



## Construction Materials Testing

With fully equipped and accredited testing laboratories in Warrington, Harlow and Portlaoise, Testconsult can offer a truly nationwide service across the UK & Ireland.

The principle aim of our organisation is to offer a rapid, reliable and affordable testing service for the construction industry. We can provide this by using the latest testing equipment and concentrating on quality control and staff training.

With our network of laboratories we are able to provide a local and nationwide service and manage small and large testing quantities at short notice. We want to service your testing requirements, what-

ever your needs and provide you with a one stop shop.

### Laboratory & Site Testing

All our laboratories are set up to carry out a range of in-situ tests and sampling services, to cover soils, fresh and hardened concrete, aggregates and blacktop.

We can set up temporary site laboratories and arrange accreditation if required on larger road jobs. We service road construction jobs, quarries, civil engineering projects, geotechnical and drilling contractors and local authorities, all with the same aim — to offer an excellent service.

## Services

- ◆ **UKAS Accredited across a range of tests to ISO17025**
- ◆ **Fast Efficient Service**
- ◆ **Rapid Result Turnaround**
- ◆ Soils, Aggregates and Bituminous Materials testing
- ◆ Concrete, blacktop and masonry core sampling and testing
- ◆ Concrete Cube making, collection and testing service
- ◆ In-Situ testing including Plate Bearing, CBR & Nuclear Density
- ◆ Chemical analysis of materials
- ◆ Structural testing facilities for component assessment
- ◆ Environmental Studies — Noise, Vibration & Dust
- ◆ Fully Independent Service



See accreditation schedules for full list of accredited tests

## Testconsult Services

### Concrete Testing

ASR Identification  
Carbonation depth  
Chemical analysis of hardened concrete  
Chloride, sulphate and cement content  
Compressive strength of cores  
Compressive strength of cubes  
Density  
Dynamic modulus of elasticity  
Flexural strength  
HAC Identification  
Initial surface absorption  
Petrographic analysis  
Static modulus of elasticity  
Tensile splitting strength  
Water absorption

### Soils

BS1377 classification tests  
Bulk Density  
Laboratory CBR  
Linear shrinkage  
Liquid & Plastic limits  
Moisture condition value  
Moisture content  
Optimum moisture content  
Organic matter  
Particle density  
Particle size distribution  
Plasticity Index  
Sulphate content/pH Value  
Un-drained shear strength  
Uniformity coefficient  
Chemical & electro-chemical tests  
Compaction related tests  
Compressibility, permeability etc.

### Aggregates

10% fines value  
Aggregate abrasion value  
Aggregate crushing value  
Compaction fraction  
Density & absorption  
Elongation index  
Flakiness index  
Frost heave  
Los Angeles coefficient  
Micro-duval  
Moisture content  
Particle size distribution  
Polished stone value  
Slake durability  
Soundness  
Sulphate content  
Water soluble chlorides

### Bituminous Materials

Air voids  
Chipping binder condition  
Chipping rate of spread measurements  
Composition  
Max theoretical density  
Percentage refusal density  
PSD & binder content  
Texture depth

### Site Testing

Aggregate & soils sampling  
California bearing ratio tests  
Concrete sampling & testing  
Contamination land assessment  
Diamond coring  
Nuclear density  
Plate bearing tests  
Falling Weight Deflectometer  
Rolling straight edge

### Environmental

Noise and Vibration monitoring  
Equipment hire  
Hand-arm-whole body vibration  
Dust monitoring  
Wind farm environmental studies

### Geotechnical Testing

Pile Integrity testing  
Sonic logging of foundations  
Dynamic load testing of piles  
Static load testing of piles  
Parallel seismic testing  
SPT Hammer Energy Analysis  
Transmission tower assessment  
Inclinometer & Piezometer installation

### Structural Testing

Depth of cover  
Half-cell potential mapping  
Depth of carbonation  
Resistivity  
Delamination surveys  
Rebound Hammer surveys  
Pull-off and pull-out tests  
Humidity and moisture levels  
Ultrasonic surveys  
Structural proof load testing  
Component proof load testing  
Rate of corrosion monitoring  
Dynamic load testing  
Stress and Strain measurement  
Remote and web monitoring systems

## Contact Details

### Warrington Office

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