

Increase Loepfe Brothers Ltd, Wetzikon

2018



The factory building of the internationally active Loepfe Brothers Ltd in Wetzikon ZH has reached the limit of its capacity. In the addition to the production hall, 2800 square meters of modern office space were created, thus ensuring the company's space requirements.

The project

The client's wish: as much freedom as possible in the design of the space and the possibility of easy conversion at a later date. Timbatec's solution: No load-bearing interior walls and only one row of columns in the middle of the building for maximum flexibility.

The construction

This was made possible by two high-performance wooden components: a beam made of BauBuche, which rests on the row of columns made of spruce glulam in the center of the building. The new, high-performance construction material allows a column spacing of 5 meters with a beam cross-section of only 400x300 millimeters. The second high-performance component is the box girder that forms the floor and roof elements. Thanks to the choice of an efficient static system, it was possible to achieve a low height of the elements.

The challenge

Said system requires that the elements extend from one external wall, through the beam in the middle, to the opposite external wall. The ceiling and roof elements reach a length of 16.9m. Thanks to the clever choice of structural systems and the targeted use of high-performance building materials, Timbatec succeeded in fulfilling the client's wishes and realizing a modern, economical timber construction.



View inside



Aisle and view beams



Entrance area with wooden ceiling



Interior view

Construction Data

- New office space 2800 m²
- Box beam ceiling 2400 m²
- Beam BauBuche 140 meters
- Support spruce

Services of Timbatec

- SIA Phase 31 Preliminary project
- 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
- Statics and construction
- Technical planning for fire protection
- Fire protection quality assurance QSS2

Client

Loepfe Brothers Ltd.
8623 Wetzikon

Architect

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Timber construction engineer

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Timber construction

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