

# Rénovation Caritas Jura, Delémont

2022

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The project for the renovation of the Caritas store Jura includes the renovation of the roof of building B and the construction of a new first floor slab within the existing building.

## The project

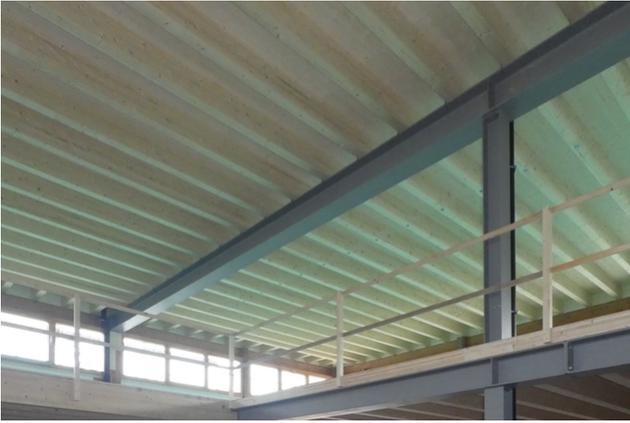
The new Caritas Jura store is located in the industrial zone of Delémont. It is a dream come true for the company Caritas Jura, a store dedicated to second hand goods, which values recovery, sustainable and responsible consumption. This renovation project has doubled the sales area by building a new slab on the ground floor, inside the existing building. A project of restoration of the roof was also carried out, after the complete dismantling of the existing roof which had been attacked by the merule. A new slab on the ground floor was also built inside the existing building. The primary system is made of metal construction and the secondary structure of the slab is made of a ribbed wooden floor. \$\$\$\$\$\$

## The construction

The new roof is composed of 2 main metal trusses and 4 wooden runners. These pieces rest on 4 central pillars and on a series of pillars distributed around the perimeter of the building. The secondary structure is made of several roofing elements. One element is formed by 3 joists and 2 half-joists, statically glued to a 3-ply. The composition of the roof was defined according to the physics of the building. The primary system of the new slab is planned in steel construction. The secondary structure consists of a ribbed wooden floor.

## The challenge

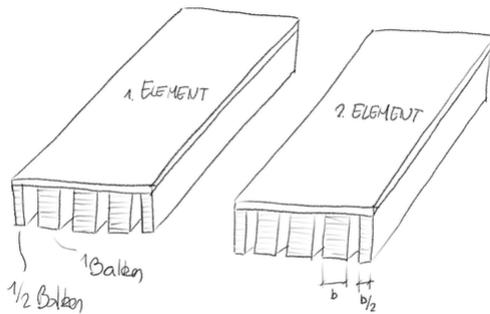
The main goal of the project was to remediate the existing roof that had allowed merula to develop. One idea was to salvage some of the healthy wood pieces from the old roof so that they could be reused. It was thus possible to create a circular added value and thus avoid a high volume of waste generated by the construction sector.



Visual from the ground floor of the ribs of the slab and the roof



Installation of a roofing element



An element is made of 3 joists and 2 half-joists.



Combination of steel structure and wood construction

### Construction Data

- 3-ply 60 mm solid plywood panels: 385 m<sup>2</sup>
- 3-ply 27 mm solid plywood panels: 790 m<sup>2</sup>
- Glued laminated wood GL28h: 25 m<sup>3</sup>
- Glued laminated wood GL24h: 45 m<sup>3</sup>

### Construction costs

- BKP 214 : 450'000 CHF

### Services of Timbatec

- SIA Phase 21 Structural review
- SIA Phase 31 Preliminary design
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- SIA Phase 52 Execution
- SIA Phase 53 Commissioning
- Structural analysis and design
- Technical planning building physics
- cost estimation
- Site supervision and site inspections

### Client

Caritas Jura  
2800 Delémont

### Architect

Bérard Services Sàrl  
1510 Moudon

### Timber engineer and building physics

Timbatec ingénieurs bois SA  
2800 Delémont

### Timber construction

Batipro SA  
2882 St-Ursanne

### Civil engineer

Pepi Natale SA  
2800 Delémont

### Construction management

Wattenhofer Phillipe  
2800 Delémont