








SUSTAINABLE SOLUTIONS: PRODUCT OVERVIEW

Balfour Beatty Ground Engineering offer a range of sustainable solutions and aim to ensure that the products and services we deliver help to contribute towards our customers' sustainability targets.

BBGE PRODUCT SUSTAINABILITY RATING		
Rating	Products	Applications
	<ul style="list-style-type: none"> • Re-use existing piles • Dynamic Deep Compaction • Rapid Impact Compaction 	Car parks, roads, embankments, lightweight buildings
	<ul style="list-style-type: none"> • Band Drains • Vibro Stone Columns 	Car parks, roads, embankments, light-medium weight buildings, residential properties
	<ul style="list-style-type: none"> • Pencil Rigid Inclusions • Vibro Concrete Columns • Bottom Driven Steel Tubes • Self-Drill Micro Piles 	Car parks, roads, embankments, light-medium weight buildings, residential properties
	<ul style="list-style-type: none"> • Precast Concrete Piles • Auger Bored Minipiles • Auger Displacement Piles 	Light-medium weight buildings, residential properties
	<ul style="list-style-type: none"> • CFA Piles • Steel Tube and H-Piles • Rotary Piles 'Dry' 	Industrial buildings, residential and commercial properties, bridges
	<ul style="list-style-type: none"> • Rotary Piles 'Wet' • Contiguous Pile Wall 	Heavy structures and multi-storey buildings, sports stadiums
	<ul style="list-style-type: none"> • Secant Pile Wall • Diaphragm Wall 	Deep basements, high strength retaining walls
HOW TO IMPROVE RATING		
<p>Common methods include: Use displacement rather than replacement techniques; reduce diameter and length of piles using EC7 and innovative design; use cement replacement in concrete; use 'dry' rotary piling techniques rather than 'wet' (support fluid) techniques; where possible use ground improvement rather than piling.</p>		
<p>Note: The above products have been scored on a rating system that has taken into consideration the following categories: Concrete; Steel; Transport; Equipment; and Spoil.</p>		

Product Rating

SUSTAINABILITY CATEGORY	HOW WE CAN HELP
<p>Environment</p> <p>We use our capabilities to help customers reduce their environmental impacts and respond to environmental pressures.</p>	<ul style="list-style-type: none"> ✓ Calculate and reduce the Carbon footprint of your foundations solutions ✓ Reduce spoil and materials to landfill to a minimum ✓ Improve your BREEAM / CEEQUAL scores ✓ Precast Concrete Pile factories use recycled materials and cement replacement products ✓ Install Geothermal piles on your project
<p>Community</p> <p>We design and build Ground Engineering solutions that recognise our responsibilities to individuals and communities in which we work.</p>	<ul style="list-style-type: none"> ✓ Commitment to Zero Harm on all our sites ensures our workforce and the public are kept safe ✓ Keep noise and vibration to a minimum ✓ Engage local suppliers where possible ✓ Develop logistics plans that minimise our impact on the local community
<p>Economical</p> <p>Our approach to sustainability can provide real economic benefits to our customers.</p>	<ul style="list-style-type: none"> ✓ Provide our customers with the widest range of Ground Engineering solutions, helping them to make an informed choice ✓ Re-engineering schemes to reduce amount of materials required ✓ Early contractor involvement allows us to develop the most cost-effective and efficient Ground Engineering solutions for our customers

FOR FURTHER INFORMATION CONTACT:

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