

CFA PILES

Continuous Flight Auger (CFA) Piles are a deep foundation pile created by drilling a hollow-stem auger into the ground to form the pile's diameter. Sand-cement grout or concrete is then pumped into the hole as the auger is retracted, eliminating the need for temporary casing and making them ideal for non-cohesive or water bearing soils.

CFA Piles can be installed quickly and inexpensively without significant vibration or excessive noise being produced. They are ideally suited for most soil types. Avopiling's high powered CFA equipment has been fitted with our own design of drilling head that is capable of drilling into rock layers to form rock sockets.

They are ideal for use as both foundation piles and for embedded retaining walls such as contiguous and secant piled walls.

Advantages

- Low noise and vibration
- Works well in non-cohesive soils
- Cost-effective
- Minimal site preparation
- Suitable for tension loads
- Can be installed successfully into most ground conditions
- Ideal for foundation and piled earth retaining systems

Specifications

- Pile diameters range from 300mm to 1.2 m.
- Piling Lengths range to 35 m.
- Rig weights range from 11t to 160t.



PROJECTS

Lane Cove Tunnel CC2, NSW

PROJECT OUTLINE: The Lane Cove Tunnel is a 3.6 kilometre twin tunnel motorway running under Epping Road. It links the M2 Motorway at North Ryde with the Gore Hill Freeway at Artarmon.

AVOPILING SCOPE OF WORKS: Design and Construction of 840 No. 600mm, 750mm and 900mm piles up to 21m deep.

Seaford Railway Extension, SA

PROJECT OUTLINE: The Seaford Rail Extension project will provide a 5.7 kilometre extension of the dual track rail line from Noarlunga Centre Railway Station to the Seaford District Centre, including: stations and park'n'ride facilities at Seaford Meadows and the Seaford District Centre; a bus interchange at the Seaford District Centre; a 1.2 kilometre elevated rail bridge over the Onkaparinga Valley and a rail bridge over Old Honeypot Drive; road bridges over the track at Goldsmith Drive, Seaford Road and Lynton Terrace.

AVOPILING SCOPE OF WORKS: Design and Construction of 106 No. 900mm and 1200mm piles up to 29m deep.

South Road Superway, Adelaide, SA

PROJECT OUTLINE: The \$842 million South Road Superway project is the biggest single investment in a South Australian road project, and the state's most complex engineering road construction project to date. The South Road Superway is stage two of the north-south transport corridor upgrade and will deliver a 4.8 kilometre non-stop corridor, comprising of a 2.8 kilometre elevated roadway, from the Port River Expressway to Regency Road.

AVOPILING SCOPE OF WORKS: Design and Construction of 740 No. 1050mm dia piles up to 32m deep.



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