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DRIVEN STEEL TUBULAR PILING

Driven Steel Tubular Piles are a displacement piling technique, often used as an alternative method to Driven Precast Concrete Piles where difficult or uncertain ground conditions are likely to be encountered. In hard driving conditions or in ground where obstructions or boulders are present, driven tubular steel piles are the preferred solution.



DESCRIPTION

Driven steel tubular piles provide a robust, versatile, and sustainable foundation solution, suitable for use in difficult or uncertain ground conditions. Hard driving conditions, backfill, obstructions, or boulders can all be dealt with using this solution

Produced from recycled steel casings, these piles are driven in segmental lengths ranging from 3m to 6m. The piles are capable of carrying appreciable axial loads and also have tensile and shear resistance capabilities

As well as offering a robust piling technique with increased driving capabilities in difficult ground conditions, tubular steel piles offer increased penetration characteristics enabling them to be used where significant embedment into rockhead is required. Often used where embedment is required into steeply sloping bedrock incorporating supplemental rock-socketing.

APPLICATIONS



Commercial



Residential



Infrastructure



Industrial



Alluvial deposits



Contaminated and made ground

ADVANTAGES



Quick installation



Minimum site preparation



Pile stability



Environmentally Friendly



Zero spoil



Ideal or sensitive areas



INSTALLATION

Piles are top driven using purpose-built rigs with hydraulic hammers ranging in weight from 3T to 6T.

Piles are usually installed to a 'set' or 'refusal' to achieve the required SWL.

Typically, piles are driven open-ended where a soil plug is formed internally at the bottom of the casing. The internal void is then subsequently filled with concrete or grout and reinforcement incorporated for tying into the pile cap.

TECHNIQUE CAPABILITIES

SPECIFICATION	FROM	TO
Standard pile size	140mm dia	340mm dia
Typical load capacity	250kN	800kN
Practical depth	4m	40m

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