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Grundomat Piles

Grundomat piles are a type of bottom driven steel tubular pile often used for in the domestic market for property extensions and underpinning. The word grundomat refers to the tool used to drive the pile – no piling rig is required. This allows piles to be installed in confined working areas and sites with heavily restricted access.





DESCRIPTION

The Grundomat technique is a type of Bottom Driven Steel Tubular Pile, which uses compressed air to drive the piles. They are available in two diameters, 100mm and 150mm, and can support safe working loads of 50kN and 100kN, respectively. Extra tube sections can be welded together as required until the design depth is reached.

They are therefore best suited to lightweight structures, although they are often installed in groups to support greater pile cap loads. Using lightweight machinery generates minimal vibration making this technique ideal for environmentally sensitive areas.



APPLICATIONS



Residential



Infrastructure

ADVANTAGES



Minimal site preparation



Limited headroom & restricted access



Minimum vibration



Quick installation



Small lightweight equipment



Zero spoil

INSTALLATION

A starter casing, a closed ended thin wall steel tube, is filled with a limestone or dry mix plug. The Grundomat is then placed inside the starter casing and connected to an air compressor through an in line lubricator.

The Grundomat pneumatically drives the starter casing until the top of the casing is just above ground level. Driving is then paused and a follower,

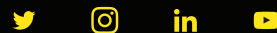
an additional open-ended casing, is welded onto the starter casing.

The driving process is recommenced and additional casings are added as necessary. The piling process is completed once a pre-determined length or set rate of penetration is achieved. The Grundomat is withdrawn from the pile and the pile is filled with either grout or concrete.

TECHNIQUE CAPABILITIES

SPECIFICATION	FROM	TO
Standard pile size	100mm	150mm
Range of load capacity	50kN	100kN
Range of pile depth	5.0m	15.0m

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