

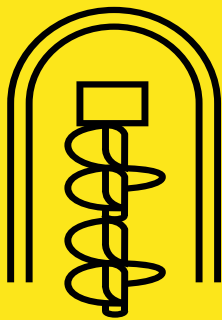


METRO PILING

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.



APPLICATIONS



Rail



Commercial



Suitable for most soil



Residential

ADVANTAGES



Ideal for sensitive areas



Vibration free



Ideal for alluvial deposits



Extensive in-house fleet



Suitable for indoor works



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.

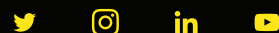
Upon reaching the design depth, concrete or grout is then pumped through the hollow stem of the augers as they are withdrawn.

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 |

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Email: enquiries@metropiling.co.uk