



GROUND TECHNOLOGY



Ground Movement and Subsidence

Our multi-skilled professional engineers offer a wide range of subsidence and settlement investigation services, identifying the problem and developing an investigation/monitoring schemes and designing the necessary remedial treatment.

We have instant access to building surveyors, structural engineers, drainage engineers, geotechnical engineers, geologists and construction professionals who together can identify the causes and contributing factors to the subsidence or settlement of all types of structure. We have in-house expertise and experience of investigating subsidence and settlement problems relating to:

- Dissolution features in Chalk
- Mineral Extraction
- Tunnelling and Mining
- Shrink/Swell of Clay Soils
- Drainage Problems
- Vegetation Damage
- Unsuitable Foundations
- Damaged Foundations
- Structural Problems

We approach subsidence issues by carrying out detailed site visits and surveys in combination with desk study exercises to determine the most likely causes and how these should be investigated. We then economically design an investigation and monitoring scheme to identify the cause. We ensure the investigation phase provides sufficient information to allow economic design of any remedial scheme undertaken. The ground investigation can be undertaken using our in-house resource, supplemented by non-intrusive geophysical techniques where necessary.

Our teams of engineers and site investigation specialists provide detailed interpretative reports. The investigation, monitoring and lab data can be analysed rapidly, and economic and practical solutions and advice on remedial treatments provided. We are able to provide specialist advice and designs on remedial schemes involving all or some of the following techniques:

- Grouting
- Underpinning
- Shoring
- Drainage Improvements
- Vegetation Management