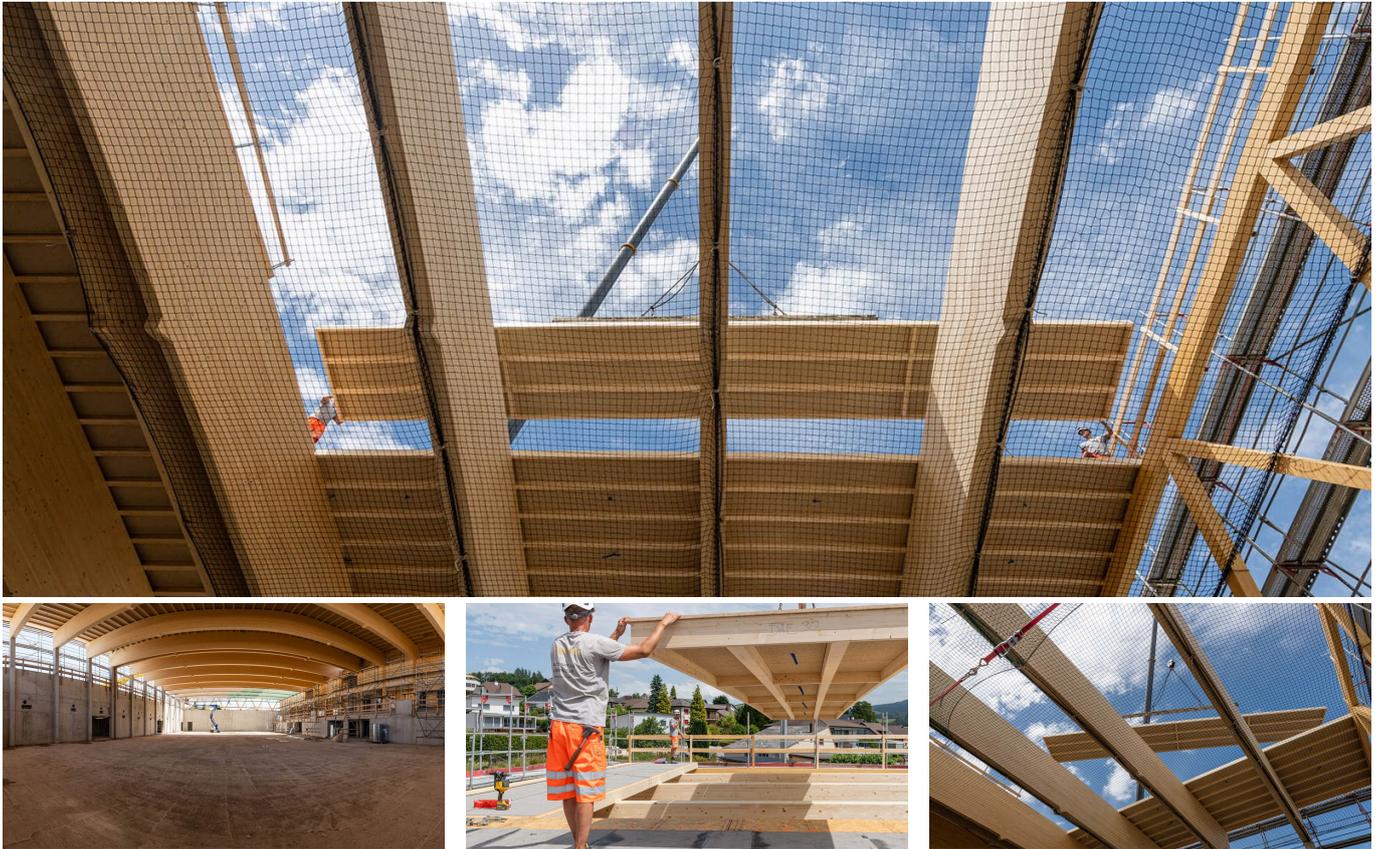


## Neubau Mehrzweckgebäude Alterswil



### SHORT DESCRIPTION

The Alterswil multi-purpose building is an important part of the Alterswil municipality's infrastructure. It is used for school lessons, sports, events and other purposes.

### THE PROJECT

The Alterswil multi-purpose building consists of two parts. A school wing with classrooms and group rooms and a triple gymnasium. The school wing has two storeys and is separated by a timber-concrete composite ceiling. The interior wall elements are clad with visibly screwed three-layer panels. The classrooms have a suspended ceiling in order to achieve good sound insulation values within a room.

Eleven 33 m long, 2 m high and 40 cm thick glulam trusses span the triple gymnasium. The roof ends are formed by 17 m long roof elements, which were prefabricated in the factory in Rümlang with a finished soffit.

Vertical, double-glazed timber cladding forms the tight building envelope on the outside. The façade is rear-ventilated to prevent heat build-up behind the façade.

## SERVICES IN DETAIL

- Work planning, exterior and interior walls in timber element construction with visible three-layer panels
- School wing: floor slabs and roof as timber-concrete composite, suspended soundproof ceiling in classrooms
- Gymnasium: roof elements prefabricated in the factory, timber-clad gymnasium wall with sound insulation panels, assembly of entire supporting structure and large 33 m long trusses
- Wooden façade incl. substructure

## CHALLENGES

Coordination of factory planning and HVAC for production plans Scheduling of supporting structure, wall elements and glulam trusses Coordination of various trades for the wood-concrete composite ceiling Gym wall cladding with wood acoustic panels.

## SUSTAINABILITY

The timber for the supporting structure and the glulam trusses comes from the immediate vicinity of Alterswil and was also processed in a nearby sawmill. A total of approx. 850 m<sup>3</sup> of wood was used for our services.

## FURTHER INFORMATION

[To the blog post: Wood, the sustainable building material - also in Alterswil](#)

## FACTS

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|  |   |
|--|---|
| <b>Location</b>                                    | Oberdorfstrasse 19, Alterswil , Switzerland                               |
| <b>Status</b>                                      | completed   |
| <b>Construction volume (value of our services)</b> | 2.2 M CHF   |
| <b>Start of construction</b>                       | June 2021   |
| <b>Completion</b>                                  | December 2022   |
| <b>Building owner</b>                              | Gemeinde Tafers, Schwarzseestrasse 5, 1712 Tafers                         |
| <b>Architect</b>                                   | bauzeit architekten GmbH, Falkenstrasse 17, 2502 Biel/Bienne              |
| <b>Civil engineer</b>                              | neue Holzbau, Obseestrasse 11, 6078 Lungern                               |
| <b>Timber construction</b>                         | Geschosse 2 Geschosse beim Schultrakt<br>Dreifachturnhalle<br>Höhe 22.5 m |

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## SERVICES

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Timber construction



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<https://implenia.com/en/references/detail/ref/neubau-mehrzweckgebaeude-alterswil/>

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