



CitySurveys

City Surveys Ltd, Garden Apartment,
1 Linnet Lane, Liverpool, L17 3BE
t: 0151 726 8334 f: 0151 726 0422
e: info@citysurveysltd.co.uk
w: www.citysurveysltd.co.uk

STRUCTURAL INVESTIGATIONS DATA SHEET



City Surveys offers the complete range of structural investigation, construction materials analysis and advisory services to the construction and engineering industries

With a staff made up of experienced technicians and time-served former senior engineers from some of the world's leading firms we are able to continue our philosophy of offering a superior level of service at considerably more competitive rates.

The range of services delivered by our Structures Division prove invaluable to a vast client base ranging from architects and structural engineers to civil engineering firms and other specialist contractors, significantly those based around the railway infrastructure.

HOW CAN WE HELP YOU?

Our substantial team of highly-qualified engineers and technicians carry out comprehensive testing, scanning and analysis of existing structures and construction materials, calculating the factors responsible for decay and delivering highly informative, comprehensive analytical reports that help advise you on the appropriate course of action.

Through a series of exhaustive investigations, our engineers can deliver advice critical in illustrating how an existing structure or material will respond if altered. Furthermore, we can also provide a series of options and requirements should you choose to act on our engineers' recommendations.

Please note this is merely a selection of the structural investigation and testing services that we offer. For more information on our **Structures Division** or to discuss a particular project, simply call our office on **0151 726 8334** and a member of our team will be happy to speak with you.

SECTORS INCLUDE

Network Rail infrastructure
LUL and DLR infrastructure
Highways

Civil and structural engineering
Property development
Construction

SERVICES INCLUDE

Structural and Concrete Scanning

Ground Penetrating Radar surveys
(multiple applications)
Location of ducts, voiding, foundations
and other buried objects
Ferrous scanning surveys
Depth of cover and rebar mapping



Laboratory Analysis

Chloride ion and sulphate content
Cement content
Compressive strength of cores
Petrographic examinations
HAC & ASR - presence and condition
Steel - identification of type & strength
UKAS accredited soils testing through
partner laboratories



Monitoring Services

Vibration monitoring
Tilt monitoring
Displacement monitoring
Pressure monitoring
Temperature monitoring
Wind speed and direction monitoring
Free online, secure and real-time data
viewing



Structural Testing

Half-cell potential mapping
Resistivity and depth of carbonation
Pressure testing
Delamination and hammer rebound surveys
Pull-off and pull-out tests



Structural Testing cont..

Humidity and moisture levels
Ultrasonic surveys
Borescope investigations
Sampling by dust & diamond coring
Steel, paint and coating sampling
Tensile testing and residual stress
Static & dynamic load testing of floors



Geotechnical Testing

Desktop studies	Trial pits
Cable percussive boreholes	Slit trenching
Rotary boring	Vacuum excavation
Driven window sampler boreholes	Detailed geotechnical reports

