

## Gleisribüne/Gleisarena, Zurich Central Station

Automatic structural monitoring at Switzerland's largest railway station



- 📍 Zurich, Switzerland
- 👤 SBB Immobilien
- 🕒 2017 - 2019

### Leistungen

- ◆ Delivery, installation and commissioning of geodetic and geotechnical measuring systems
- ◆ Automatic monitoring including alarm at 1-hour intervals
- ◆ Online access to current measurement values via a web-based customer portal.

### Technologien

- ◆ 1 precision total station
- ◆ 2 construction thermometers
- ◆ 24 crackmeters/displacement transducers
- ◆ TEDAMOS Web, password-protected customer portal with 24/7 access

As part of the two projects "Gleisribüne" and "Gleisarena", five new buildings were constructed, consisting of commercial premises and rented apartments, directly next to the tracks of Zurich Central Station.

The excavation pit for the new buildings was located directly next to the tunnel leading from the Museumsstrasse station in the direction of Hardbrücke. The new buildings also partly overlapped the existing railway tunnel.

A fully automatic monitoring system helped to ensure the safety of the 500,000 or so people who pass through Zurich Central Station every day.