

BAUEN MIT HOLZ

Umwelteinflüsse der Bauwirtschaft in Deutschland

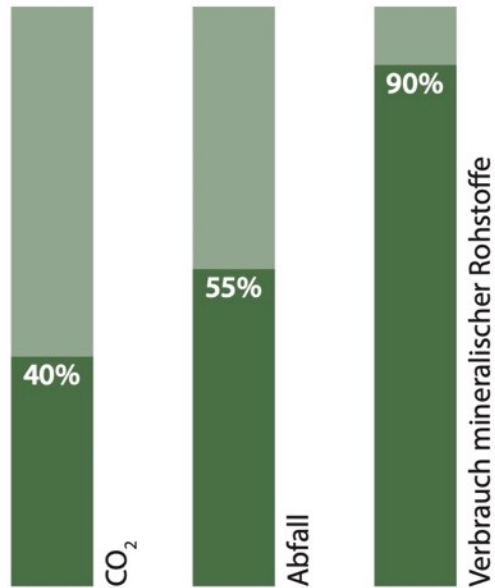
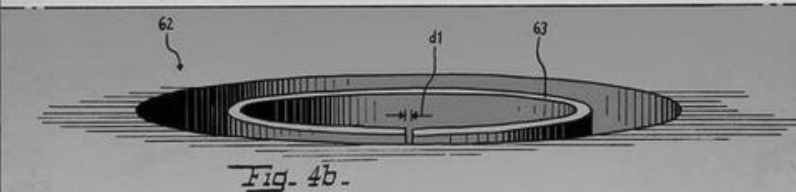
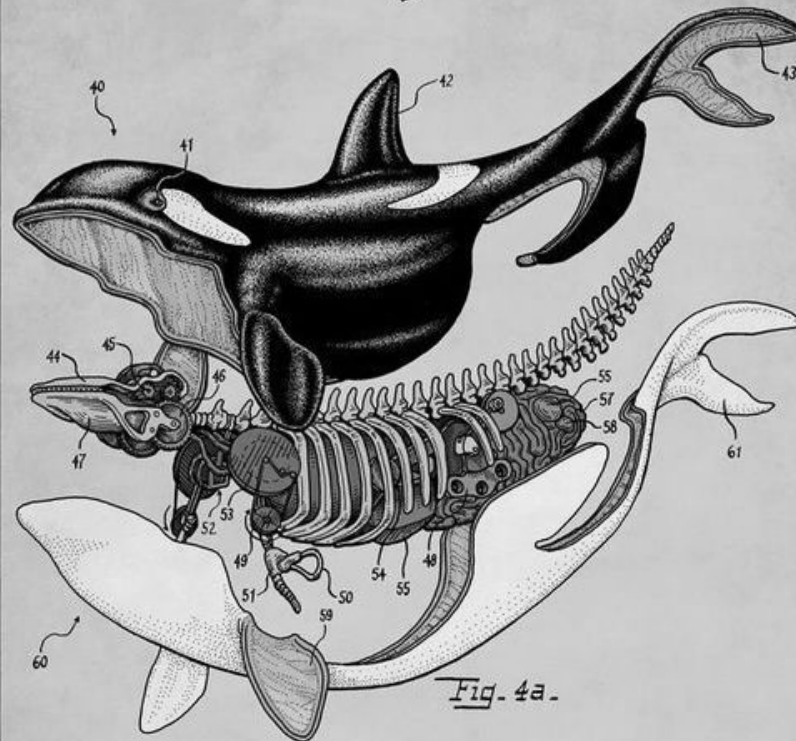


Abb. 2: Umwelteinflüsse
Quellen: In Anlehnung an:

CO₂: Umweltfußabdruck von Gebäuden in Deutschland, BBSR-Online-Publikation Nr. 17/2020

Abfallaufkommen: Statistisches Bundesamt, Abfallbilanz, Wiesbaden 2019

Mineralischer Rohstoffverbrauch: F. Pilchmeier, Ressourceneffizienz im Bauwesen – Von der Planung bis zum Bauwerk, VDI Zentrum ressourceneffizienz GmbH, 2019



Witnesses
Nathan R. Veland

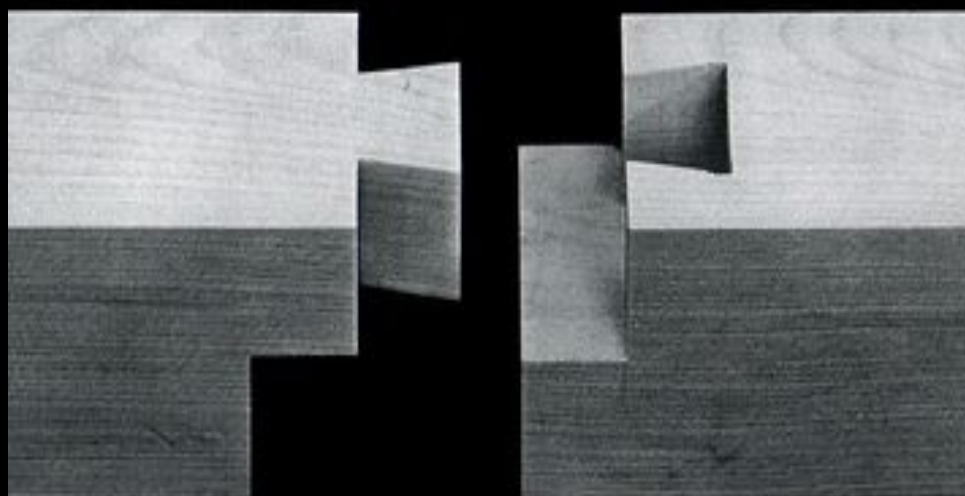
Inventor
Nathan R. Veland

9,980,101 ORCHANICAL APPARITION Nathan R. Veland,
Eugene, Or. Filed Mar. 14, 2014









I WANT IT ALL

AND I WANT IT NOW

quickmeme.com



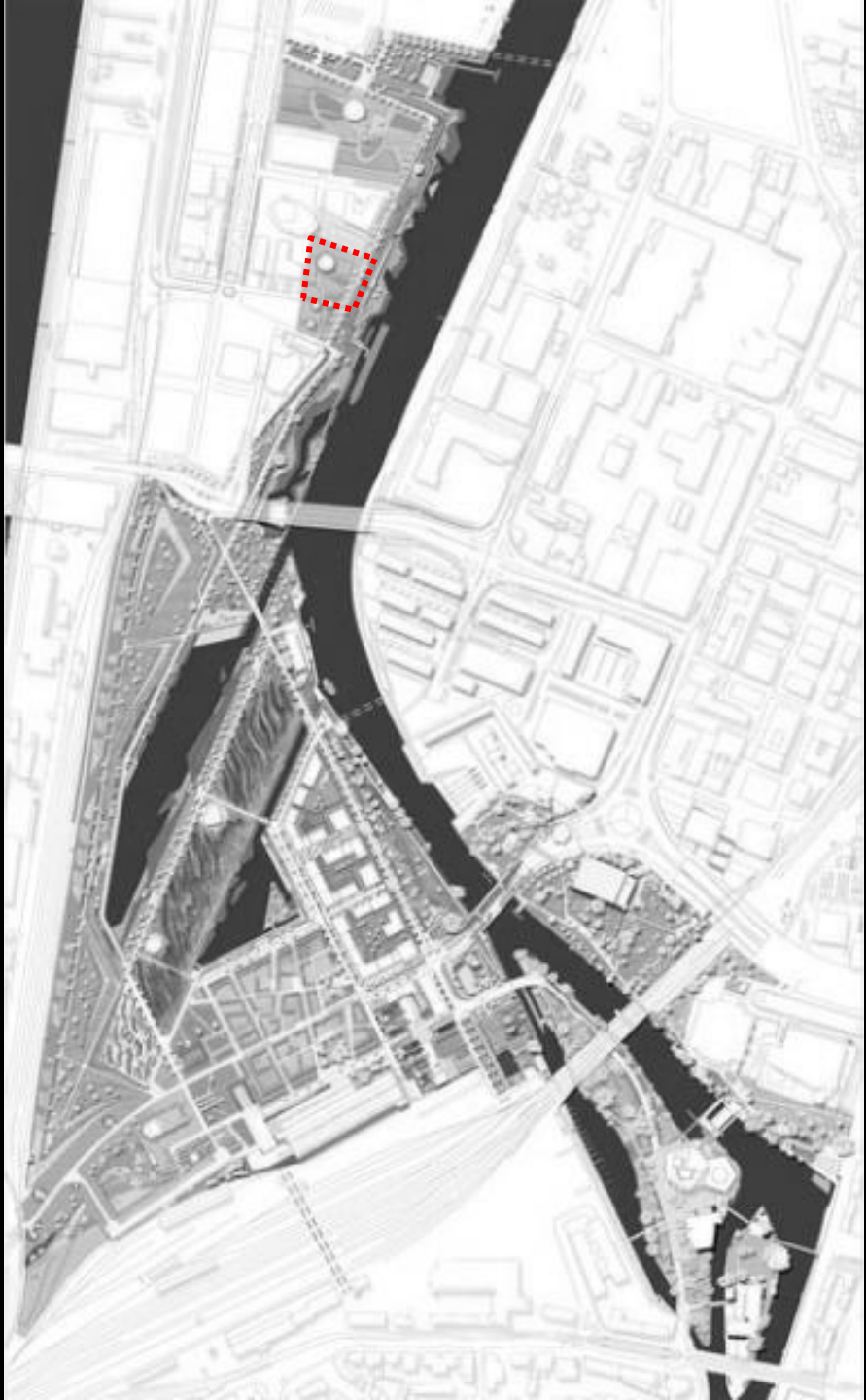
BAUEN MIT HOLZ
STRUKTUR UND RAUM

No. 01

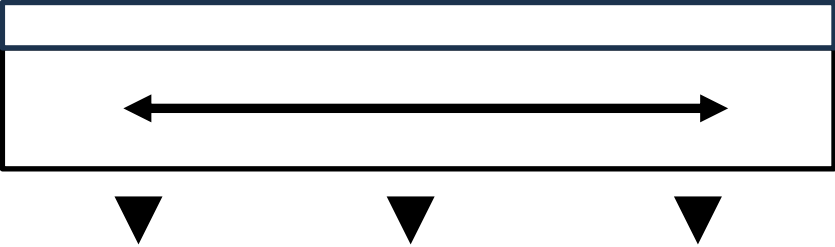




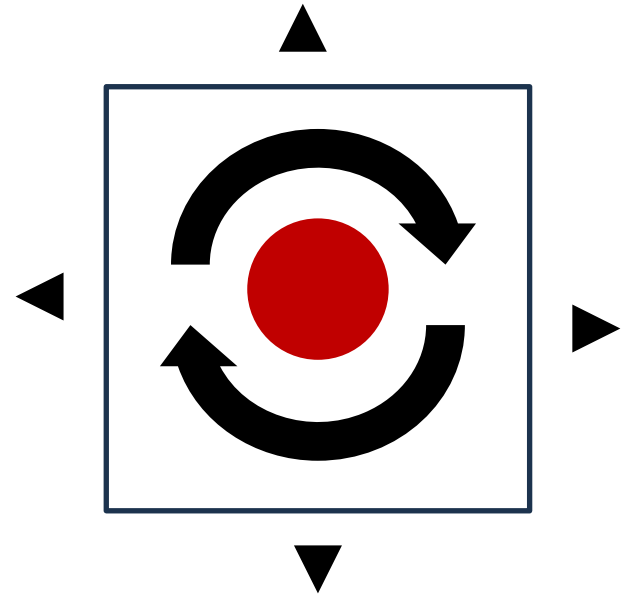


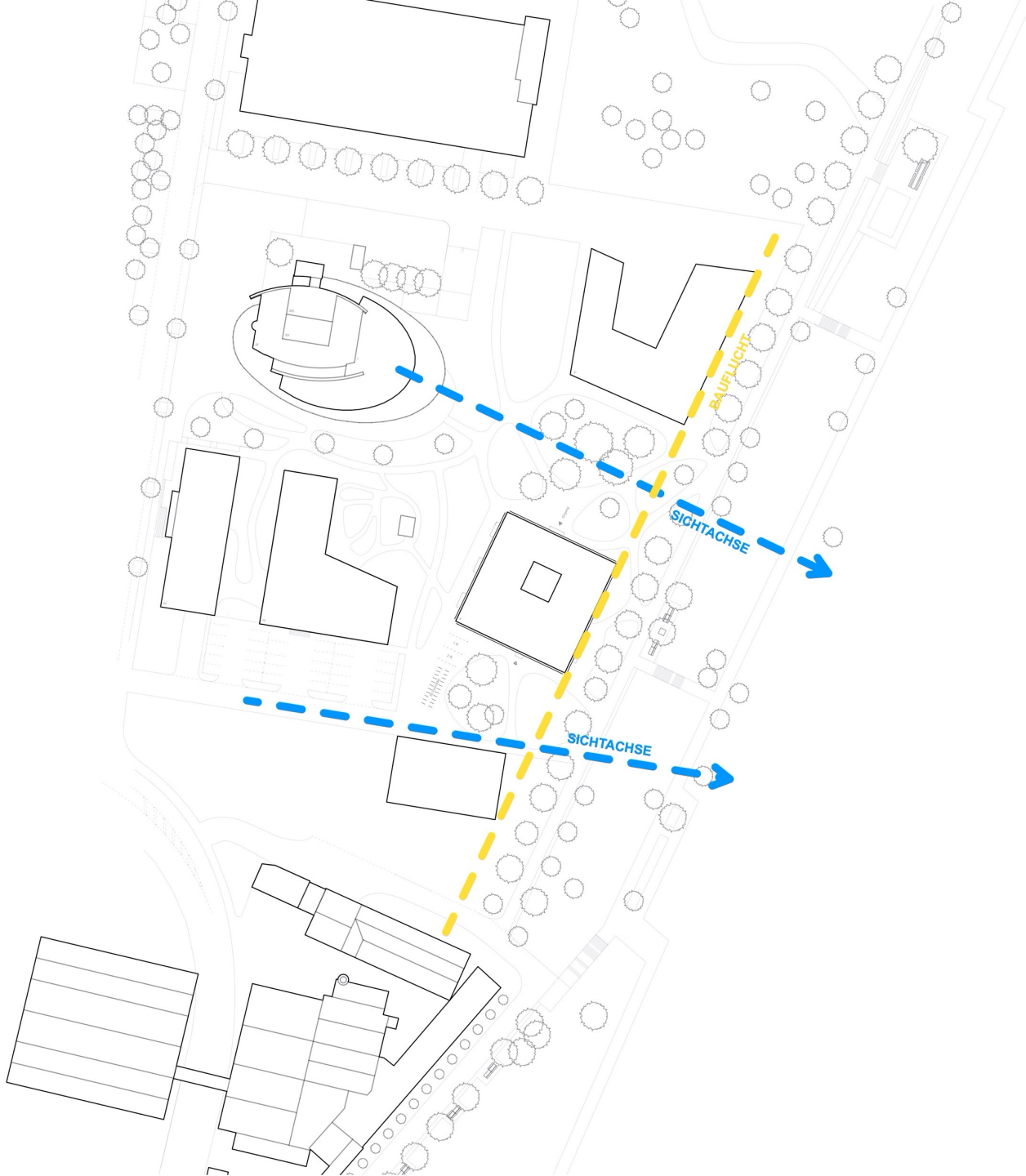


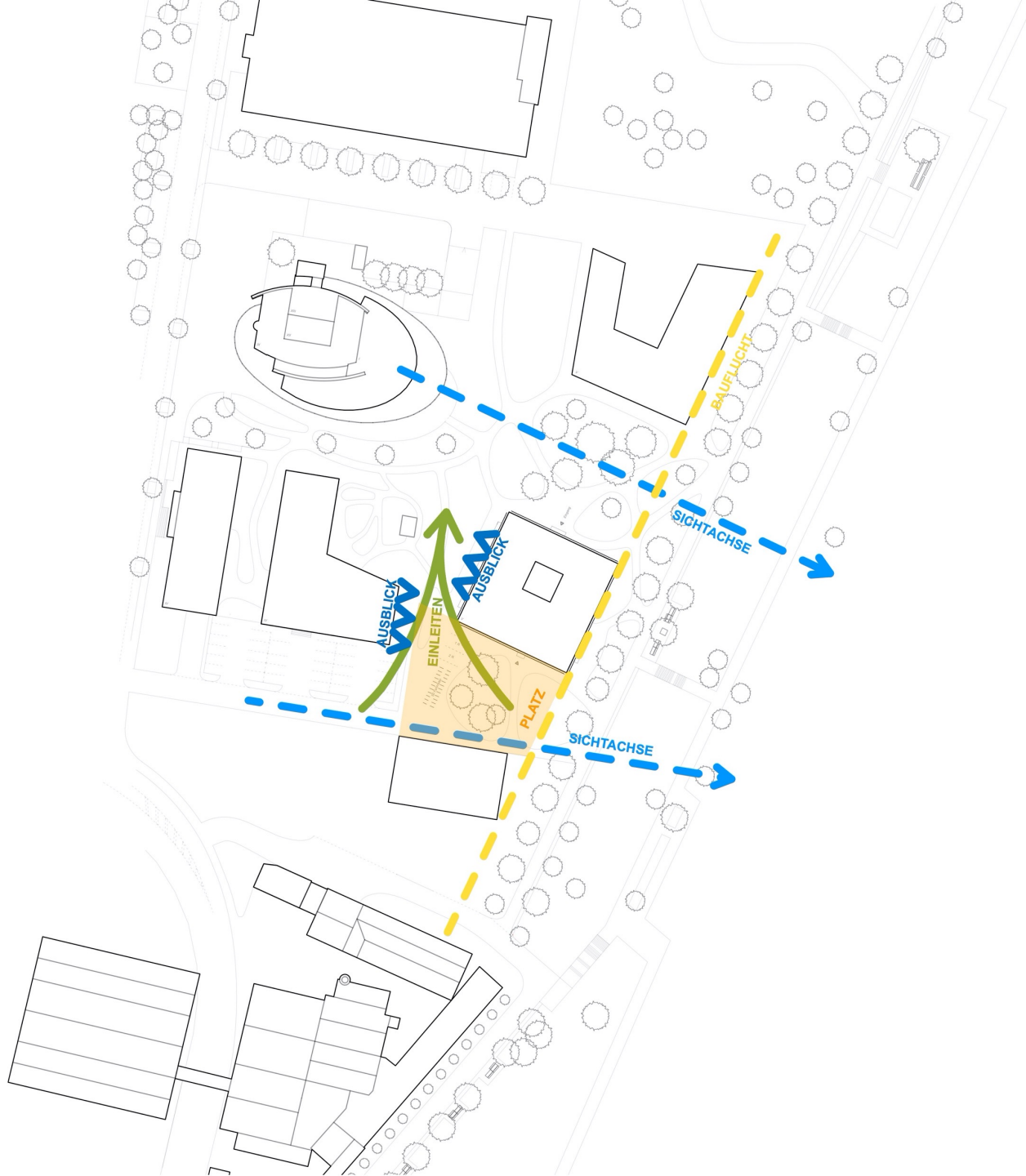












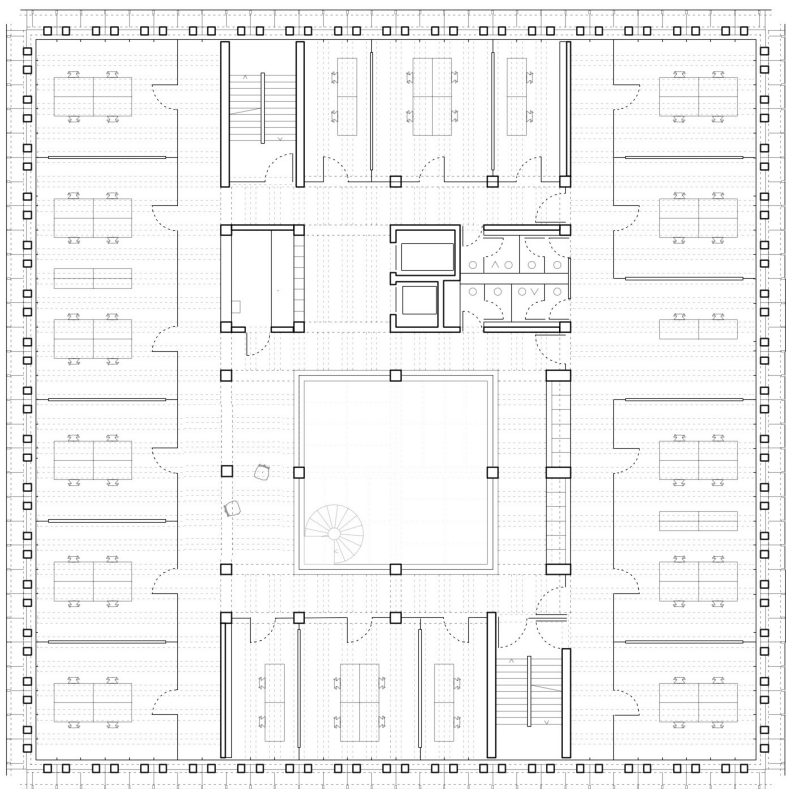














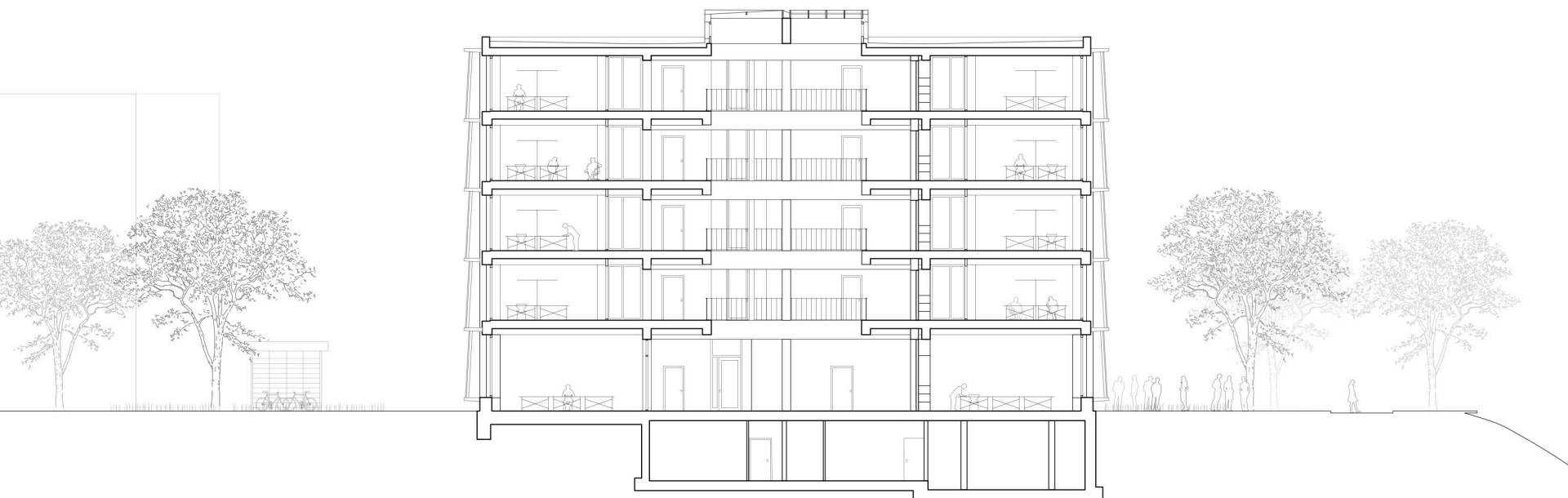




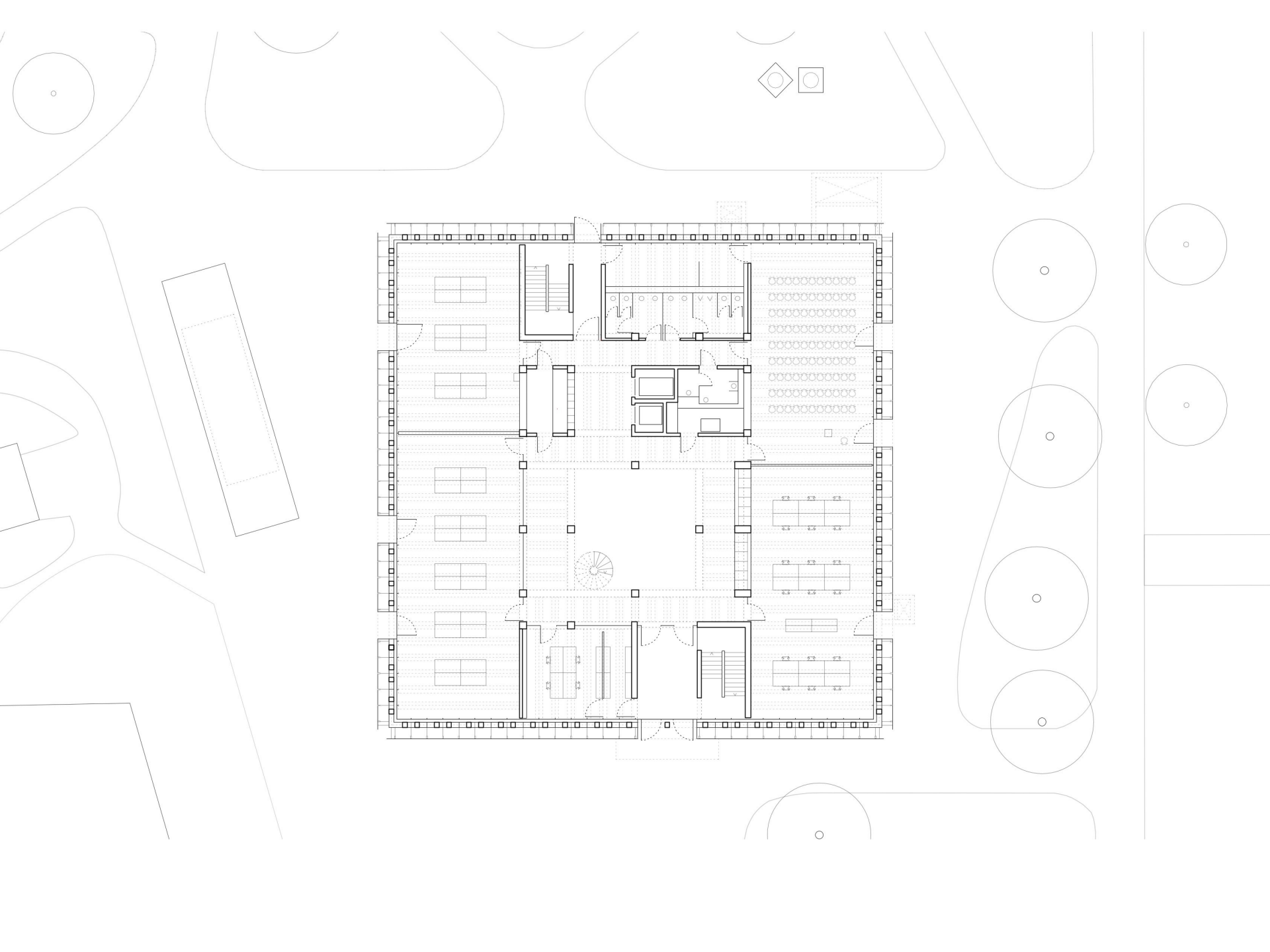






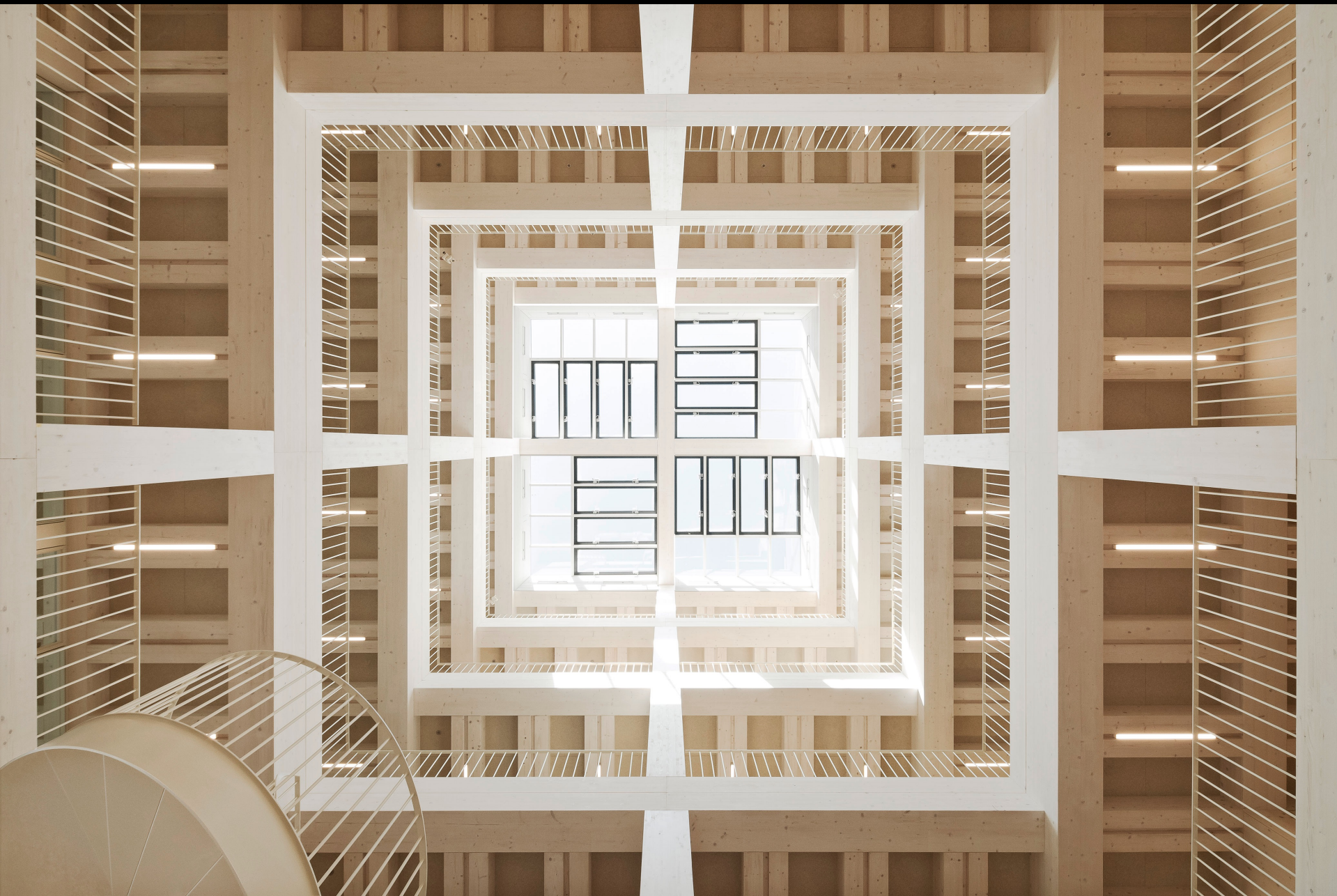






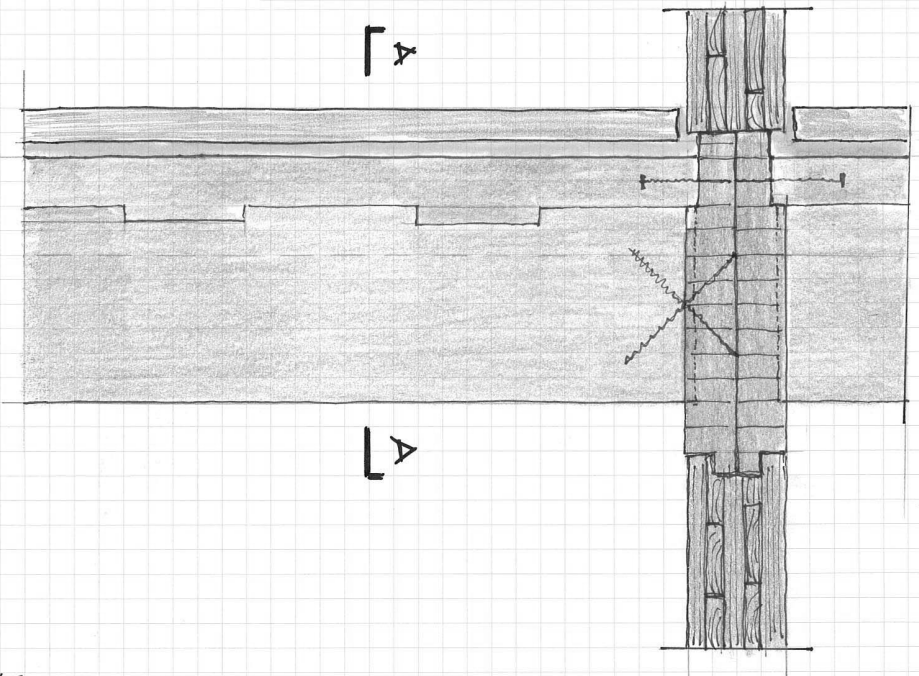
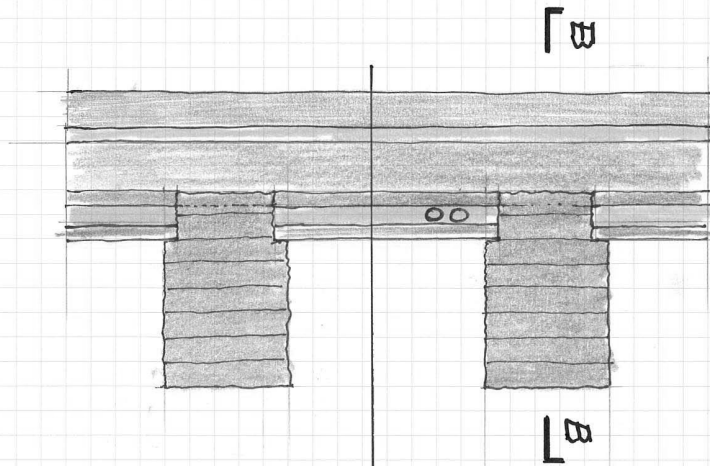






A - A

B - B

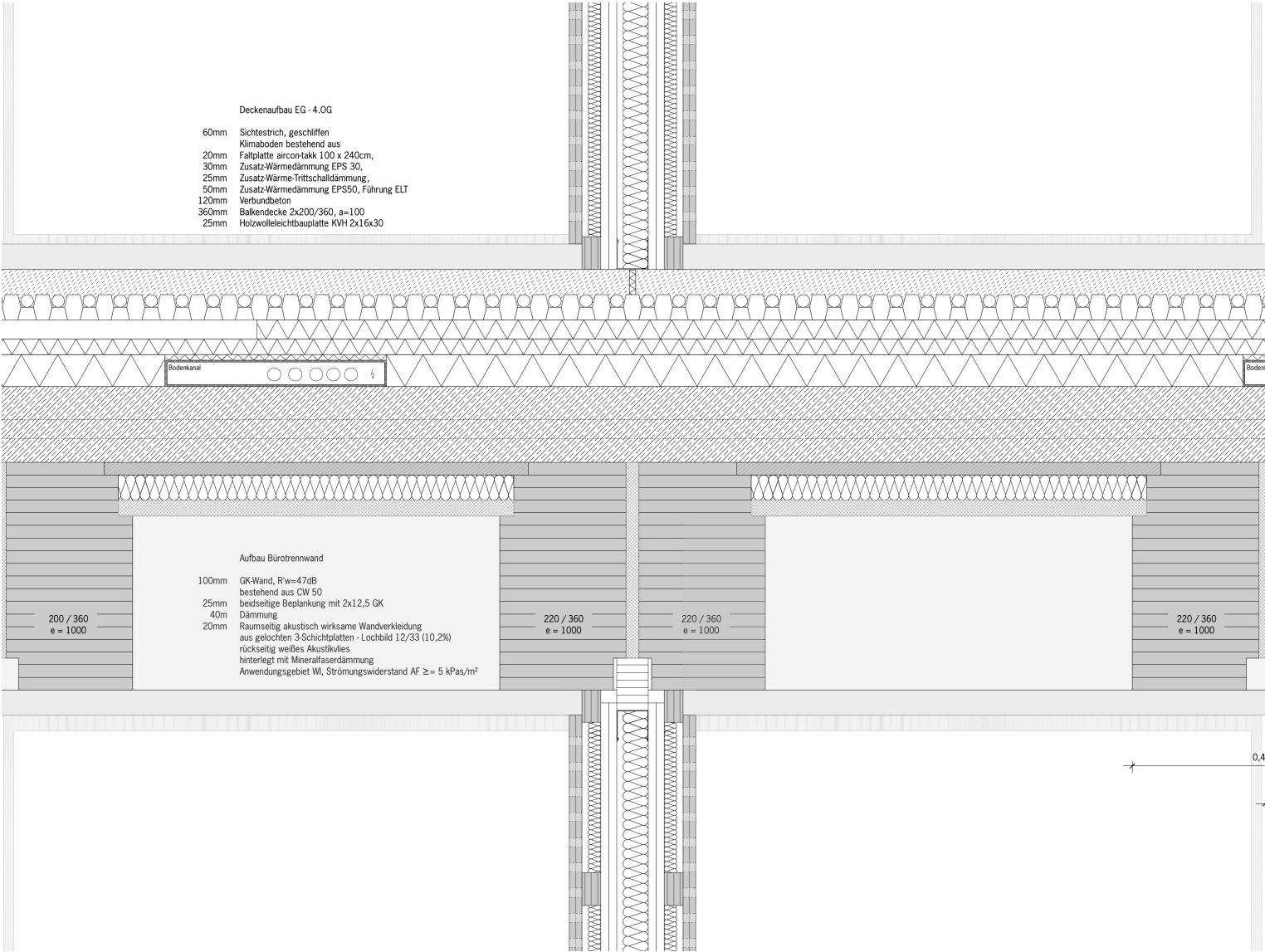


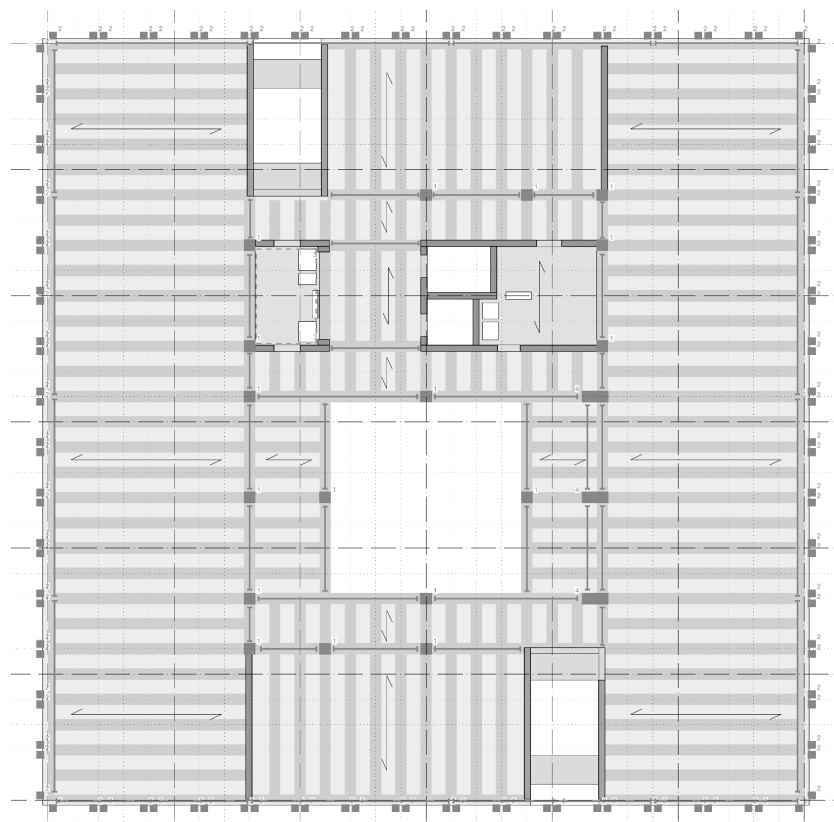
TERRAZZO
 TRITTSCHALDÄMMUNG
 BETON
 VERLORENE SCHALUNG
 RAUMAKUSTIK
 BALKEN



Prinzip Geschossdecke

DETAIL ANSCHLUSS BÜROTRENNWAND I DECKE





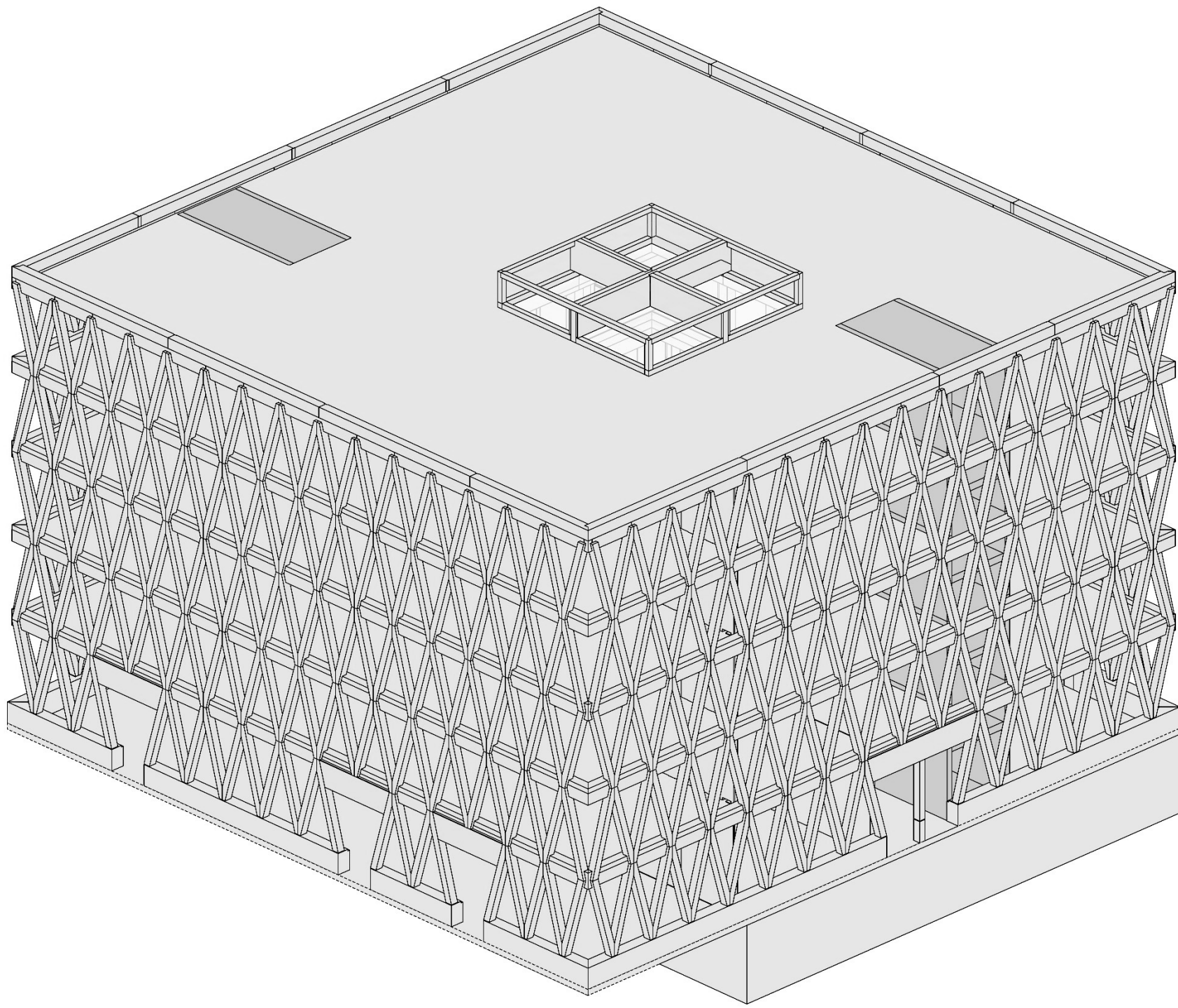


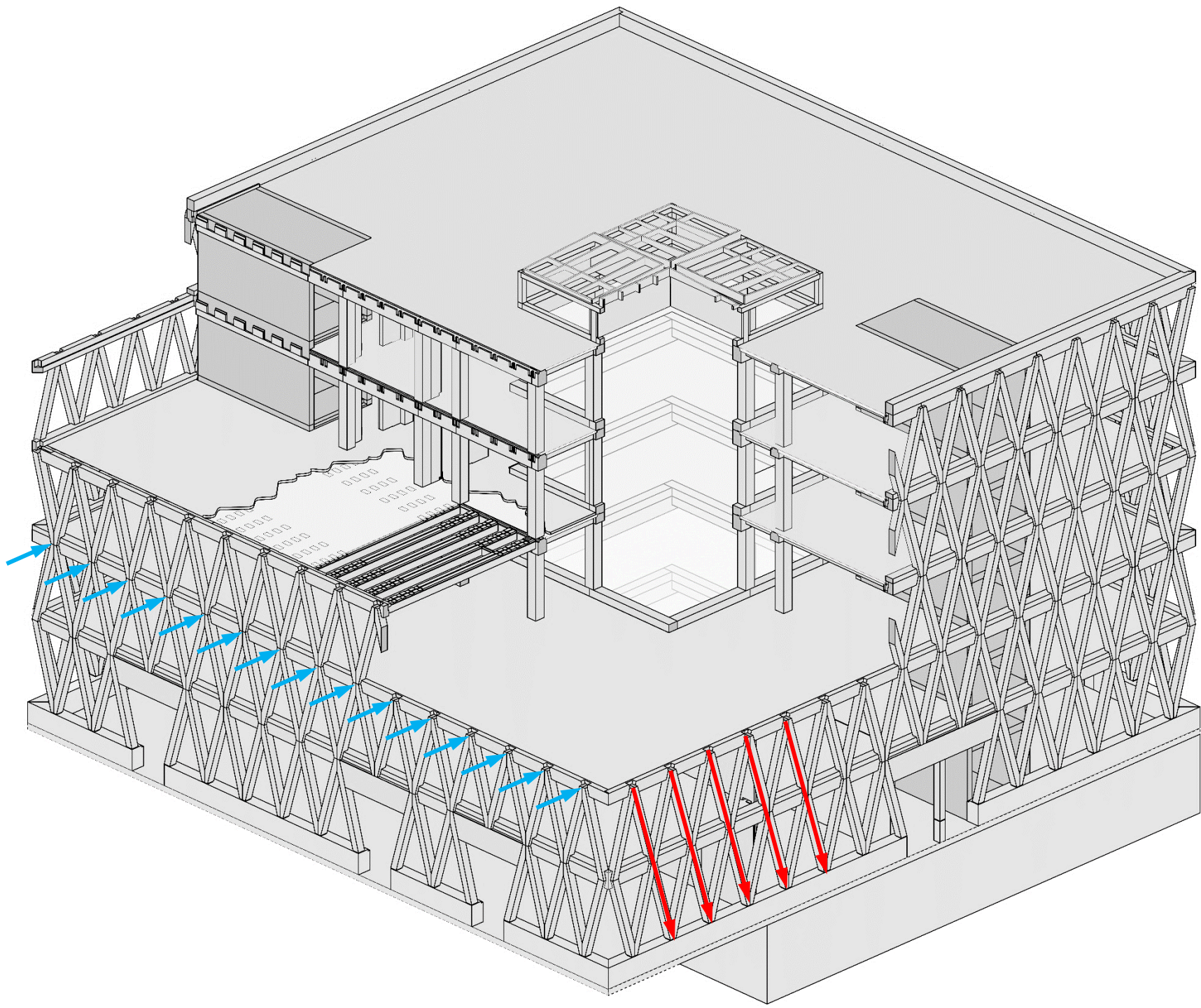


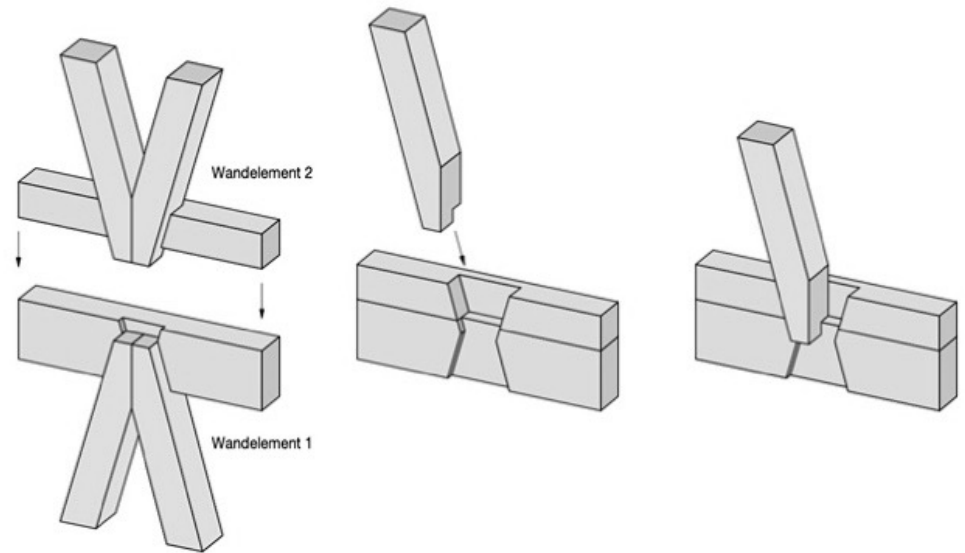
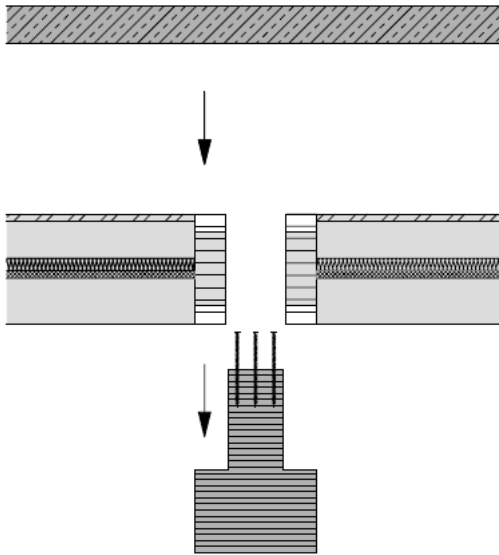


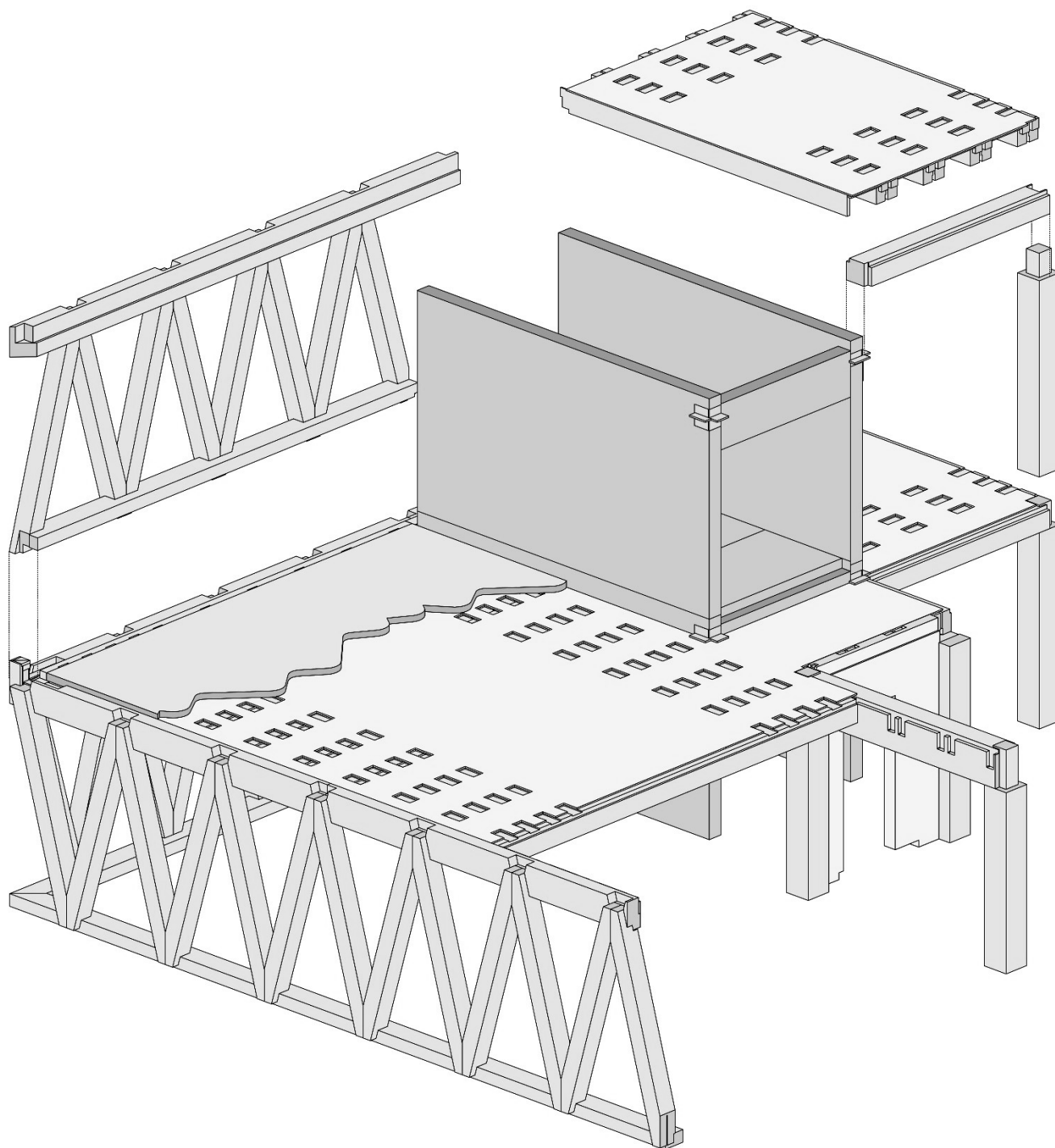














ELABORATO DALL'INGEGNERO
73U003

CONEL

PLASSON

CONEL

X
110116





DE.OEG-01

DE.OEG-02

DE.OEG-03

DE.OEG-04

Palette-8

Palette-9

Palette-10

Palette-11











Implenia

Blumer
Lehmann
Bauteile & Baugestaltung

SCHNABL
Bauteile & Baugestaltung

WIRTSCHAFTS UNIVERSITÄT ZÜRICH

Implenia

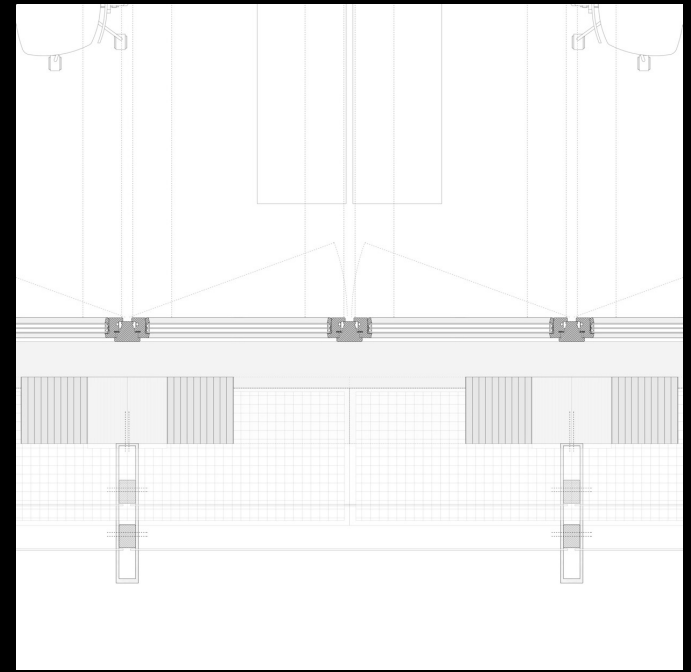
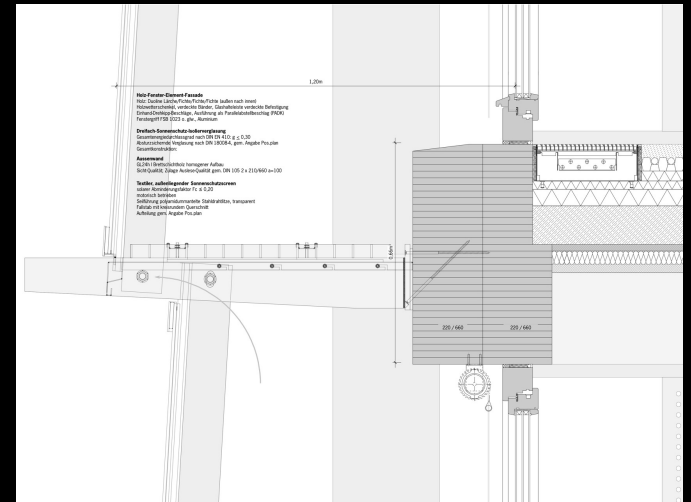


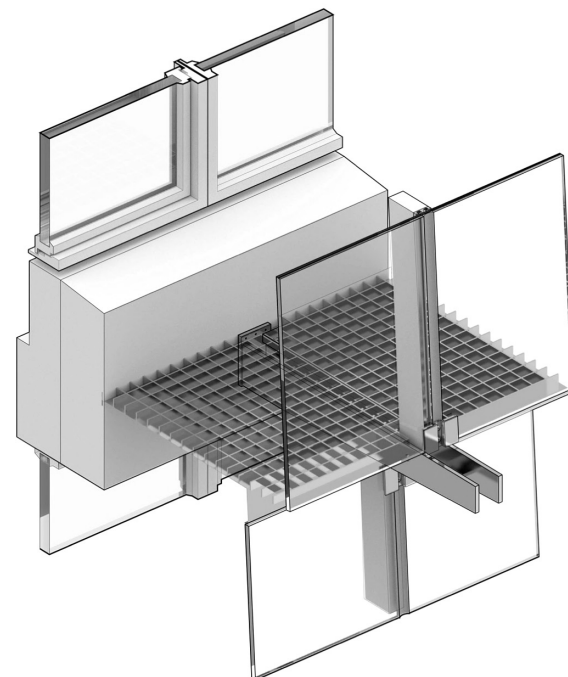
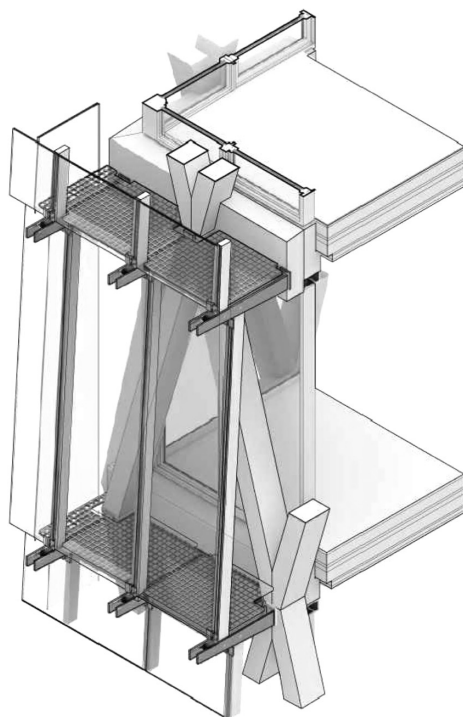
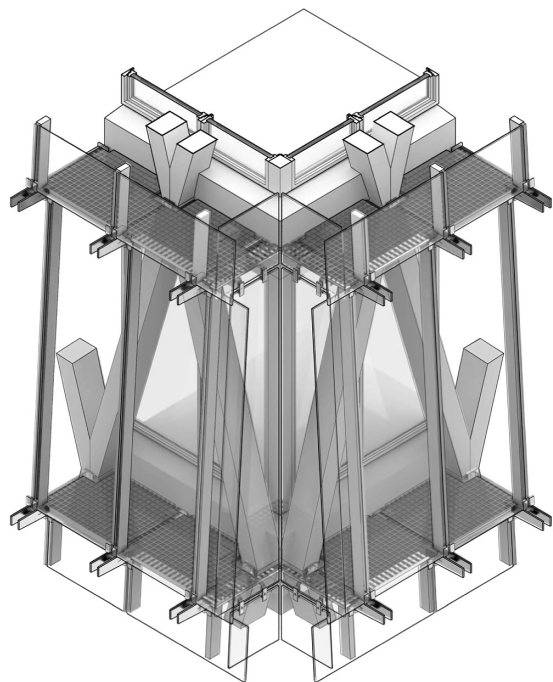


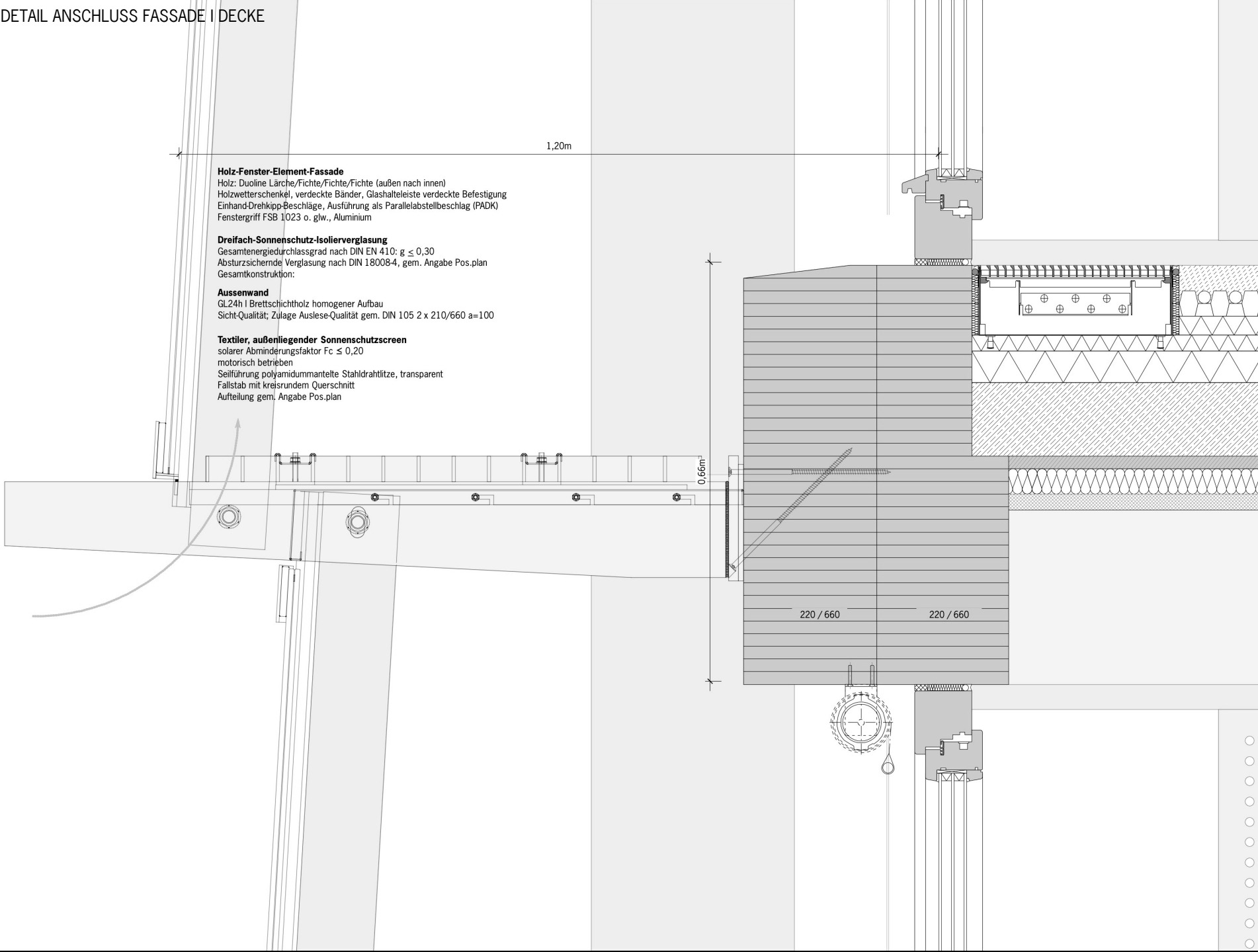


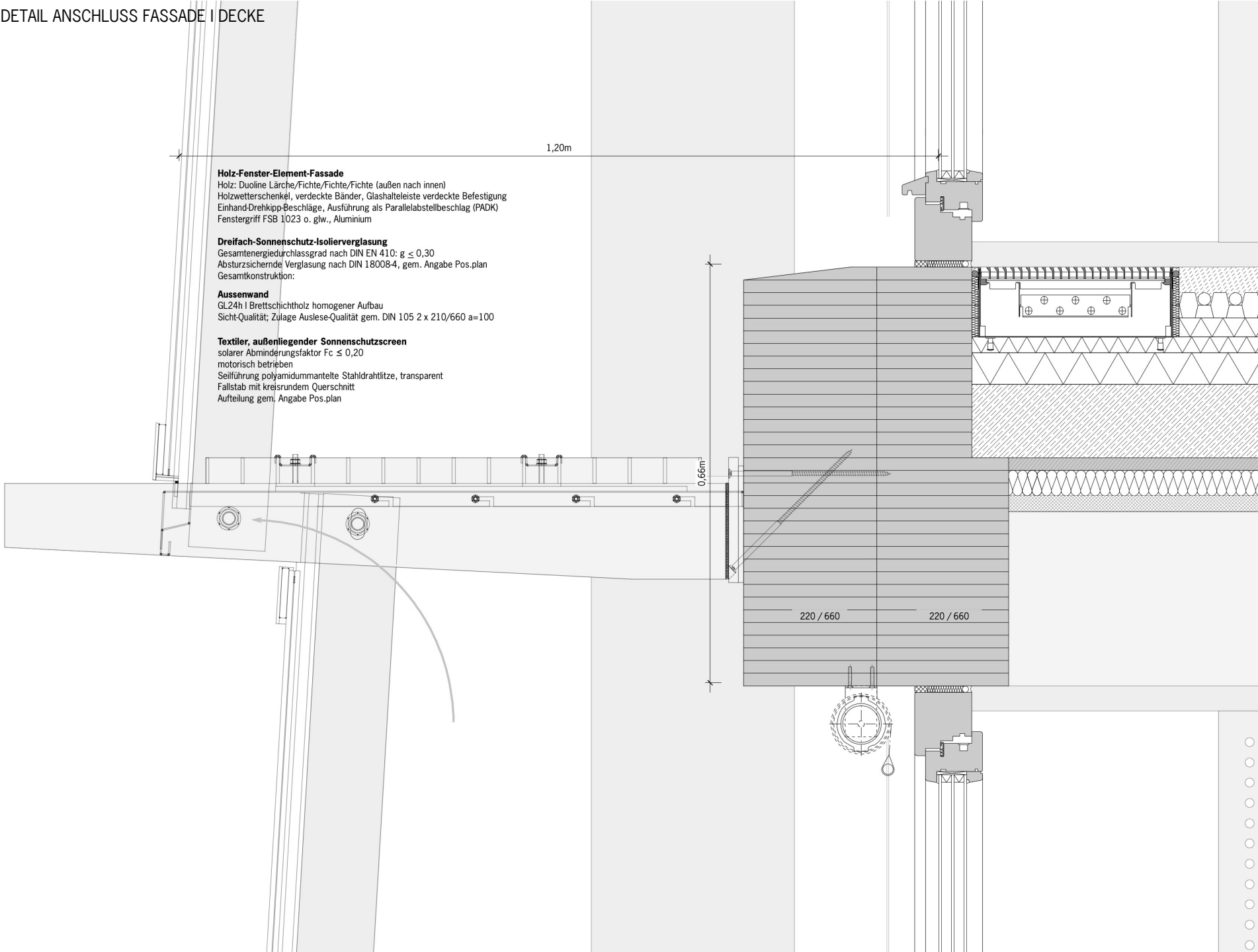












Holz-Fenster-Element-Fassade

Holz: Duoline Lärche/Fichte/Fichte/Fichte (außen nach innen)
Holzwetterschenkel, verdeckte Bänder, Glashalteleiste verdeckte Befestigung
Einhand-Drehkipp-Beschläge, Ausführung als Parallelabstellbeschlag (PADK)
Fenstergriff FSB 1023 o. glw., Aluminium

Dreifach-Sonnenschutz-Isolierverglasung

Gesamtenergiedurchlassgrad nach DIN EN 410: $g \leq 0,30$
Absturzsichernde Verglasung nach DIN 18008-4, gem. Angabe Pos.plan
Gesamtkonstruktion:

Aussenwand

GL24h I Brettschichtholz homogener Aufbau
Sicht-Qualität; Zulage Auslese-Qualität gem. DIN 105 2 x 210/660 a=100

Textiler, außenliegender Sonnenschutzscreen

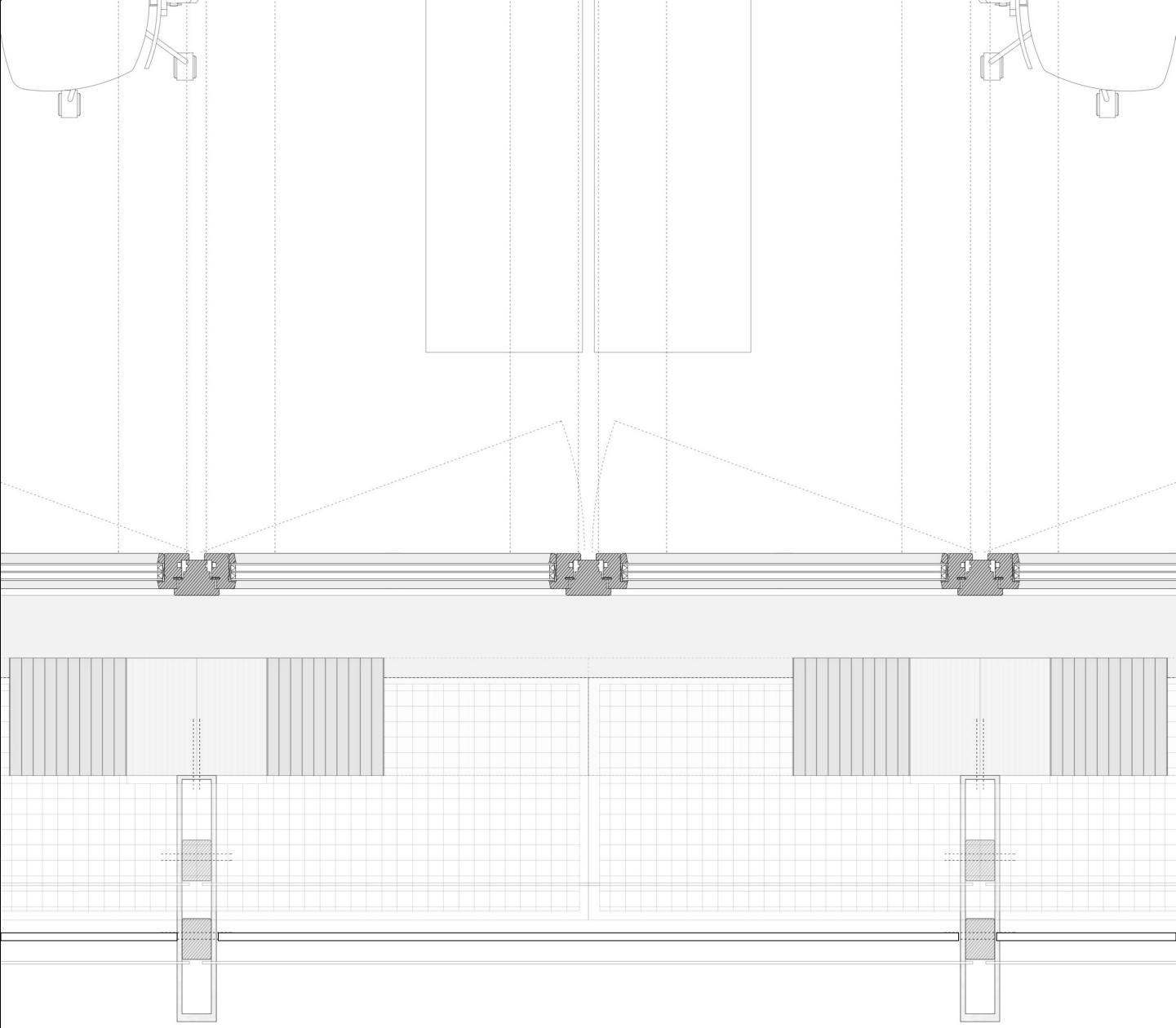
solarer Abminderungsfaktor $F_c \leq 0,20$
motorisch betrieben
Seilführung polyamidummantelte Stahldrahtlitze, transparent
Fallstab mit kreisrundem Querschnitt
Aufteilung gem. Angabe Pos.plan

1,20m

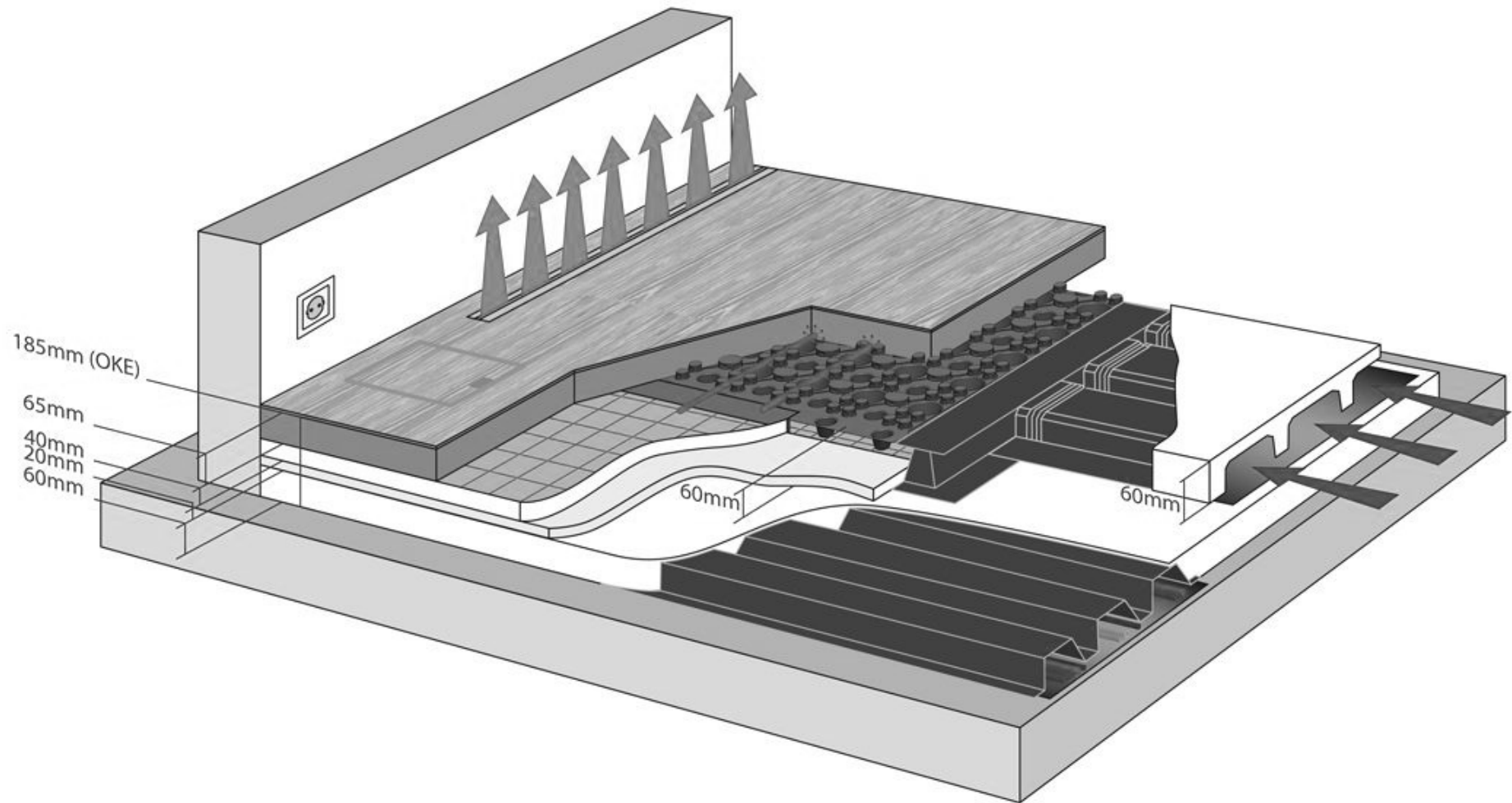
0,66m

220 / 660

220 / 660



HEIZEN I LÜFTEN I TEMPERIEREN



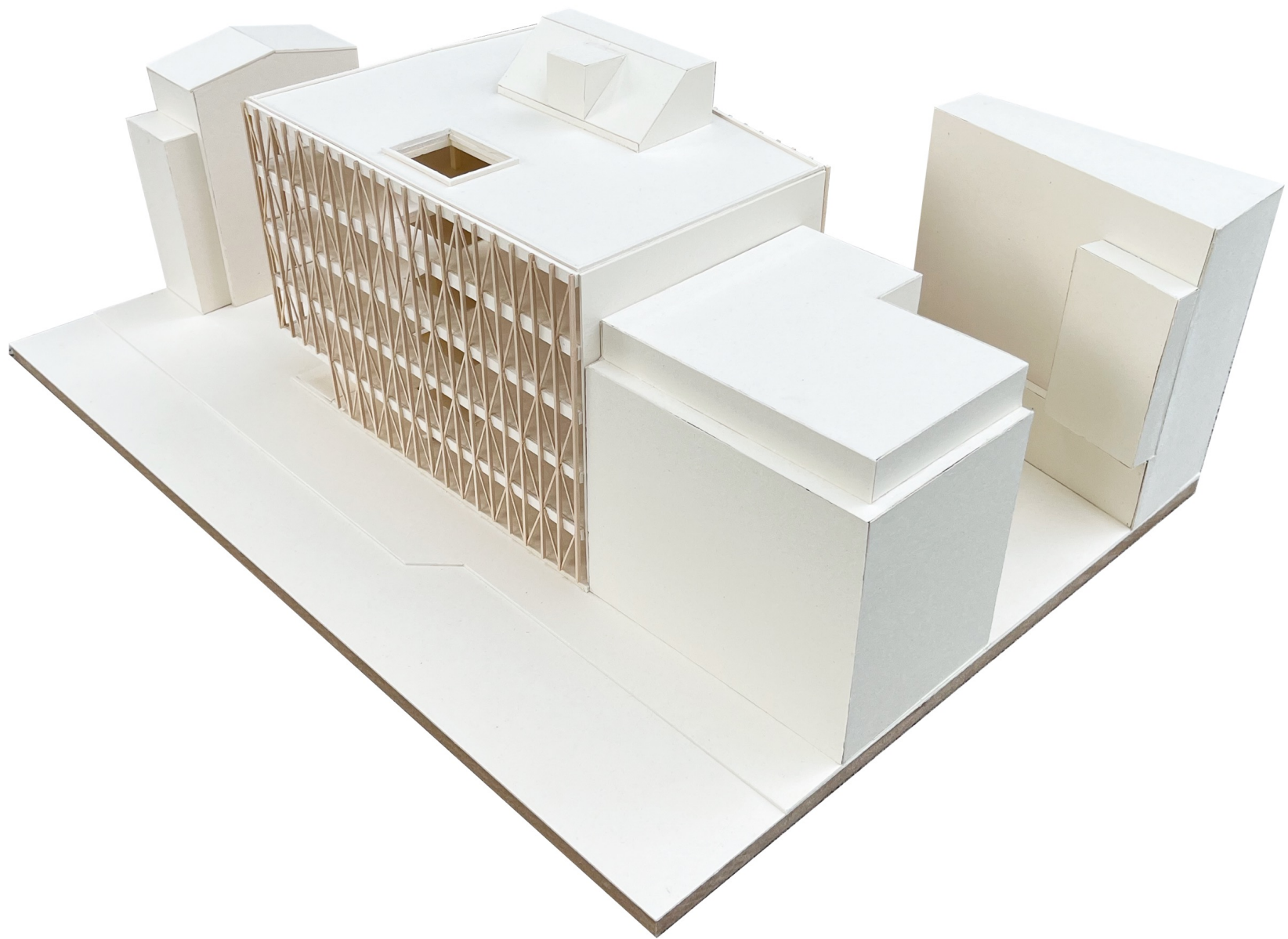




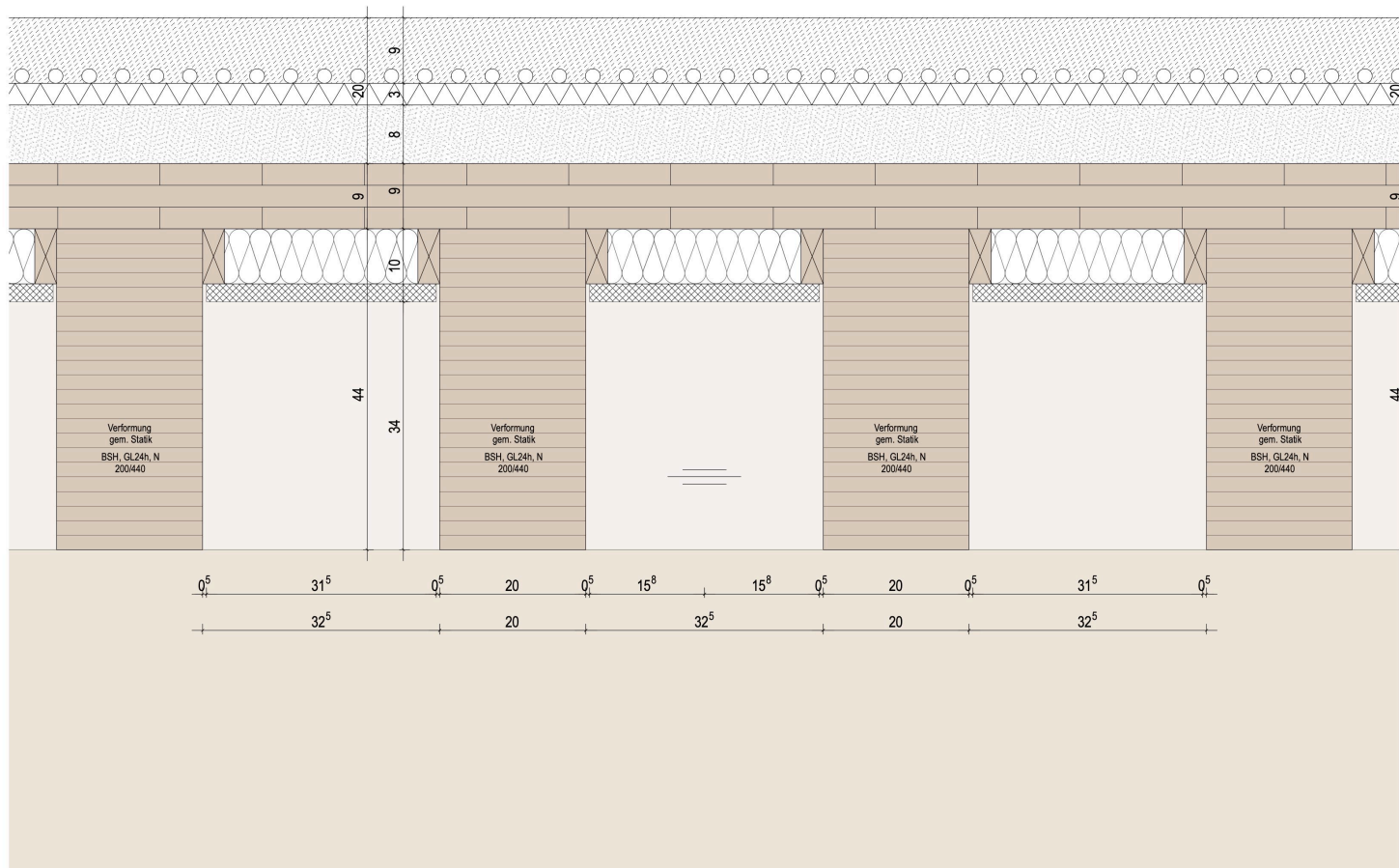
LERNEN VON ...



BILDUNGSZENTRUM IHK ULM







HLD ELEMENTSYSTEM

ENTWICKLUNG EINES VORFERTIGBAREN HOLZ-LEHM-
VERBUNDDECKEN - SYSTEMS ZUR SERIELLEN FERTIGUNG IM
MEHRGESCHOSSIGEN HOLZBAU

ZUKUNFT BAU
FORSCHUNGSFÖRDERUNG



Bundesministerium
für Wohnen, Stadtentwicklung
und Bauwesen



Bundesinstitut
für Bau-, Stadt- und
Raumforschung

im Bundesamt für Bauwesen
und Raumordnung



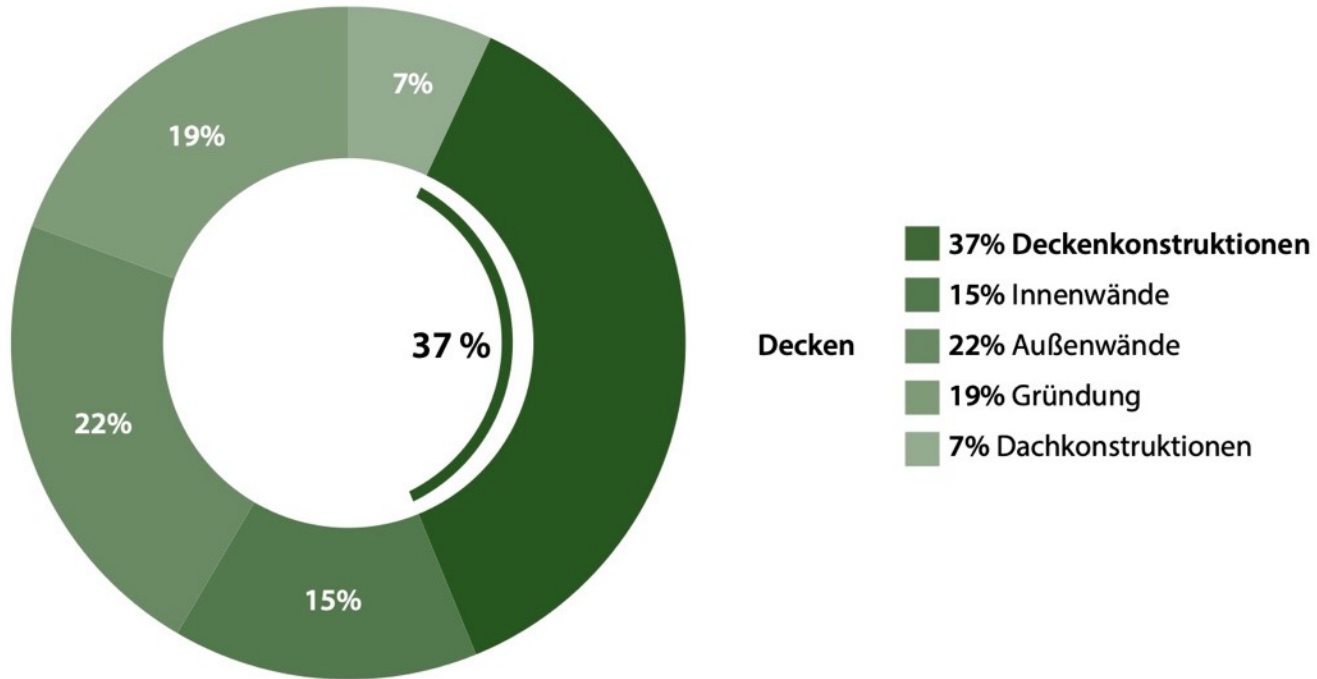
Technische Universität Darmstadt
Fachbereich Architektur -

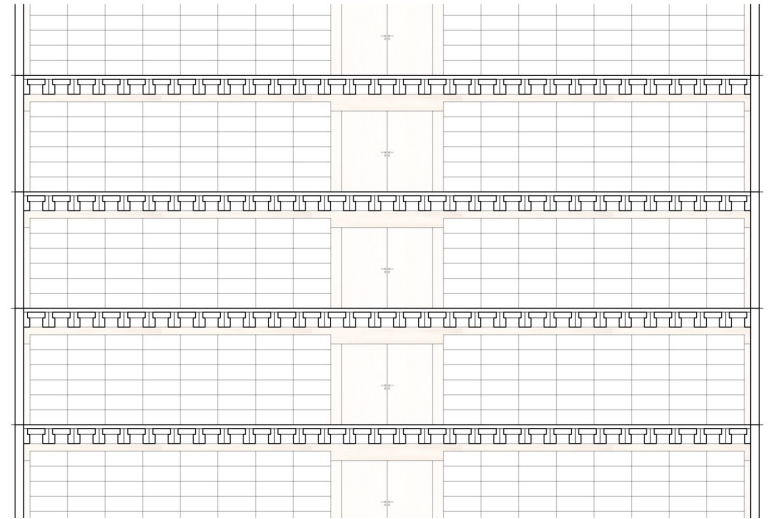
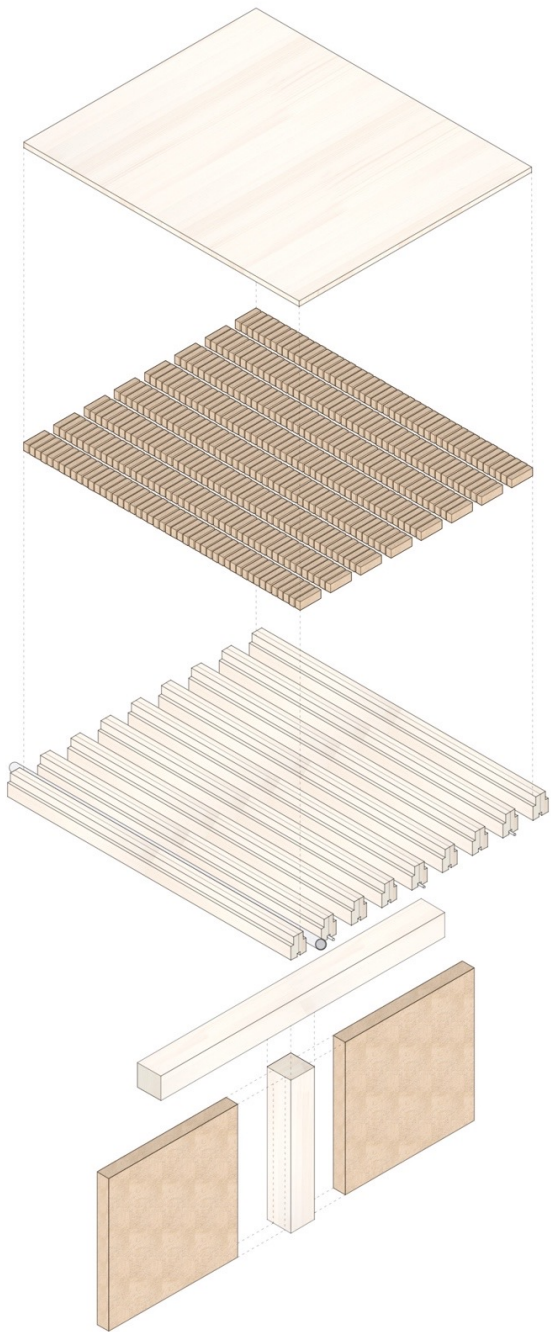
Fachgebiet Entwerfen und Baukonstruktion
VHT Darmstadt – Institut für Leichtbau Trockenbau Holzbau GmbH



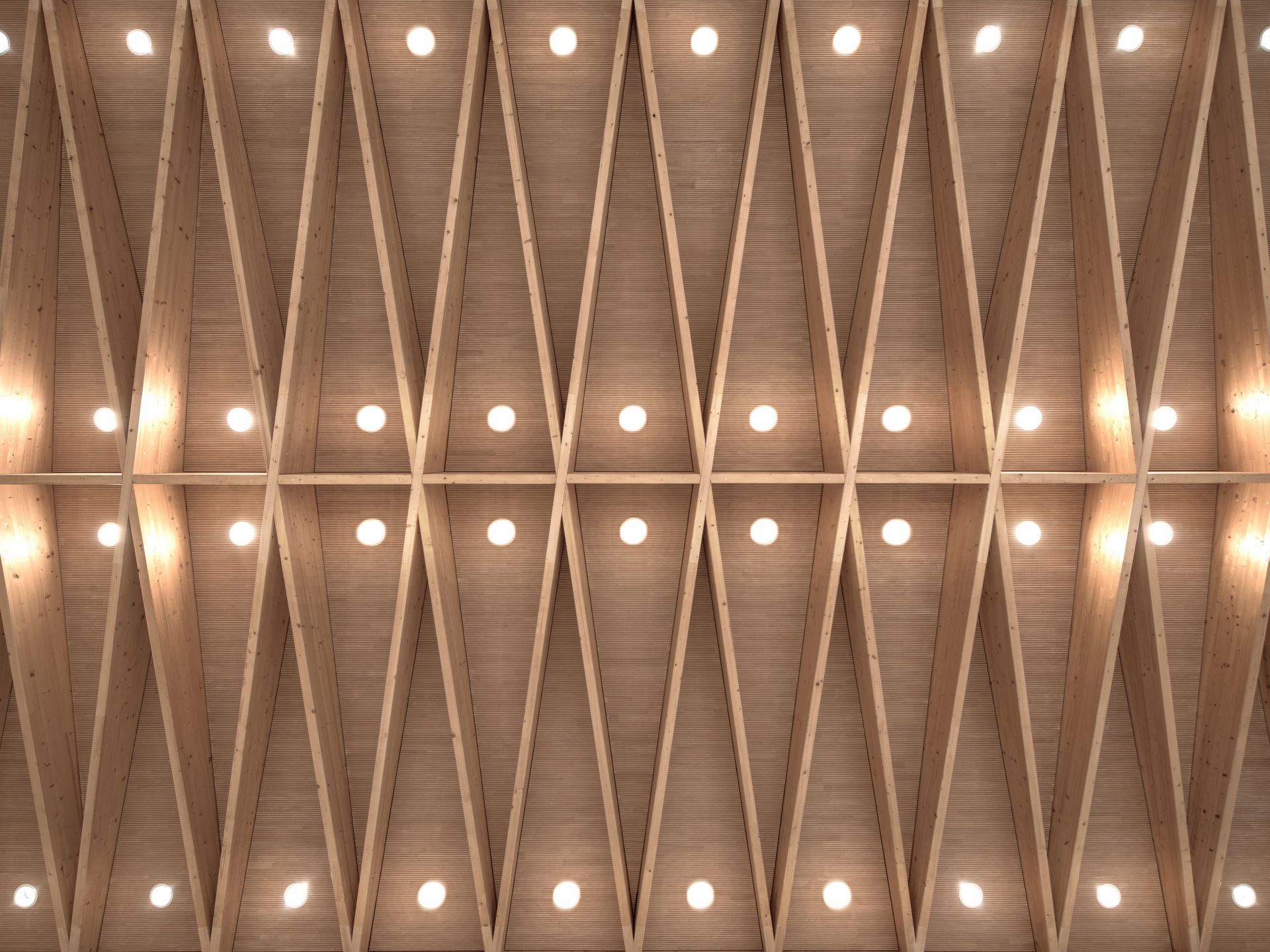


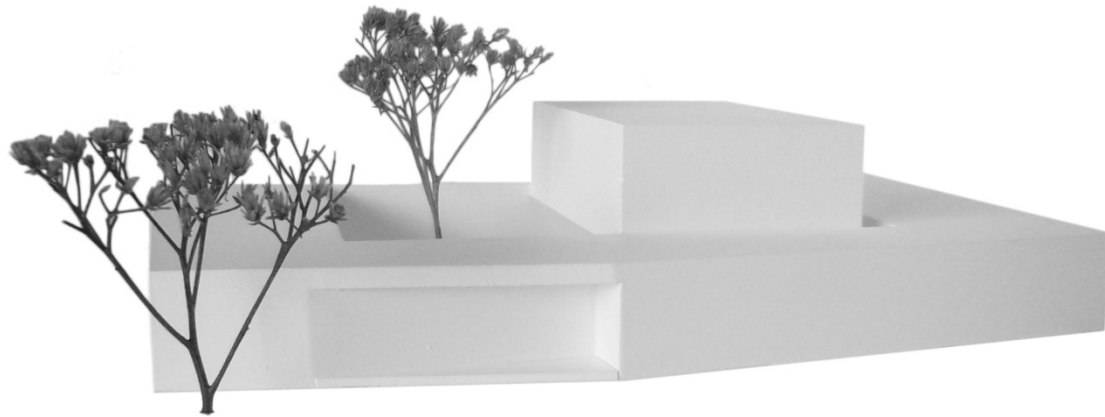
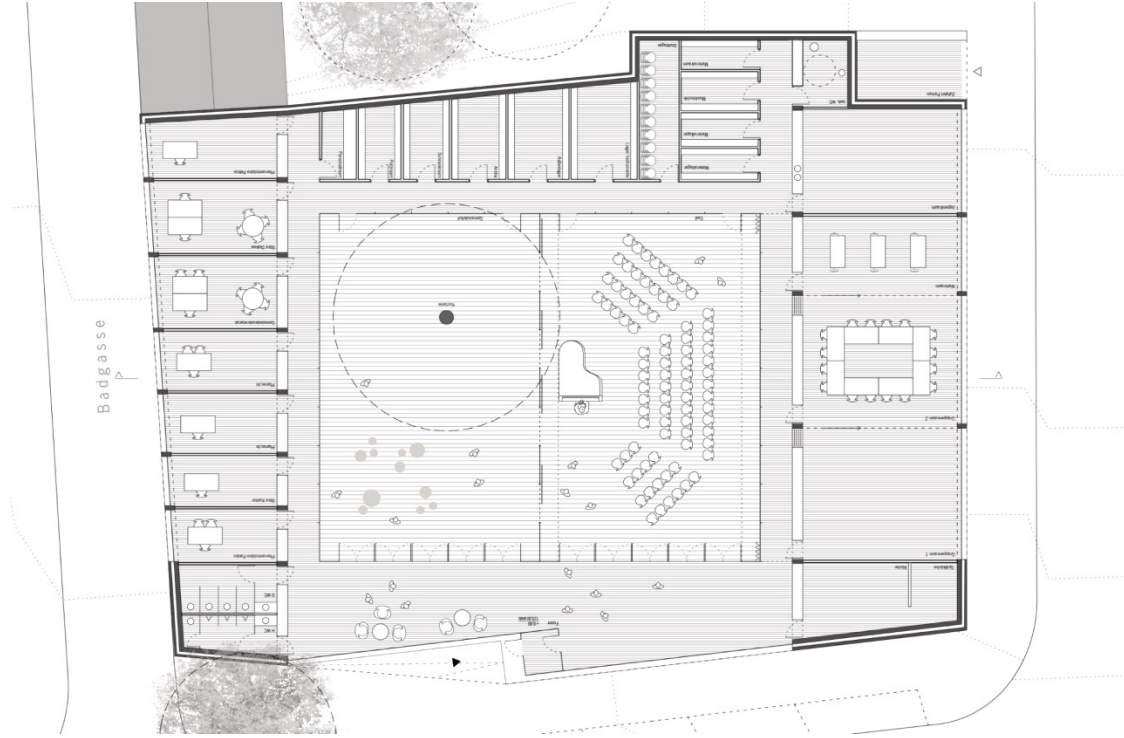
Verteilung der Treibhausgasemissionen nach Bauteilen





No. 02





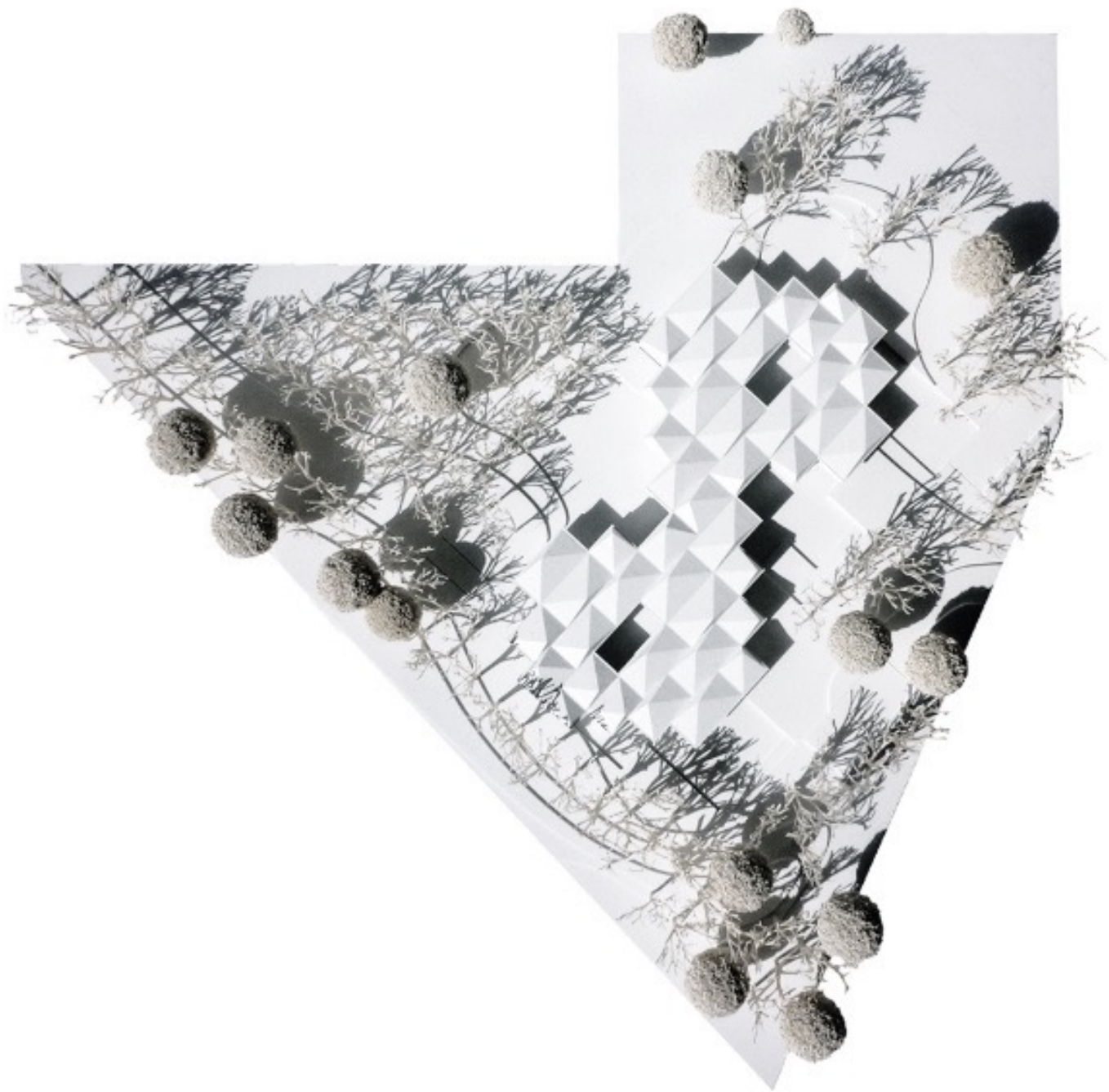


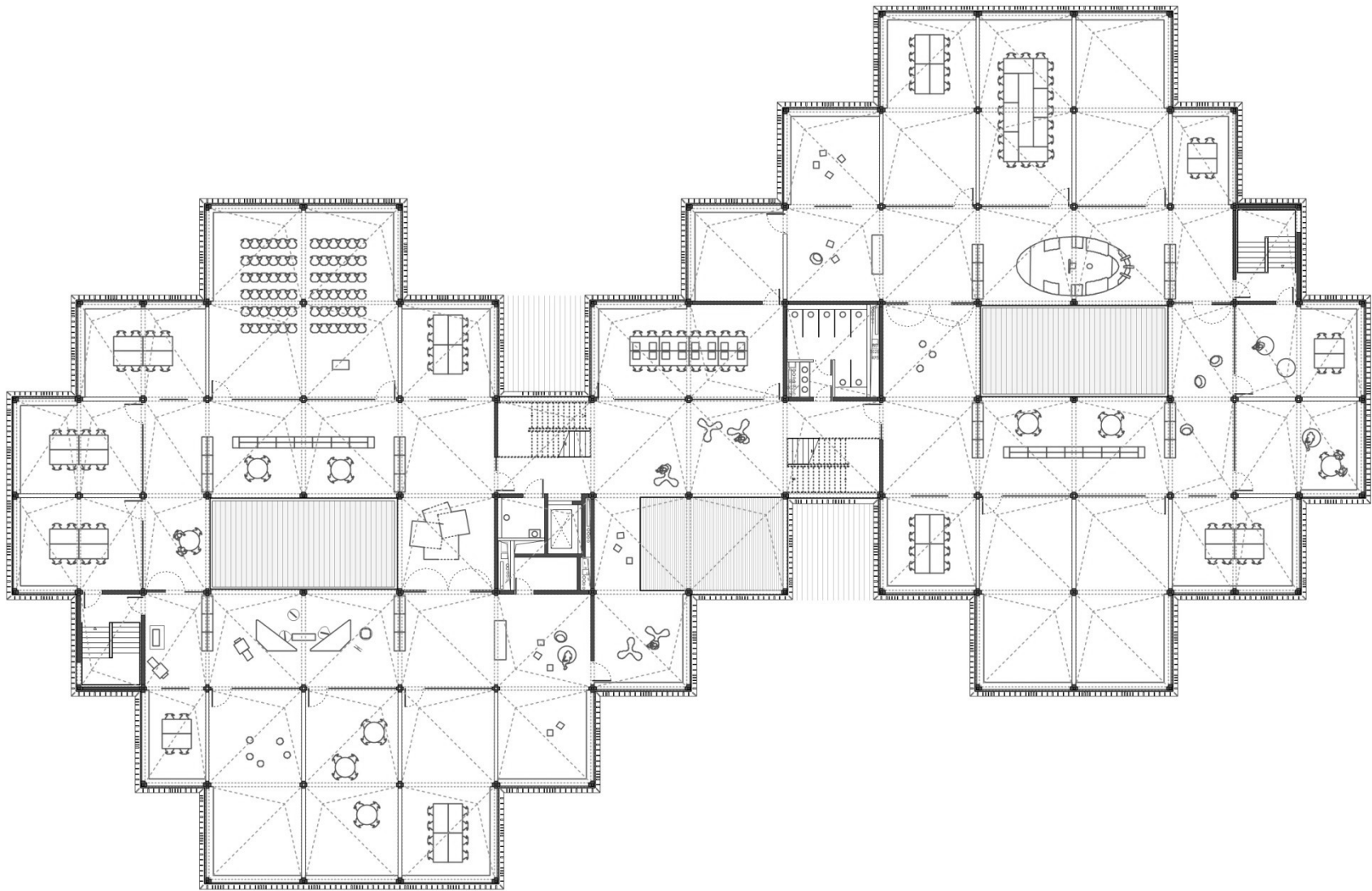




No. 03

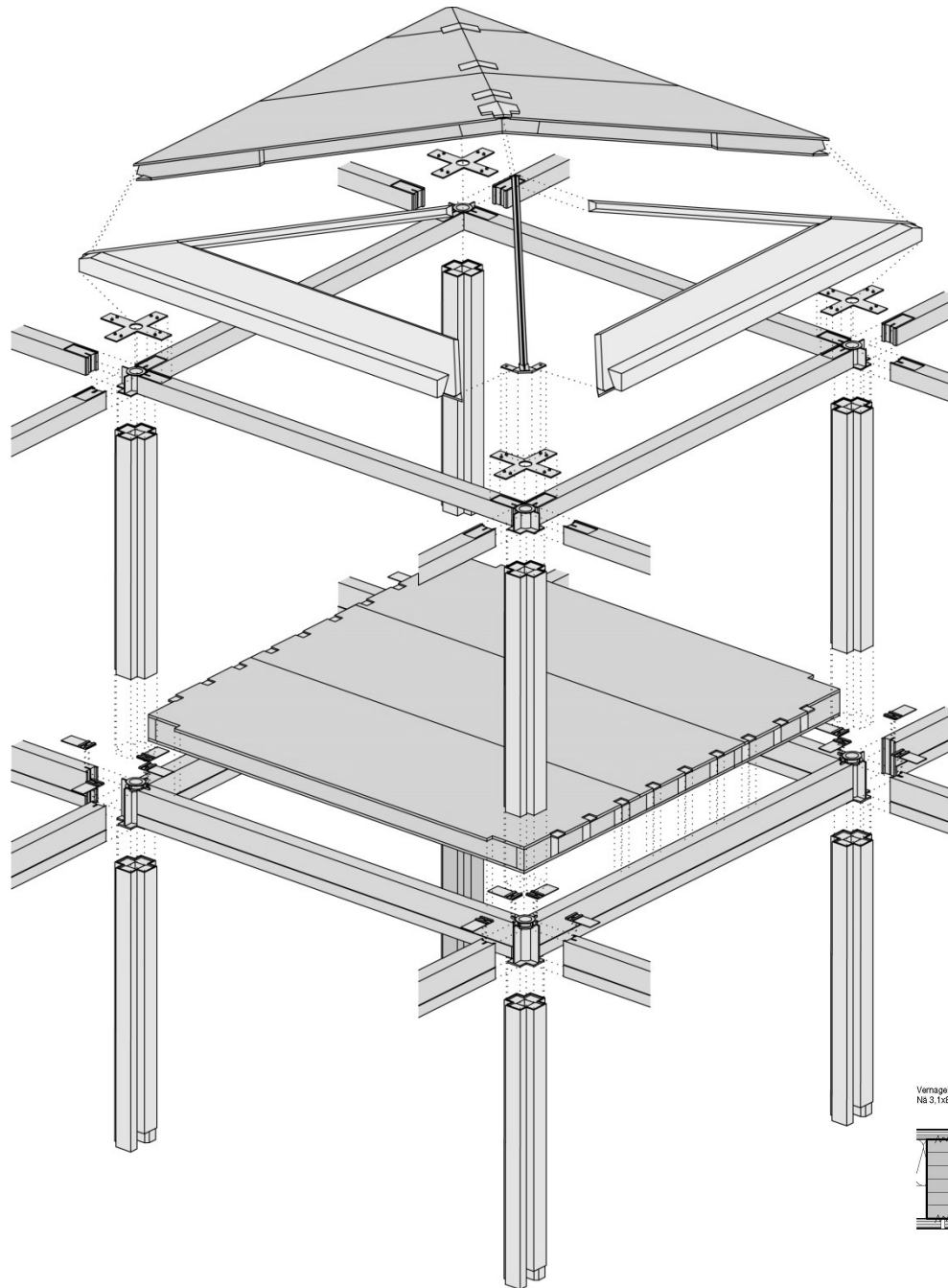






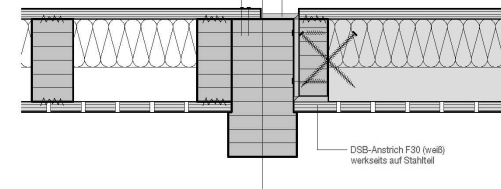






Vernagelung Deckenscheibe
 N1a 3, 1x80 e=50mm, 2-reihig

Stahlteil Typ 1
 e=550 mm (9 Stk. je Deckenfeld)
 2x2 TG ø6x100



DSB-Anstrich F30 (weiß)
 werkseits auf Stahlteil





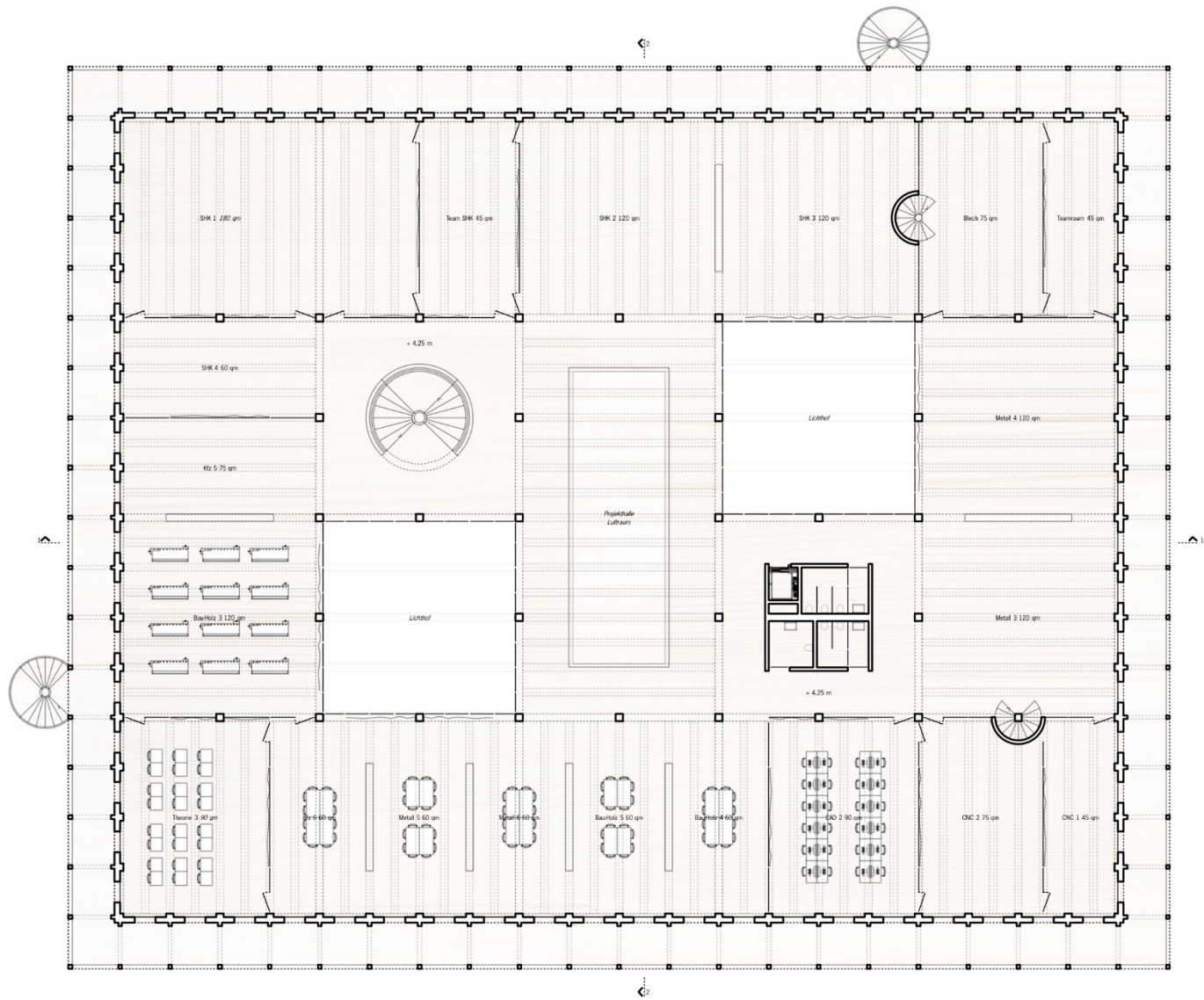












No. 04



























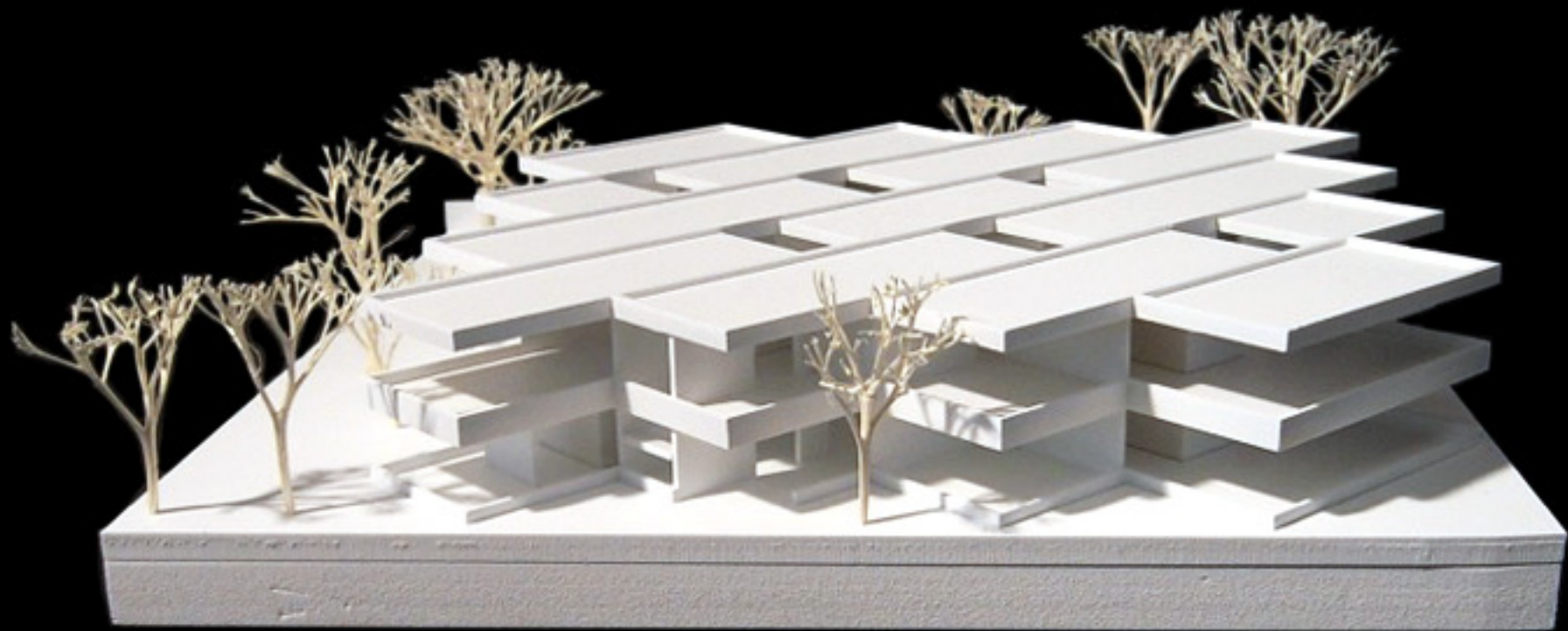




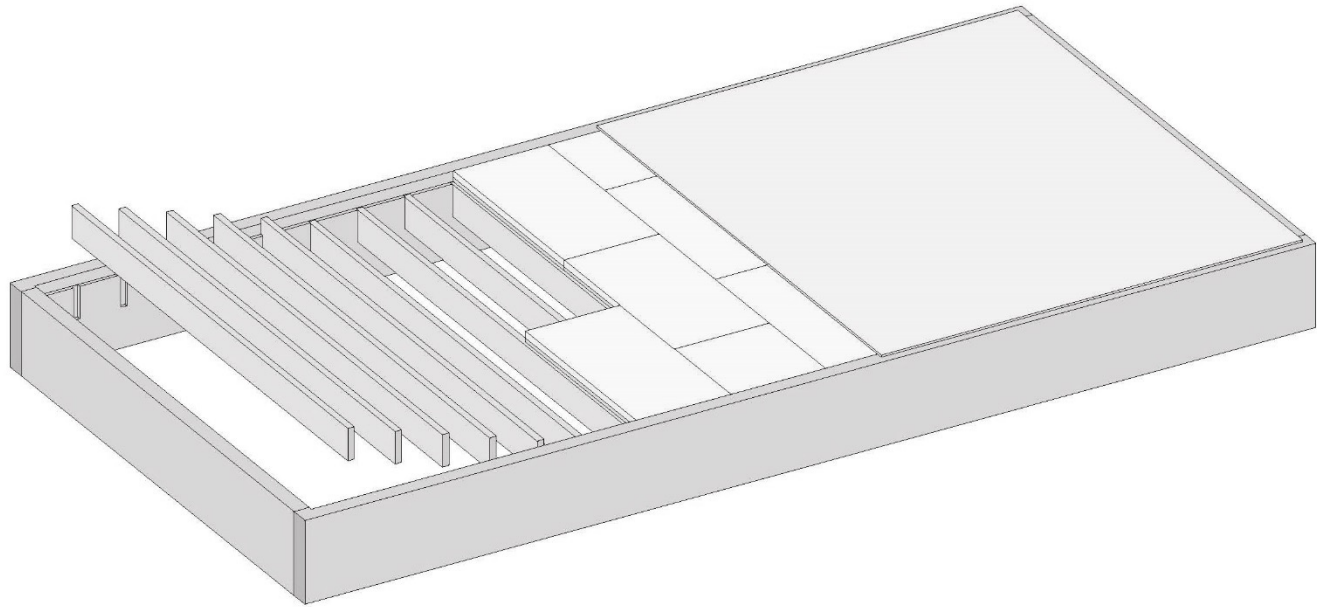
No. 05























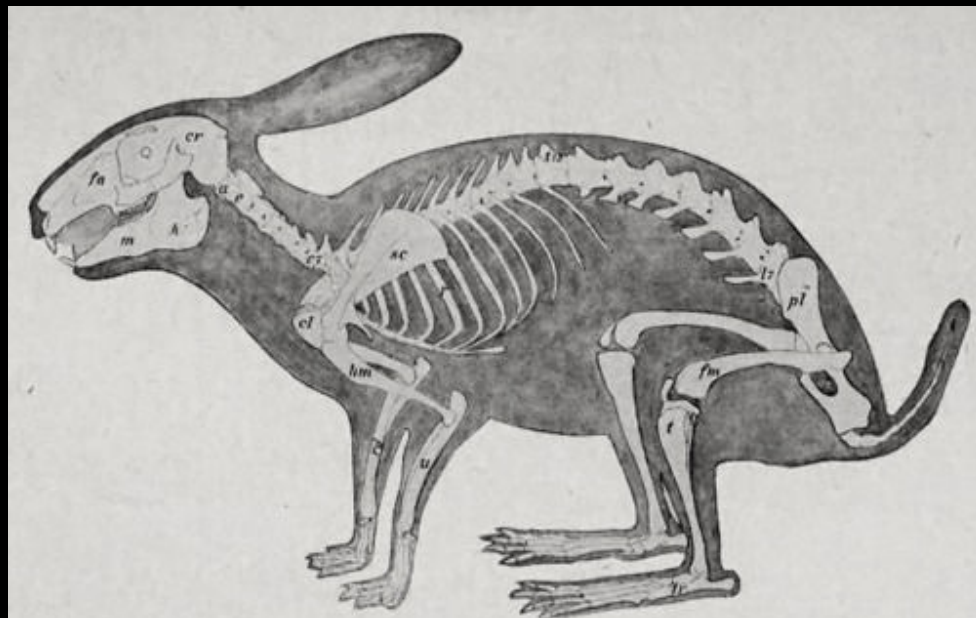


FIG. 23. The skeleton: a, atlas; c, carpus; c7, seventh cervical vertebra; cl, clavicle; cr, cranial portion of skull; e, epistropheus; f, fibula; fa, facial portion of skull; fm, femur; h, hyoid; hm, humerus; l7, seventh lumbar vertebra; m, mandible; pl, pelvis (coxal bone); r, fifth rib; rd, radius; t, tibia; t12, twelfth thoracic vertebra; tr, tarsus. The position of the clavicle is shown above its designation.

