

RB COMBIPILE

RB combipile provides a robust, versatile, cost-effective, and environmentally friendly deep foundation solution. Where obstructions in the ground exist that may damage the precast pile, a combipile solution can be adopted; part steel tube, part precast. The recycled steel tube is driven first, before joining segmental precast to create the combipile. They can be used in most ground conditions but are most suited to hard or lightly obstructed ground where a driven precast concrete pile solution may not work.



DESCRIPTION

RB driven combipile provides a robust, versatile, cost-effective, and environmentally friendly deep foundation solution suitable for driving in aggressive or uncertain ground conditions up to 40m deep. This piling method is most suited where a driven precast concrete solution cannot be adopted. The part steel tube and part precast solution is then preferred.

No spoil is produced during the installation process as the pile displaces the lower level strata as it is driven deeper into the ground.

A wide range of pile sizes, joints, and rig types allow combi piles to be used as the foundation for the majority of structures including commercial, industrial, residential, and can be suitable where rock and heave are present.

RB Combipile is a quick and clean displacement piling solution which is immediately ready for follow on construction.



APPLICATIONS



Brownfield sites



Commercial and Residential



Industrial



Aggressive and layered soil

ADVANTAGES



Saves time



Quiet installation



Cost effective



Bespoke geotechnical design



Zero spoil



Immediate follow-on construction



Purpose built rigs



Manufactured in-house

INSTALLATION

Piles are top driven using RB's purpose-built hydraulic drop hammers, which are super silenced and part of the company's fleet of remotely operated hammers ranging in weight from 3-6 tonnes.

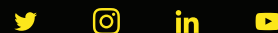
Piles are driven in segmental lengths ranging from 3m to 6m to suit the depths required and minimise product wastage. The technique is formed with a recycled steel lead section followed by a prefabricated RB precast concrete pile.

A piling solution that generates no spoil for costly disposal; has the minimal pile cut off waste and trimming costs and can attain high product rates, making it a robust and piling solution for the more challenging geotechnical conditions.

TECHNIQUE CAPABILITIES

SPECIFICATION	FROM	TO
Segmental pile length	3m	6m
Typical load capacity	50kN	500kN (site dependant)
Practical depth	3m	40m

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