



## MINI & MICRO PILED RETAINING WALLS

Mini / Micro piled retaining walls are used to form new basements, provide excavation support or stabilise slopes in areas where either the access or the working area is restricted.

### BASIC TECHNIQUE

Balfour Beatty Ground Engineering (BBGE) offer a range of mini / micro bored, drilled and driven systems including a full design and accredited testing service. Pile diameter, spacing, depth, reinforcement and concrete or grout requirements are all dictated by design and will be influenced by ground conditions, access, propping arrangements and surcharge loading from adjacent structures etc. Our mini piling techniques can be used for both temporary and permanent ground support.

Typically the piles are tied into a capping beam and can be used for vertical support to the new structure. Our small scale plant offer the ability to work within existing buildings and to install close to adjacent structures thereby maximising excavation dimensions.

Lightweight plant can be lifted into tight access situations such as working on slopes, embankments and within cofferdams.



INSTALLING ANCHOR PILES



ROW OF INSTALLED AUGERED MINIPILES



CONTIGUOUS MINIPILED RETAINING WALL

## STRENGTHS

- ✓ Small lightweight equipment
- ✓ Minimal site preparation required
- ✓ Limited headroom, restricted access capability
- ✓ Installation close to adjacent structures
- ✓ Can be installed in most ground conditions with special techniques to overcome problem ground, obstructions and to penetrate rock.
- ✓ Piles can be utilised for compression and tension loading.
- ✓ Can be combined with our ground anchorages, soil nailing or grouting techniques as part of a fully designed solution

## MINIPIILING METHODS USED

- Augered
- Drilled
- Self-Drilled (Micropiles)
- Driven Steel Tube



CONTIGUOUS MINIPILED RETAINING WALL



## TECHNICAL CAPABILITIES – MINI / MICRO PILED RETAINING WALLS

Specification	From	To
Diameters	100mm	600mm
Rig Height	2.2m	8.0m
Rig Weight	2,000kg	15,000kg
Rig Length	1.8m	5.4m
Rig Width	0.75m	2.4m
Operating Distance from face of Wall to Centre of Pile	1000mm	-

*Kingpost, Contiguous, Secant and Post Grouted options are available*

## CONTACT US

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