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CONTINUOUS DISPLACEMENT AUGER (CDA) PILING

Roger Bullivant Limited have developed continuous displacement auger (CDA) piling to offer a high production cast in situ displacement piled solution for your project, which is virtually vibration free. CDA piles are straight shafted bored displacement piles which provide enhanced capacity when compared to traditional auger techniques and generate minimal spoil.



DESCRIPTION

CDA piles are straight shafted displacement piles which take advantage of the enhanced pile capacity gained by displacement piling techniques and generate minimal spoil. This piling method is suitable for light and moderate loaded piles (typically up to 500kN) and can be utilised in a range of soils including soft – stiff clays, silts and loose granular soils. Boring and concreting are computer controlled and recorded via sophisticated onboard instrumentation to ensure high quality piles are constructed. The benefits of CDA piling include using less concrete per linear metre of pile than our higher capacity CHD pile and providing higher compressive load capacity than a comparable size and length CFA pile. The advantages of CDA piling are that they provide programme and cost benefits on your project and provide reduced muckaway compared to replacement piling techniques.

APPLICATIONS



Commercial



Residential



Soft to stiff clays and silts, and loose granular soils

ADVANTAGES



Quick installation



Manufactured in-house



Cost effective



Environmentally Friendly

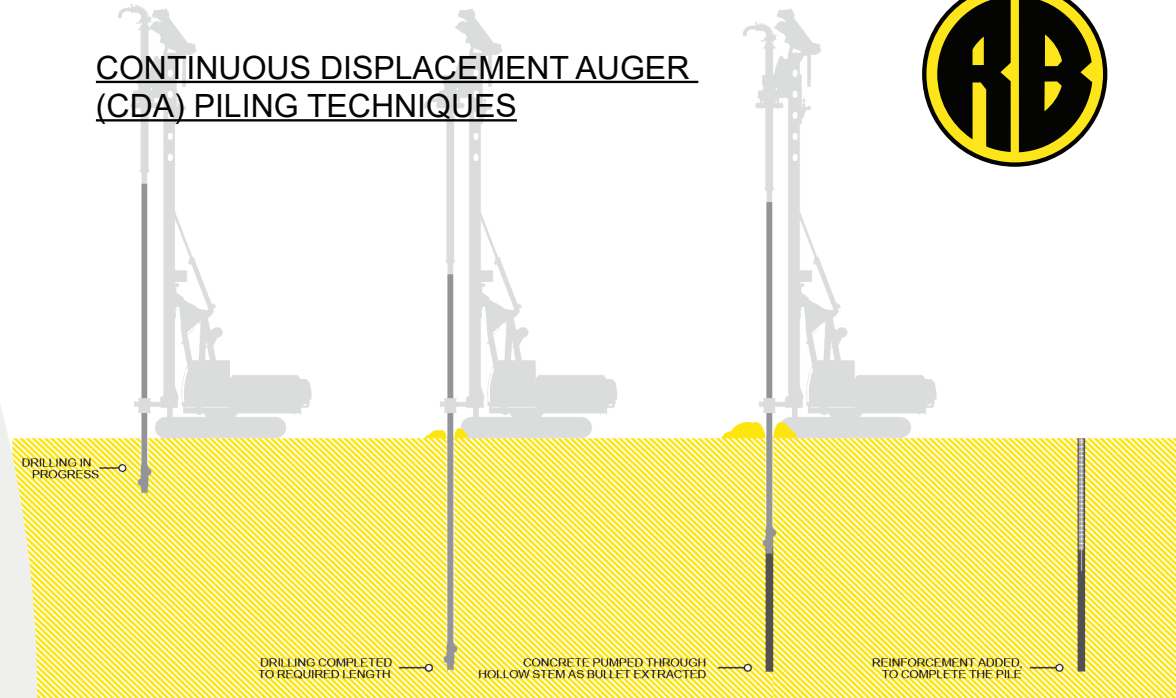


Reduced Spoil



Reduces CO2 emissions

CONTINUOUS DISPLACEMENT AUGER (CDA) PILING TECHNIQUES



INSTALLATION

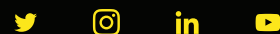
Continuous Displacement Auger (CDA) Piles provide a practical and cost-effective solution to low rise sites where traditionally CFA piles would have been the most common solution. Upon setting up the rig at the required pile position our bespoke displacement tool penetrates the working platform and underlying soil to a depth predetermined by our experienced Design Engineering team. When the design depth is reached concrete is pumped through the rig as the CDA tool is extracted, and the pile is concreted back up to the working platform level.

Boring and concreting are computer controlled and recorded using onboard instrumentation to ensure high quality piles are constructed. The required reinforcement for the pile is installed after the pile has been concreted. This method of installation by displacement produces a pile which is more efficient in compression than a traditional augered pile, resulting in shorter piles to achieve the required loadings, and quicker overall installation. By displacing the ground less muckaway is generated by this technique than the volume produced by CFA piling.

TECHNIQUE CAPABILITIES

SPECIFICATION	FROM	TO
Standard pile size	300mm	400mm
Typical load capacity	100kN	1000kN+
Practical depth	4m	27m

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