

# Increase International School Zurich, Wädenswil

2011

---



The Zurich International School in Wädenswil decided to extend its school premises by one floor to provide additional classrooms. The large skylights stand out in particular, which posed a challenge to the load-bearing concept.

## The project

The initial situation In order to obtain more (school) space, the International School Zurich in Wädenswil decided to extend its school building by an additional floor. For weight reasons, the exterior walls as well as the roof were realized in wood element construction. The load-bearing interior walls are made of sand-lime brick.

## The construction

A special feature of this building was the fact that weight could only be transferred to the solid exterior walls at very specific points.

## The challenge

Due to the high spans of the roof and the window arrangement with corner windows, an intercepting construction was required in the roof edge area, which was implemented with Kerto girders. The large skylights, which were a further challenge to the load-bearing concept, are striking.



Exterior view



View of the room with corner windows



Round skylights

#### **Construction Data**

- Ceiling structure: Ceiling element as precast element
- Wooden outer wall as finished element laid on setting timber

#### **Services of Timbatec**

- SIA phase 32 construction project
- Statics and construction
- SIA Phase 51 Implementation project
- Technical site management and site inspections

#### **Architect**

Galli Rudolf Architekten AG ETH BSA  
8003 Zurich

#### **Timber Contractor**

Kälin Walter Holzbau AG  
8340 Hinwil

#### **Client**

Zurich International School  
8820 Wädenswil