



60R Screw Piles - Product Page

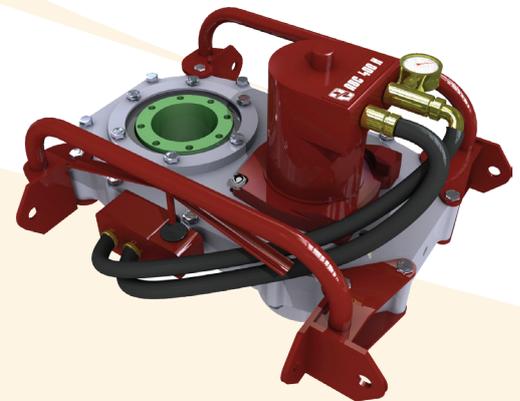
Specification	Definition	60R
Wall Thickness	Thickness of the screw pile tube wall	6.35mm
Torque Limited	The ability of the pile to transmit torque is always the limiting factor. This is therefore the ultimate practical pile install torque capacity. For handheld installation the torque is limited to 4kNm.	4kNm
Empirical torque factor Kt Kt m ⁻¹	This is the 'Empirical Torque Factor' expressed in metric units when torque is measured in kNm and force in kN. Its value decreases as pile diameter and helix plate thickness increases. This is due to a combination of skin friction and the energy needed to displace the soil.	30m ⁻¹

Installation Equipment

The 60R Anchors can be installed using the hand held 400H or the excavator mounted 500X.

The 400H compact size allows it to fit through doorways therefore is very useful on sites with limited access. It is driven from a hydraulic powerpack. The 500X fits excavators from 2-7 tonne.

Both machines offer torque read outs, allowing the pile capacity to be calculated instantly.



	400H (Handheld)	500X (Excavator)
Ultimate pile capacity (un-factored) @ 5kNm torque		150kN
Ultimate pile capacity (un-factored) @ 4kNm torque	120kN	
Safe working load (2.5 FOS) @ 5kNm torque		60kN
Safe working load (2.5 FOS) @ 4kNm torque	48kN	

- **Un-factored load** - A maximum load that the pile will take before deflection exceeds standard limits
- **Factor Of Safety (FOS)** - The ratio between un-factored and working load
- **Safe Working Load (SWL)** - The actual load the pile is taking when the building is in place

Tube Specification	BS EN-10297 E355 HFS
Helix Specification	BS EN-10025 S275
Fasteners Specification	METRIC M16 GR8.8

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