

Renovation indoor swimming pool, Burgdorf

2010



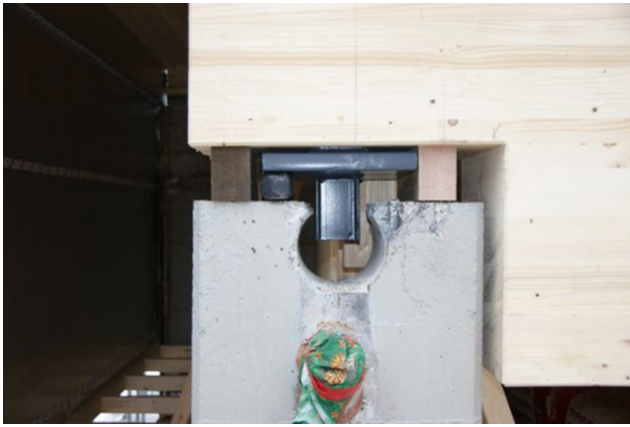
During the inspection of a steel beam, cracks were found in the adjacent wooden beams. Not nice conditions for a well-attended indoor swimming pool! But Timbatec had the solution.

The project

Cracks with consequences: The discovery of the cracks in the primary beams were the trigger for the immediate closure of the indoor pool and the learning pool. Timbatec's proposal to first make the small learning pool usable in order to be able to resume the existing swimming and water courses as soon as possible met with approval. During the renovation of the learning pool, the renovation of the indoor pool roof was planned and prepared. The renovation of the learning pool took three months, while the renovation of the indoor pool took another four months. The learning pool: The new structure was inserted into the existing one from below in order to preserve the recently constructed flat roof insulation and waterproofing. The structure was made stronger for a possible single-story addition.

The construction method

Twin beams were installed on both sides of the existing beams and braced with additional doublers on both sides of the concrete columns. A Lignotrend acoustic ceiling was installed under the new rafter purlins. The indoor swimming pool The construction method of the indoor swimming pool and the size of the girders did not allow renovation from below. Therefore, a different approach was chosen for the indoor swimming pool. The existing supporting structure, including the roofing, was removed section by section and completely replaced. Here, too, glulam beams were used. The increased risk of corrosion of metal parts necessitates the use of highly corrosion-resistant and correspondingly expensive steel grades. To take account of this, both main and secondary beams were directly supported throughout the building, without any statically loaded steel parts. Special care was taken to seal the roof, exterior walls and connections.



Support before casting



Existing supports



Interior view against learning pool



Cracks

Construction Data

- Glulam beam
- Lignotrend acoustic ceiling

Services of Timbatec

- SIA Phase 31 Preliminary design
- SIA Phase 32 Construction project
- SIA Phase 41 Tendering and comparison of offers
- SIA Phase 51 Implementation project
- Work planning 3D and 2D

Timber contractor

Gfeller and Friedli
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Client

Hallenbad AG Burgdorf
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Architect

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Timber construction engineers

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