

Installation of Helical Screw Piles using Portable Equipment

Project No:	
Site address:	
Date:	

Prior to any commencement of work a site inspection will take place to determine any foreseeable hazards associated with the carrying out of the above project.

Once on site an exclusion zone will be established and will be greater than the maximum radius of 8m from the piling rig.

No unauthorised person will be allowed into this zone, and all persons in this zone must be wearing head, foot, eye and hand protection. All company members while on site must wear high visibility jackets.

The pile installation will be carried out using portable equipment powered from an engine powered hydraulic power pack. This method has the advantage of being almost vibration free. The power pack is to be placed outside only and is never to be used inside.



A crew of 3 trained operatives shall install the piles. Operatives must be aware of the safe working area at pile locations and must remain within that area at all times.

The person operating the foot control pedal must remain in contact with the drive head, or reaction arm, whilst installation is progressing

The operator shall monitor torque during installation, and NOT exceed the maximum torque limit of the pile being installed.

Installation procedure

- 1) Attach drive head to lead section at pile location
- 2) Attach reaction arm to drive head and position to prevent turning
- 3) Ensure all personnel are within safe working area and install lead section
- 4) For grouted piles, add lead displacement plate and extension
- 5) Install extension, adding grout to pile void as required
- 6) Continue adding extensions and extension displacement plates until required depth and torque achieved

An installation log shall be recorded for each installation showing

- a) Site, date and pile number
- b) Pile type
- c) Installation pressure/torque at regular depth intervals
- d) Total installation depth and final torque readings
- e) Volume of grout used (if any)

The area will be left in a clean and tidy manner

Any hazard or deviation which arises that has not been covered by either this statement or the accompanied risk assessment shall have an immediate on site risk assessment taken by the site foreman /supervisor in writing and attached to these documents

Signed (site foreman):	
Signed (operative):	
Signed (operative):	
Signed (operative):	