

# Warehouse and production hall, Niederglatt

2023

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Hall 95 in Niederglatt combines storage and production space with residential use on the upper floor. Large column-free storage units allow flexible use.

## The project

The warehouse is built entirely of timber from the floor slab upwards. The almost 6 m high first floor is used as storage or commercial space, while the upper floor houses small apartments with shared maintenance zones and spacious roof terraces. The mezzanine and upper floors are accessed via a staircase with encapsulated cross-laminated timber panels. Generous skylights bring plenty of daylight into the corridors and residential units, which feature exposed wooden surfaces.

## The construction method

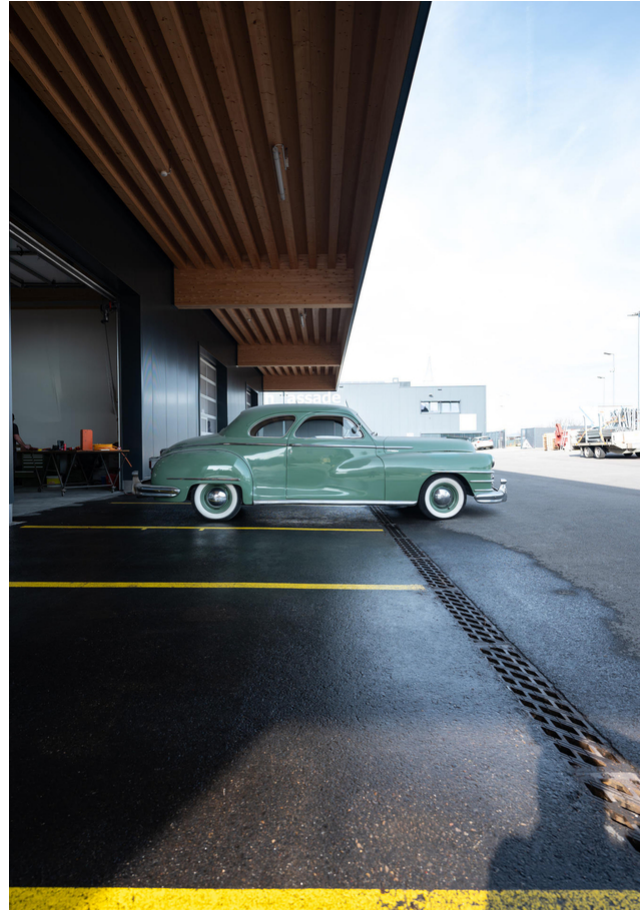
The skeleton construction on the first floor with the almost 9 m wide storage units enables a very economical construction method thanks to the additional beam in the middle of the hall. In the canopy, the beam layer spans the entire width of the respective rental unit. Thanks to the large-format and visible cross-laminated timber panels, the construction time could be kept short.

## The challenge

With the large spans (up to 16 m) of the suspended single-span beams, high loads have to be connected to the main beams. The connection was solved with a steel part specially made for the situation.



Corridor inside



Canopy roof

#### **Construction Data**

- Main supporting structure: 100 m<sup>3</sup>
- Cross laminated timber: 500 m<sup>3</sup>
- Solid structural timber/ glulam: 150 m<sup>3</sup>

#### **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 Execution project
- SIA Phase 52 Execution
- Specialist planning for building physics
- Fire protection planning

#### **Building owner**

Marianne Mohn  
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#### **Timber construction engineer**

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#### **Photography**

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#### **Client**

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