

# Gymnasium, Bösingen FR

2014



On behalf of the municipality of Bösingen, Timbatec AG carried out an expertise on the roof of the gymnasium. It showed that the structural safety of the supporting structure was no longer guaranteed.

## The project

The initial situation After the expert report had been submitted, the hall had to be closed immediately because the structural safety of the supporting structure was no longer guaranteed. The gusset plate trusses were too weakly dimensioned for the latest generation of standards and had to be replaced.

## The construction

Strengthening the old supporting structure was out of the question for cost reasons. The municipality therefore decided not to renovate the old roof but to replace it.

## The challenge

Since the gymnasium is directly adjacent to the community center, the external appearance could not be changed. The new supporting structure was built with trusses that span the width of the hall at intervals of 4.5 meters.



Interior view ceiling



Interior view of the hall



Old and new truss



Roof rack

### Construction Data

- Trusses

### Services of Timbatec

- SIA phase 31 preliminary project
- Cost estimate
- SIA Phase 32 Construction project
- Structural analysis and design
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Site supervision and site inspections

### Timber construction contractor

Beer Holzbau AG  
3072 Ostermundigen

### Architect

Atelier 99 AG  
3178 Böisingen

### Building owner

Residents' municipality of Böisingen  
3178 Böisingen

### Timber construction engineers

Timbatec Holzbauingenieure Schweiz AG, Thun  
3600 Thun