# New construction warehouse Jungheinrich AG, Hirschthal

2009





New storage resources were needed at the Jungheinrich company site in Hirschthal. To achieve this, a warehouse with a large forecourt roof in wood was planned.

# The project

The initial idea was to build a steel hall in the style of the main building. The high price of steel contributed to the search for an alternative, and so the client came up with wood as a building material. The lower costs were convincing - and the case showed that wooden halls can economically compete with steel structures.

## The construction method

Twin girders made of glulam were chosen as the main girders, the girder dimension was 880 x 220 mm. The secondary structure consisted of ribbed slabs, the ribs made of glulam were glued above grade, rib dimension 320/80 mm, thickness of the three-layer slabs 42 mm. Wind bracing was provided by Swiss-Gewi bars arranged diagonally, with loads transferred directly to the foundations. Sandwich panels (d= 100mm) were used as external wall cladding.







Interior view





3D display



- Total length 49.60 m
- Width 34.85 m
- Height 6.50
- Maximum span 13.90 m

## **Services of Timbatec**

- SIA Phase 32 Construction project
- Statics and construction
- SIA Phase 51 Implementation project
- Technical site management and site inspections



Transverse compression reinforcement with steel U-section, secondary supporting structure on bearing battens

#### **Architect**

BFB Architekten AG 4622 Egerkingen

### **Timber Contractor**

Haudenschild Holzbau AG 4704 Niederbipp

