

Timber construction initiative of Baden-Württemberg

Jan Bulmer | Oulu | 12



Baden-Württemberg

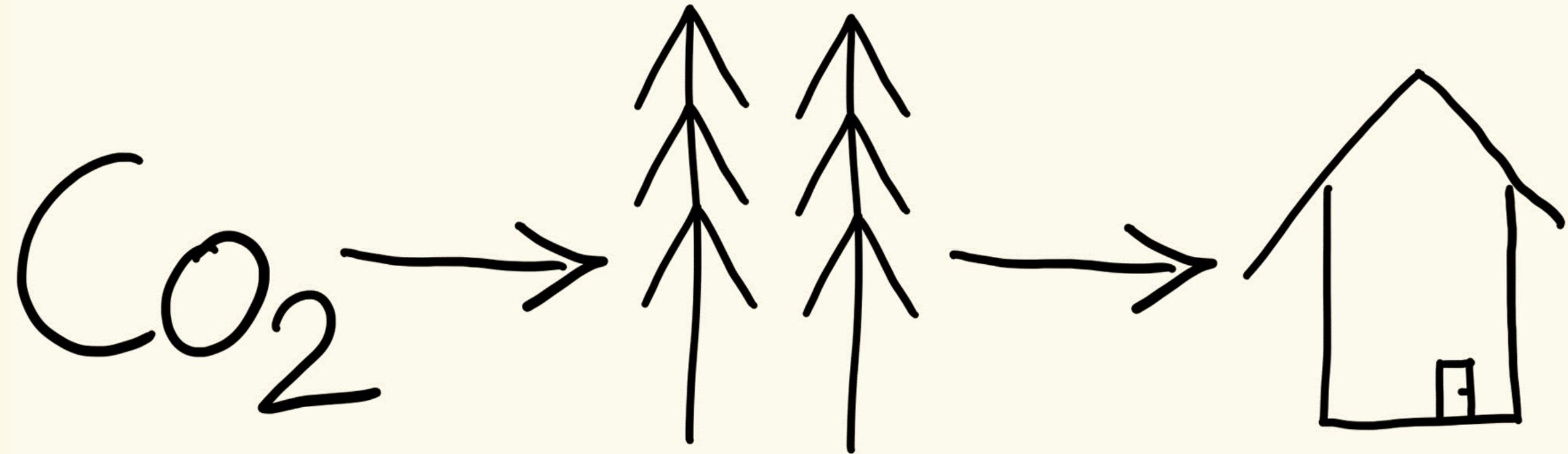
MINISTERIUM FÜR LÄNDLICHEN RAUM UND VERBRAUCHERSCHUTZ



Motivation, Reasons & Targets

Why a timber construction initiative?

Motivation



Reasons

Sustainability Decarbonisation CO₂ Storage BioEconomy
Rental Fees Greta Infrastructure Building culture Trends
etter Ressource Restructured Forests Urbanisation Red
ensification Responsibility Fridays For Future Rural Area
s Digitisation Innovation Climate



Targets

We want to make Baden-Wuerttemberg more liveable by wooden buildings!

By providing high-quality and sustainable Spaces,
by supporting rural businesses,
and by establishing BW as trendsetter for a climate aware building culture.



Baden-Württemberg

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Baden-Württemberg



Coordination

Behind the scene...

Coordination

- Project term of 4 years
- Budget of around 25 mio. €
- Leadership at the ministry of rural affairs and consumer protection
- 13 innovation fields



Coordination

Jan Bulmer & Tim Siemens

- Since 14.06.19 at the Ministry as Coordinator
- Experience :
 - till then Clustermanager at proHolzBW
 - before Clustermanager at proHolz Schwarzwald
 - apprenticed Carpenter, Bachelor of forest management and Master of timber products and management



Baden-Württemberg

MINISTERIUM FÜR LÄNDLICHEN RAUM UND VERBRAUCHERSCHUTZ





Coordination

Jan Bulmer & **Tim Siemens**

- Since 14.06.19 at the Ministry as Coordinator
- Experience:
 - till then project supervisor for infrastructure projects at DB Engineering & Consulting
 - M. Sc. Resource Efficient Building (HS Rottenburg)
 - B. Eng. Civil Engineering (DHBW Mosbach)



Baden-Württemberg

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Baden-Württemberg



Involved Ministries

The governmental consortium

Involved Ministries

Ministry of the Interior,
Digitisation and
Migration

Ministry of Science,
Research and the Arts

Ministry of Finance

Ministry of the
Environment, Climate
Protection and the
Energy Sector

Timber construction initiative

State Ministry

of Baden-Wuerttemberg

Ministry of Economic
Affairs, Labour and
Housing

Ministry of Rural Affairs and Consumer Protection
(Leadership)



Baden-Württemberg

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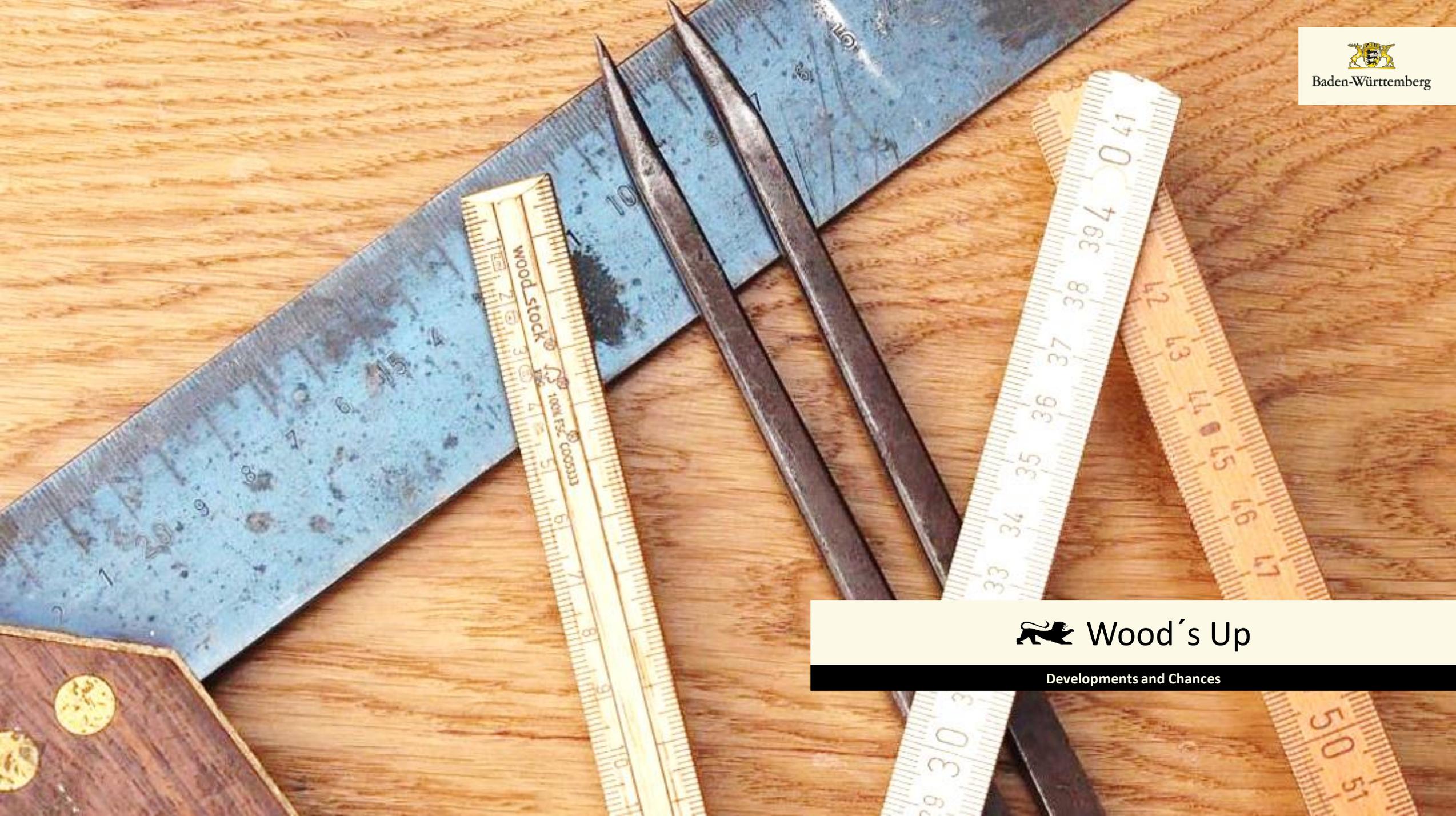
Selection of current projects

- Implementation of several timber construction professorships
 - Building culture handbook for BW
 - Scientific monitoring of governmental timber construction prototypes
 - Governmental funding for digitisation projects in timber construction
 - Education events and expert panels for knowledge transfer
- (29. January 2020 Architecture Forum in Stuttgart)**
- Online platform and communication
 - Internationalisation with Japan, Austria and Finland
 - Financial support of innovative prototype





Baden-Württemberg



 Wood's Up

Developments and Chances

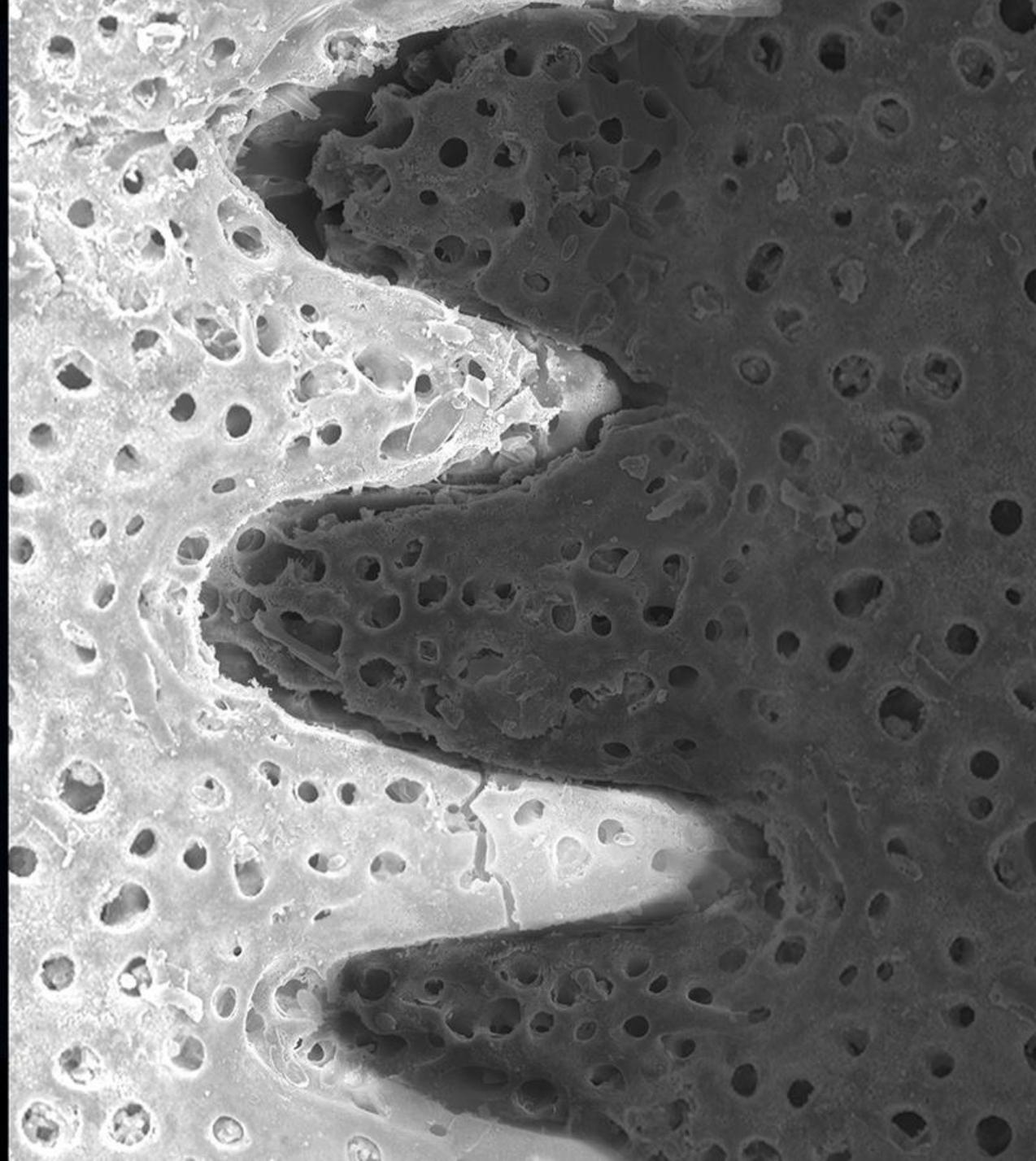
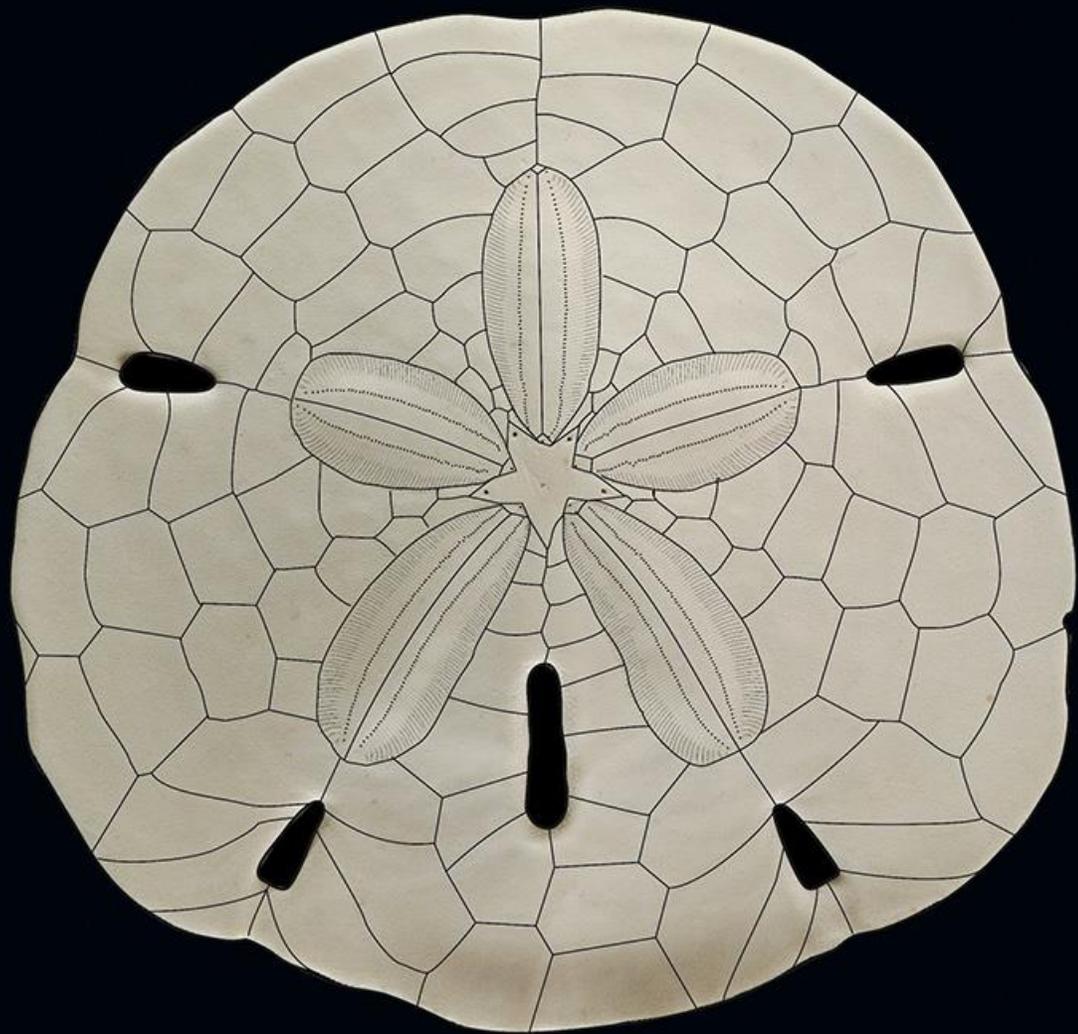
Good Arguments for wooden buildings

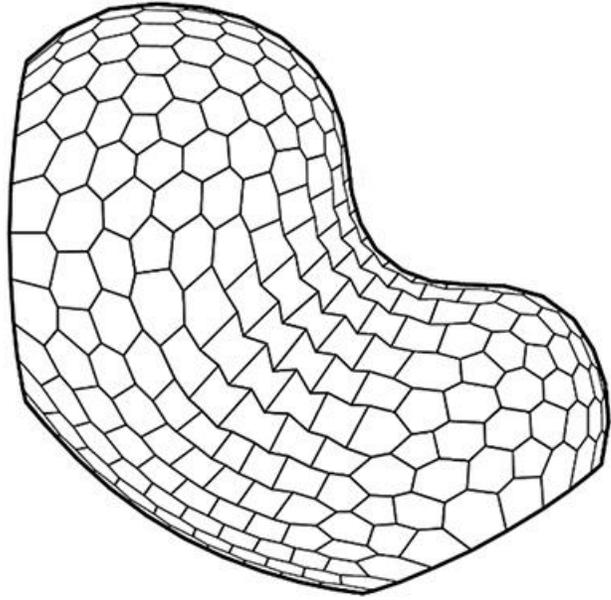


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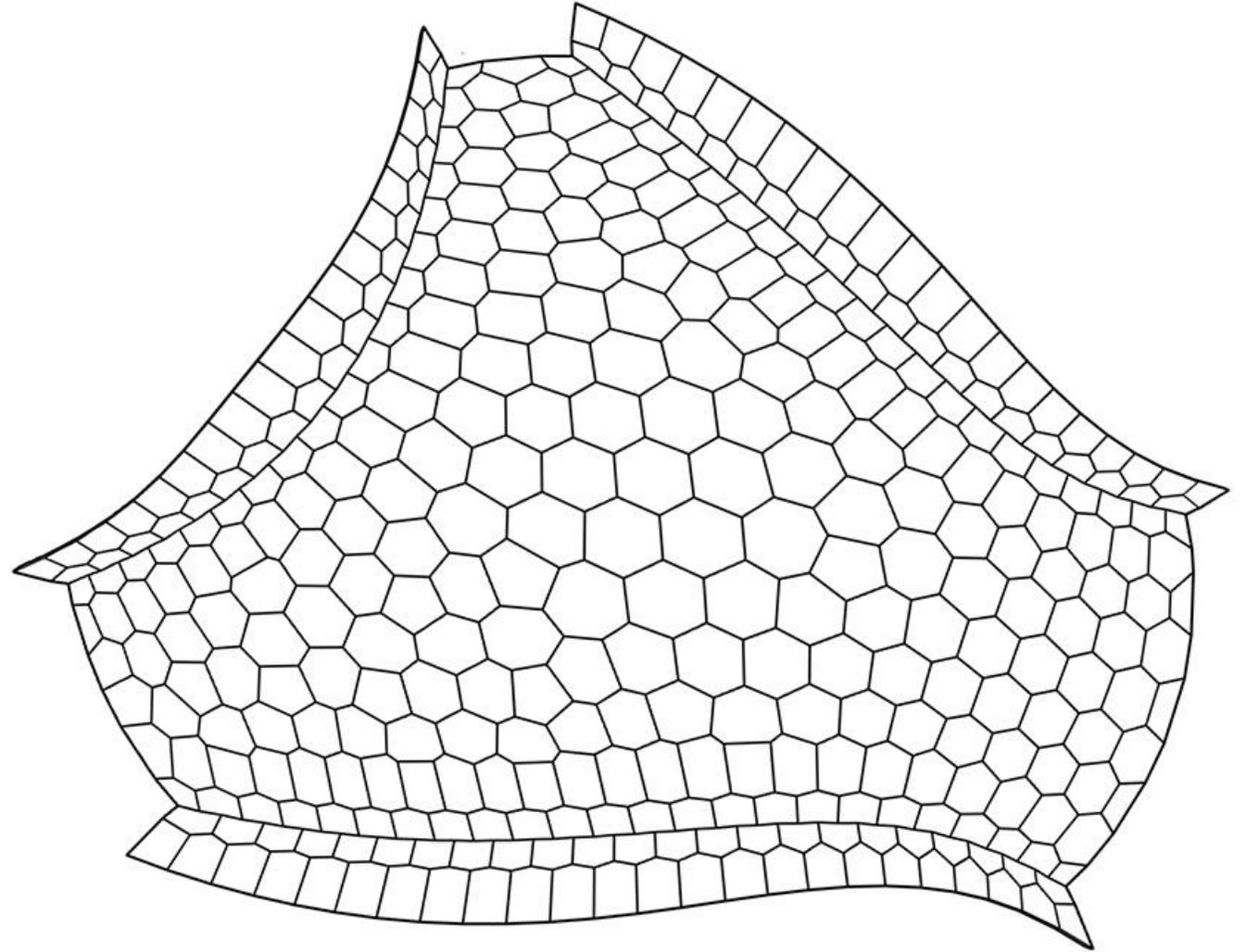




LAGA Pavilion

36.8 kg/m²

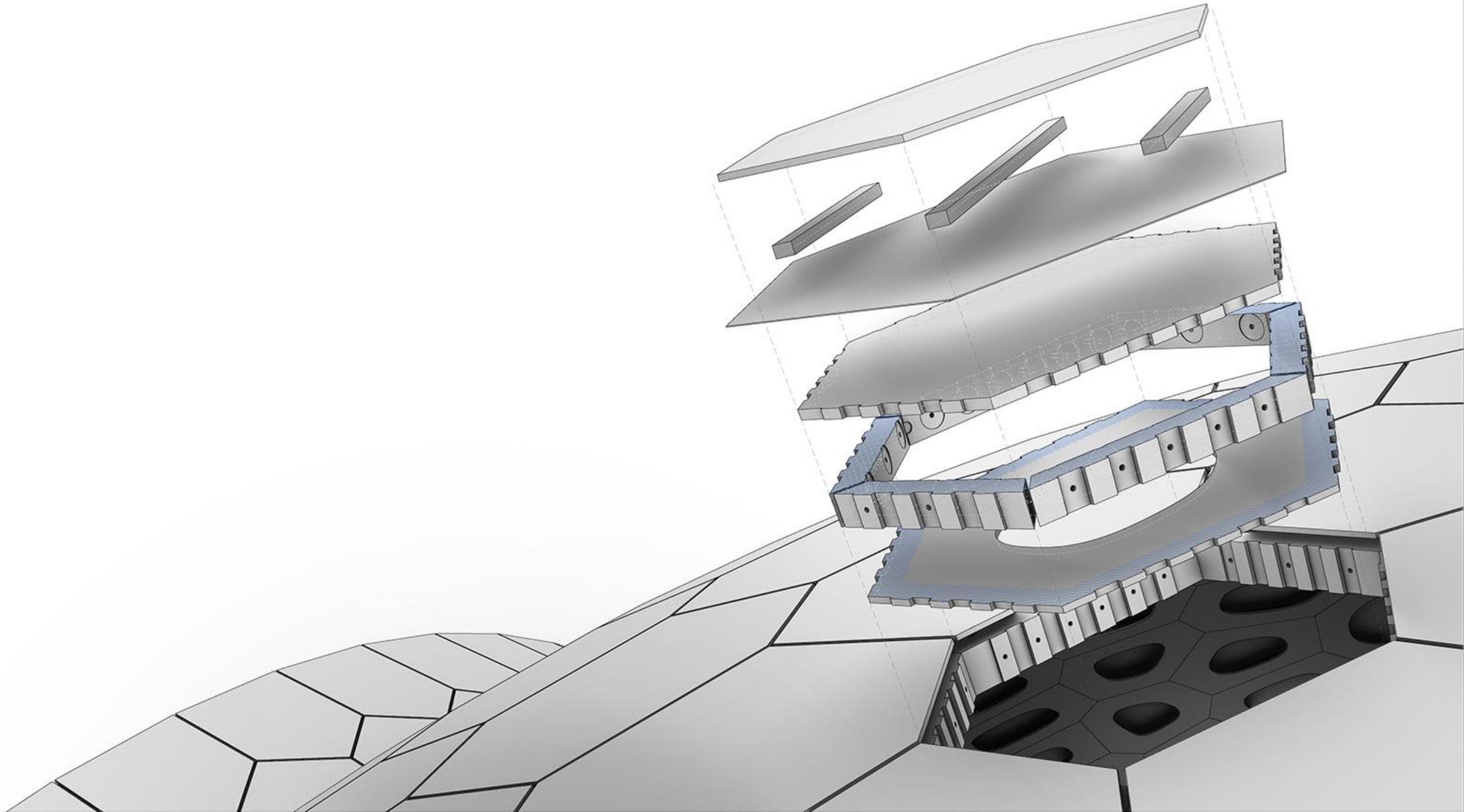
11m Span

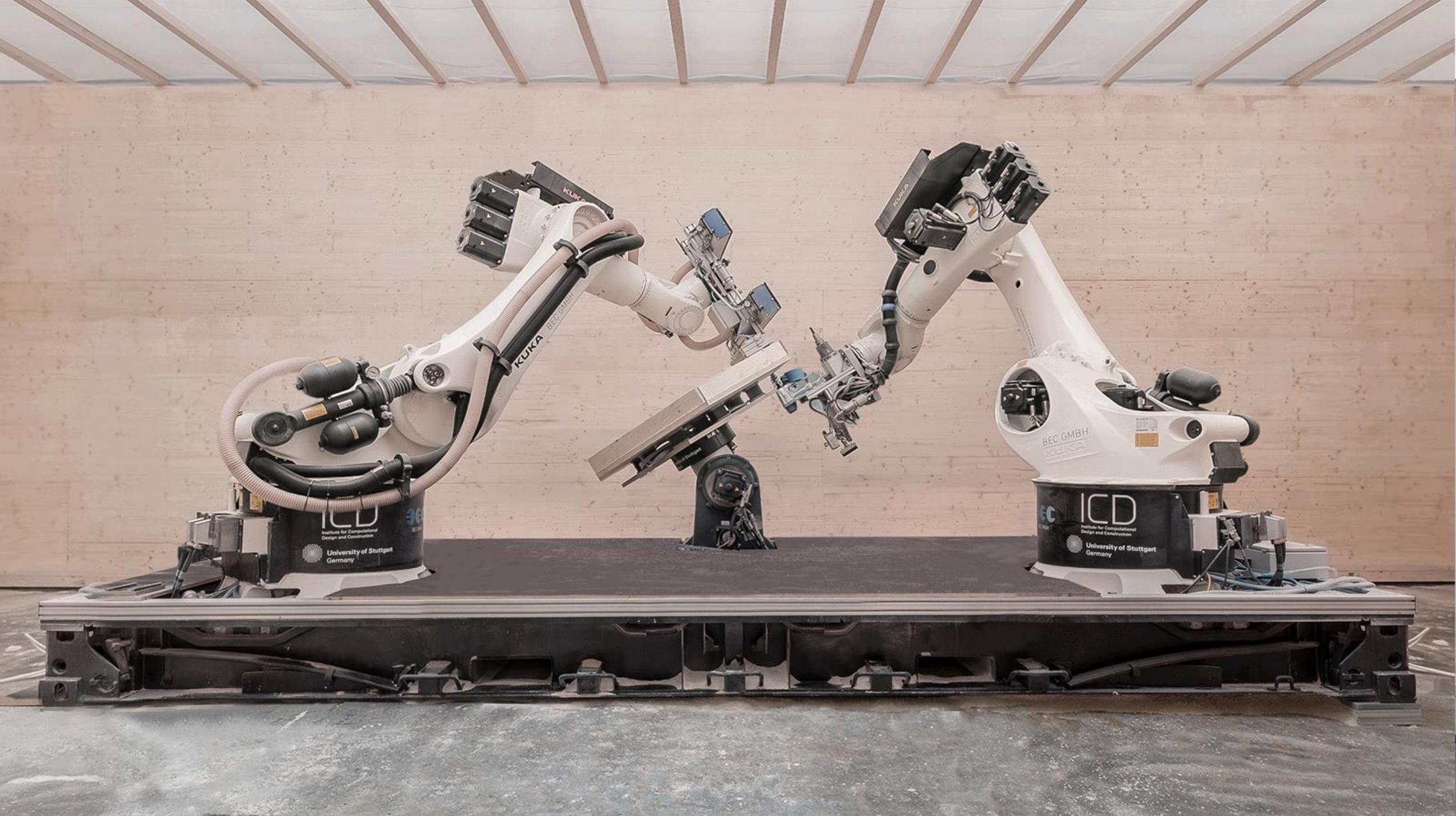


BUGA Pavilion

36.0 kg/m²

30m Span



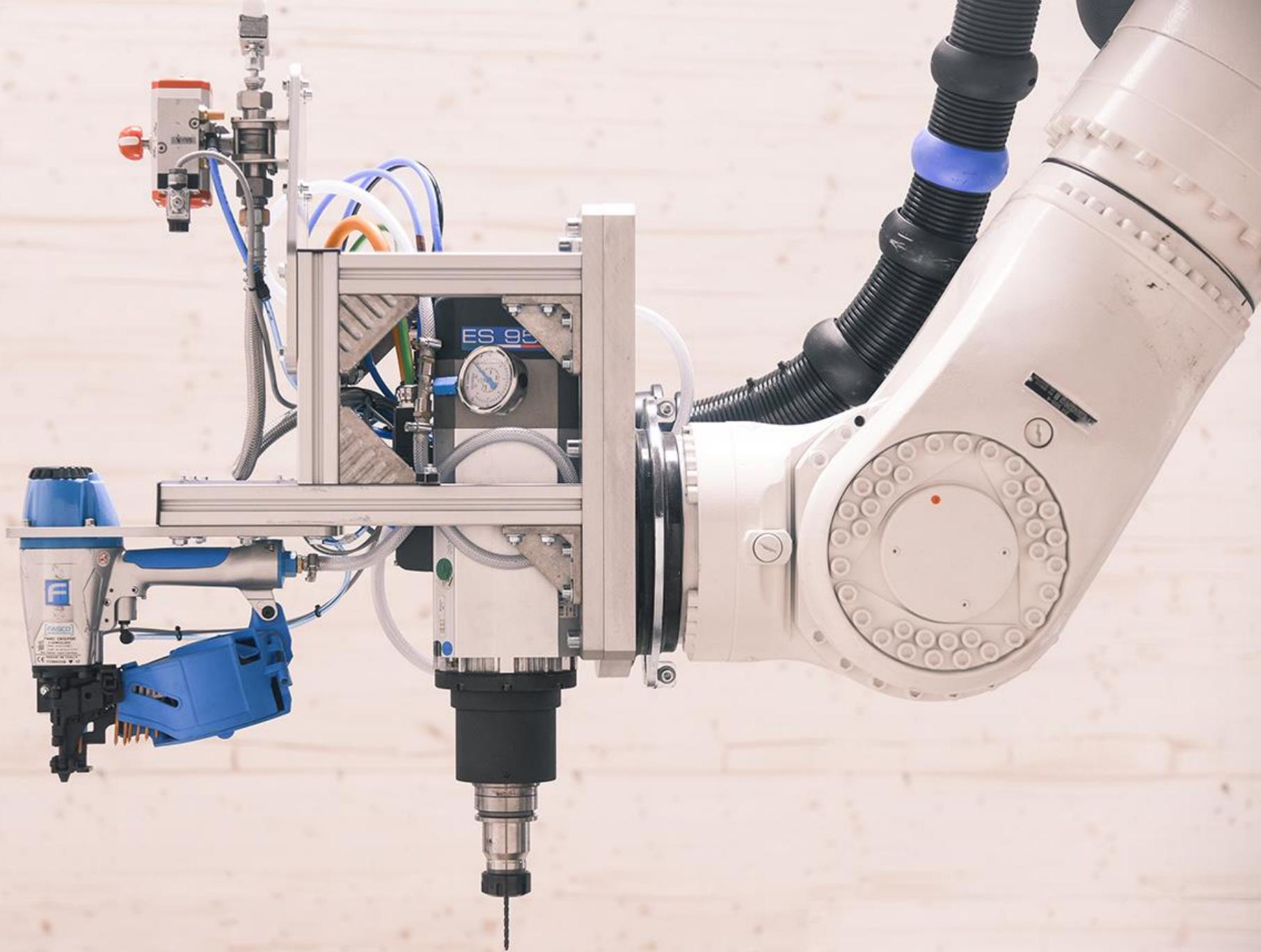


KUKA
BEC GMBH

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KUKA

ICD
Institute for Computational
Design and Construction
University of Stuttgart
Germany

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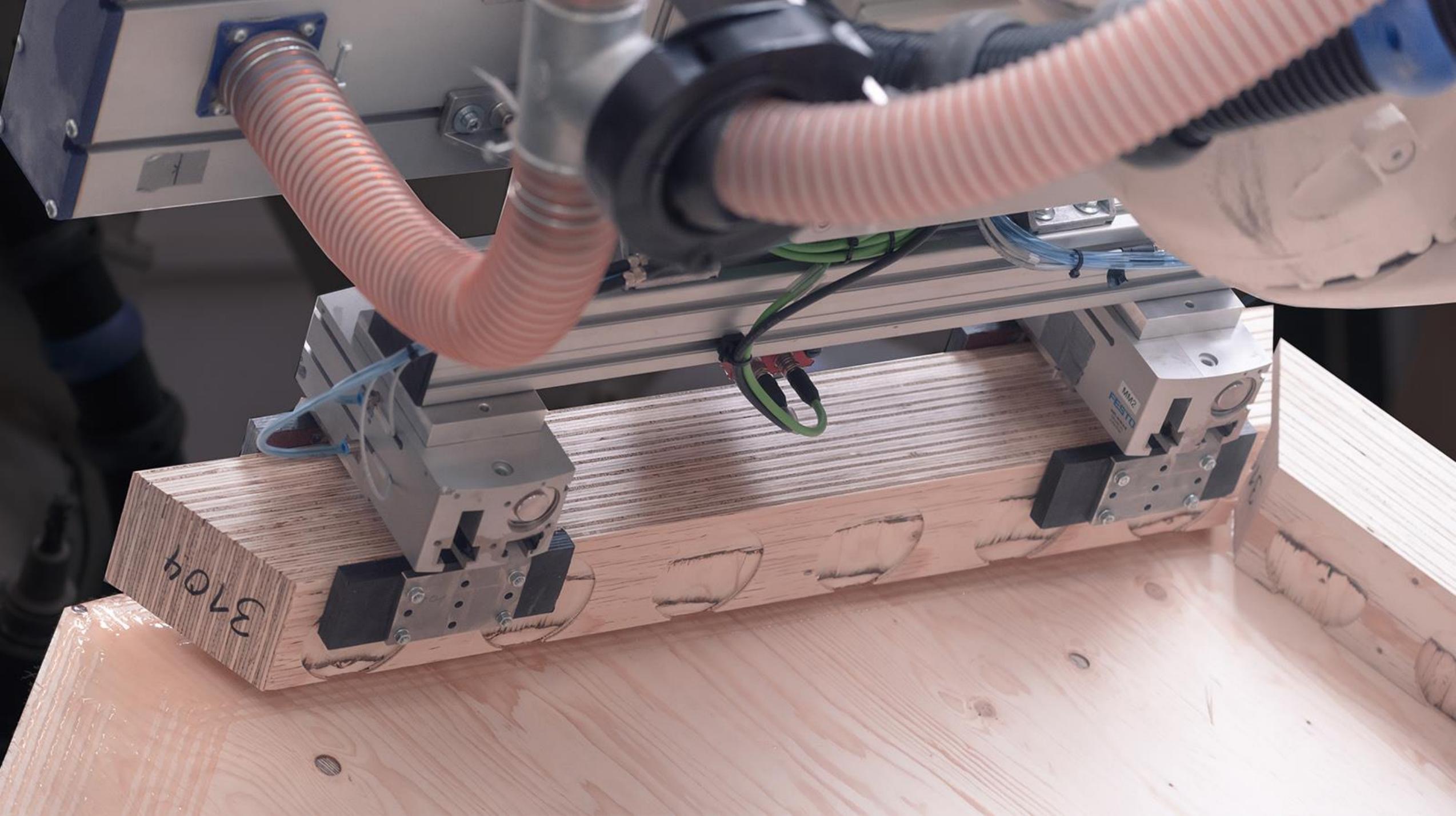
EA

Made in Germany

AUF
OPEN

ZU
CLOSE

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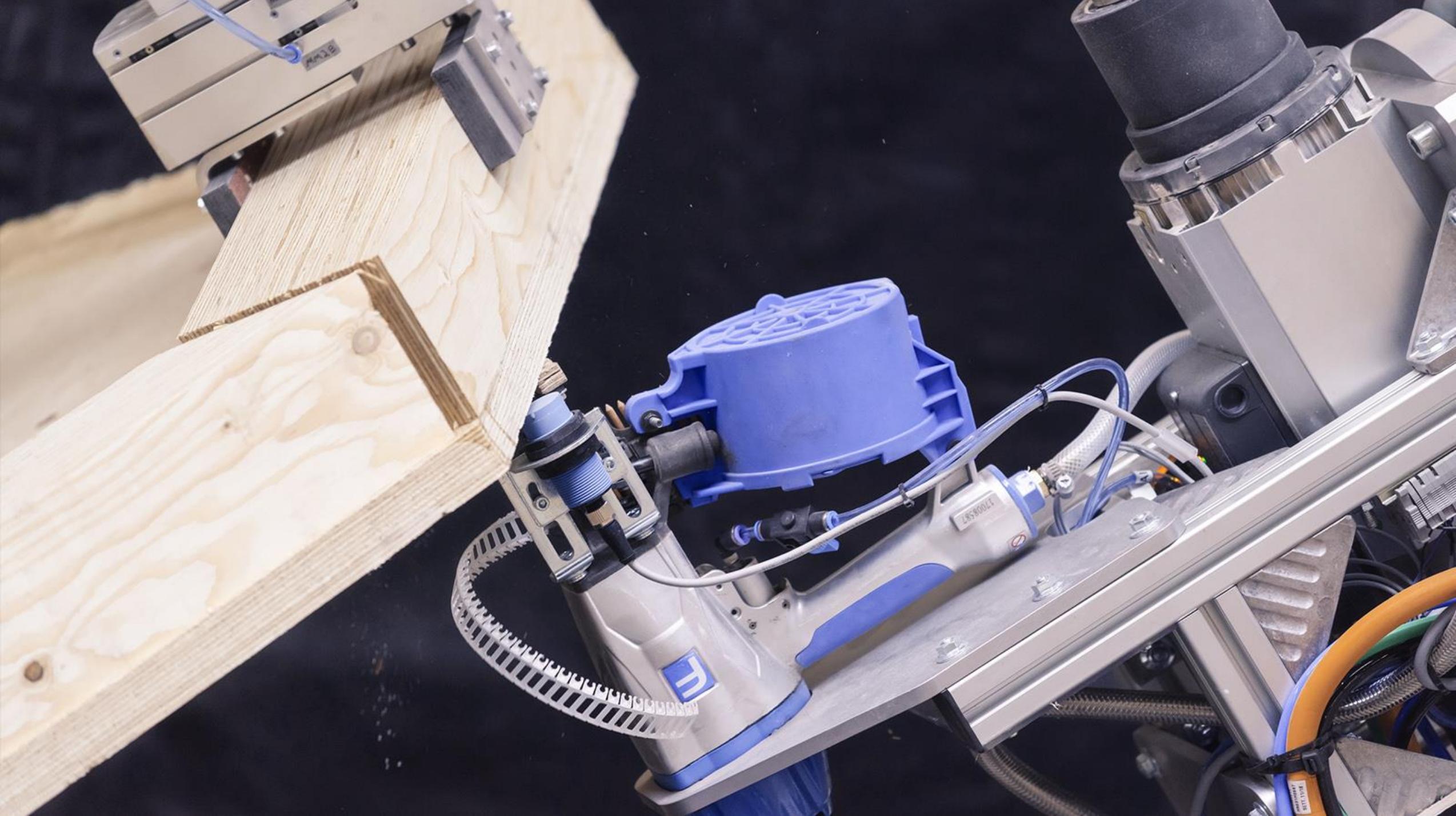
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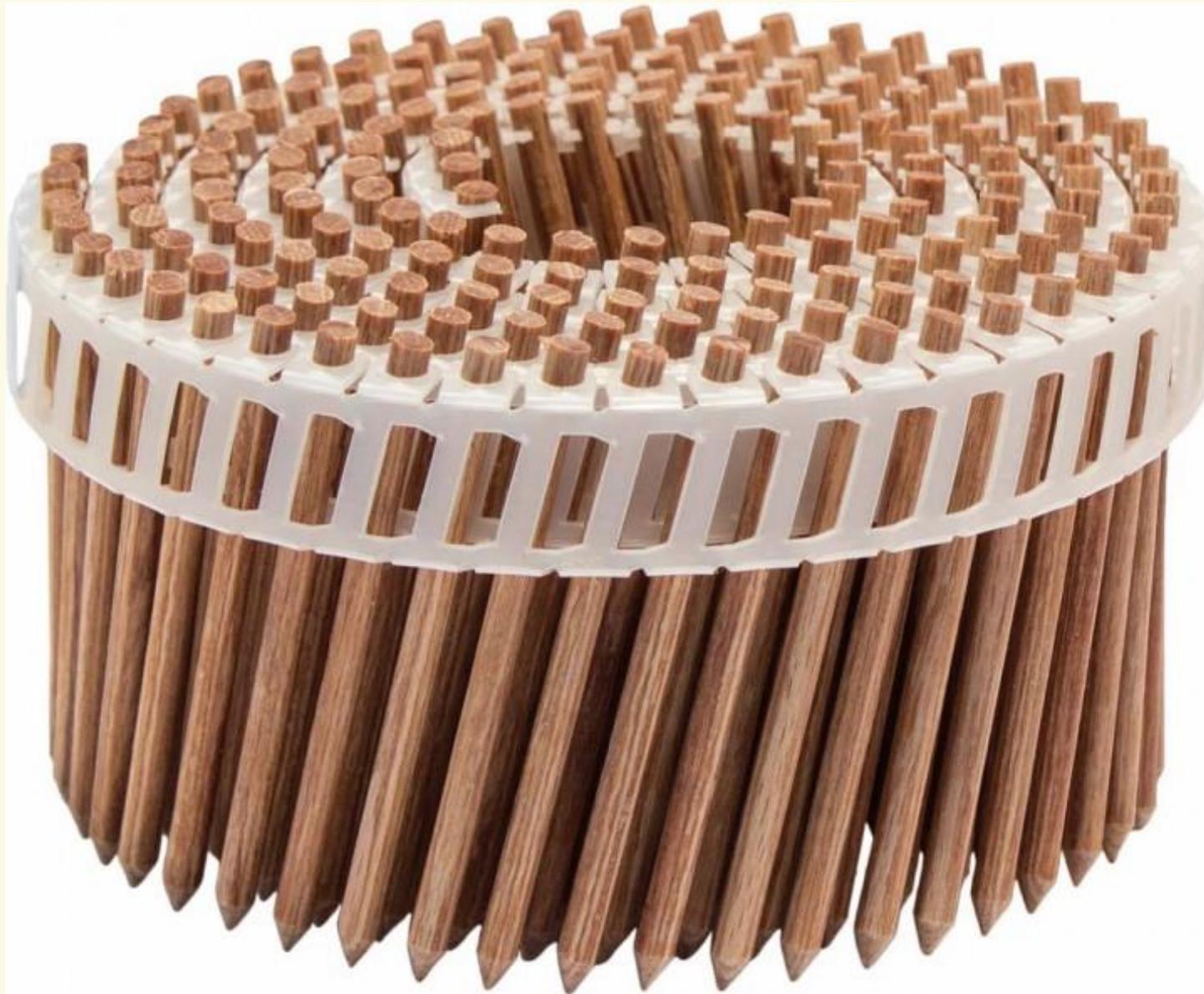


KUKA

KUKA

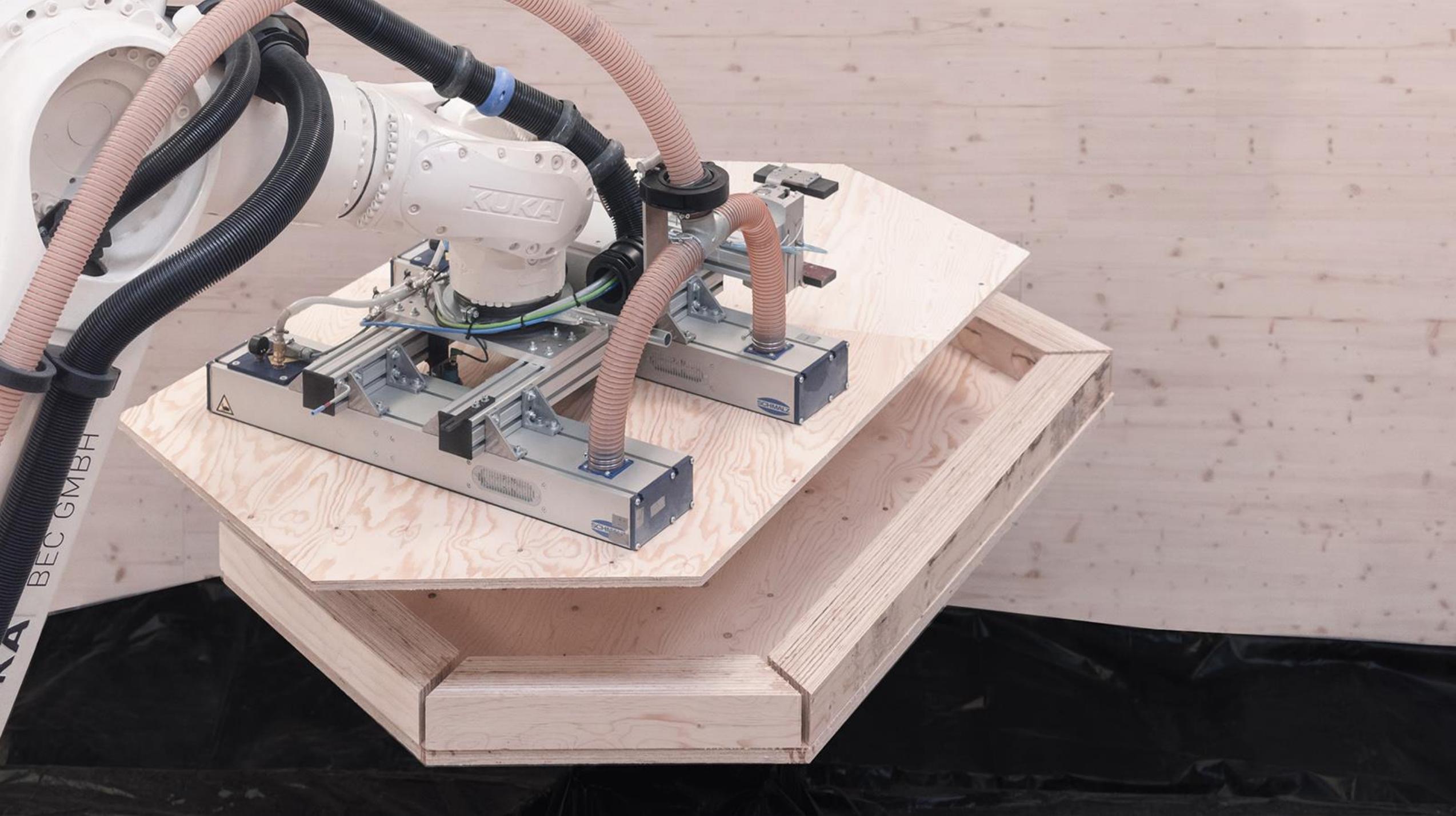
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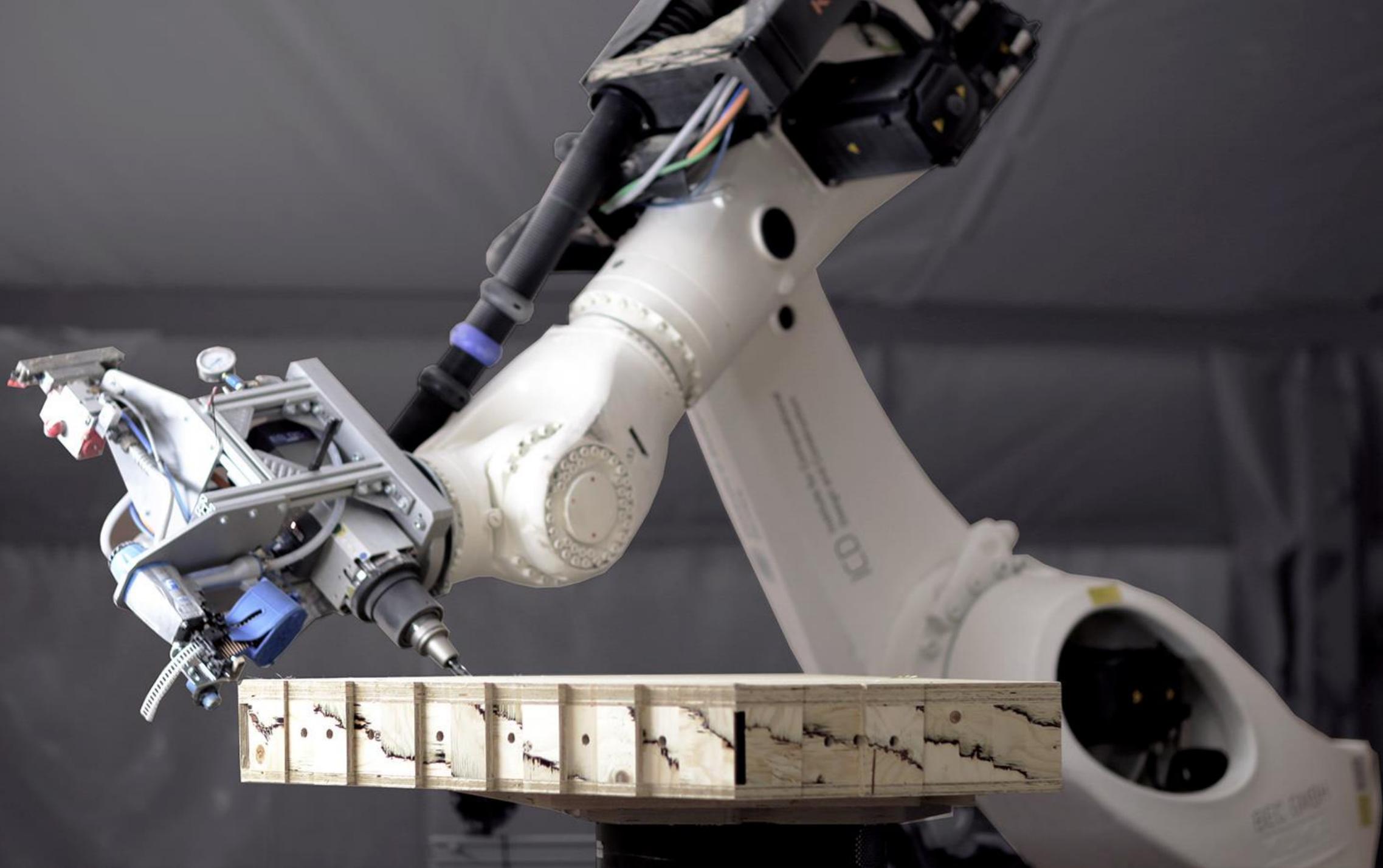
KUKA BEC GMBH

KUKA

SCHUNK

SCHUNK

SCHUNK





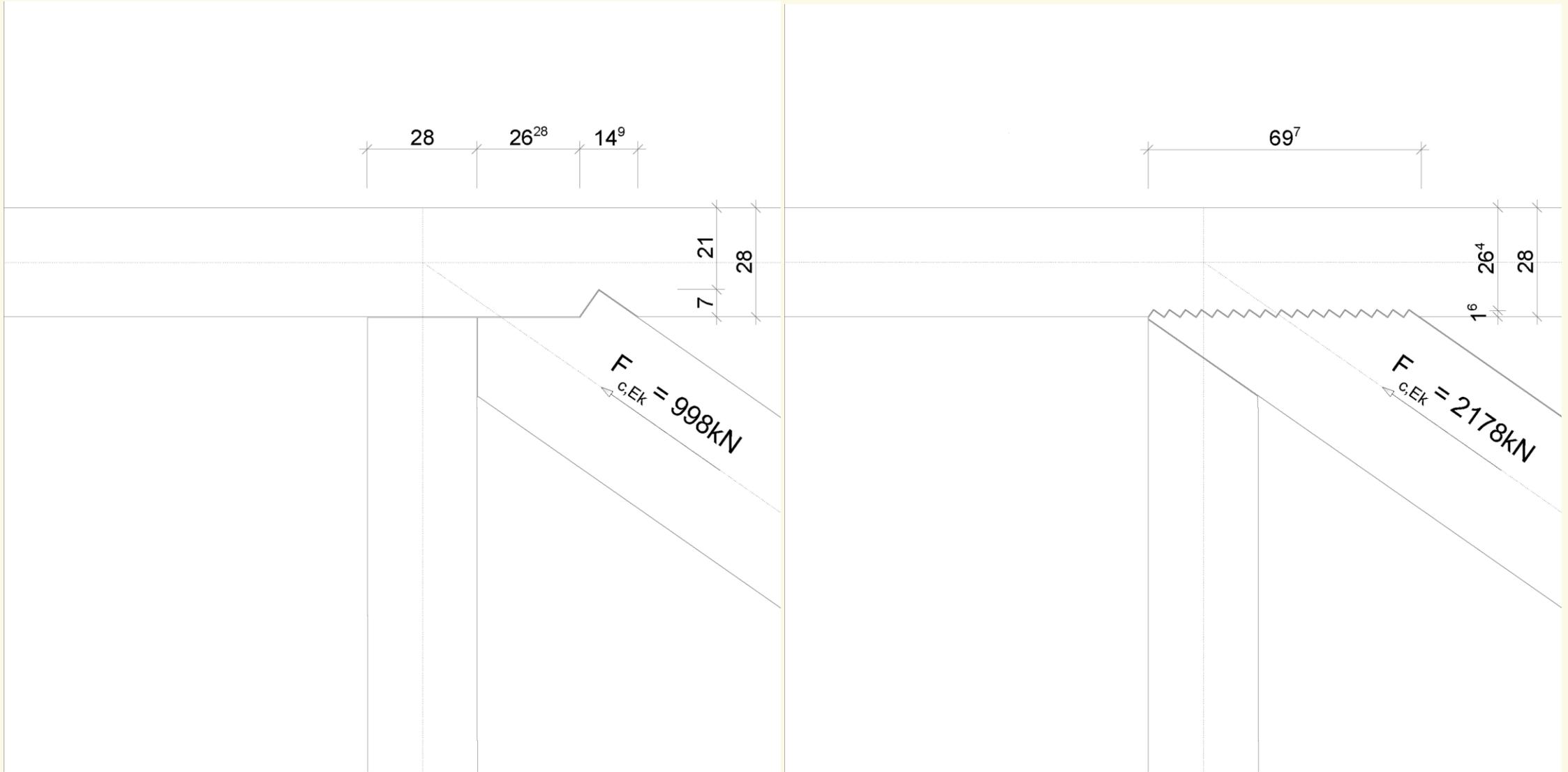


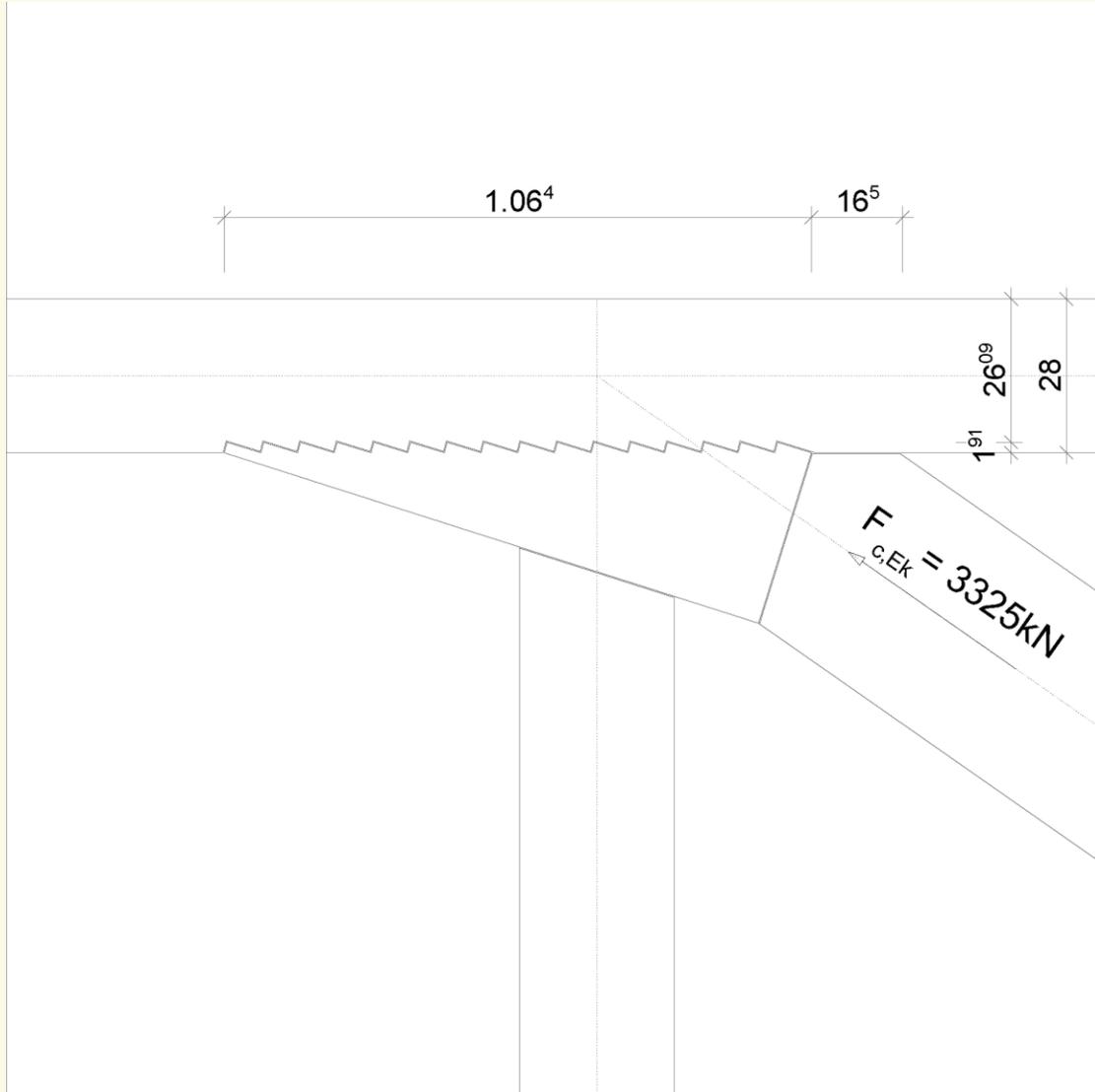






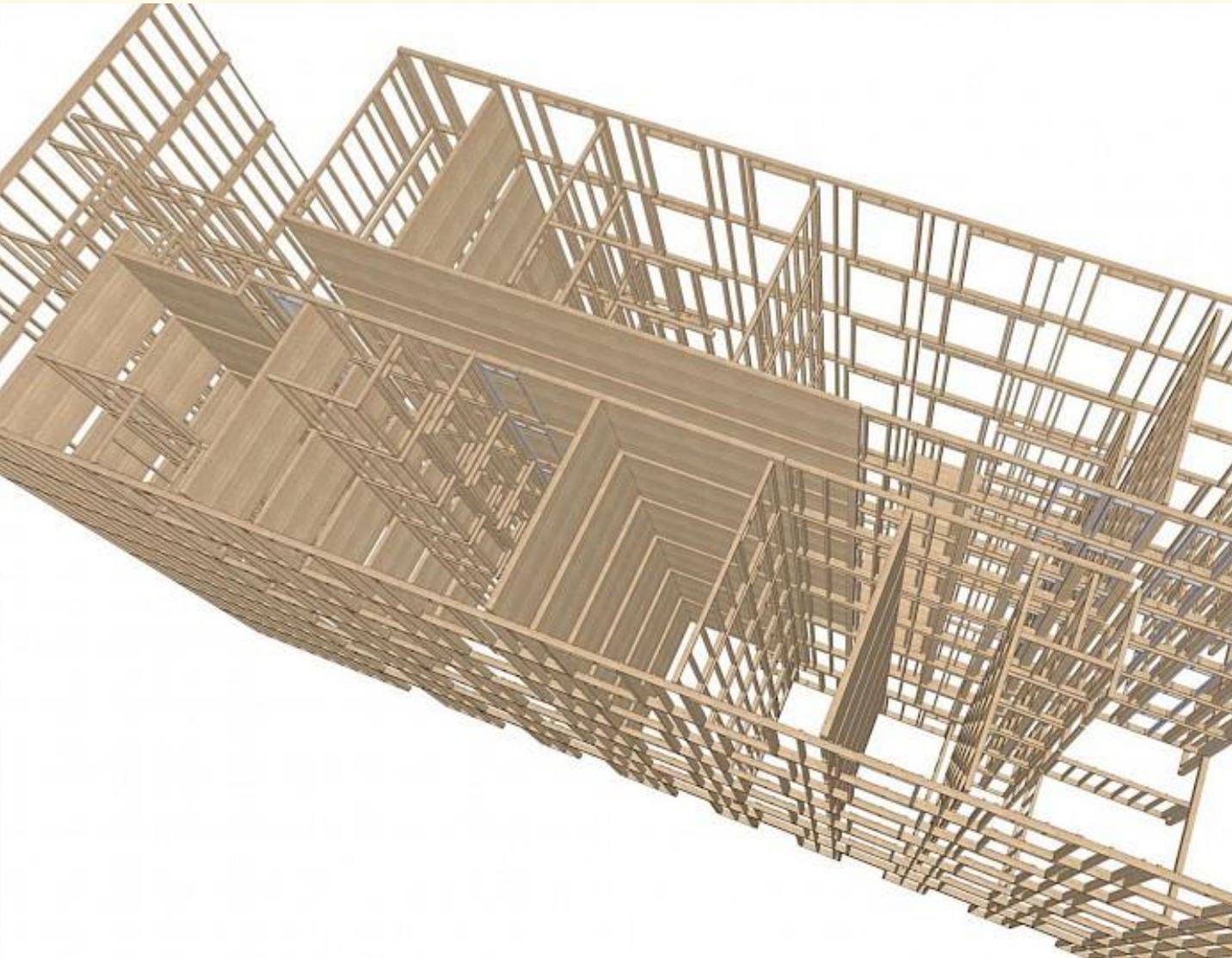






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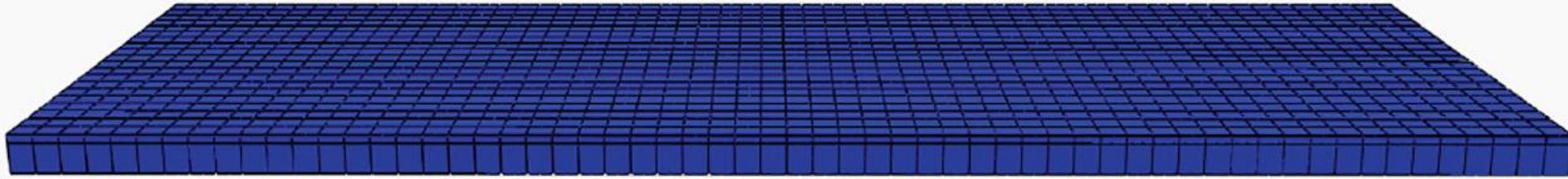
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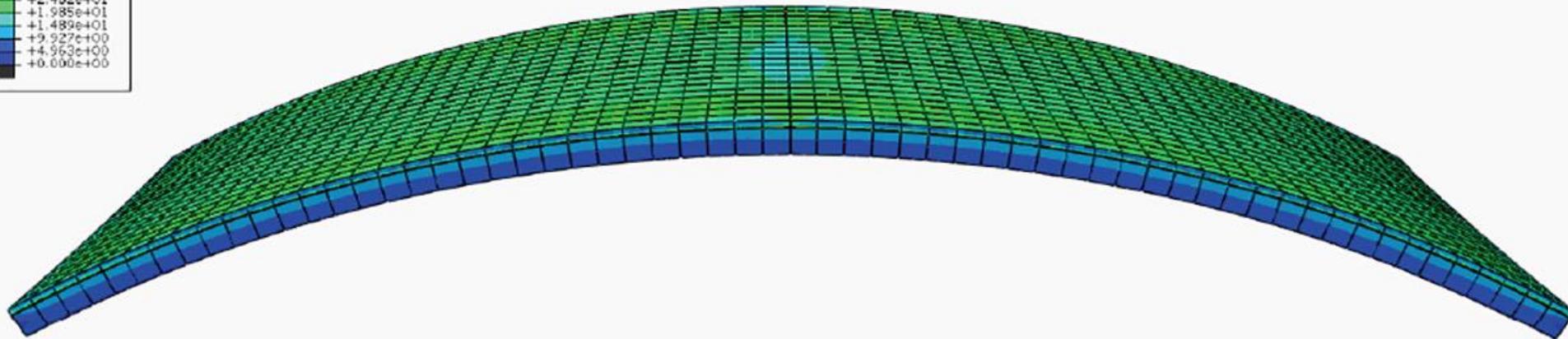
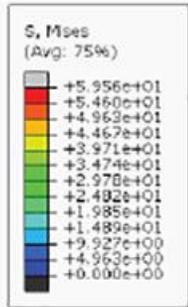
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22 % WMC



12 % WMC

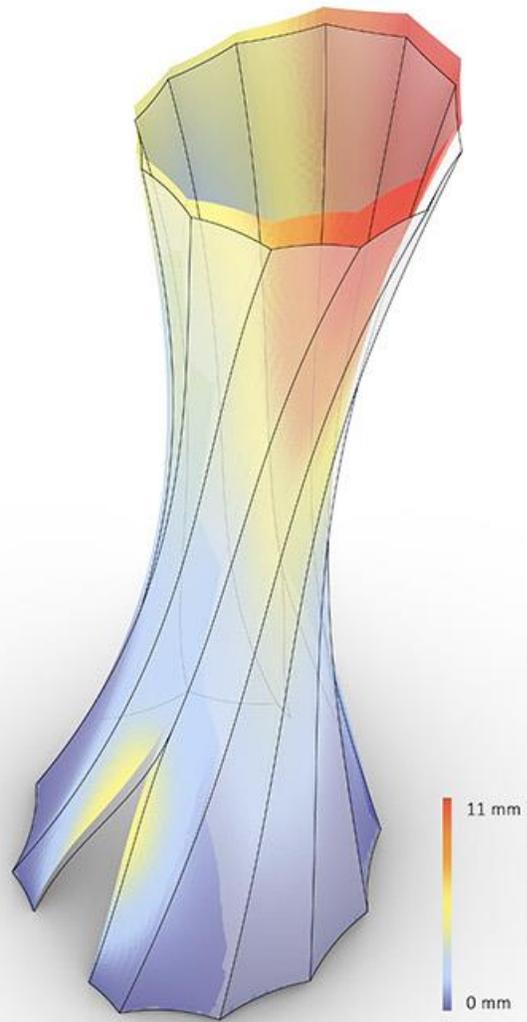




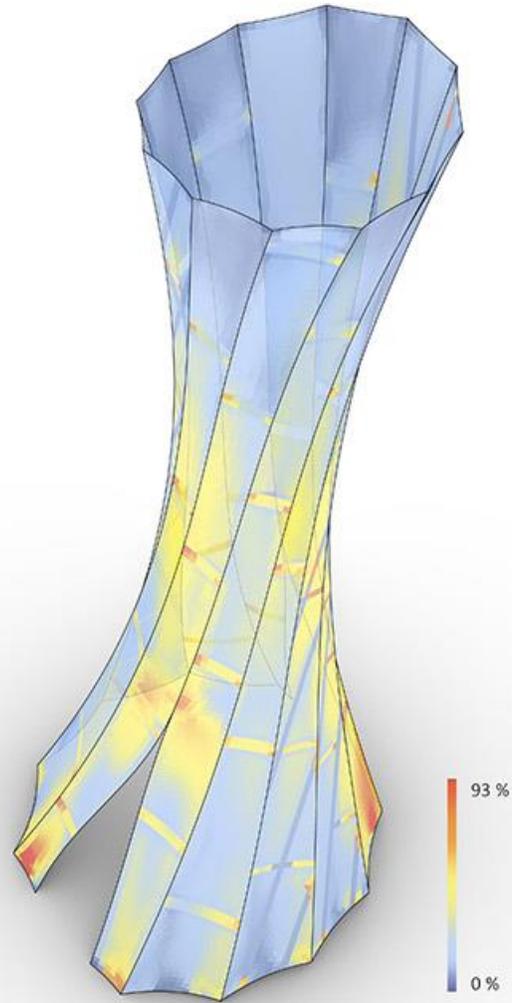
22 % WMC



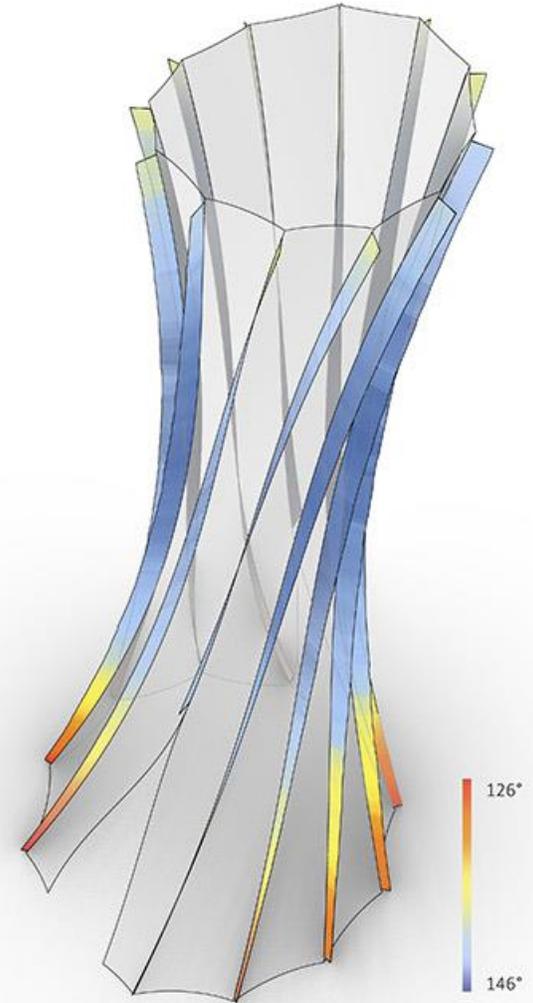
12 % WMC



DEFORMATIONS



CLT UTILISATION



CONNECTION ANGLES











Endfolie

*“The way we build in the future,
will decide our planets fate.”*

(Climate scientist Hans Joachim Schellnhuber, former Director of the PIK - Potsdam Institute for Climate Impact Research)

30% of the global energy and 40% of the global resources are currently consumed
by the building sector!

WE HAVE A LOT TO DO!



Baden-Württemberg

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 Thank you for your attention!

jan.bulmer@mlr.bwl.de | +49 711 123 1054 | +49 172 253 44 26

