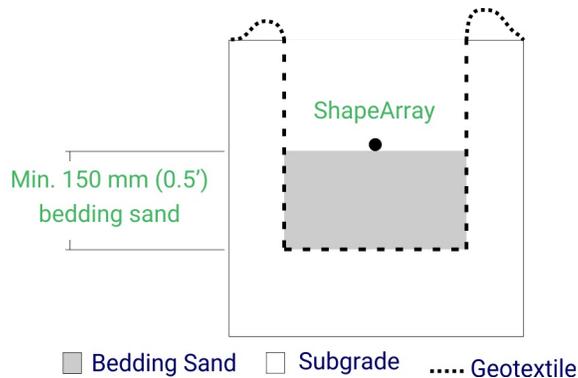# Horizontal Installation Quick Start Guide

These quick start instructions provide a summary of the steps required to properly install a horizontal ShapeArray. Comprehensive installation instructions are available in the online manuals: http://manuals.measurand.com/home

ShapeArray

Min. 150 mm (0.5')
bedding sand

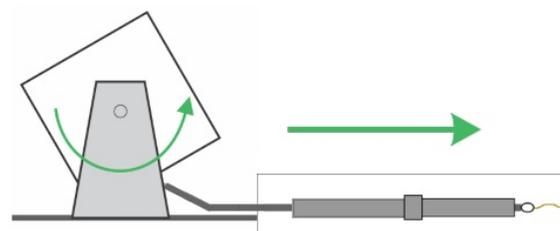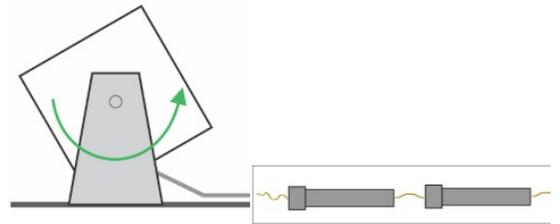◻ Bedding Sand ◻ Subgrade ····· Geotextile

1. Dig a trench long enough to hold the ShapeArray. It must be at least 300 mm (1') deep by 300 mm (1') wide.

Line the trench with geotextile. Ensure that the geotextile is wide enough to line the trench and wrap over top of the sand, completely enclosing it at the end of the process. Fill the trench with at least 150 mm (0.5') of bedding sand.

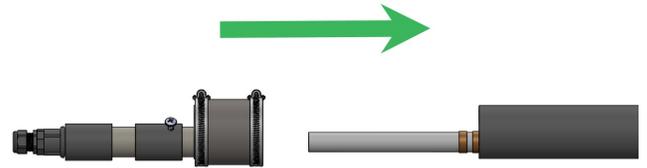2. Clean and deburr the PVC conduit.

Place ShapeArray reel on a stand such that it unreels from the bottom at one end of the trench.

Lay out PVC conduit in the trench. Run a length of rope along the inside of each piece of conduit. Glue and assemble the conduit.
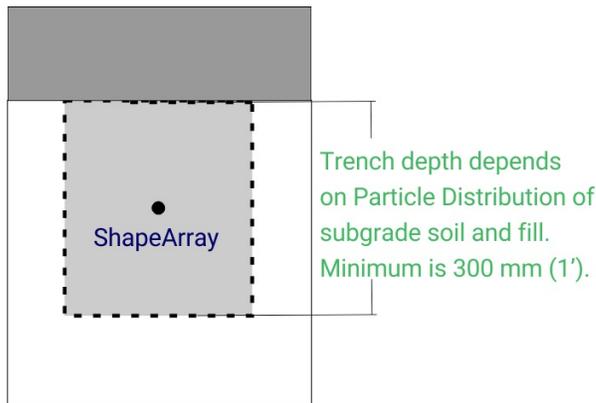

3. Remove the bell end from the conduit. Attach the rope to the eyelet on the tip end of the ShapeArray and pull it into the conduit. At the tip end, attach an end cap to the PVC.

4. Trim the PEX on the ShapeArray so that only 100 mm to 127 mm (4" to 5") is sticking out of the conduit. Loosen the compression rings on the Horizontal Installation Kit. Slide it onto the PVC casing, over the ShapeArray's cabling and PEX.

Tighten the compression clamps to secure the installation kit to the conduit. Insert and tighten the set screws above the compression rings in the installation kit. Tighten the cable gland.

Trench depth depends on Particle Distribution of subgrade soil and fill. Minimum is 300 mm (1').

5. Cover the ShapeArray with at least 150 mm (0.5') of bedding sand and add fill to cover the trench.

▨ Bedding Sand   ☐ Subgrade   ▨ Fill   ····· Geotextile

More detailed information about ShapeArray and other Measurand products is available in our Support portal knowledge base and online manuals at the following URLs:

https://support.measurand.com

http://manuals.measurand.com

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