



**PILING  
ANCHORING  
DEWATERING**

**NATIONWIDE**

# 1300 949 607

[www.ausheet.com.au](http://www.ausheet.com.au)

ASP Piling is one of the most experienced and comprehensive providers of piling and anchoring solutions to the construction industry in Australia. Our sister company Australian Dewatering Systems is the leading dewatering service provider with Australia's largest fleet of water treatment settlement tanks.

## CFA Piling



For combating vibration on sensitive sites, CFA piles offer a solid solution. The term CFA (Continuous Flight Auger) describes the attachment used to drill and install this pile type. They are a non-displacement pile and are most suited to granular or stratified soil conditions.

CFA piles are commonly used in foundation piling. For retaining wall applications, the CFA technique can be used to install secant, soldier or continuous piles. Continuous piles are a series of CFA piles installed with little or no gap between consecutive piles to form a retaining wall. CFA piles can be installed with minimal vibration near sensitive structures as opposed to driven retention or foundation piles.

ASP Piling can provide CFA piles for both foundation and retaining wall applications.

### Methodology

CFA piles are formed by first drilling into the soil with a continuous flight auger. Cement-sand grout or concrete is then injected through the auger's hollow stem as it is being withdrawn, pressurising the hole to prevent wall collapse. A reinforcing cage is then lowered centrally into the liquid grout or concrete pile.

ASP Piling's goal is to provide the most practical, efficient and economical solution to the client's requirements.

### Advantages

**Minimal Ground Disturbance:** CFA piling is non-displacement which results in minimal ground disturbance and vibration, offering a distinct advantage over driven piling alternatives.

**Versatility:** CFA piling has various applications from secant, continuous and soldier pile retaining walls to foundation piles. The CFA technique can be used in a variety of soil types and is not compromised by the presence of groundwater.

ASP Piling can offer design and construct shoring solutions which combine the risk averse continuous piling in sensitive areas with the cost effective sheet piles in low-risk areas. Thus CFA is used beside adjoining properties susceptible to vibratory damage and sheet piles are used elsewhere.



# ASP CFA Piling



**Above:** CFA piles demonstrate their value in close proximity to neighbouring buildings and can combine with sheet piling.

**Below:** Anchored CFA piles.



**Below:** CFA installation on a site bounded by neighbouring buildings and a highly trafficked roadway.



**Above:** CFA piles form part of this secant wall at Cudgen Surf Life Saving Club that has saved the building from erosion by the ocean.



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