



Due to their versatility, driven piles are widely used and are suited to most ground conditions. They are particularly suited where the founding strata is overlain by soft alluvial deposits or made ground.

// BASIC TECHNIQUE

Piles are manufactured off site in standard lengths, and driven into the ground using a hydraulic hammer until the required depth/resistance is reached. Where a greater depth is required, the lengths are jointed together using the Multijoint or a pinned UNJoint. In this way, piles can be as long as required to meet the load bearing specifications. Driven piles can also be raked up to 1:3 depending on hammer weight and pile size.

// PILE MANUFACTURE

With a combined capacity of over 1,000,000 metres per annum, Balfour Beatty Ground Engineering (BBGE) has two precast factories in Nottinghamshire and Scotland. Piles are manufactured in 1 metre increments from 5 to 14 metres and in four standard sizes from 190mm² to 350mm². BBGE is also experienced in producing non-standard pile sizes and reinforcement to meet specific needs, as well as in setting up modular pile production units in the UK and overseas.



// TECHNICAL CAPABILITIES

Dimension	From		To	
Practical Depth	Min 2.5m		Unlimited (72m longest to date)	
Standard Pile Sizes	190mm ²	235mm ²	275mm ²	350mm ²
Load Capacity (typically)	300KN	500KN	800KN	1200KN
	(in the right conditions, piles would be capable of carrying loads 25% higher than the above indicated figures)			
Pile Segment Length	Normally between 5m and 14m in one metre increments			
Minimum Working Height	12m		23m	
Typical Rig Weight	36,000kg		67,000kg	
Noise Profile at 10m	77 - 82db at rear of rig		85 - 90db at front of rig	

// TECHNIQUE ENHANCEMENTS

Contaminated Ground

Where piles are required to penetrate contaminated material, modifications can be made to the pile section in line with Environment Agency guidelines.

Noise

Where environmental disturbance needs to be kept to a minimum and other piling techniques may be unsuitable owing to ground conditions, BBGE offers the most up-to-date enclosed hydraulic hammers which keep noise disturbance to a minimum.

// STRENGTHS

- No spoil generated on site
- Speed of installation
- Piling unaffected by ground water
- Ready for immediate follow-on construction

// FOR FURTHER INFORMATION CONTACT:

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