

Raiffeisen Arena, Porrentruy

2020



We don't know whether the regional wood used in the new Raiffeisen Arena in Porrentruy was the decisive factor in HC Ajoie's promotion to the NLA. What is certain, however, is that the ice rink is a showcase project.

The project

The new Raiffeisen Arena with 4,650 seats is the home arena of HC Ajoie. It is a good example of how large-scale projects can be built using regional hardwood. The provision of wood by the client, known as in-house procurement, is one way in which wood from the region can also be used in public tenders. To this end, the surrounding municipalities founded the municipal union «Syndicat intercommunal District de Porrentruy (SIDP)». Timbatec developed a concept for the use of wood in the pre-project phase and supported the process from logging to the finished construction project.

The construction method

In the winter of 2018/19, ProForêt SA harvested around 2,000m³ coniferous wood, 900m³ ash and 300m³ beech wood for the production of the components. For example, the lattice girders were made from spruce and ash wood with a span of 45 meters. They support the roof over the ice rink. The grandstand is a softwood construction with beams made of heavy-duty beech.

The challenge

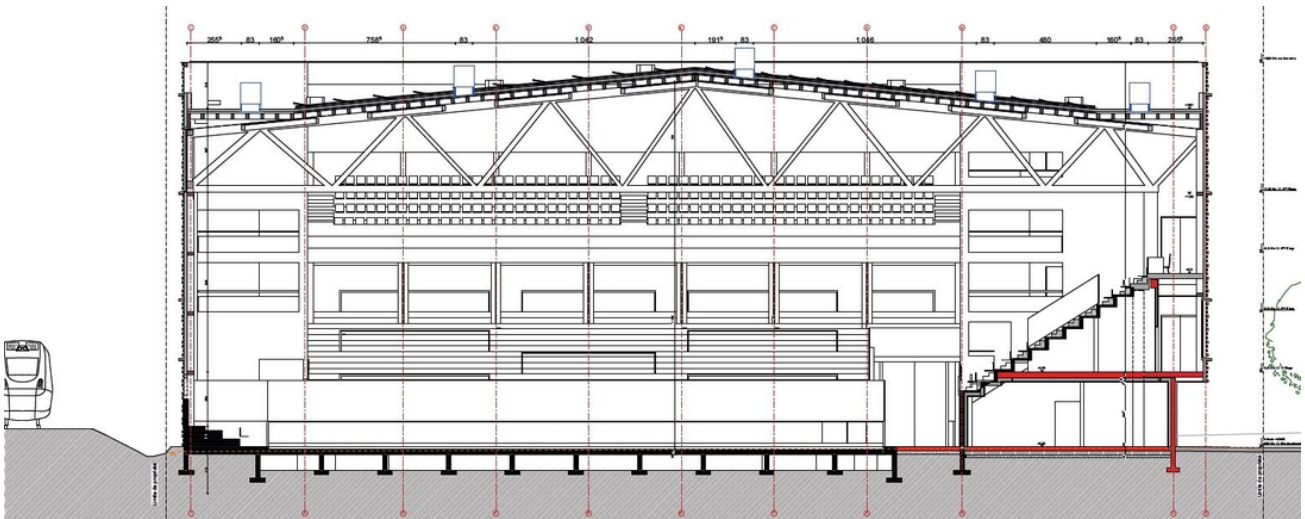
Planning the structure so that it could be placed on the existing foundations was a major challenge. The answer is planning with well thought-out components that take into account the properties of the four different types of wood used (ash, beech, spruce and silver fir).



The wood was harvested in winter 18/19



...and processed into building products



Section through the ice rink with the half-timbered structure and the wooden grandstand

Construction Data

- Building volume 94'880 m³
- Floor area 11'313 m²
- Construction period: April 2019 to October 2021

Construction costs

- BKP 1-3: 28 million Swiss francs
- BKP 2: 23 million Swiss francs
- BKP 214: 4 million Swiss francs

Services of Timbatec

- SIA Phase 11 Status analysis
- 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 Execution project
- SIA Phase 52 Execution
- SIA Phase 53 Commissioning

Architect

Dolci Architectes
1400 Yverdon-les-Bains

Timber construction engineer

Timbatec Holzbauingenieure (Schweiz) AG Bern

3012 Bern

Timberconstruction

Batipro SA, 2882 St-Ursanne

JPF-Ducret SA, 1630 Bulle

Thiévent & Gerber SA, 2905 Courtedoux

A+C Corbat SA, 2943 Vendincourt

Client

SidP

2900 Porrentruy