

## Measuring grout anchors.

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Usually grout anchors do not have the shape of a straight line by which they are represented on design drawings. During the drilling process they can deviate from the horizontal and vertical plane and become deformed. This can have a negative effect on their load bearing capacity. To determine the real shape and direction of grout anchors after they have been put in place Inventec developed ANCHORVIEW.

In ANCHORVIEW we utilize a relatively short (8-10m) SAAF consisting of a chain of 0,50m long segments that are interconnected by flexible couplings. Each of those segments contains a multi-axial MEMS-chip inclinometer. By lowering the SAAF (its diameter is only 25mm) into the hollow core of the anchor and making subsequent measurements with small overlaps over the full length of the anchor, the 3D-shape of the complete anchor is determined with an accuracy of a couple of millimeters.

The special software that we developed for this application allows the result to be visible right on the spot immediately after the measurement.

We carry-out ANCHORVIEW measurements on a day rate basis. Also injection lines, pre-stressing ducts, soil freezing pipes and bore casings can be measured with ANCHORVIEW.

Download: [ANCHORVIEW](#)

