

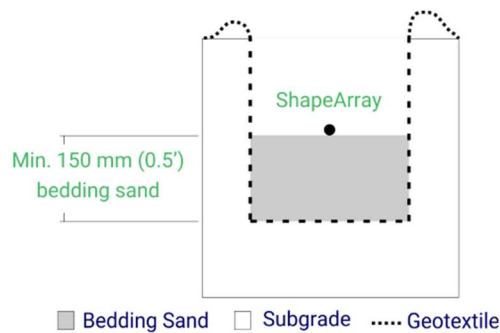
ShapeArray for monitoring settlement and consolidation



ShapeArray is a geotechnical monitoring instrument that consists of a series of rigid segments containing triaxial tilt sensors separated by flexible joints. SAAX is purpose-built for heavy duty horizontal installations such as beneath embankments, inside tunnels and on construction sites. It has segment lengths of 1000mm and can be manufactured to a maximum length of 200m.

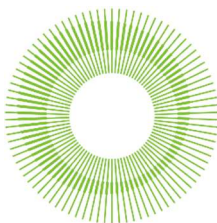
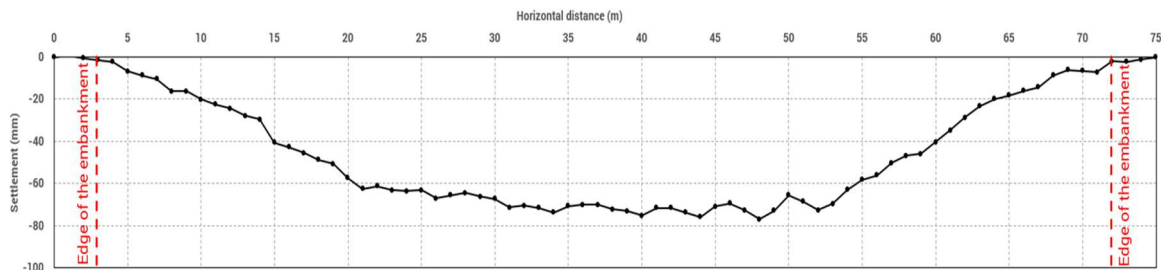
All ShapeArrays are manufactured by Measurand Inc. Canada in an ISO9001 certified facility.

Knowing when to place fill during the construction of an embankment is crucial to managing the risk of the earthwork failing. As the fill is placed the ground beneath the embankment consolidates as the excess pore pressures, generated during placement of the fill, dissipate. It is essential to know when this consolidation is nearing completion before placing the next lift. SAAX is the perfect instrument for monitoring the consolidation process and using it with Geotechnical Observations' web-based monitoring software Geodaisy® puts you in complete control.



The SAAX is installed inside a 50mm diameter plastic pipe and placed in a shallow (300mm-500mm) trench, backfilled with sand.

The ends of the SAAX are located outside the edges of the embankment and connected to levelling pins so that any absolute settlement can be measured and accounted for if necessary.

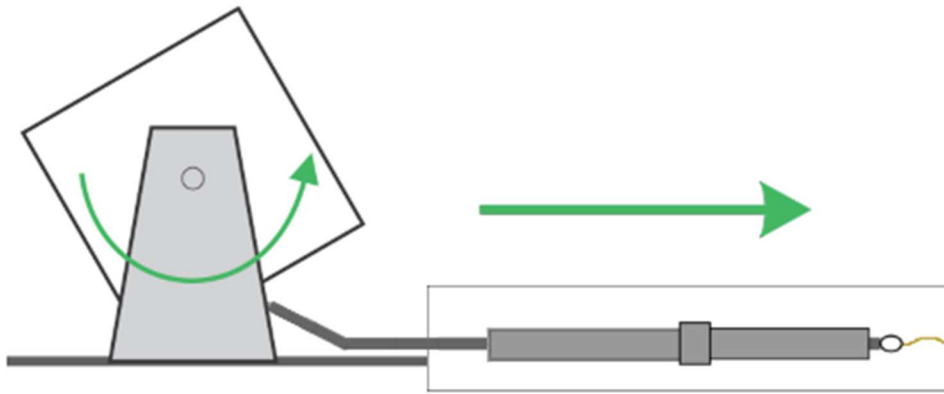


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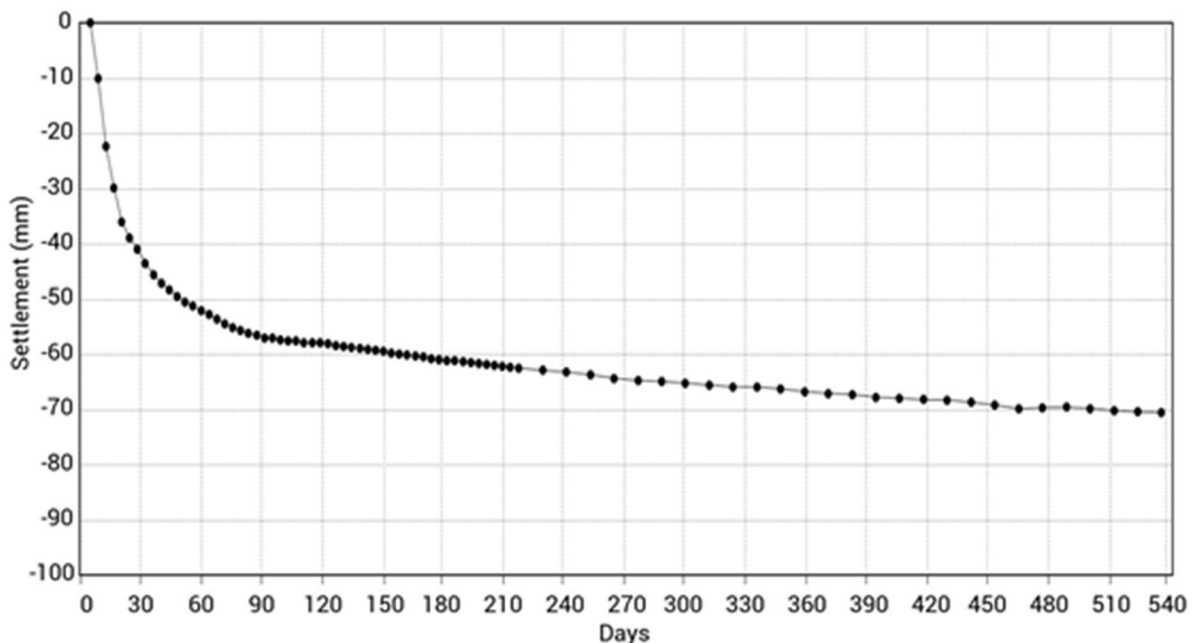
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SAAX is simple to install and easy to set-up

Our web-based software Geodaisy® allows you to analyse and interpret the data from ShapeArrays in near real-time. It is easy to create profile and trend plots that automatically update with new data soon after it becomes available. Edit these graphs to include your own logo and annotate them to include important information about the progress of construction. Bind the graphs into custom reports that also update with the latest information and have those reports delivered to your inbox on demand and automatically at times that you can choose.



Monitoring settlement beneath embankments has never been so simple or reliable. SAAX and Geodaisy® provide everything you need to make rapid decisions, reduce costly time delays, and mitigate the risk of failures.

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