



**HESS**  
**TIMBER LIMITLESS**  
A MEMBER of HASSLACHER group

TIMBER  
LIMITLESS



Building with wood provides enormous potential worldwide, which we can only reveal together. The genuine passion for this high-tech material encompasses our team. Out of this passion, we never stand still and redefine the limits of technical feasibility. Only in this way does development take place which also leads to global rethinking - towards building with wood.



– Managing Director Rensteph Thompson –



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## VALUES

HESSTimber assumes responsibility for our environment. With every realised timber construction we contribute to environmental protection as the wood used in construction stores the carbon that the tree has removed from the atmosphere. We are also committed to responsible sourcing of raw materials solely from sustainably managed forests. We guarantee this as a **MEMBER** of **HASSLACHER** group.





// Meeting the client and the architect at the beginning of a project is essential in order to gain a comprehensive understanding of the architectural and technical requirements early on. By doing so, we can use our experience and expertise to offer optimised and cost-reducing solutions in consultation with the client team. //

– Managing Director Markus Golinski –

## CUSTOMERS

- + Architects
- + Project developers
- + General contractors
- + Owners
- + Planners



## INTERNATIONAL HOUSE SYDNEY

In Sydney, Australia, the International House Sydney was built in 2016. It is Australia's first commercial office building with a wooden structure.





# ECONOMIC UPSWING & URBANIZATION



# ECONOMIC UPSWING

Wood has been experiencing a real renaissance as the most natural building material in the world for several years now. As a leading and innovative timber construction company, HESS TIMBER has accompanied this exciting development from the beginning and fostered it through a constant pioneering spirit.

## HISTORY

1876 | Company foundation  
by Peter Hess

1952 | Production of the  
first glulam beams

2005 | Takeover of Hess Holzleimbau-  
Technologie GmbH & Co. KG  
and founding of the company  
HESSWOHNWERK GmbH & Co.  
KG by Mathias Hofmann

2009 | Extensive tests at the MPA  
Stuttgart as a basis for the  
technical approval of the  
HESS LIMITLESS jointing system

1926 | Relocation to  
Miltenberg and  
the construction  
of a sawmill

1972 | Factory is extended, allowing  
the manufacture of single glulam  
components up to a maximum  
length of 42 metres

2006 | Implementation of  
Computerised Numerical  
Control (CNC) production with  
a 6-axis CNC portal portal

2010

Investments amounting to 2.5 million euros and the general technical approval for the HESS LIMITLESS jointing system was obtained

2012

Realisation of the D1 Tower project in Dubai, consisting of 4 free-formed roof structures

2013

Realisation of the Museum Fondation Louis Vuitton project in Paris

2015

Significant investments in new production technologies and the expansion of production halls

2017

Start of the integration into the HASSLACHER group

2018

Strategic reorientation at our location in Kleinheubach

# URBANIZATION

The world population continues to grow by approximately 250 people per minute. At the same time, cities and conurbations are conglomerating at unprecedented rates and the demand for buildings, industrial space, housing and infrastructure is increasing. To benefit from these changes, HESS TIMBER supports its customers and partners in realising construction projects with the most natural building material in the world. **Wood.**

1800

Global Population: 0.98 billion

1850

Global Population: 1.26 billion







Estimated Global Population: 9.77 billion  
66 % live in towns

2050

2015

Global Population: 7.38 billion  
54 % live in towns

1950

Global Population: 2.54 billion  
29 % live in towns

## HESS LIMITLESS

ENDLESS. STRONG. TRANSPORTABLE.

With the patented HESS LIMITLESS system, individual components are pre-fabricated in such a way that they can be assembled by our experienced experts into potentially endless components. This makes HESS LIMITLESS probably the most unique and innovative complete solution in this segment worldwide.







WHO WE ARE &  
HOW WE WORK





# WHO WE ARE

**HESS TIMBER** offers a unique range of services for architects, planners, and project developers. In addition to the standard services for roof and industrial buildings, the company has specialised in the planning and implementation of customised and architecturally sophisticated wooden structures with individual and complex shapes. In recent years, the company has realised some of the world's most spectacular wood construction projects, including the D1 Tower in Dubai, the Louis Vuitton Foundation Museum in Paris, and Europe's longest wooden footbridge in Georgia.

# HOW WE WORK

## PROJECT MANAGEMENT

HESS TIMBER handles complete "Design & Build" projects worldwide. Based on years of experience, we understand the importance of targeted professional and technical communication. Therefore, all our customers get an experienced project manager who accompanies them and serves as a central point of contact during the entire project.

## CONCEPT

At HESS TIMBER, the dialogue of all project participants begins in the design phase. We listen carefully to the expectations, requirements, and visions of the architects, planners or builders. Thus, cost-reducing concepts and technical optimisations can be worked out and developed together early in the project phase.

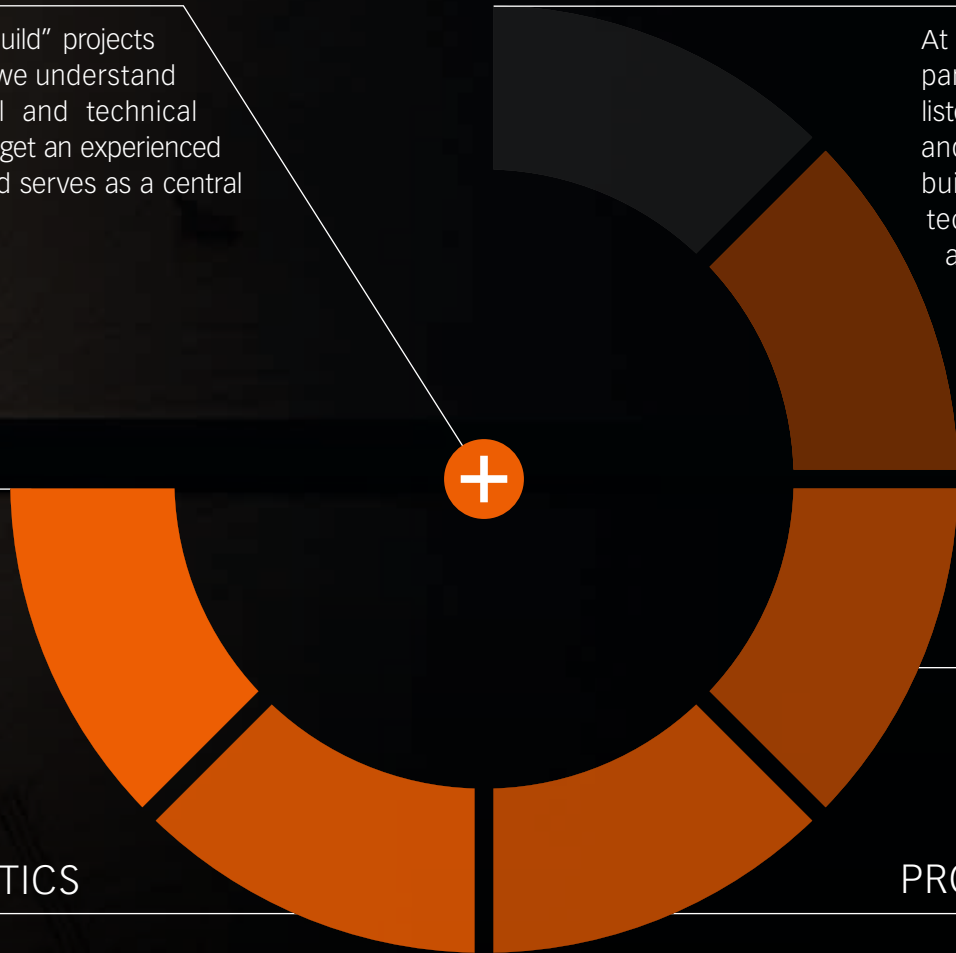
ASSEMBLY

LOGISTICS

PRODUCTION

STRUCTURAL ENGINEERING

DESIGN ENGINEERING





# HESS FREE FORM

TURNED. 3D. SHAPED.

By using HESS FREE FORM, we realise fascinating and limitless free-form structures, sculptures and building envelopes made of glulam. These structures typically consist of many differently formed individual components and require a holistic planning and production approach. HESS TIMBER has specialised in this field in recent years. As a pioneer in this segment, we master every step of the process. HESS TIMBER realises projects worldwide with HESS FREE FORM.







# REFERENCES



**CLIENT:**

Stadt Würzburg

**ARCHITECT:**

Anett-Maud Joppien and Henne Schönau Architekten GmbH

**CONSTRUCTION PERIOD:**

2017

**SERVICES:**

Structural Engineering | Shop drawing | Manufacturing  
Component delivery | Assembly

**WOOD SPECIES:**

Spruce

**VOLUME:**

72 m<sup>3</sup> glued laminated timber





# GRÜNDERLABOR ZDI MAINFRANKEN

WÜRZBURG | GERMANY

The Centre for Digital Innovations (Zentrum für digitale Innovationen) Mainfranken in Würzburg was completed and opened in 2017. It was funded by the Free State of Bavaria. The CDI Mainfranken serves the funding of digital start-ups in the Würzburg region. We are proud to have been involved in this project and contributed to supporting the funding scene in the region.





# BUNJIL PLACE

CITY OF CASEY | AUSTRALIA

Bunjil Place is an inner-city cultural and leisure centre in the metropolitan area of Melbourne. The architectural source of inspiration for the structurally free-formed foyer was the spiritual traditions of Aboriginal tribes of Boon Wurrung and Kulin People. At the centre of the symbolism is the protection of the community under the wings of Bunjil, a god of creation in the form of an eagle. HESS TIMBER was entrusted with the planning, production and delivery of the HESS FREE FORM glulam construction consisting of pre-assembled glulam and steelwork components. The onsite assembly took place under the supervision of a specialist operative from HESS TIMBER. This prestige project of a distinctive glulam construction has already won several national and international awards. At the same time, the project represents a milestone in the Australian construction industry. It is impressive proof of the potential of the building material wood.



**ARCHITECT:**

FJMT Sydney

**CONSTRUCTION PERIOD:**

2017

**SERVICES:**

Planning | Manufacturing | Component delivery  
Assembly supervision

**WOOD SPECIES:**

Spruce | Birch

**VOLUME:**

166 m<sup>3</sup> glued laminated timber



**ARCHITECT:**

innovarchi

**CONSTRUCTION PERIOD:**

2012

**SERVICES:**

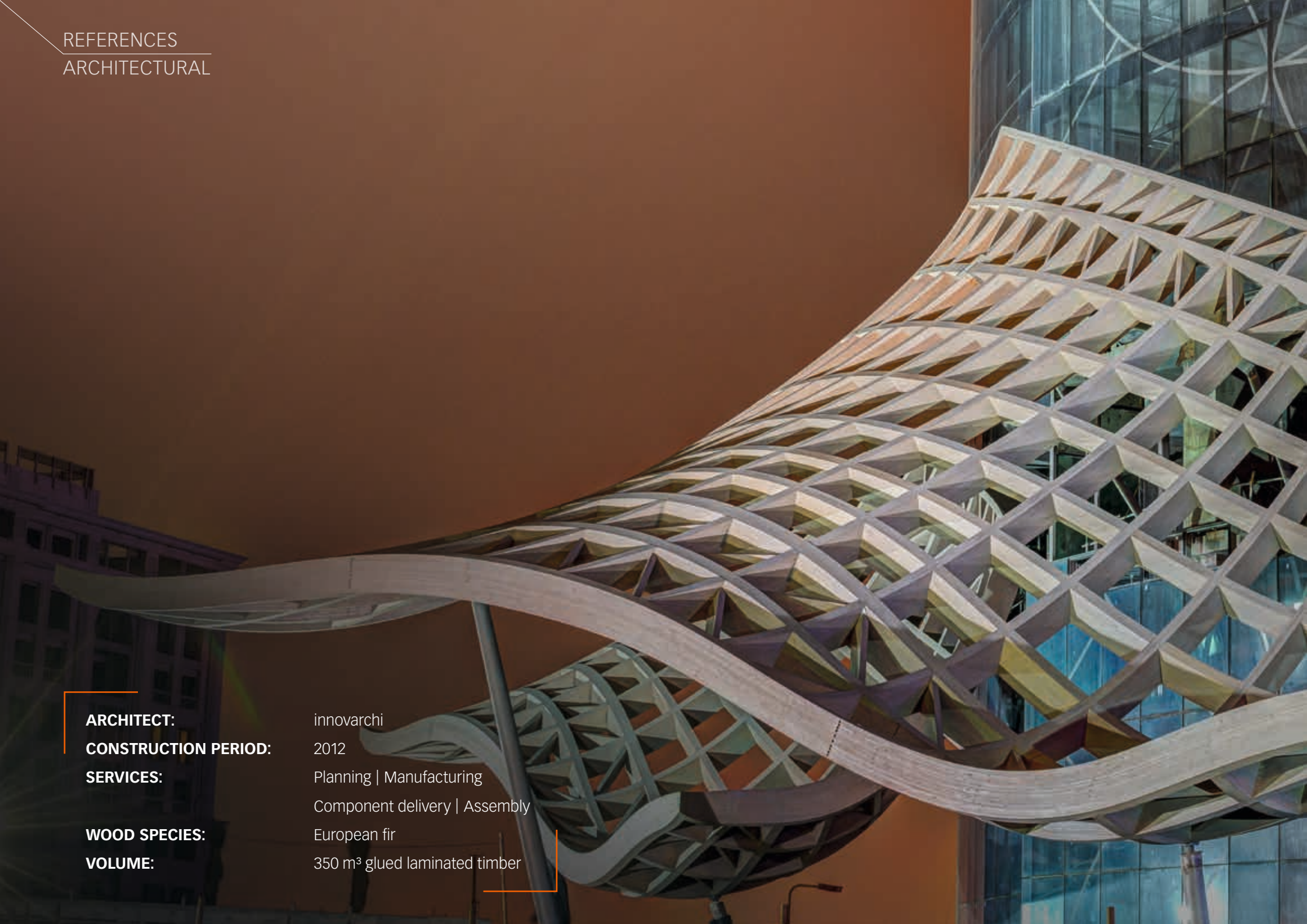
Planning | Manufacturing  
Component delivery | Assembly

**WOOD SPECIES:**

European fir

**VOLUME:**

350 m<sup>3</sup> glued laminated timber







# D1 TOWER DUBAI

DUBAI | UNITED ARAB EMIRATES

The four free-formed roofs of the D1 Tower are modelled as the petals of a flower. They serve as shading mediators between the air-conditioned interiors and the hot environment outside. The largest of the four roofs has a surface area of 600 m<sup>2</sup> and is unique due to the 370 different, individually manufactured elements. The other three roofs are identical, each has a total area of 370 m<sup>2</sup>. The D1 Tower itself is 284 metres high and has 80 floors. HESS TIMBER was commissioned with the planning of the free-formed roofs together with the engineering office Knippers Helbig. Following the planning, we were responsible for the complete production and delivery of the components as well as precise assembly on site. This made HESS TIMBER the first glulam company to realise such a project in Dubai.






# INTERNATIONAL HOUSE SYDNEY

SYDNEY | AUSTRALIA

In 2016, the country's first commercial wooden office building was built in Sydney in the district of Barangaroo South. This project marks not only a milestone in the history of HESS TIMBER but also in the Australian construction industry. The foundation for a trend-setting and novel way of building in the urban context was created. To meet the requirements of commercial buildings with complex installation levels, HESS TIMBER has developed a new laminated timber beam solution using a combination of spruce and beech that allows for large service penetrations to be formed within the beam profile, whilst providing impressive load-bearing capacity. In addition to intensive research and development work, HESS TIMBER's services included the manufacture, pre-assembly and delivery of components to various ports within Europe.



The image shows a long, bright interior space with a prominent wooden structure. The ceiling is made of light-colored wood beams with recessed linear lighting. The walls are composed of large glass panels supported by thick, light-colored wooden columns and diagonal bracing. The floor is covered in a dark, patterned carpet. Through the glass, a modern cityscape with a curved glass building and greenery is visible.

**GENERAL CONTRACTOR:** Lendlease Australia  
**ARCHITECT:** Tzannes Architects  
**CONSTRUCTION PERIOD:** 2016  
**SERVICES:** R&D | Manufacturing | Pre-assembly | Component Delivery  
**WOOD SPECIES:** Spruce | Beech  
**VOLUME:** 950 m<sup>3</sup> glued laminated timber





**ARCHITECT:** Shigeru Ban | Jean de Gastine  
**CONSTRUCTION PERIOD:** 2016  
**SERVICES:** Planning | Manufacturing | Assembly  
**WOOD SPECIES:** Spruce | Beech  
**VOLUME:** 900 m<sup>3</sup> glued laminated timber





# LA SEINE MUSICALE

ILE SEGUIN | FRANCE

The Île Seguin has had a new landmark since 2016. On the banks of the Seine in Boulogne-Billancourt, west of Paris, a ship-like building complex was built: "La Seine Musicale". This cultural centre was designed by Japanese architect Shigeru Ban and Frenchman Jean de Gastines and opened in spring 2017. The auditorium is the highlight. The building envelope is supported by a free-form and geometrically networked glulam timber structure and has a rotating photovoltaic sail. The sail follows the course of the sun and, in this way, maximises energy production. In this architectural jewel, HESS TIMBER was responsible for the design, manufacture, and assembly of the free-formed glulam structure.






# LORD'S CRICKET GROUND WARNER STAND

LONDON | GREAT BRITAIN

Throughout history, the world's premier cricket address has undergone several renovations, refurbishments, and modernisations. This was also the case in 2016. In this renovation of the sports complex on St. St. John's Wood Road in London, the Warner Stand received an upgrade with the introduction of a new canopy of unique architectural design. Many different support systems and materials were studied to design the roof structure. It soon became clear that only wood could do justice to the architectural idea and the sustainability concept to which all those involved in the project aspired. Extensive material testing and widespread research and development work enabled HESS TIMBER to use American White Oak.







**ARCHITECT:** Populous | London  
**CONSTRUCTION PERIOD:** 2016  
**SERVICES:** R&D | Structural Engineering | Shop drawing  
Manufacturing | Component Delivery  
**WOOD SPECIES:** American white oak  
**VOLUME:** 50 m<sup>3</sup> glued laminated timber





<b>GENERAL CONTRACTOR:</b>	Joint Venture CNIM/Clugston
<b>ARCHITECT:</b>	Jean Robert Mazaud   S'pace Architects
<b>CONSTRUCTION PERIOD:</b>	2014/2015
<b>SERVICES:</b>	Design & Engineering   Development   Manufacturing Component delivery   Assembly
<b>WOOD SPECIES:</b>	Spruce
<b>VOLUME:</b>	2600 m <sup>3</sup> glued laminated timber





# RECYCLING AND ENERGY RECOVERY FACILITY LEEDS

LEEDS | GREAT BRITAIN

With a height of 42 metres, the incinerator in Leeds is the largest glulam project in the UK. The assembly was divided into a total of eight construction phases and lasted from April 2014 to May 2015. To deliver all the timber and steel to Leeds, 72 trucks were needed. Usually, recycling and energy recovery facilities are built far from city centres, but not in this case. With this design, the internationally renowned French architect Jean Robert Mazaud demonstrated the functionality of wood as an ideal mediator in the context of sustainable resource management.



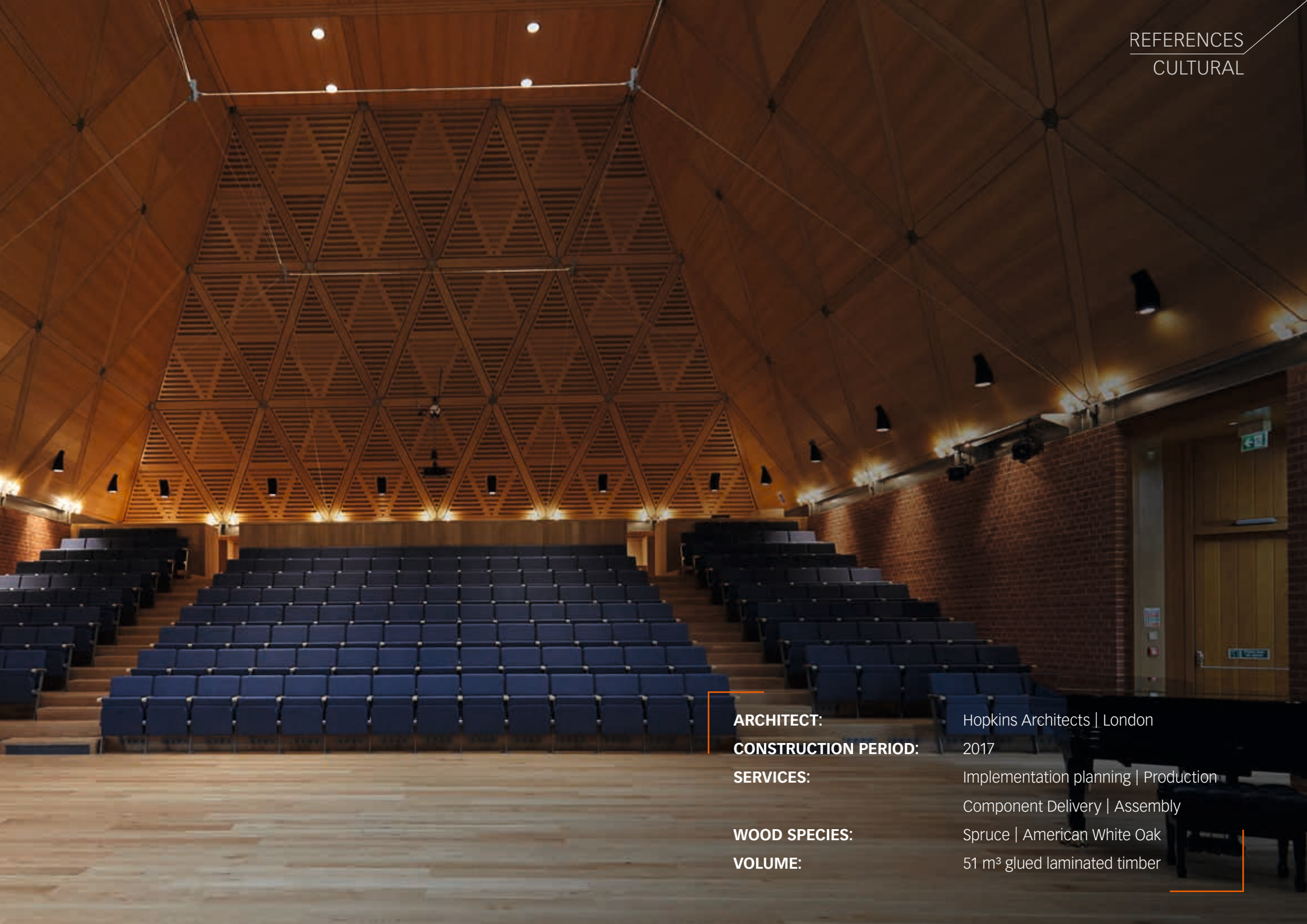


# KING'S COLLEGE SCHOOL

WIMBLEDON | GREAT BRITAIN

King's College School Wimbledon was founded in 1829 and is one of the UK's leading academic schools. In 2013, British architectural office Hopkins Architects began drafting a development plan to improve facilities at the school. The aim was to express the importance of music at King's College School Wimbledon. In the resulting concert hall, HESS TIMBER's expertise was in demand. The HESS HYBRID system was used to manufacture beams made up of spruce with a top layer of American White Oak to create the warm and aesthetically pleasing look desired by the architect. The auditorium can accommodate up to 200 people and there is also a stage for a 70-piece orchestra.





**ARCHITECT:**

Hopkins Architects | London

**CONSTRUCTION PERIOD:**

2017

**SERVICES:**

Implementation planning | Production  
Component Delivery | Assembly

**WOOD SPECIES:**

Spruce | American White Oak

**VOLUME:**

51 m<sup>3</sup> glued laminated timber



# THE ROAD TO SUCCESS

## PARTNERSHIPS

Together with our business partners, we develop timber construction solutions worldwide for requirements of the most varied complexity. Our experienced and well-integrated team and access to the entire product range of HASSLACHER group puts us in a position to realise high-quality and innovative wood construction projects from planning to assembly.

## COMMUNICATION

From many years of experience, we know that, for the successful completion of a project, the quality of communication and technical collaboration with the participants of different parties and trades is paramount. For this reason, a project manager serves as the central contact person, accompanying a project over its entire course. This ensures a smooth and efficient project.

## TRANSPARENCY

We stand for clarity, honesty and appreciation. We pride ourselves on being responsible and reliable in our daily dealings with customers, partners and colleagues.

## KNOW-HOW

In the realisation of our projects, we use a variety of application and combination options of various types of wood and wood-based materials. In doing so, we act outside tradition, detached from familiar, stereotyped thinking. In the spirit of TIMBER LIMITLESS, we overcome boundaries. HESS TIMBER's state-of-the-art and innovative manufacturing capabilities, as well as the many years of experience of our engineers, allow us to create this limitless building and creative thinking.



# AWARDS

- TTJ ACHIEVEMENT IN ENGINEERED TIMBER AWARD 2017
- WINNER OF THE STRUCTURAL TIMBER AWARD 2015
- TTJ INNOVATIVE PRODUCT DEVELOPMENT AWARD 2014
- TTJ ACHIEVEMENT IN ENGINEERED TIMBER AWARD 2014
- TTJ INNOVATION AWARDS 2013 SECOND PLACE
- SCHWEIGHOFER PRIZE 2011 HESS LIMITLESS
- TIMBER CONSTRUCTION – OUTFITTER OF THE YEAR 2011



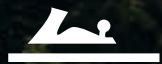
# A MEMBER of HASSLACHER group



760,000 m<sup>3</sup>  
SAWN TIMBER



97,000 t  
PELLETS



160,000 m<sup>3</sup>  
SURFACED TIMBER



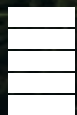
75 GWh  
ELECTRICITY



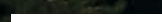
110,000 m<sup>3</sup>  
STRUCTURAL FINGER-JOINTED  
SOLID TIMBER & GLT®



180 GWh  
HEAT ENERGY



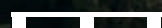
380,000 m<sup>3</sup>  
GLUED LAMINATED TIMBER



1,500,000 m<sup>2</sup>  
SHUTTERING BOARDS



60,000 m<sup>3</sup>  
CROSS-LAMINATED TIMBER



1,250,000 items  
PALLETS & PACKAGING SOLUTIONS



Malaya Vishera

Magdeburg

Kleinheubach

Stall  
Hermagor

Sachsenburg

Preding

Bohinjska Bistrica

4 COUNTRIES  
8 LOCATIONS  
1600 EMPLOYEES  
450 MILLION EURO TURNOVER / YEAR





## MUSEUM FONDATION LOUIS VUITTON

Based on designs by Frank Gehry, an architectural jewel was created in Paris in 2013. The Museum Fondation Louis Vuitton is covered by 12 single roofs with 222 single and double-curved European larch glulam beams. The total volume of glulam is around 800 m<sup>3</sup>.





## IMPRINT

Published by:  
HESS TIMBER GmbH  
Am Hundsrück 2 | 63924 Kleinheubach | Germany  
T +49 9371 40 03-100  
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Editors: Corvin Ölschläger,  
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Photo credits: HESS TIMBER, Rensteph Thompson,  
John Gollings, Ben Guthrie | The Guthrie Project,  
nakanimamasakhlisi, Mitch Duncan, Jon Cardwell,  
Janie Airey, Laurent Blossier, AdobeStock  
Concept and design: UPPERCUT group  
Editing: onlinelektorat.at, Baumann-Cox  
Printing: Petz Druck Gesellschaft m.b.H.

Note: For the sake of readability, the simultaneous use of male and female language forms is omitted.

All nouns/pronouns relating to persons apply equally to both sexes.

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

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