



VAN ELLE

TOTAL FOUNDATION SOLUTIONS

Van Elle Ltd – Geotechnical Techniques

- ❖ **Geotechnical Services**
 - Vetrak Restricted Access Cable Percussive Rig
 - Cable Percussive and Rotary Boreholes
 - Window Sampling and Dynamic Probing
 - Environmental Drilling
 - Insitu Testing and Sampling
 - Laboratory Testing
 - Noise and Vibration Monitoring
 - Insitu Monitoring and Instrumentation
 - Pile Testing (static, dynamic & integrity)
 - Geothermal Borehole Installation

- ❖ **Restricted Access Piling**
 - **Driven Piles**
 - Steel Cased Driven – 75mm to 323mm diameter
 - Vemch Precast Concrete Piles – 150mm or 200mm square
 - Circular Hollow Section (CHS)
 - **Drilled Piles**
 - Rotary Auger Bored Piles – up to 1000mm diameter
 - Sectional Flight Auger (SFA) - up to 750mm diameter
 - Rotary Percussive – up to 600mm
 - Duplex Rotary Percussive – up to 660mm diameter casing and 600mm diameter socket
 - Odex Rotary Percussive – up to 275mm diameter
 - Screw piles
 - Drilled Hollow Threaded Bar Systems
 - Geothermal Piles

- ❖ **Open Site Piling**
 - **Driven Piles**
 - Precast Concrete – 200mm to 350mm square
 - Steel Tube
 - Steel H-Section
 - Bottom Driven thin Wall Steel
 - **Drilled Piles**
 - Odex Rotary Percussive – up to 275mm diameter
 - **Augered Piles**
 - Continuous Flight Auger (CFA) – 300mm to 1050mm diameter
 - Contiguous and Secant Piled Retaining Walls – up to 1050mm diameter
 - Rotary Bored Piles – up to 2100mm diameter
 - Auger Displacement – up to 450mm diameter
 - Geothermal Piles

- ❖ **Ground Stabilisation**
 - Drilling and Grouting – investigation and subsequent consolidation
 - Ground Anchors – temporary and permanent bar, strand and self-drilling
 - Soil Nails – temporary and permanent bar, strand and self-drilling
 - Soil Mixing

- ❖ **Smartfoot® Precast Modular Foundations**
 - Uniquely installed with or without piles
 - Fast/Safe
 - Cost-effective
 - Sustainable
 - No waste/reduced excavation

- ❖ **Subsidence Repair**
 - Piled Rafts/Needle Beams
 - Hoopsafe® Structural Stabilisation System
 - Brickbeam® Structural Stabilisation System
 - Compaction Grouting and Void Grouting Beneath Floor Slabs
 - Jackdown Piling
 - Jacking Up and Levelling of Structures

