

## Reference

### HESS TIMBER GmbH

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## WOODEN SPHERE STEINBERG AM SEE

In 2019, a masterpiece of engineering opened its doors in Steinberg am See, Germany. The worldwide largest walkable wooden sphere (capacity for 950 visitors at a time) by inMotion Park Seenland GmbH is superlative in many ways. With a weight of over 500 tons, a height of 40 metres and a diameter of almost 50 metres, this project can already be seen from afar. 627 m<sup>3</sup> of glued laminated timber, 190 tons of steel parts, 40,000 screws, 18,000 bolts/building screws/dowels, 3,300 m<sup>2</sup> cladding panels and 2,200 meters of railing - these are just a few of the key features of this enormous project.

### LOCATION

Steinberg am See, Germany

### CLIENT

inMotion Park GmbH

### GENERAL CONTRACTOR

Almholz VertriebsgmbH.

### CONSTRUCTION PERIOD

2018

### STATUS

Completed

### PROJECT CATEGORY

Sport and Leisure, Glued laminated timber

### DETAILS

Wood species: **Larch, Spruce**

Volume: **627 m<sup>3</sup> glued laminated timber**

### SCOPE OF SERVICES

Concept & Consulting, Planning, Project Management, Production, Component Delivery, Assembly

### PRODUCT / SOLUTION

Glued laminated timber

The twenty external structural glulam elements have an arch engraving of around 15 metres and a total length of 55 metres. Due to these dimensions, a holistic logistics and assembly concept was developed early on together with our partner and client Almholz. This made it possible to provide the glued laminated timber elements at the factory in Kleinheubach with two joints and to prefabricate them completely. After delivery to the construction site, the individual elements have been subsequently joined and erected. Each with a weight of around 17 tonnes.



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"We at HESS TIMBER are proud that we were able to demonstrate our knowledge and expertise in this extraordinary project."

– Kai Vahle, Project Manager, HESS TIMBER –

Given the complexity of the supporting structure, the architecture itself and the requirements of structural wood protection, this unique project marks another milestone and a novelty in the project history of HESS TIMBER. The complex prefabrication as well as the subsequent preassembly and erection of the glued laminated timber elements has been one of the biggest challenges for all involved.

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We assume responsibility for our environment. With every realised timber construction we contribute to the 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.



**630 tons**  
Project related CO<sub>2</sub>-storage