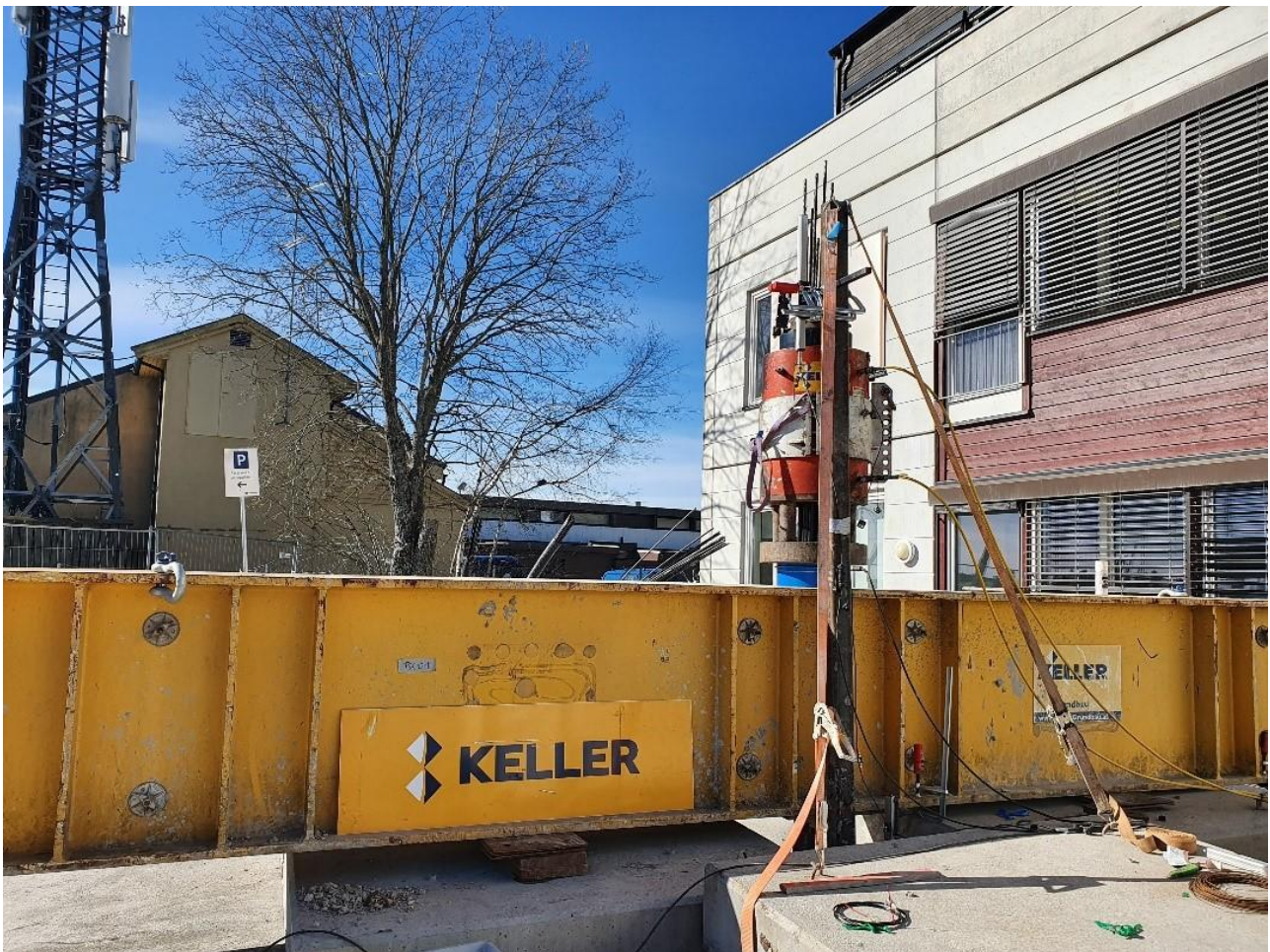


## EPC Folloline -Ski Anchor Works

Ski, Norway

- Anchortest to verify the anchor system and bearing capacity of the anchors.
- Installation of five vertical permanent ground anchors up to 35m length.
- Anchors with 15 strands (15.3mm diameter).
- Fully automated anchor investigation up to a proof load of 3.100 kN.



### The project

The EPC Ski Contract involves reconstruction of the Ski railway station, redevelopment of the station's surroundings and all railway facilities related to reconstruction of the existing line and the new line. This testing program was critical for the further progress of the works in the Ski station. Keller was awarded to execute the anchor testing to verify the bearing capacity of the installed permanent ground anchors. Maximum Test load of 3.100 kN was applied to each test anchor following the EN-standard. All anchors passed the investigation test and Keller finished successfully the testing program after a four week total execution period including installation and testing.

## The challenge

Soil type: Clay and moraine layers consisting of large boulders followed by solid bedrock where the bond length was placed.

Works on a critical time line for the project.

## The solution

Due to the advantages of the double head drilling system it was achieved to pass through the boulders in the soil and drill the casing into the hard bedrock to full depth. Fully automated stressing system provided all necessary information in order to comply with the high quality requirements of the project.

## Project facts

### Owner(s)

Bane NOR

### Keller business unit(s)

Keller Geoteknikk AS  
Keller Grundbau Ges.mbH

### Main contractor(s)

Obrascón Huarte Lain (OHL)

### Engineer(s)

Project Manager Eloy Moreno Gomez  
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### Solutions

Bearing capacity / settlement control

### Markets

Infrastructure

### Techniques

Ground anchors

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