Welcome to the second webinar in the series

‘Displacement Restricted Access Piling'

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Restricted Access Driven Piling

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Mini Piling Manager – South East

David Johnson *BEng (Hons) FGS*
Area Manager – South Wales

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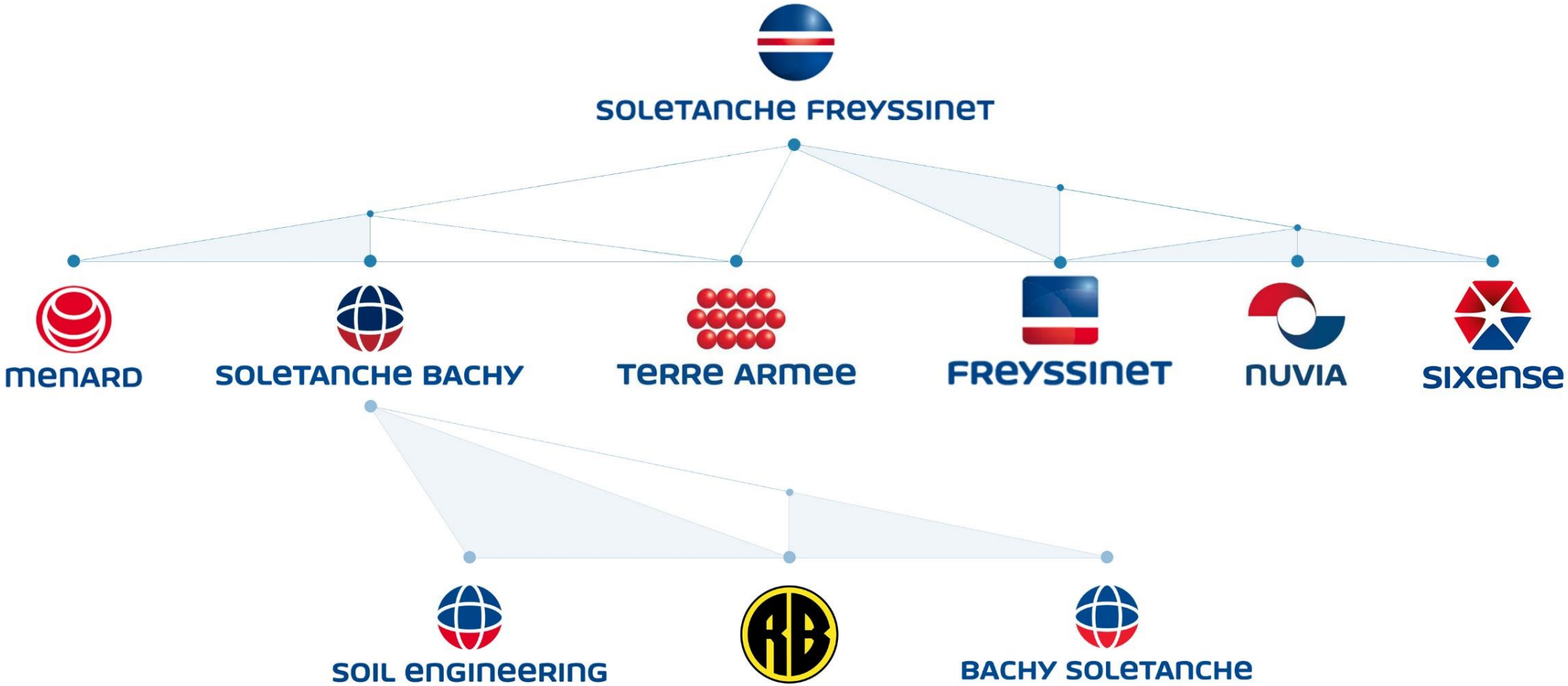
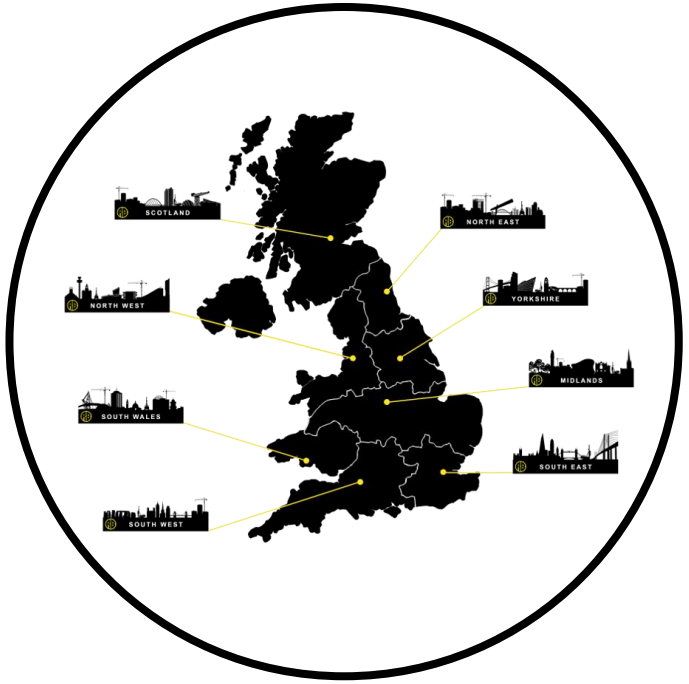
Our Business


SOLETANCHE FREYSSINET
MENARD
SOLETANCHE BACHY
TERRE ARMEE
FREYSSINET
NUVIA
SIXENSE
SOIL ENGINEERING
RB
BACHY SOLETANCHE

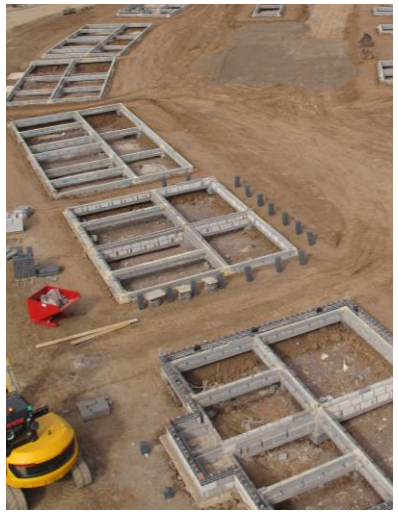
About


SCOTLAND
NORTH EAST
NORTH WEST
YORKSHIRE
MIDLANDS
SOUTH WALES
SOUTH EAST
SOUTH WEST

Wealth of experience...

PILING

GROUND IMPROVEMENT



FOUNDATIONS

RESTRICTED ACCESS

Restricted Access Driven Piling

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Top Driven
Pre-cast Concrete

Top Driven
Steel Tube

Bottom Driven
Steel Tube

03

Top Driven Pre-cast Concrete

Pre-Cast Concrete

- Manufactured by RB
- Midlands Distribution centre
- Large stock of piles
- Variety of sizes, lengths, reinforcement and joint details

Pre-Cast Installation

Pre-Cast Concrete

- 175mm & 200mm square
- 200KN – 250KN
- No Spoil
- Low waste
- No necking or bulging
- Immediate follow on construction

Case Study- South West

Key issues/requirements

- Headroom restrictions on access road to site
- Keen programme requirements
- Loose fill overlying Dense Sands
- Undulating soils
- Residential pile loadings Circa 200KN

Project Solution

- 56 No. 200mm2 Pre-cast piles
- Tailored lengths of 2m and 3m to reduce waste
- Immediate start for follow on trades
- No spoil created

04

Top Driven Steel Tube

Thick Wall Steel

- Used casing from the oil industry
- Minimum grade - API 5CT L80 (552 MPa Yield Strength)
- Large stock quantities
- Open or closed ended
- Variety of lengths and diameters available.
- Wall thickness 8mm – 13mm

Thick Wall Steel

- 140mm & 178mm
- 250KN
- Brownfield sites/ Hard driving
- Low displacement
- Recycled Steel
- Tube acts as the structural pile element.

Case Study -Scotland

Key issues/requirements

- Brownfield site
- Constrained working area
- Hard band overlying softer soils before rock
- Piles required to carry tensile loads

Project Solution

- 178mm Thick wall steel to 12.0m
- Concrete filled with central bar
- 3.0m lengths
- Dynamically tested whilst rig on site

03

Bottom Driven Steel Tube

Bottom Driven Steel

- Thin wall casing
- Crimped end with collar (Starter casing)
- Open end with collar (Follower Casing)
- Various diameters, generally 2m section length.

Bottom Driven Steel

Bottom Driven Steel Tube

- 100mm diameter to 323mm diameter
- 50kN to 400kN
- Compact rigs and minimal equipment required
- Internally driven – ideal for restricted headroom projects
- Minimal vibration
- Electric rig

Grundomat Piles

Case Study- South East

Key issues/requirements

- Weight limit on bridge into site
- Low noise and vibration required
- Limited deliveries
- Poor Ground conditions

Project Solution

- 88 No. 220mm dia. piles to 14.0m
- Piles driven through soft ground into chalk
- Deliveries scheduled for off peak times
- Noise and vibration kept to a minimum

Presentations

Upcoming

- 21st April - Specialist Restricted Access

Previous

- An Introduction to Driven Piling
- Wet Displacement Piling
- Foundations You Can Build On
- Ground Improvement
- Rotary Restricted Access Piling

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