

Excavation pit monitoring at the Zwicky site in Wallisellen

Continuous measurement monitoring of the Waldhaus NeuGuet construction site



📍 Wallisellen, Switzerland
 👤 Steiner AG
 🕒 2016 - 2018

Services

- ◆ Permanent 3D monitoring measurements of bridge piers and excavation pit closures
- ◆ Installation and operation of a 1-total station monitoring system
- ◆ Installation and operation of 2 automatic vertical chain inclinometers, each with 10 sensors
- ◆ Installation and operation of 12 automatic anchor force measuring devices
- ◆ Manual settlement measurements on surrounding objects
- ◆ Alarm system when limit values are exceeded
- ◆ Project in collaboration with Gossweiler AG
- ◆ All recorded data is documented in TEDAMOS Web, our password-protected customer portal with 24/7 access.

Technologies

- ◆ 1 precision total station with 30 monitoring points
- ◆ 2 automatic chain inclinometers, each with 10 sensors
- ◆ 12 automatic anchor force measuring devices

The former Zwicky site in Wallisellen is being redesigned. The "Waldhaus NeuGuet" is a 50-meter-high residential tower with 98 condominiums in a new neighborhood. The Zwicky site is surrounded by several sensitive buildings. Among other things, the bridge piers of the SBB viaduct and the excavation pit closures must be closely monitored. A multi-sensor system consisting of a total station, a chain inclinometer, and anchor force measuring cells is used for monitoring. In addition, manual settlement measurements are carried out.