

# SlimLine Installation Manual



# Difficult Soil Textures

In some of the heavy soil textures such as stony ground it is not practical to employ Sentek's direct-contact installation procedure. In these instances, the only option may be to use a slurry technique.

Sentek recommends using its tried and tested kaolin slurry method in these cases.

# 1. The SlimLine Probe

- 1.5m length.
- 32mm diameter.
- Solid, rigid probe.
- Non-tapered.
- Mark the depth of the intended hole on the auger.



## 2. Mechanical Auger



- ECHO EDR-2400 2-stroke engine drill by Yamabiko Corporation.



# 3. Mechanical Auger

- Assemble the mechanical auger.
- Auger diameter 50mm.
- This auger has 2 linked sections and a tungsten tip.



- *Read the product safety instructions before operating this machinery.*
- *Investigate any possibility of underground cables or conduits before starting.*
- *Gloves, eye protection and ear plugs are mandatory.*





## 4. Augering

- Auger the hole in stages.
- Use plenty of water as a lubricant.





# 5. Augering

- Use plenty of water as a lubricant.
- This will make the job easier and safer.





## 6. Augering

- Proceed carefully and slowly.
- Keep auger upright and tracking straight.





# 7. Tidy Hole

- A tidy hole is the aim.





## 8. Slurry Preparation

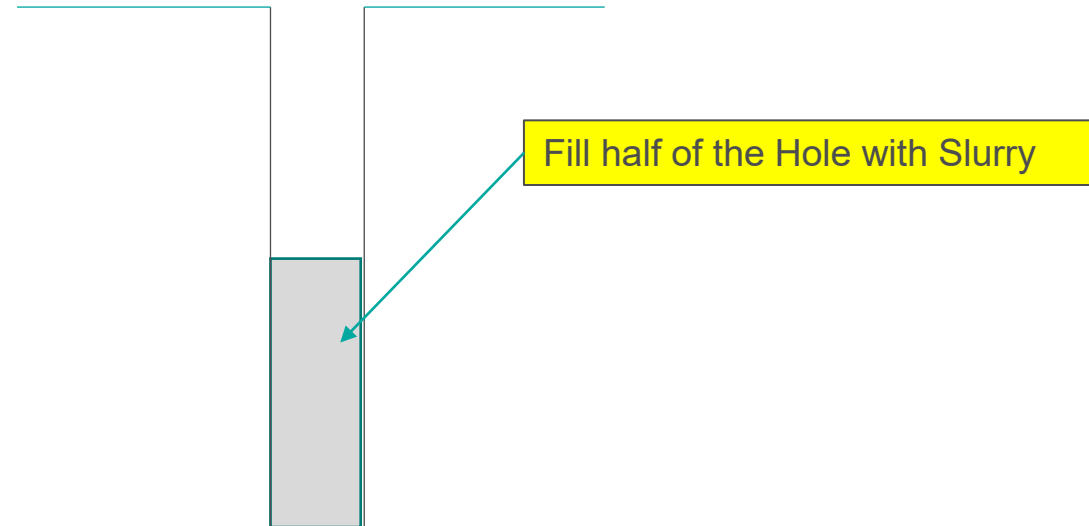
- Check that the depth is sufficient for the probe.
- Allow an additional 10cm at the bottom of the hole.
- Prepare the slurry (1:4:5 cement:water:kaolinite).
- Wetted consistency should be like a thick milkshake.





## 9. Pour the Slurry

- Half-fill the hole initially.
- Insert the probe in a smooth motion.
- Top up the slurry volume if necessary by pouring it down one side of the probe.



# 10. Adjust Probe Position

- Adjust the probe height so that it is level with the surface of the soil.
- Allow to harden a little.





# 11. Trim the Slurry

- Trim the excess slurry off with a trowel or knife.
- Fill the surface gap with soil.





# 12. Connection

- Connect the probe to the logging system and test.

