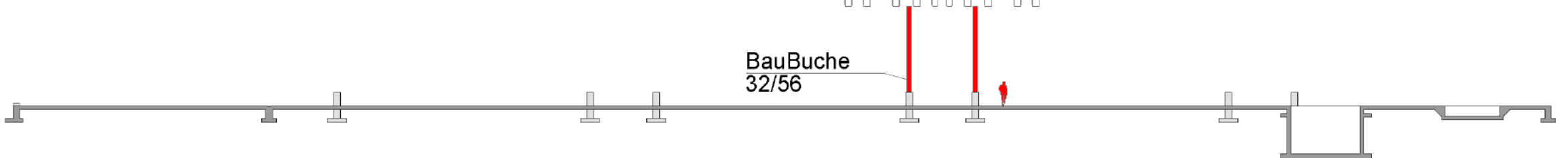
A380 - 800

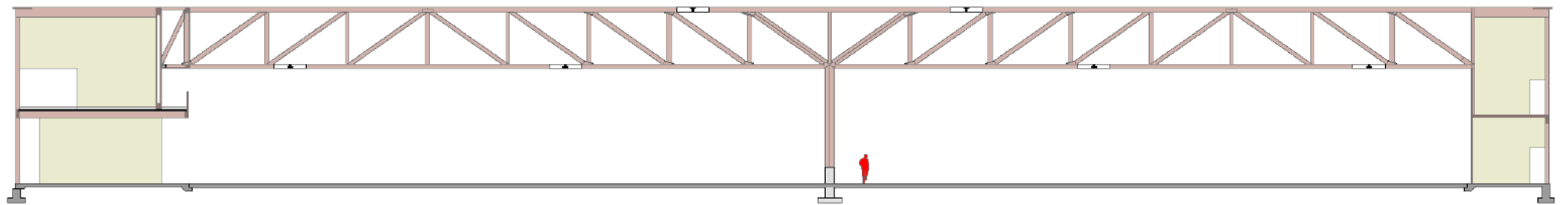
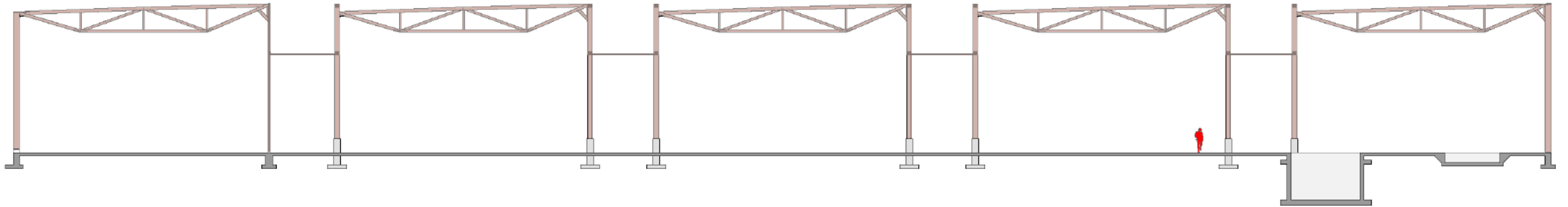
Operating empty weight: 275t (-16.71t)

Maximum takeoff weight: 575t (-58.41t)



BauBuche
32/56





PRE-PRODUCTION MAIN TRUSS





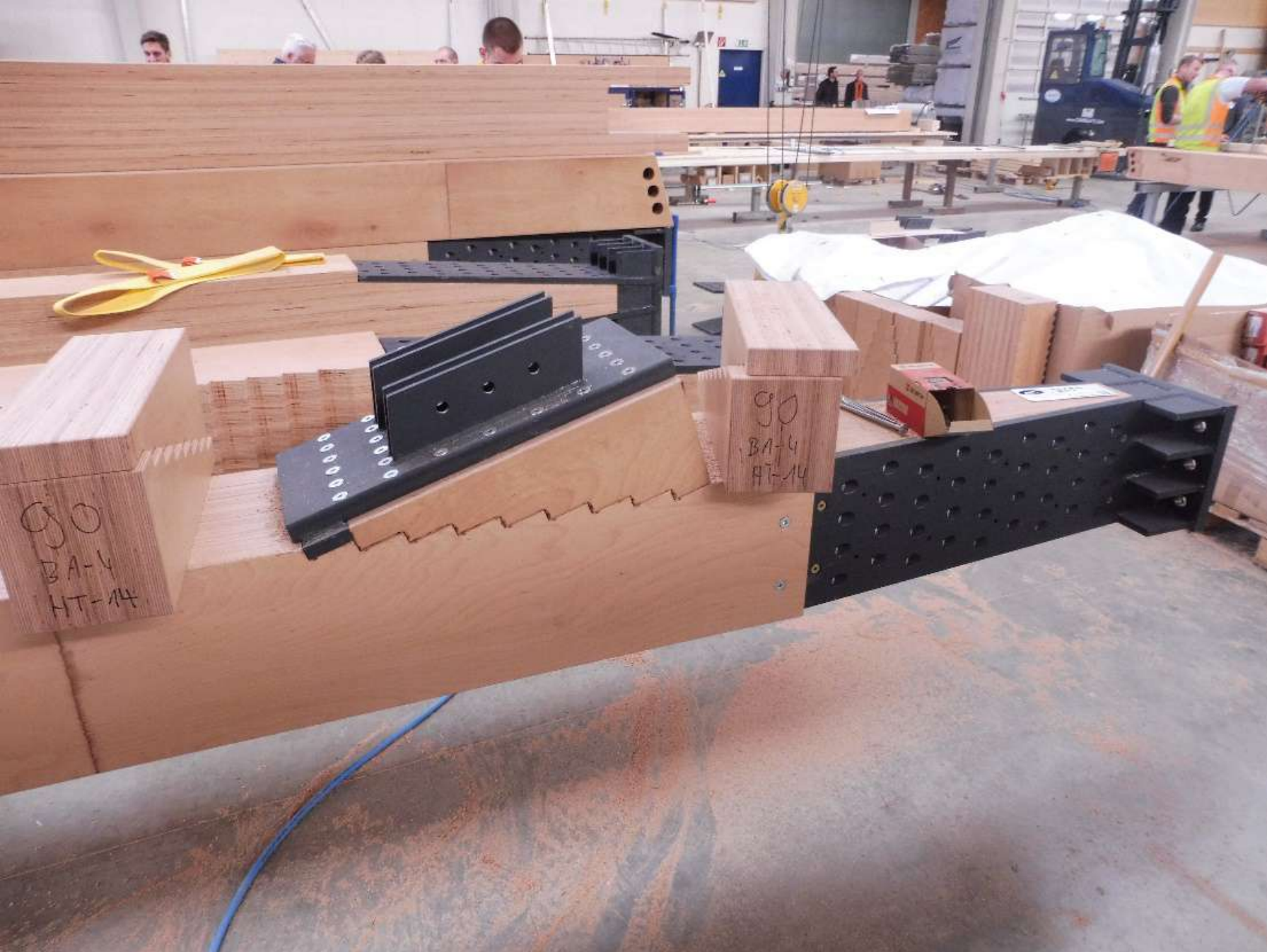


















PRE-PRODUCTION SECONDARY TRUSS











INSTALLATION

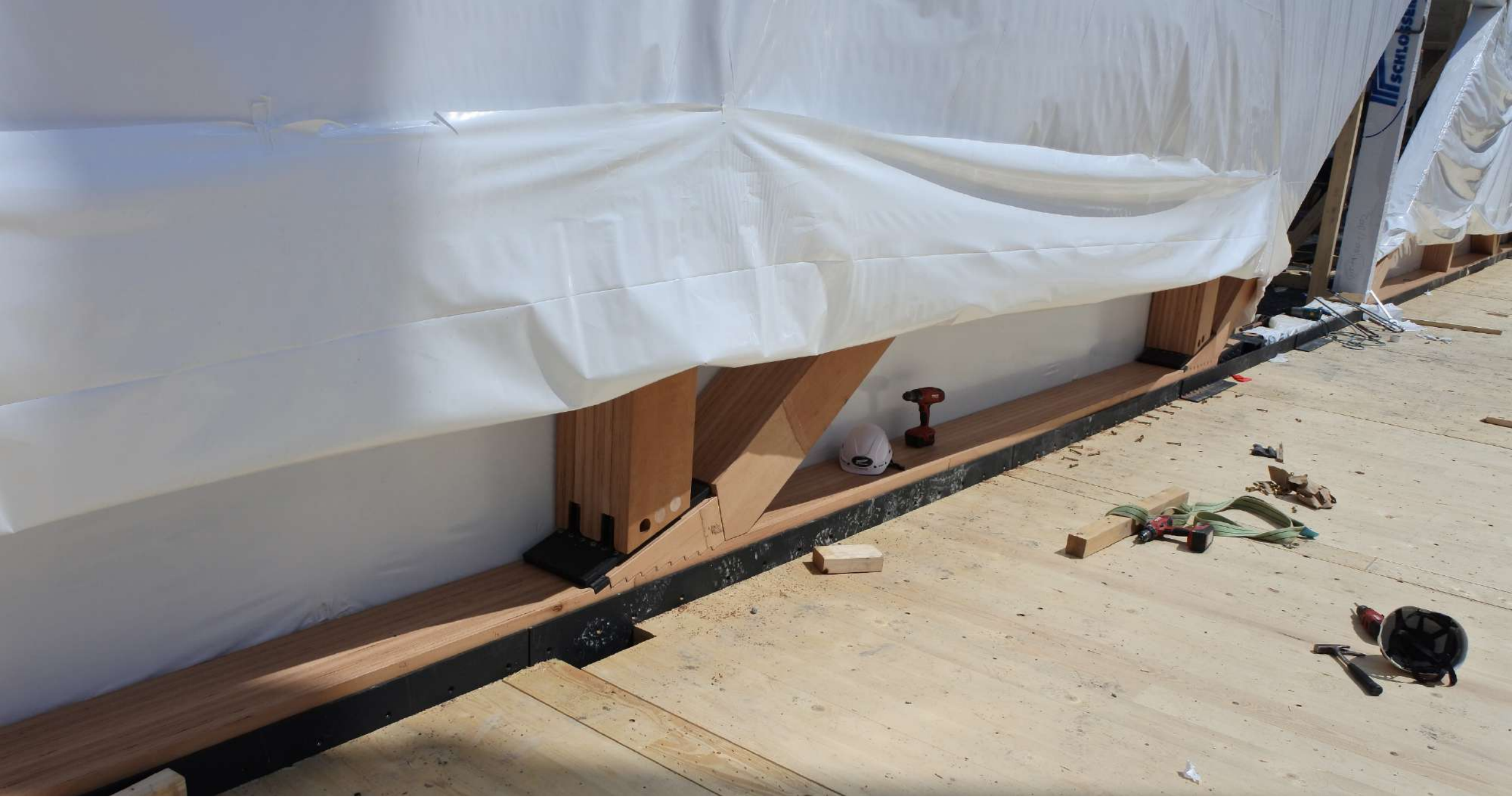


























































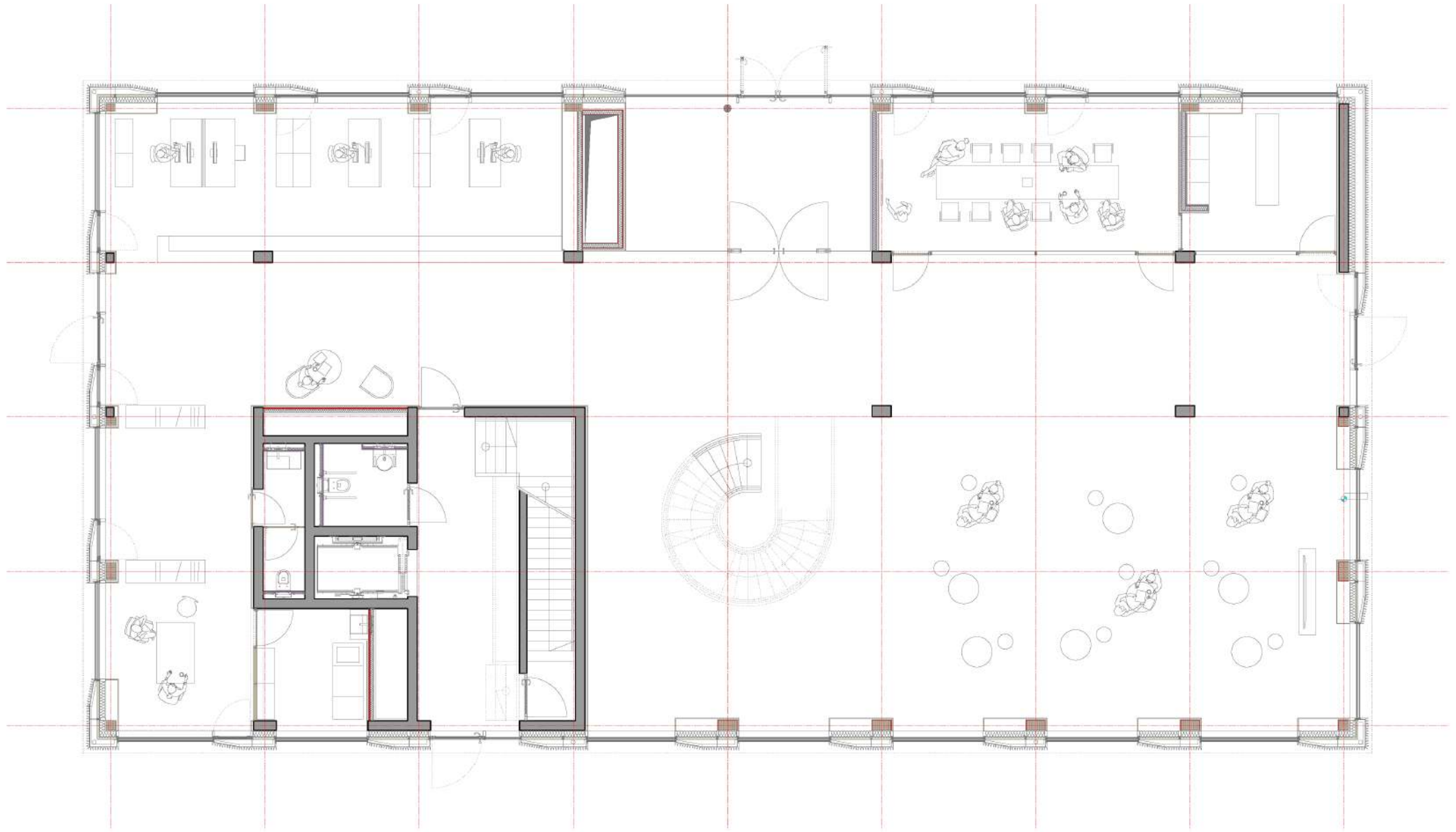


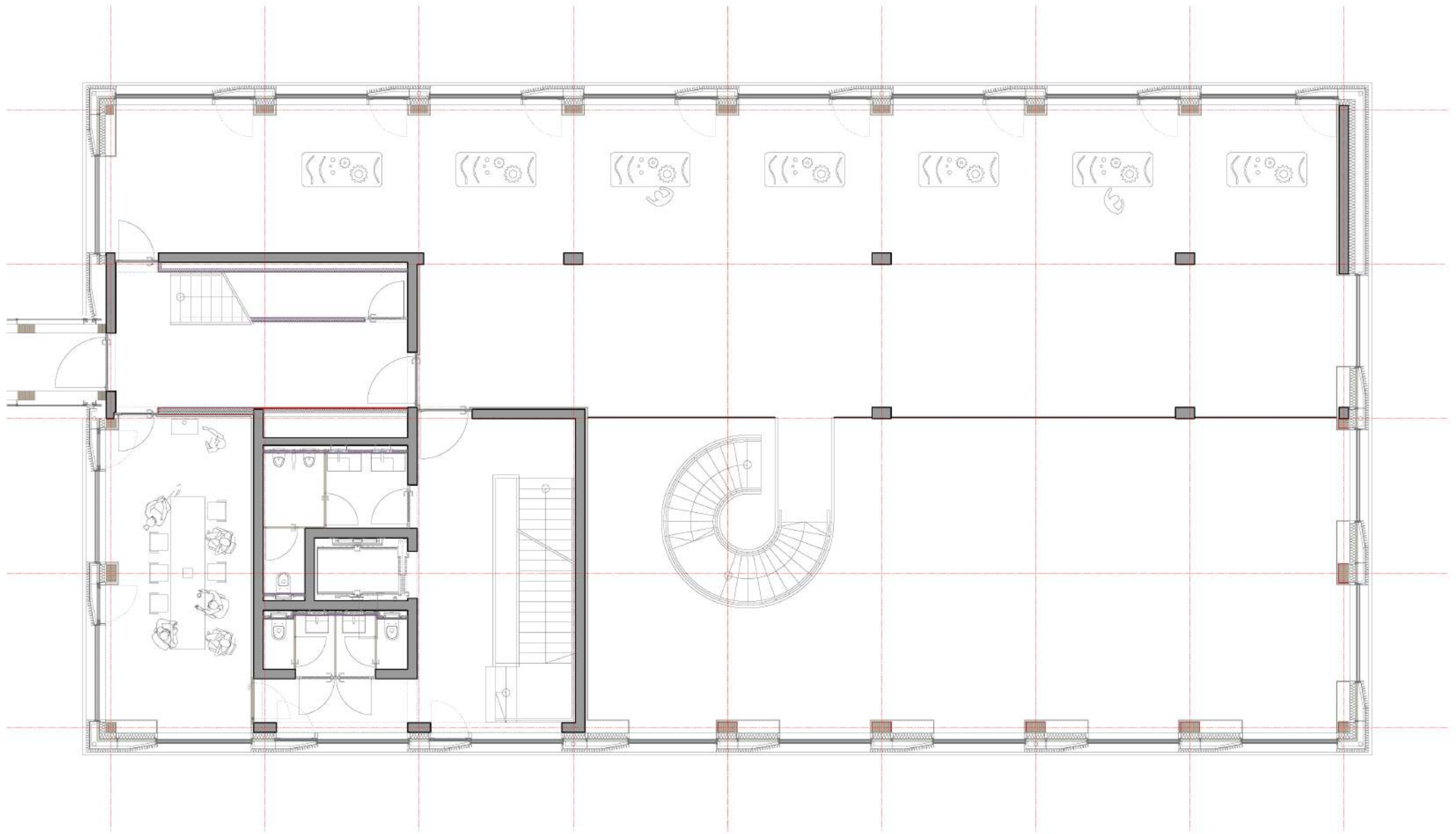
PAVILLON

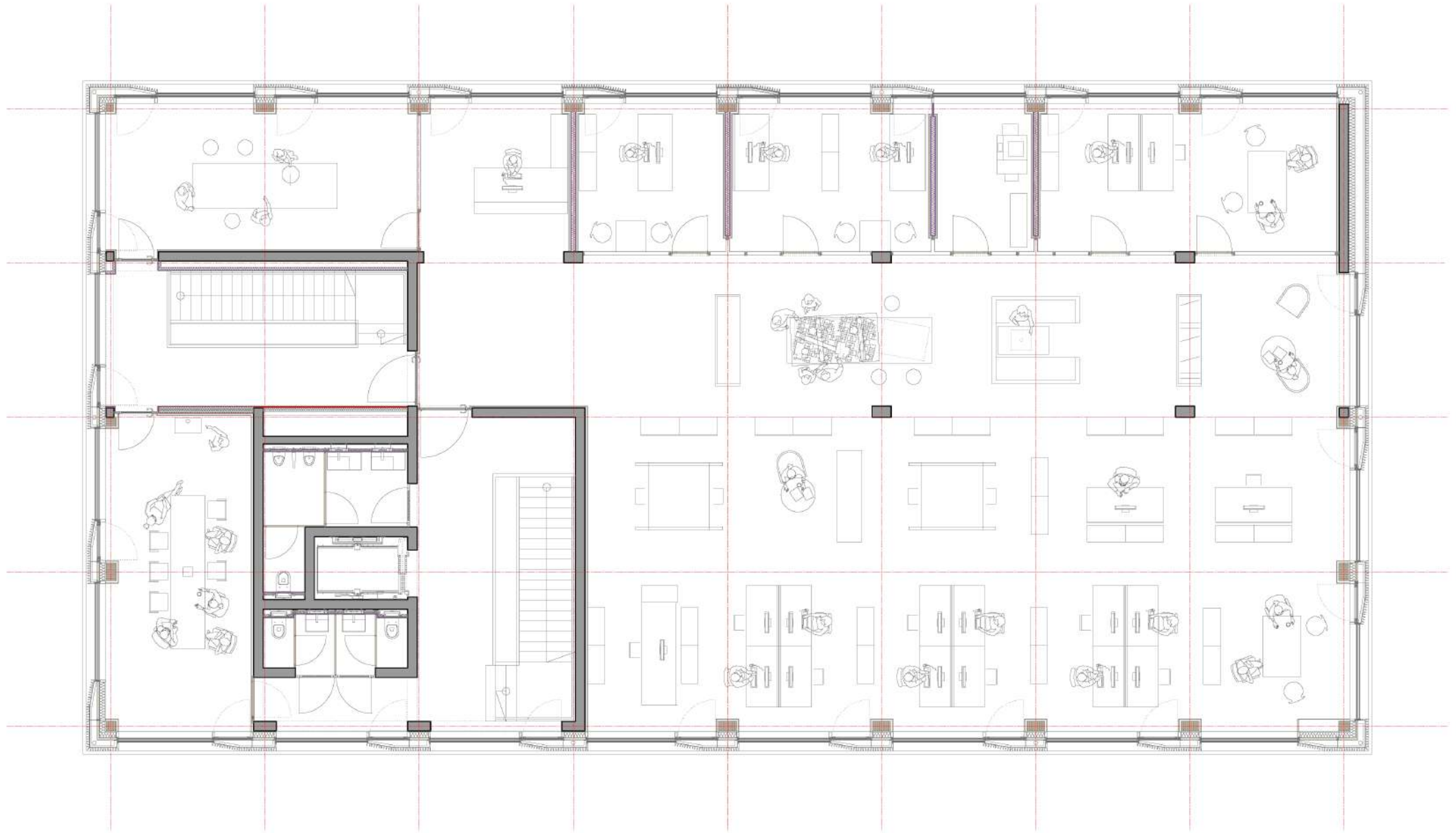
HK ARCHITEKTEN

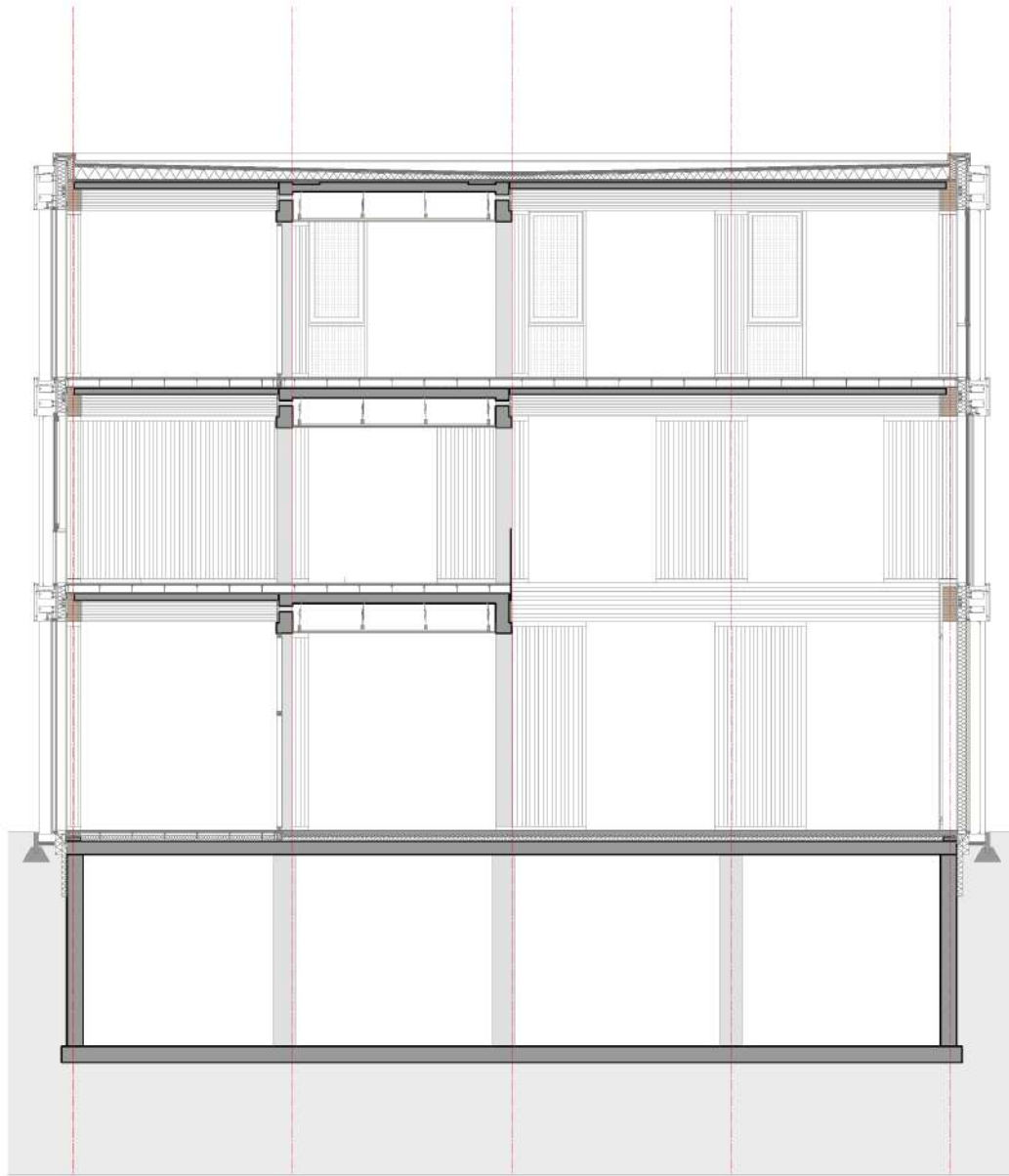
Hermann Kaufmann + Partner ZT GmbH



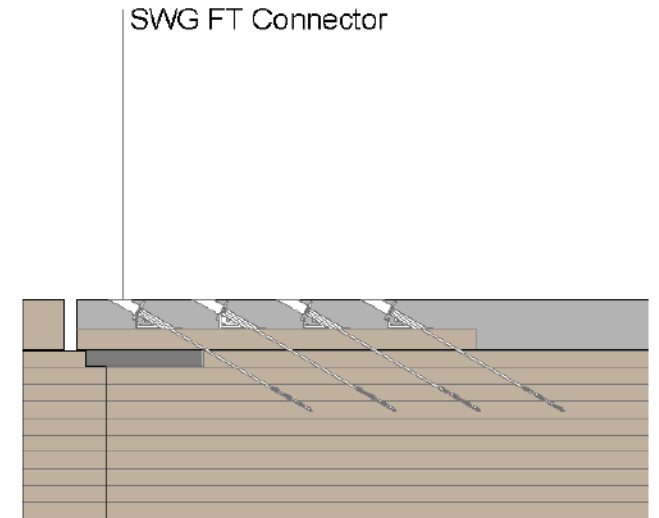
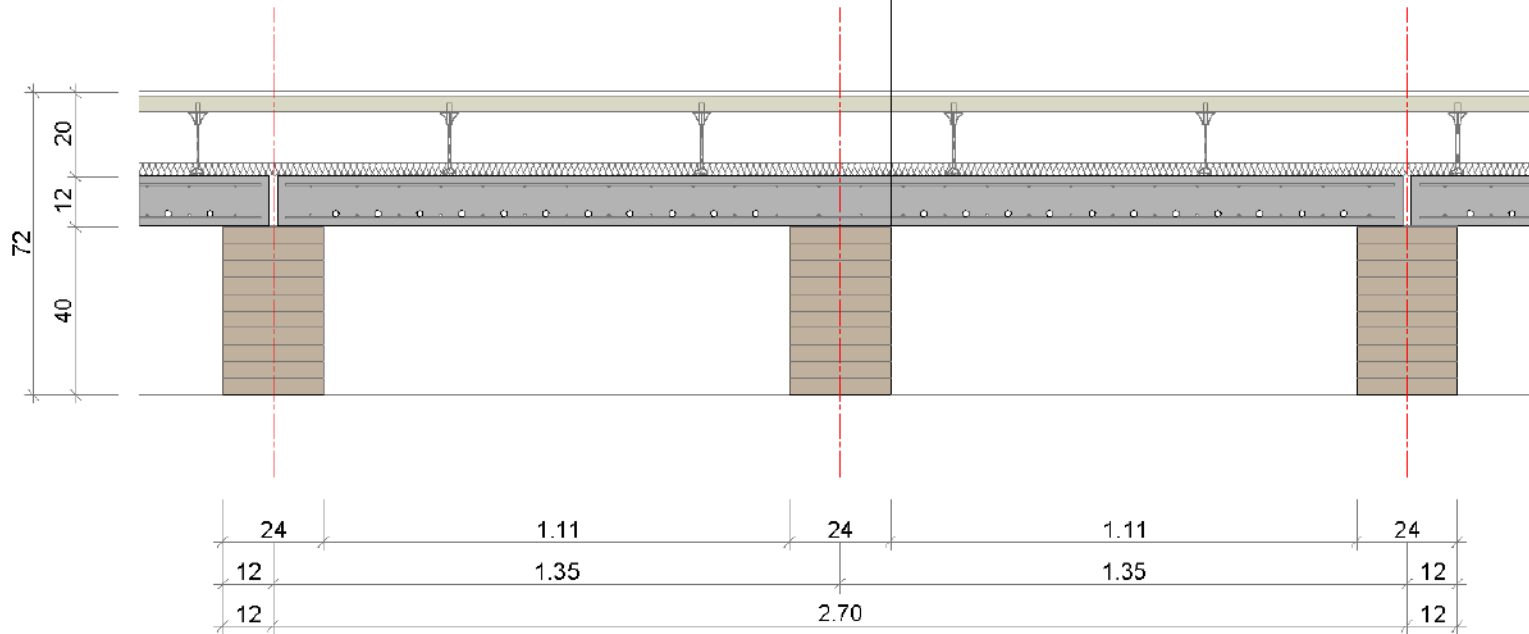


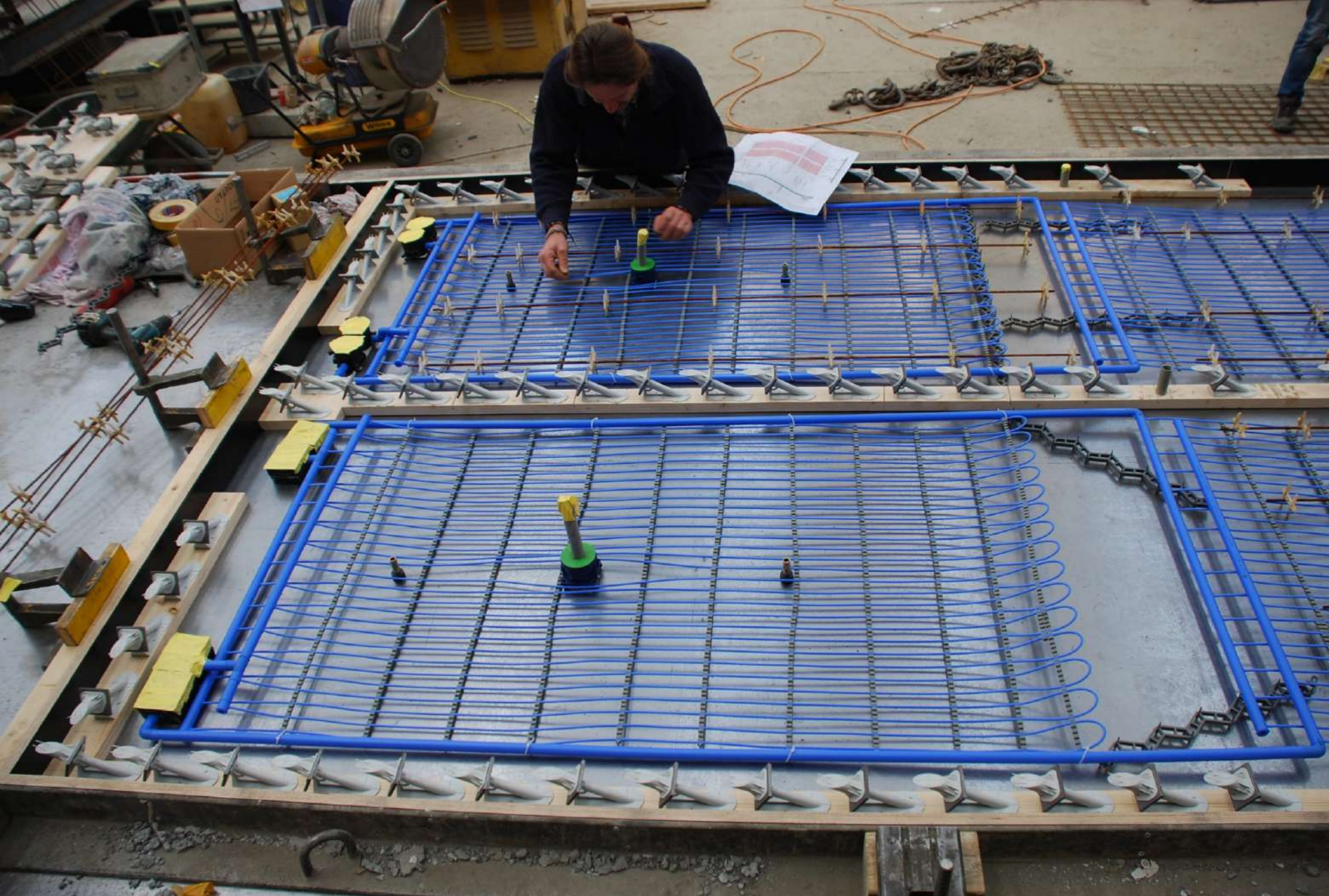






10 MM TEPPICH
 38 MM HOHLRAUMBODEN
 122 MM INSTALLATIONSEBENE
 30 MM MINERALFASER
 120 MM BETON FERTIGTEIL
 B = 270 CM / SPANNWEITE = 790 CM
 400 MM BSH FICHTE



















NEBELHORN

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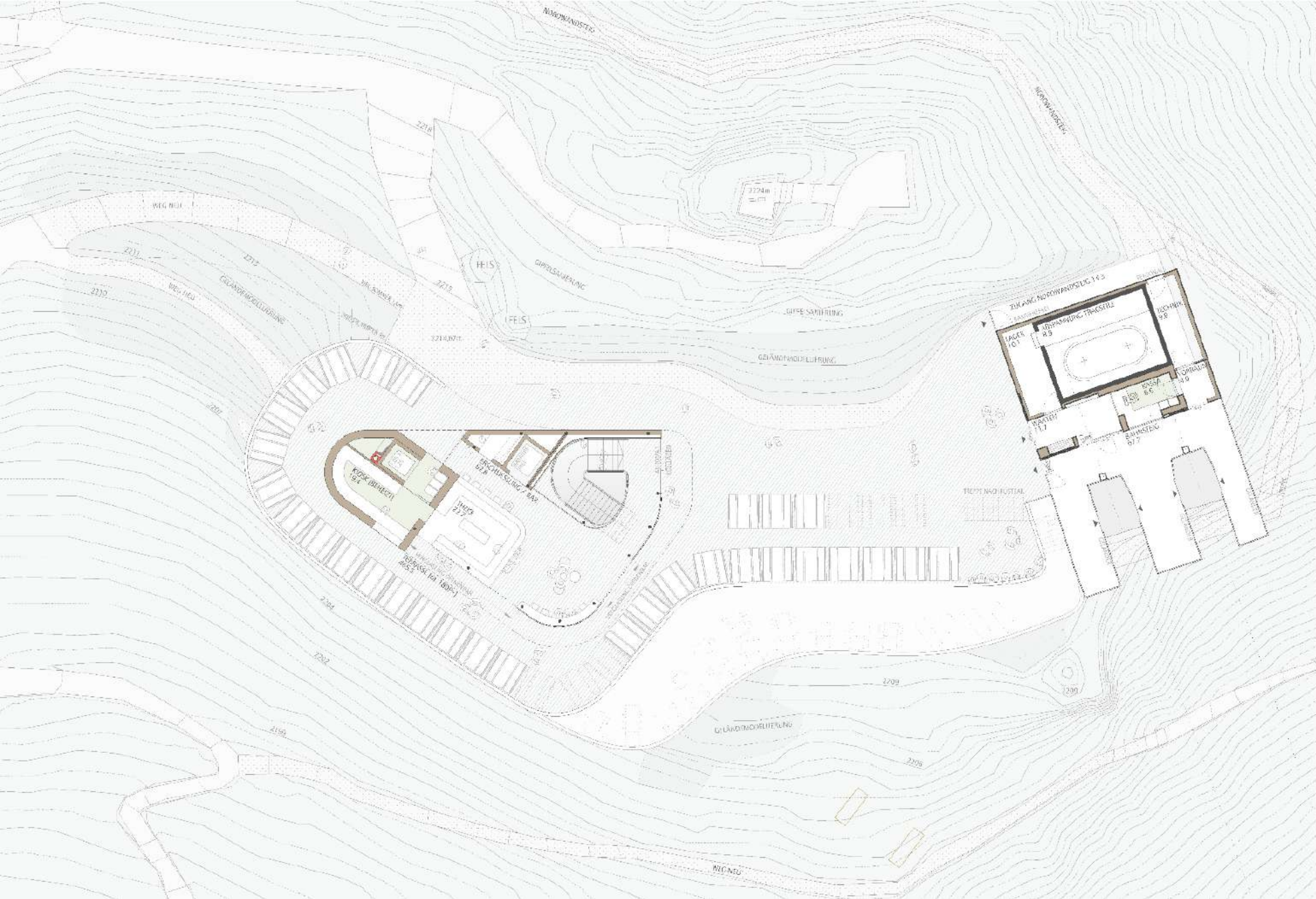


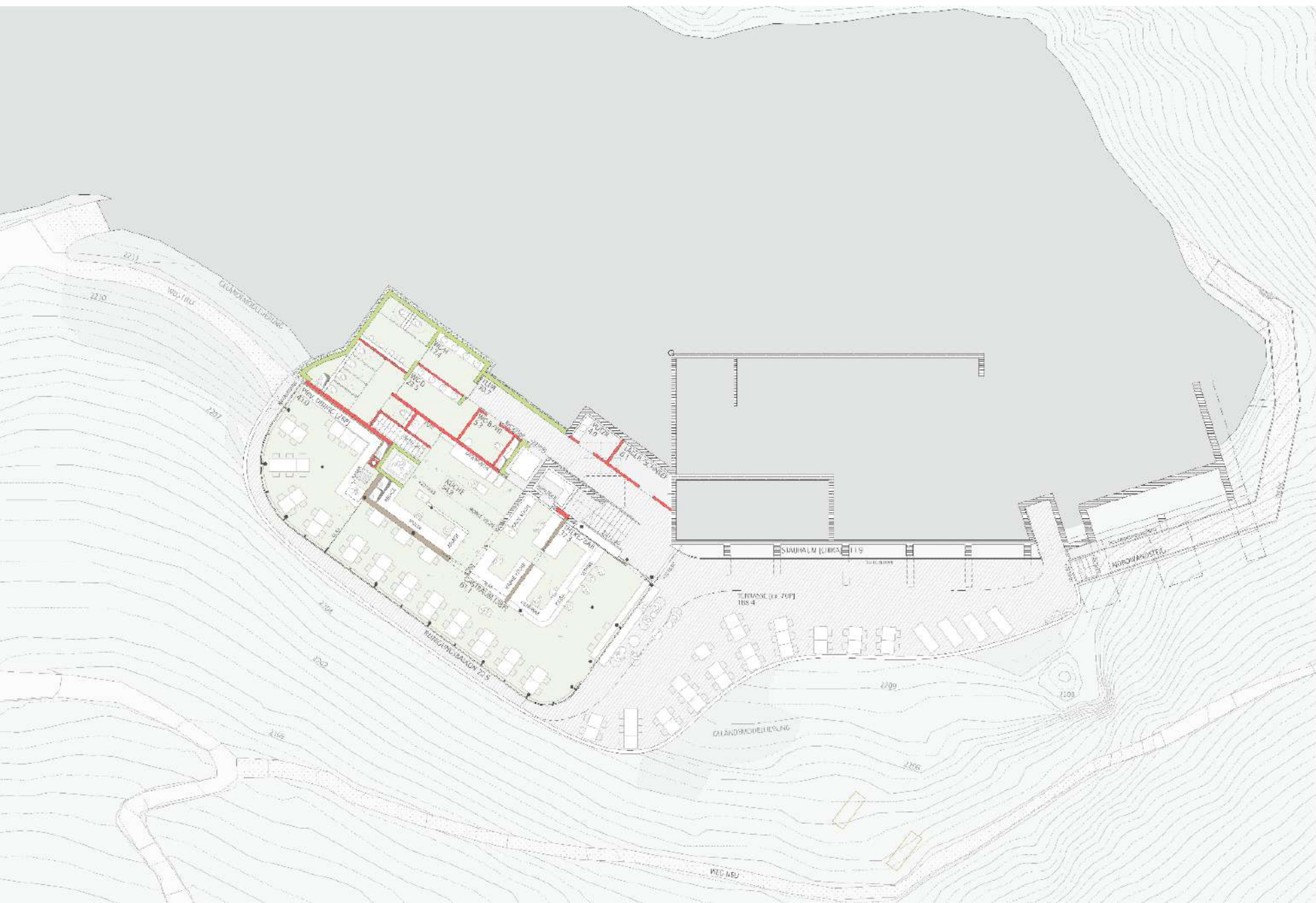


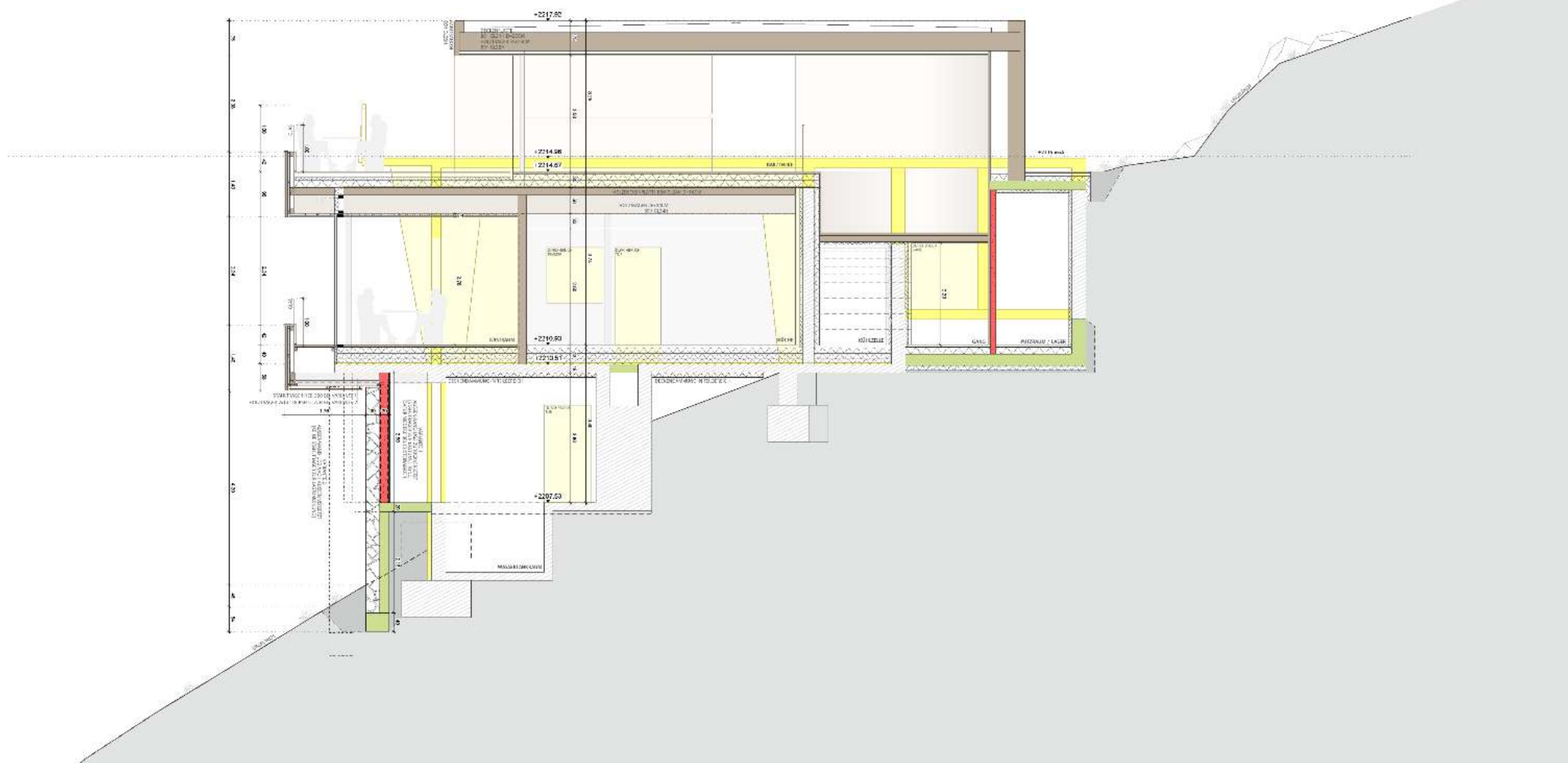




































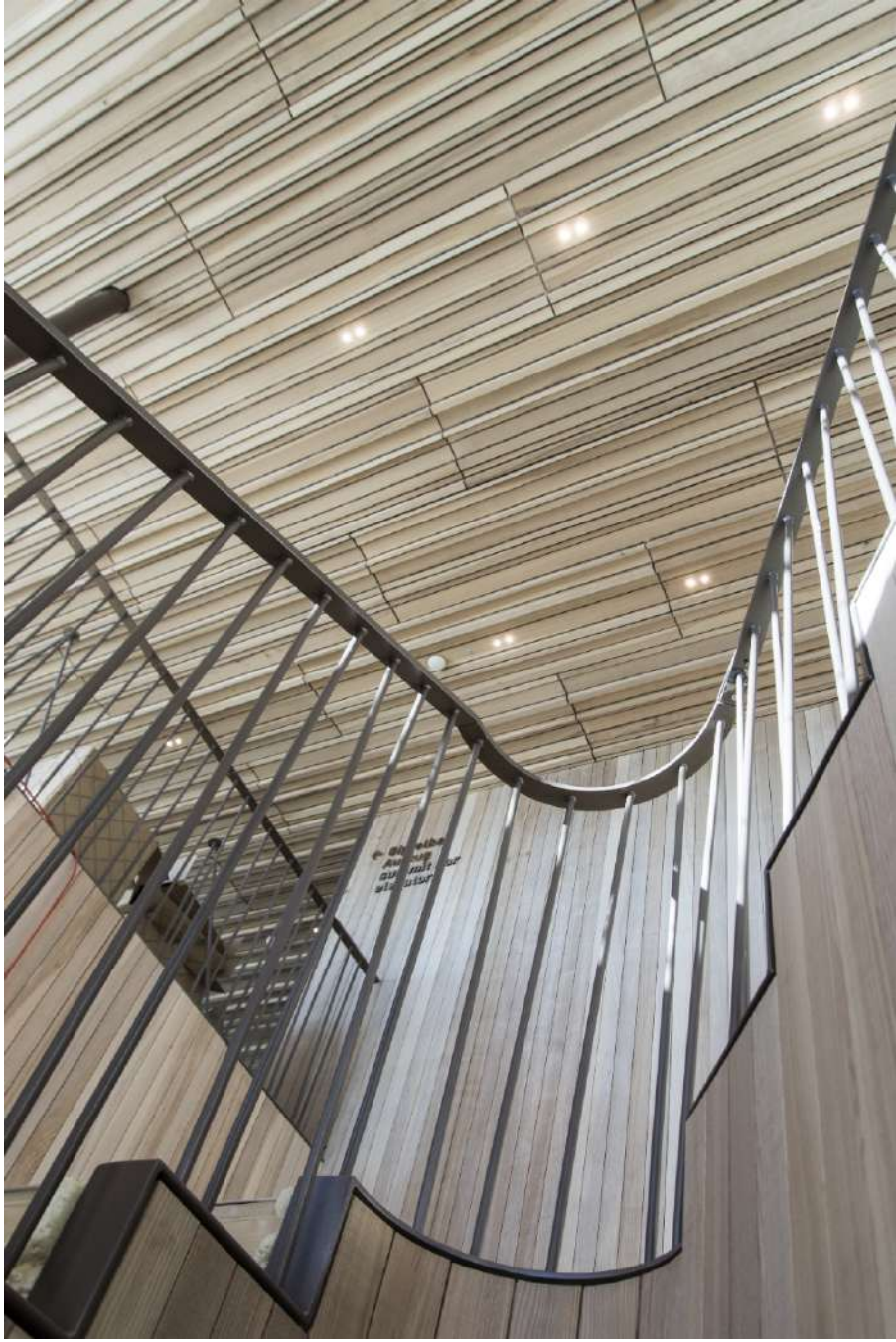




















Thank you for your Attention

