



Integri-test

Electronic Leak Detection Services

Third Party Quality Assurance Testing

A Lockfield Holdings Pty Ltd Brand

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What We Do & What We Offer

Electronic Leak Detection.

Our Consultants are able to assist at various points within the lifecycle of an installed membrane, assisting in identifying breach locations within installed membrane systems.

Our main focus is on post installation compliance testing via Electronic Leak Detection / Continuity testing.

We are also well equipped to perform the role of a quality assurance technician during the installation process, we can perform a range of duties including observing and reporting on the technical aspects of a membrane installation and its conformance or deviation from the project specification.

Our primary Electronic Leak Detection services utilise the Detec Integriscan unit

This Electronic Leak Detection (ELD) method establishes a voltage potential between the membrane and the roof deck and then tracks any leakage current. Results are attained by wetting the surface of the membrane, applying a low voltage and then locating areas where electrical current flows through any membrane breaches to the deck. A scanning platform tests the membrane for pin-holes or voids; dual metal sweeps make continuous electrical contact with the membrane surface. A Vertical Scanning Unit (VSU Roller) can be used on horizontals, details, transitions and is the only reliable low voltage testing method for vertical surfaces. Both units perform the procedures advocated in AS3740-2021 Appendix C.3 and comply with ASTM Practice D7877- 14 and D8231-19.

Benefits:-

- Confirms conclusively if a horizontal or vertical membrane is watertight
- Used to test non-conductive membranes in difficult to reach areas, transitions, corners, parapet/wall seams, penetration seals, and vertical surfaces.

Additional Scanning capabilities include:

The Tramex RWS Roof and Wall Scanner is a multi-mode non-invasive impedance scanner designed for the instant, precise and non-destructive evaluation of moisture conditions and leak tracing in roofing as per ASTM D7954.

Integrity-test utilise the RWS to evaluate the extent of the moisture problem and help trace and pin-point its source through moisture surveying techniques.

Our Third party inspection services focus on integrity testing of installed membranes.

Our work on Residential & Commercial projects include both new construction and repairs/restorations phase activities.

Along with Lockfield Holdings' Asset Sustain business unit, we offer a comprehensive range of services to within Specialist Contracting fields.





With over 30 years experience within Structural waterproofing, Protective coatings and Concrete Repair markets. We have extensive collaborative working experience: Working for, and with, Clients, Principle Contractors, Facilities Managers and Specialist Contractors.

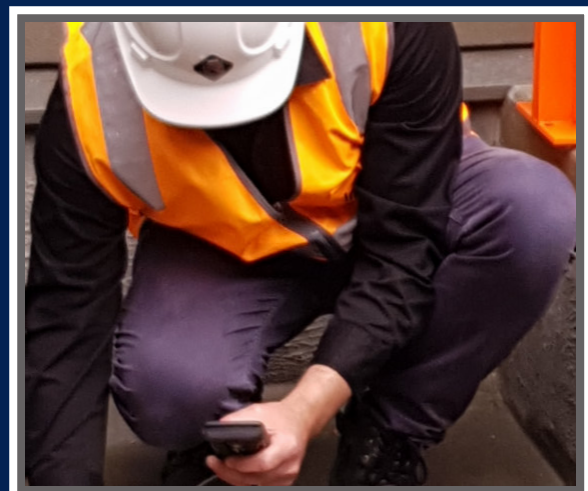
Moisture Surveying

Our Consultants carry out non-destructive electrical impedance scanning to Roofing Systems and Externally Insulated Facades: By plotting comparative moisture content values obtained through non-destructive electrical impedance scanning. The results indicate moisture pathways and potential areas of concern regarding thermal efficiencies and locations of possible system failure.

We can perform Non-destructive digital multi moisture meter surveying of concrete floors and slabs, providing a quantitative measurement of moisture content using Gravimetric testing as a baseline. Our Services include the provision of Carbide Method equivalent readings for concrete and other cementitious substrates to provide comparative data.

Readings via probe sensors ascertain Equilibrium Relative Humidity, Temperature, Dew Point and Humidity Ration within structural materials.

Destructive PIN meter readings establish the Wood Moisture equivalent readings to provide comparative quantitative measurements for most building materials.



Adhesion Testing

Adhesion is an important physical property of any applied bonded membrane or protective coating, significantly contributing to the performance of the installed system when exposed to harsh operating conditions.

Our technicians focus on providing adhesion testing services that meet your project's needs. We carry out adhesion testing of membranes and coatings to help you meet the requirements of Australian Standards and manufacturer specifications to evaluate the performance of coatings upon application or of those that have been in service for extended periods and may require maintenance.

Dry Film Thickness Testing

Ultrasonic gauges measure the thickness of coatings without damaging the installed system and allow for onsite non-destructive testing of the installed membrane to determine applied coating thickness. We have meters suitable for ferrous non-ferrous metals and to measure the dry film thickness of organic coatings on concrete, wood and wallboard substrates.

Integri-test utilises the DeFelsko Positector Ultrasonic dry film thickness gauge; our advanced body unit can measure individual layer thicknesses in multi-layer systems and features a graphic readout for detailed analysis of the coating system.

