EN

HASSLACHER NORICA TIMBER

From **wood** to **wonders.**

International

# Glulam & CLT References

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## Austria

Sachsenburg

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Kleinheubach

Magdeburg

Schmallenberg

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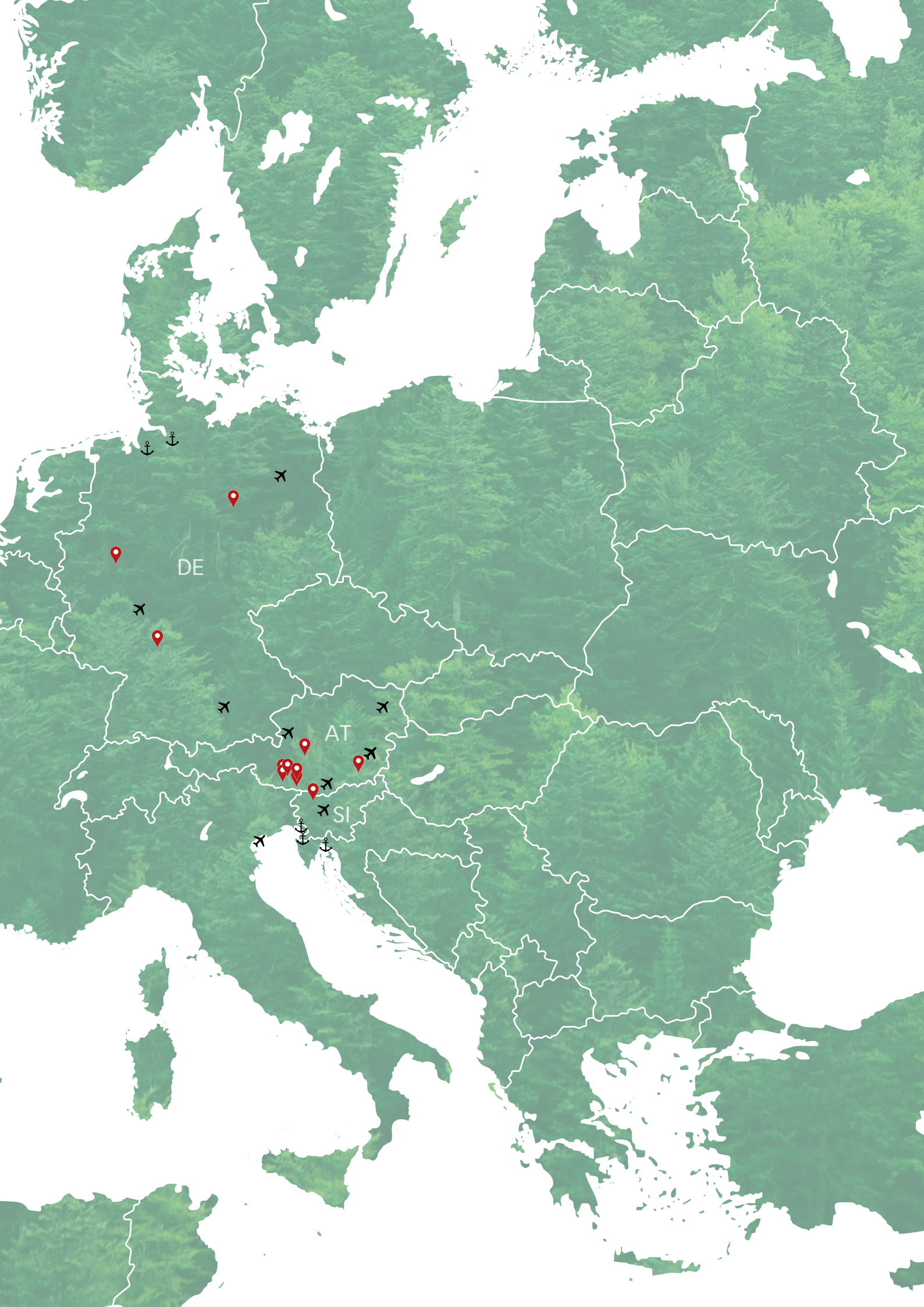
Ea

Legutio


**AT** | Klagenfurt, Graz, Salzburg, Vienna; **IT** | Venice;
**DE** | Munich, Frankfurt, Berlin; **SI** | Ljubljana; **ES** | Bilbao;

**DE** | Hamburg, Bremerhaven; **IT** | Trieste; **SI** | Koper; **HR** | Rijeka; **ES** | Bilbao;


DE
AT
SI

# Capacities

## Bjergsted Financial Park

1,000,000 m³
Sawn timber

150,000 m³
Surfaced timber

120,000 m³
Structural finger jointed solid timber & GLT®

400,000 m³
Glued laminated timber

150,000 m³
Cross laminated timber

1,200,000 m²
Formwork panels

2,000,000 units
Pallets & packaging solutions

100,000 t
Pellets

320 GWh
Heat

110 GWh
Electricity





Quantities produced in 2022

# Glued laminated timber

High-quality glued laminated timber is characterised by the high load-carrying capacity, dimensional stability and formability of the timber components. Glued laminated timber is available in straight and curved shapes, thereby opening the door to virtually limitless design freedom in timber construction.

# Glued laminated timber

## Special components

In our role as a producer that also serves as consultant, we are available to support the development of a building project with our excellent product quality. From consulting and CAD planning to static design. We are able to offer large spans and various support systems. Our glued laminated timber special components are produced at the Hermagor and Kleinheubach sites.

# Cross laminated timber

Cross laminated timber is a solid, multi-layered building material made of wood. Thanks to its excellent structural and mechanical properties, this planiform wood material has excellent thermal insulation properties. It is able to dissipate loads in several directions.

## Tianfu Agricultural Expo
Chengdu | CN

# References

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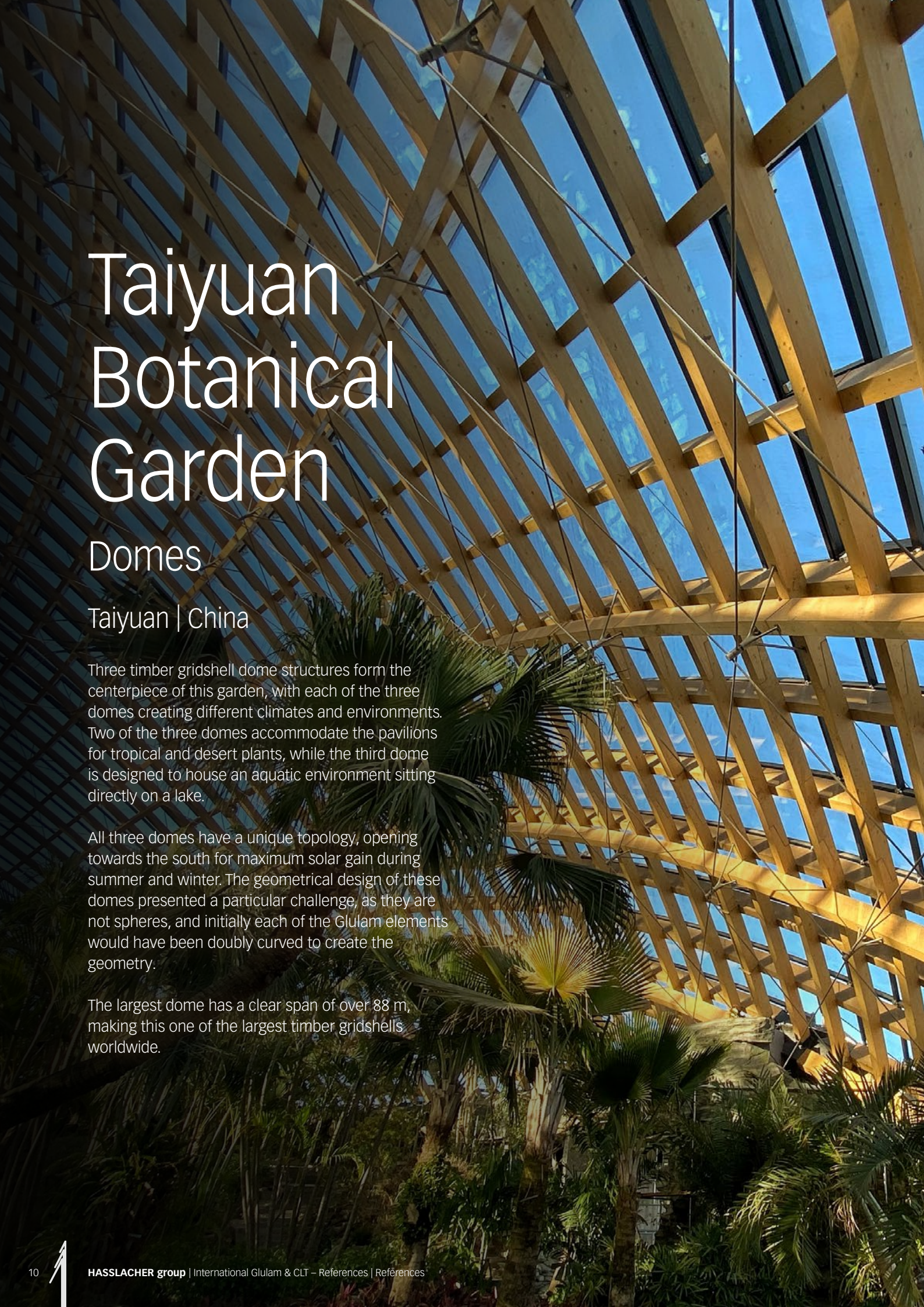


# Taiyuan Botanical Garden

## Domes

### Taiyuan | China

Three timber gridshell dome structures form the centerpiece of this garden, with each of the three domes creating different climates and environments. Two of the three domes accommodate the pavilions for tropical and desert plants, while the third dome is designed to house an aquatic environment sitting directly on a lake.

All three domes have a unique topology, opening towards the south for maximum solar gain during summer and winter. The geometrical design of these domes presented a particular challenge, as they are not spheres, and initially each of the Glulam elements would have been doubly curved to create the geometry.

The largest dome has a clear span of over 88 m, making this one of the largest timber gridshells worldwide.

© StructureCraft (1) © CreatARLight Chaser for Taiyuan StructureCraft - SKF for Tianfu (3)

## Project information

**Location**
Taiyuan, China

**Year of construction**
2019-2020

**Architect**
Delugan Meissl Associated Architects

**Products used**
Glued laminated timber special components, glued laminated timber

# Taiyuan Botanical Garden

## Restaurant and Tea-House

### Taiyuan | China

A botanical garden of gigantic proportions is being built in the Chinese province of Shanxi, close to the city of Taiyuan with its population of four million. The restaurant's design is similar to that of traditional Chinese temples and reminiscent of the wooden structures of a Chinese pagoda. After several studies aimed at putting the structure on a contemporary and economically sensible fundation, a shifted wooden structure made of stacked glued laminated timber elements was established as the main supporting structure of a very attractive and atmospheric space.

Embedded in the landscape, the geometry of the restaurant is both detached and extends onto the lake. The restaurant consists of 750 m³ straight glulam beams, which were manufactured at the HASSLACHER Group's location in Magdeburg. The restaurant and tea house are right next to the Taiyuan Domes, which are home to the Botanical Garden.

© StructureCraft (4)

## Project information

**Location**
Taiyuan, China

**Year of construction**
2019

**Architect**
Delugan Meissl Associated Architects

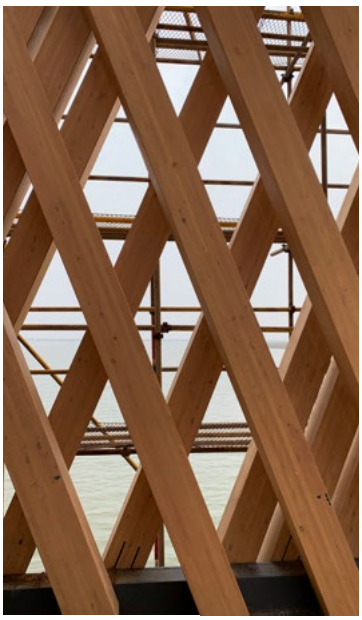
**Products used**
750 m³ glued laminated timber made of spruce

# Shanghai Bridge

## Shanghai | CN

At the end of the 19th century, Shanghai developed into a cosmopolitan city. Today, the Chinese metropolis – with its more than 26 million citizens – is the most important industrial city in China and one of the largest cities in the world. Shanghai is also a unique place of art and cultural traditions that are often forgotten. This is also true of China's timber construction tradition.

Now, it is experiencing a renaissance, especially in Shanghai along the Yangpu River. For some years now, small kiosks, restaurants, exhibition spaces, galleries and, in 2020, after only three months of construction, a bridge made of wood have been built along this stretch of water. 220 m³ of glued laminated timber made of larch were used to ensure the construction's durability. The new bridge over the Yangpu River is also the first wooden bridge of its kind in China.



## Project information

**Location**
Shanghai, China

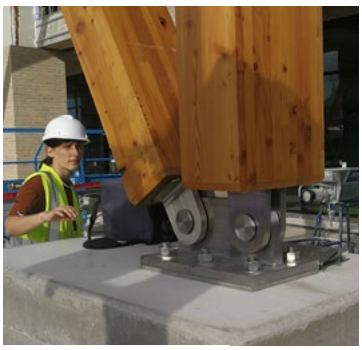
**Year of construction**
2020

**Products used**
220 m³ glued laminated timber made of larch

# The Soto Office Building

## San Antonio Texas | US

The 6-storey Soto Office Building is San Antonio's first mass timber project. The building has 5 storeys of timber structure, with more than 11,000 m², over 1 storey of concrete. DLT (dowel laminated timber) was used for the exposed ceiling and roof construction and these will be supported by a glulam post and beam frame. This supporting construction was made of glued laminated timber with complete CNC work, pre-assembled steel parts and coatings.





## Project information

**Location**
San Antonio Texas USA

**Year of construction**
2019

**Architect**
Design Architect - Lake Flato; Architect of Record - BOKA Powell

**Products used**
Pre fabricated glued laminated timber with complete CNC, pre-assembled steel parts and coating.


# Marche de Sainte-Foy

## Quebec | CA

The striking wavelike structure of the roof construction is what makes this building, designed to be a Marketplace hall, remarkable. A total of approximately 300 m³ of glued laminated timber, including 23.5 meter long curved glulam beams with pre-installed steel connections and surface finish were delivered to Quebec City, Canada. A further highlight was that the curved beams were shipped to Canada by „break bulk", requiring careful packaging measures to ensure a safe and undamaged transport.



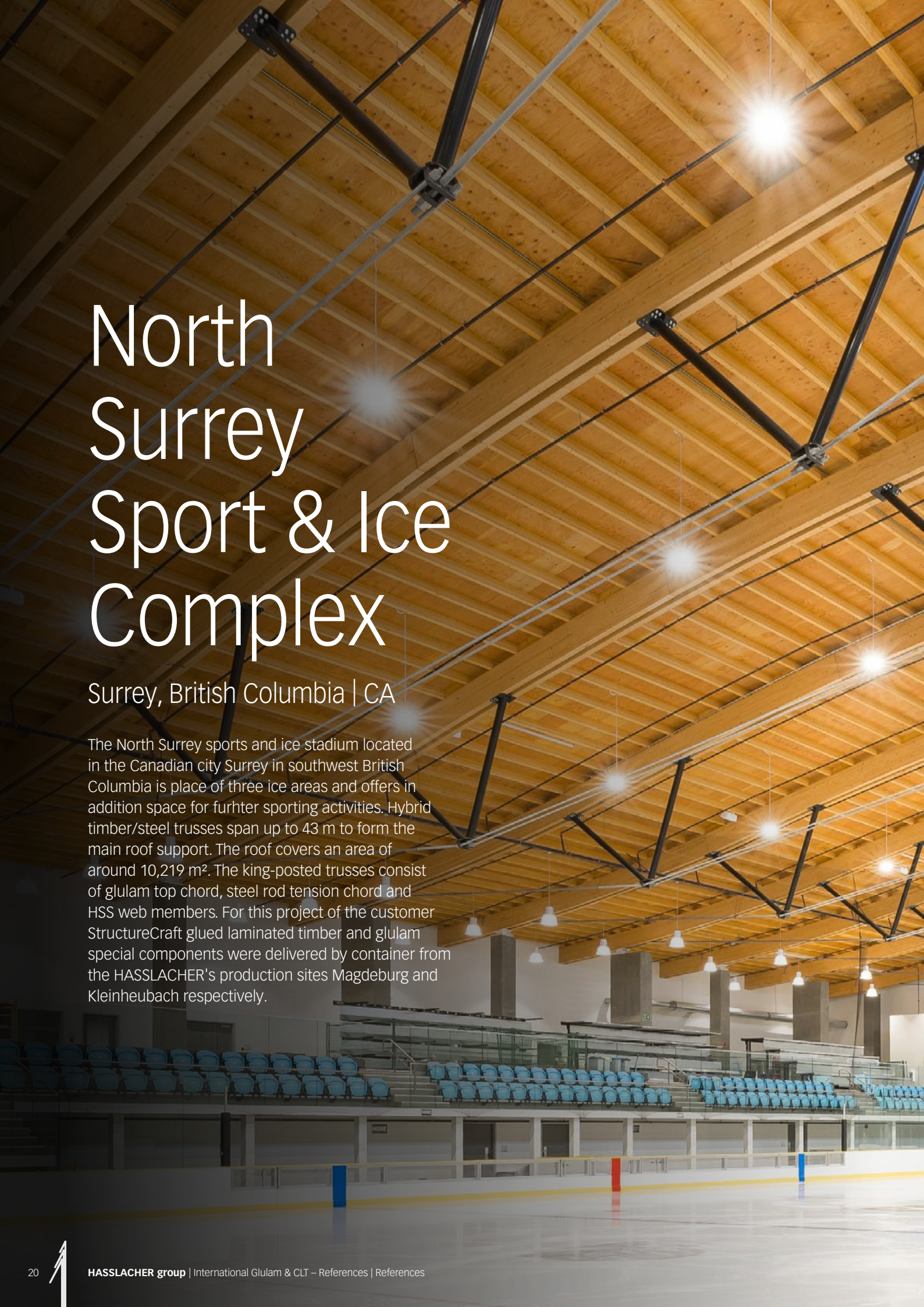
## Project information

**Location**
Quebec, Canada

**Year of construction**
2020

**Architect**
Fugère Architecture

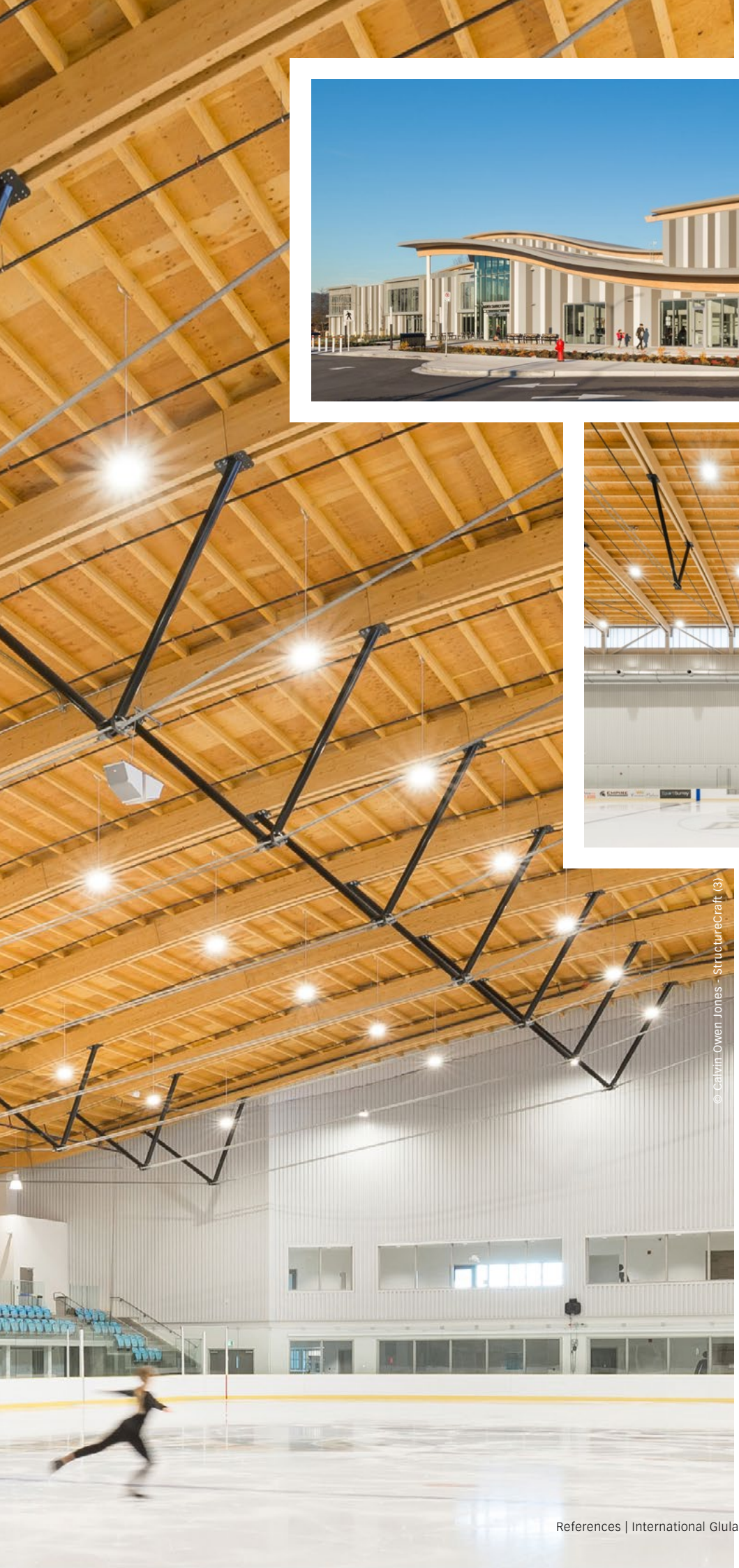
**Products used**
Glued laminated timber



# North Surrey Sport & Ice Complex

## Surrey, British Columbia | CA

The North Surrey sports and ice stadium located in the Canadian city Surrey in southwest British Columbia is place of three ice areas and offers in addition space for furhter sporting activities. Hybrid timber/steel trusses span up to 43 m to form the main roof support. The roof covers an area of around 10,219 m². The king-posted trusses consist of glulam top chord, steel rod tension chord and HSS web members. For this project of the customer StructureCraft glued laminated timber and glulam special components were delivered by container from the HASSLACHER's production sites Magdeburg and Kleinheubach respectively.



© Calvin Owen Jones - StructureCraft (3)

## Project information

**Location**
Surrey, British Columbia, Canada

**Year of construction**
2019

**Architect**
Francl Architecture

**Products used**
Glulam,
glulam special components

# HoHo

## Vienna | AT

The 24-storey building, with its 84 meters, is one of the tallest wooden buildings in the world. The HASSLACHER Group supplied 777 blockglued glulam columns of the highest strength class in visual quality. Furthermore, CLT wall elements with „Excellentsurface" were produced and further refined by means of a double surface treatment. In addition to this, all CLT elements were delivered with pre-installed windows and vapor barrier.

© cetus Baudevelopment / kiko

## Project information

**Location**
Vienna, Austria

**Year of construction**
2019

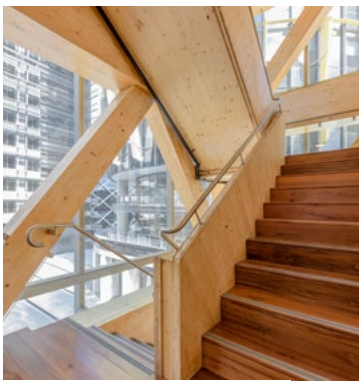
**Architect**
Rüdiger Lainer + Partner Architekten ZT GmbH

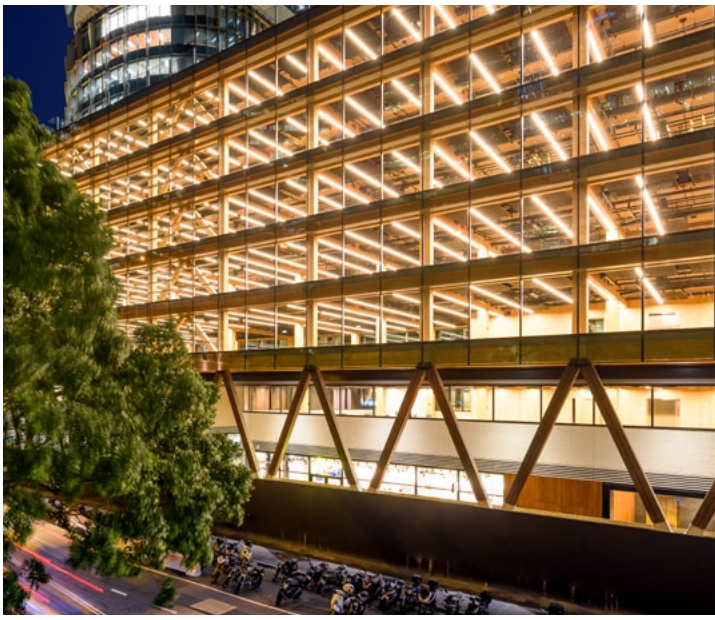
**Products used**
365 m³ glued laminated timber, blockglued; 1,600 m³ CLT wall elements with Excellentsurface and two times water-based coating

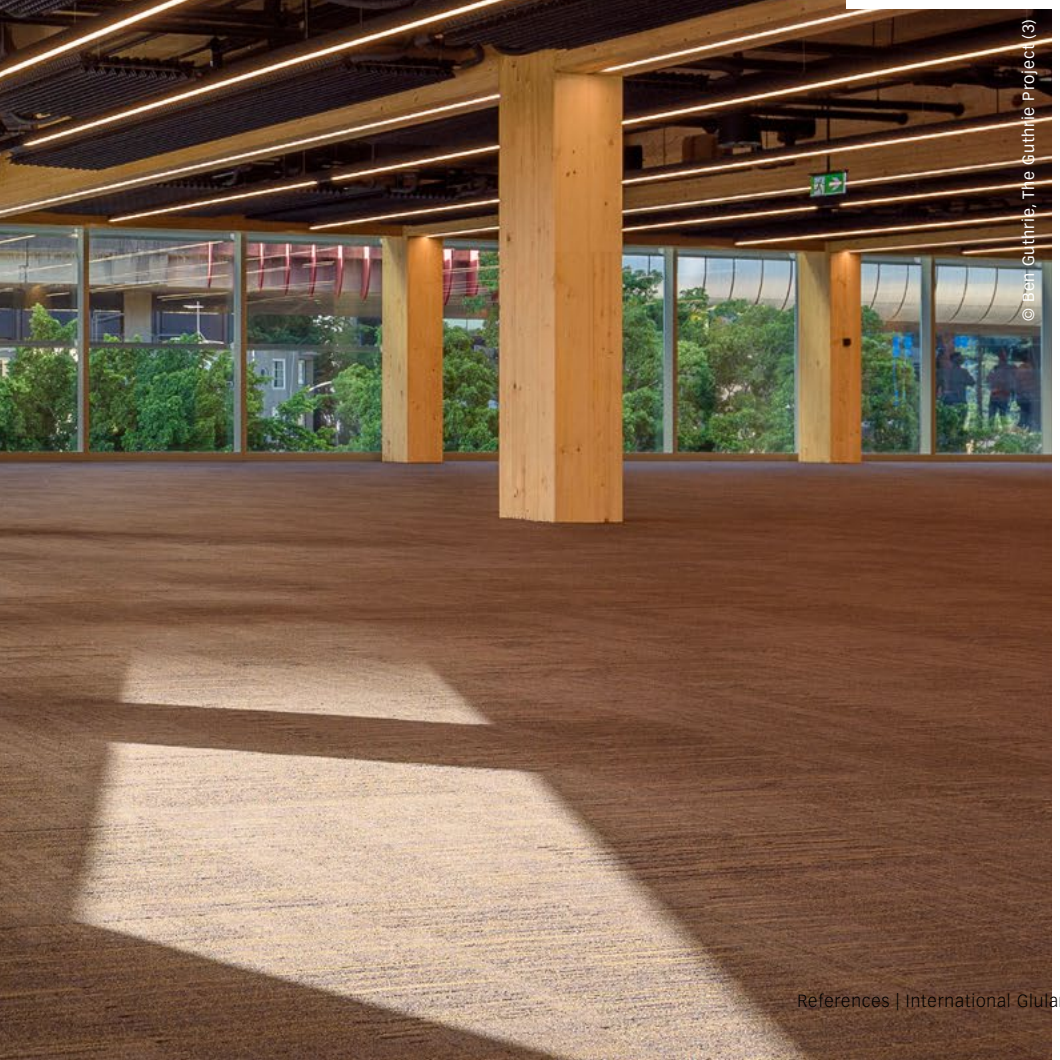
# International House

## Barangaroo South | AU

Timber construction for the „International House Sydney", a seven storey office building with approx. 7,910 m² floor area within the Barangaroo South area. Timber species: spruce, beech Total volume: 950 m³ glulam and more than 2,000 m³ of CLT (delivered by Stora Enso Ybbs CLT mill) Ground floor columns made of 'Ironbark' Product innovation by HESS TIMBER: Composite beams enabling for the first time large openings in a glulam beam without losing load-bearing capacity or clear height and furthermore no need of further reinforcement.HESS TIMBER has realised numerous large-scale tests on behalf of the main contractor and with two material testing institutes.







© Ben Guthrie, The Guthrie Project (3)

## Project information

**Location**
Sydney, Australia

**Year of construction**
2016

**Architect**
Architecture office Tzannes Australia, Co-design Directors Alec Tzannes and Jonathan Evans

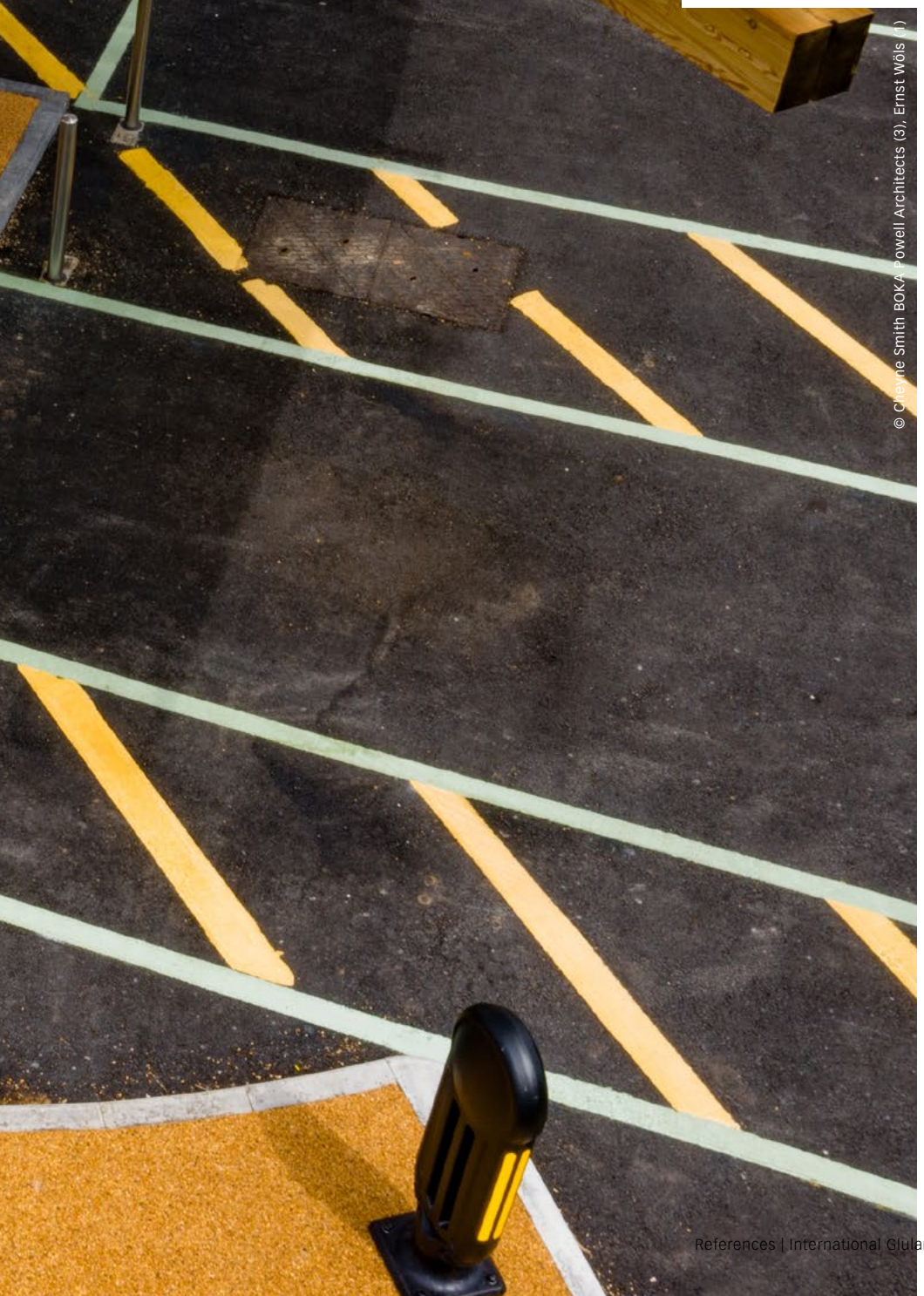
**Products used**
HASSLACHER BauBuche, 950 m³ glued laminated timber

# K:Port™ Electric Vehicle Charging Station

## Portishead | GB

The construction of the first K:Port™ Electric Vehicle Charging Station (Portishead Marina Electric Vehicle Charging Hub) provides the coastal town of Portishead, close to Bristol, with a glimpse of future mobility. In addition to the latest generation of rapid chargers and a highly sustainable canopy made of glued laminated timber, the K:Port™ includes further special features such as an integrated photovoltaic roofing system and a holistic planting concept that enables a sustainable drainage strategy. The design, by the renowned British architectural practice Hewitt Studios, therefore simultaneously combines two current megatrends of the 21st century: electro mobility and sustainable timber construction.

The canopy of the charging station for electric cars, intended for four vehicles, is made of long-lasting larch glued laminated timber of the highest visual quality. It consists of a central support element with four cantilevers connected to it, with roof purlins resting on them. The architect's desire for a refined visual appearance with „invisible" connections between supporting elements, as well as the particular demands of a timber structure, required special consideration in terms of design and structural engineering. Consequently, the crosswise extending cantilevers are connected to the central pillar element with a cleverly concealed slotted sheet metal and dowel detail. Special attention has also been paid to the corrosion protection of the steel components due to the project location close to the Bristol Channel.





## Project information

**Location**
Portishead, Großbritannien

**Year of construction**
2021

**Architect**
Hewitt Studios LLP

**Products used**
Glued laminated timber made of larch

# Shell Electric Vehicle Charging HUB

## Fulham, London | GB

The market share of vehicles with electric drives is steadily increasing worldwide. Therefore, a conventional Shell petrol station in the London borough of Fulham has been transformed into a so-called „EV Hub", a charging station for electric vehicles. The „EV Hub" is the first of its kind in the UK and has 10 high-performance, undercover charging points.

For the canopy, 50 m³ of weather-resistant larch glued laminated timber and around 60 m² of cross laminated timber were used. The larger of the two roofs house 7 vehicles and measures 22 m in length. The smaller, opposite roof construction houses 3 vehicles and measures around 10 m in length. Photovoltaic (PV) panels are mounted on the two roofs, which cantilever out about 7 m, ensuring that the charging process is powered exclusively by renewable energy. At the base points, the glulam supports were anchored by means of stainless-steel slotted plates concreted into the ground. The system is braced by cross laminated timber panels. The entire timber construction was assembled in just a few days, as the individual frames were already prefabricated in the factory and transported to the construction site in their entirety. This ensured efficient assembly on site.






## Project information

**Location**
Fulham, London, Great Britain

**Year of construction**
2021

**Architect**
Bowman Riley

**Products used**
Glued laminated timber made of larch

# RHS Garden Bridgewater „Welcome Building“

## Worsley | GB

Designed as an open space, the „Welcome Building“ on the grounds of the Royal Horticultural Society (RHS) in Worsley, Great Britain, impresses with the use of various timber construction elements in the roof structure. In addition to glued laminated timber columns, the construction consists of modular cassette elements with diagonally arranged internal grillages and straight outer glued laminated timber rafters. Overlying cross laminated timber elements serve as roof ends and as bracing for the individual cassettes. HESS TIMBER, a member of the HASSLACHER Group, was responsible for the engineering, production, delivery of the timber components and assembly of the roof structure. The project has already received several national and international awards for its sustainable architecture.

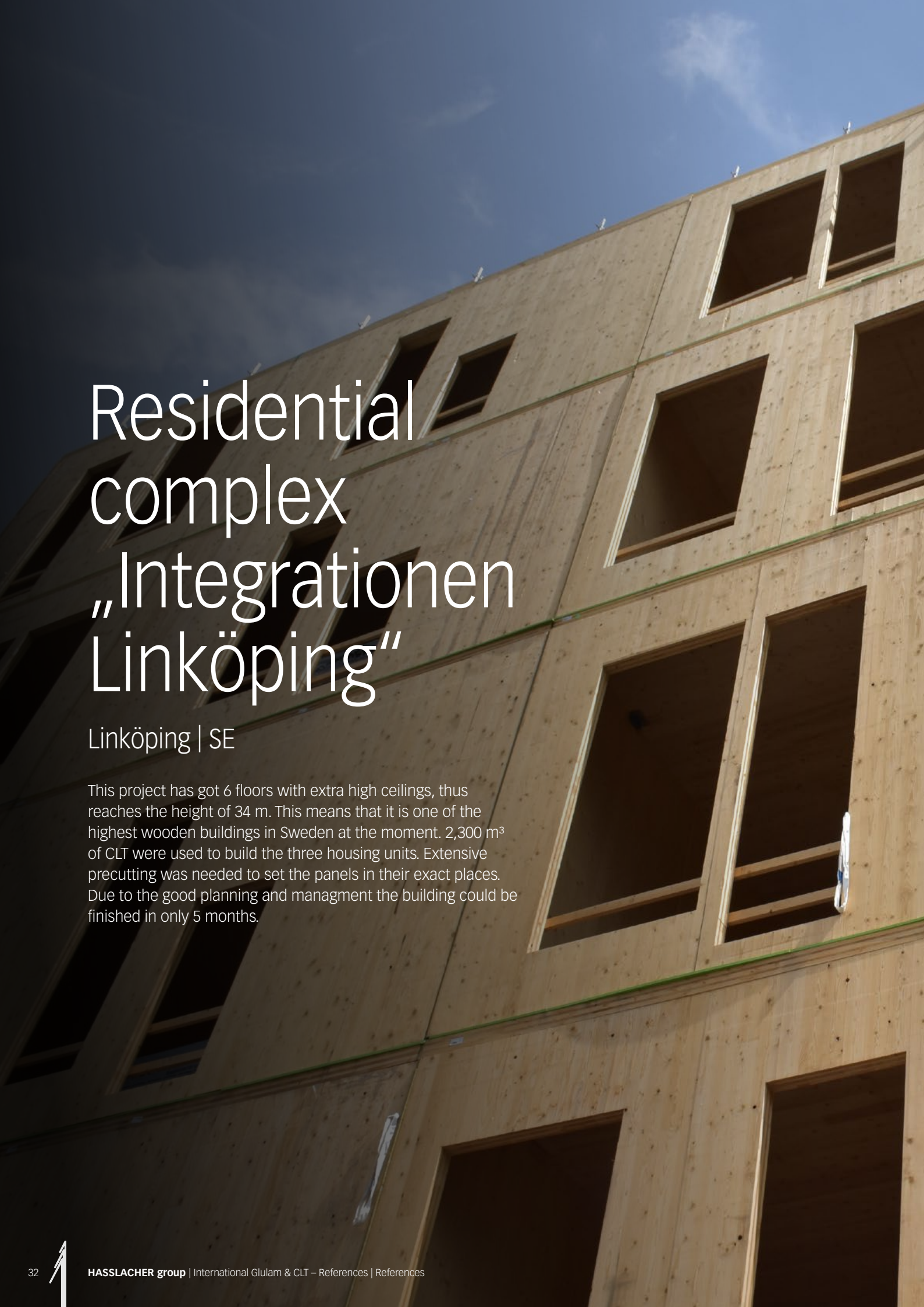

© Peter Cook (3), Hodder+Partners (1)


## Project information

**Location**
Worsley, Great Britain

**Year of construction**
2020

**Products used**
250 m³ glued laminated timber

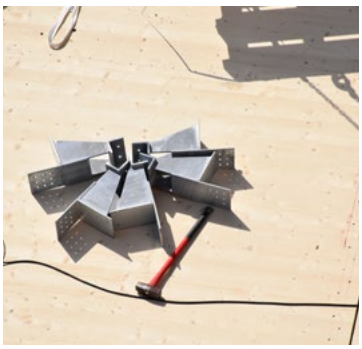


# Residential complex „Integrationen Linköping“

## Linköping | SE

This project has got 6 floors with extra high ceilings, thus reaches the height of 34 m. This means that it is one of the highest wooden buildings in Sweden at the moment. 2,300 m³ of CLT were used to build the three housing units. Extensive precutting was needed to set the panels in their exact places. Due to the good planning and managment the building could be finished in only 5 months.





## Project information

**Location**
Linköping, Sweden

**Year of construction**
2018

**Architect**
Sweco

**Products used**
HASSLACHER CLT
Glued laminated timber

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HASSLACHER
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