METRO PILING

ENGINEERING STRONG FOUNDATIONS

MINI PILING
SECTIONAL FLIGHT AUGER (SFA)

www.metropiling.co.uk

Mini piles - Sectional Flight Auger (SFA) piles are typically used in the same ground conditions as a conventional CFA pile. SFA piles are the preferred method where there is restricted access or limited head-room, where CFA are not able to operate.

DESCRIPTION

Mini Piling SFA is an auger bored replacement pile that is utilised in varied ground conditions on restricted access sites. SFA piles are formed augering into the ground in sections using a hollow stem auger to the design depth of the pile which ranges from 250-750mm dia and up to 25m in depth.

SFA is one of the quietest piling techniques on the market and is virtually vibration free making it ideal for working in close proximity to existing buildings, in restricted access or residential areas.

SFA piles are suitable for a wide range of sectors such as industrial, infrastructure, railway, residential and commercial projects.

At Metro Piling, we have a range of different rigs which enhances our ability to accommodate a variety of restricted access requirements.

APPLICATIONS

- Rail
- Commercial
- Residential

ADVANTAGES

- Suitable for most soil
- Ideal for sensitive areas
- Ideal for alluvial deposits
- Suitable for indoor works
- Vibration free
- Extensive in-house fleet
- Limited risk of damage to adjacent structures

INSTALLATION

SFA piles are introduced by penetrating the ground with a hollow stemmed auger. Piles are bored in segmental lengths ranging from 1-2m to reach the required depth. The spoil generated by the augering process is brought to the surface and removed as the pile is formed.

Upon reaching the design depth, concrete or grout is then pumped through the hollow stem of the augers as they are withdrawn.

Finally, a reinforcement cage is inserted into the wet concrete.

TECHNIQUE CAPABILITIES

SPECIFICATION	FROM	TO
Standard pile size	250mm	750mm
Typical load capacity	100kN	5000kN
Practical depth	4m	25m

* Pile depth subject to ground conditions