

## SAAFs for the new Amsterdam subway.

September 2011

The SAAF had already been monitoring subsoil deformation for a period of 2 months during the excavation of the Rokin station. Based on the very satisfactory experience at that location, the subway's management decided to install the SAAF also at the construction site of the next (Vijzelgracht) station. There the SAAF has been monitoring soil deformation over a depth of 32m for half a year.

The SAAF (Shape Accel Array / Field) consists of a chain of 0,50m or 0,305m long segments that are interconnected by flexible couplings. Each segment contains a multi-axial MEMS-chip inclinometer. The SAAF is fixed in a PVC pipe of only 32mm outer diameter that is installed in the ground. Thanks to its articulated construction the SAAF can follow the movements of the soil precisely resulting in a very accurate distributed deformation over the full dept.

After completion of the measurements the SAAF can simply be removed from the PVC pipe and be installed on a next location.

Download: [SAAF](#)

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