

## FEDERAL WATERWAYS ENGINEERING INSTITUTE Karlsruhe (Germany)

## **NEW BUILDING**

Client: State Building Construction Office, Karlsruhe

Architects: Haug + Schmidtler Architekten, Karlsruhe

Full structural design Our services:

Establishing the basis Preliminary design Final design

Approval documentation Execution drawings Preparation of contract award Construction supervision

**Brief description:** Construction of a new warehouse for the

storage of building materials and measuring

tools of the Federal Waterways Engineering Institute
- 1-storey, column-free wooden construction (solid wood, glued laminated timber, cross

laminated timber) - 410 m² usable area

- shallow foundations over strip foundations

- 2 longitudinally tensioned glulam beams (22 m long)

- stiffening via wooden stud walls and pane formation of the cross laminated timber elements in the roof

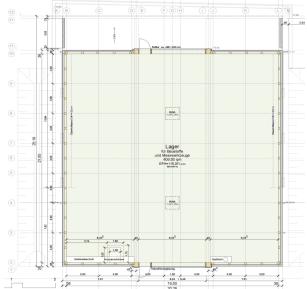
- timber ceilings spanning up to 7 m

- canopy as a wooden construction over the entire width of the hall (20 m) with overhang of more than 3m

- flat roof, greened

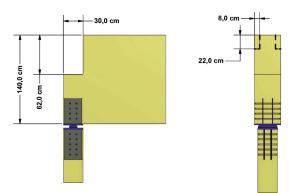
2018 Completion:



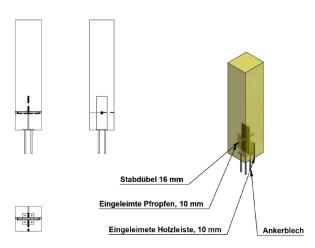








Wooden construction, details: connection of the supports to the glulam beam via sheet steel with 2 side plates, embedded in the support, connection via steel dowels



Wooden construction, details: support of the wooden column to the foundation via anchor plate with

