

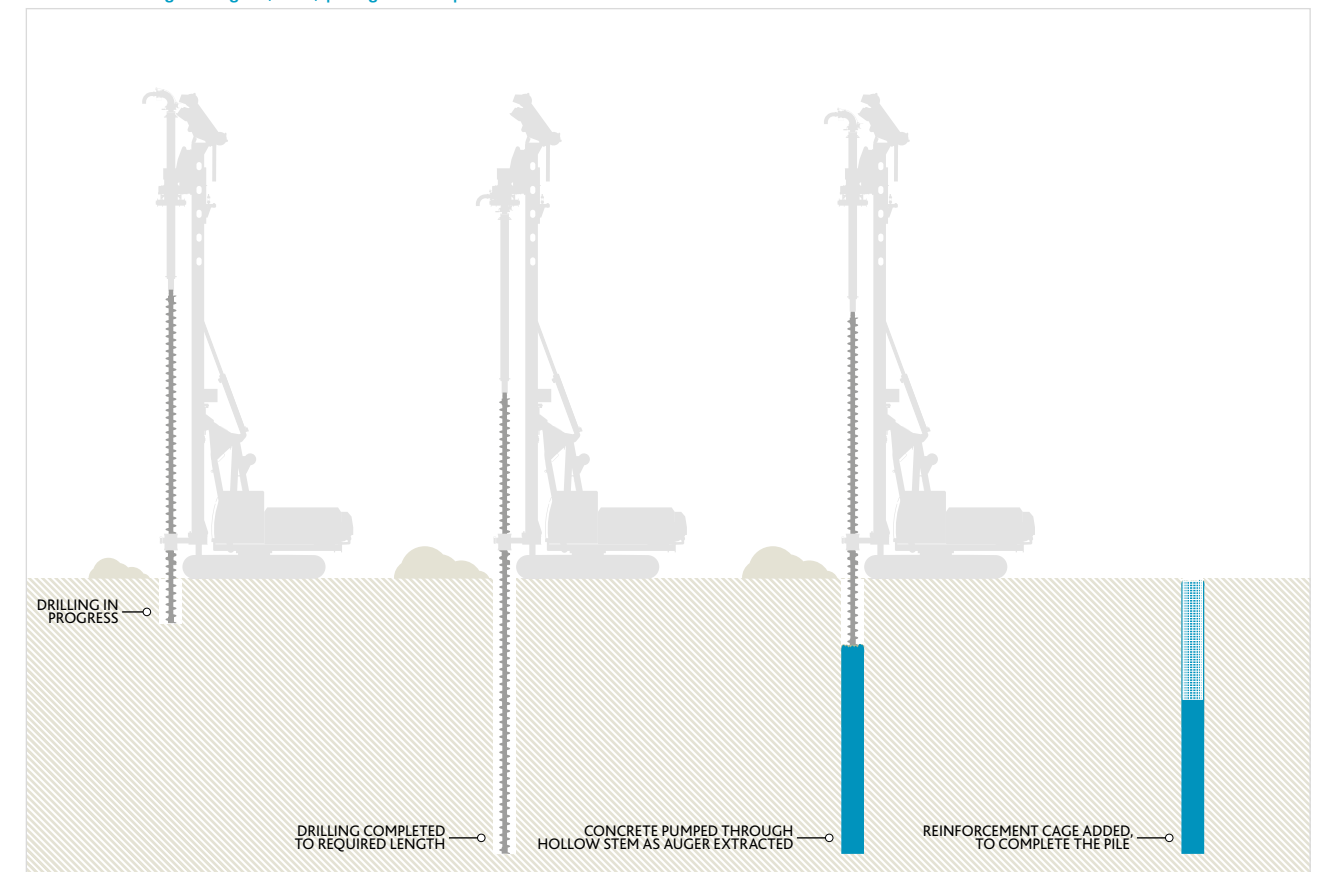
Continuous Flight Auger (CFA) piles

This solution is ideal for noise and environmentally sensitive sites for both load bearing piles and excavation support. Suitable for all soil types and fast to install, it is ideal for retaining walls as it causes minimal disturbance so posing limited risk to adjacent structures.



CFA piling rig

Continuous Flight Auger (CFA) piling technique



Our integrated rig instrumentation system allows us to monitor installation and measure data such as depth, concrete pressure, volume and productivity. We use this data to produce graphical representations of pile conformity as a historical reference.

- CFA piling
- Auger displacement piling

The technique

A hollow stemmed continuous flight auger is rotated into the ground to the required depth. As the auger is withdrawn, concrete is pumped down the hollow stem under balancing pressure forming a shaft of liquid concrete to ground level. A reinforcing cage is then inserted by hand or vibrator.

Two significant factors can influence the load bearing capacity of CFA piles – the sophistication of the equipment used and the experience of the operators on the ground. Our depth of experience and investment in research and development are both key strengths in this area.

Continuous Flight Auger (CFA) piling technical capabilities

Dimensions	From	To
Practical depth	n/a	Max 34m
Diameter	0.35m	1.2m
Load capability	Dependent on depth and ground conditions	
Minimum working height	10m	34m
Typical rig weight	38,000kg	87,000kg
10m Noise Profile at 10m	85db	90db