

Controlit[®]
FACTORY

Detec^{*}
systems
IntegriScan Equipment Partner



ELECTRONIC LEAK PREVENTION

DESIGNED FOR PERMANENT TESTABILITY

THE PROBLEM

**The industry does not have a detection problem.
It has a prevention problem.**



A roof can pass testing after installation and still be compromised before handover.

Multiple trades operate on the roof. Every penetration, fixing, and movement introduces risk.

Traditional methods only validate waterproofing at one moment.

- Flood testing confirms performance temporarily
- Visual inspection only assesses obvious surface condition

Leak Prevention requires repeatable verification over time.

FROM DETECTION TO PREVENTION

From Electronic Leak Detection (ELD) to Electronic Leak Prevention (ELP).

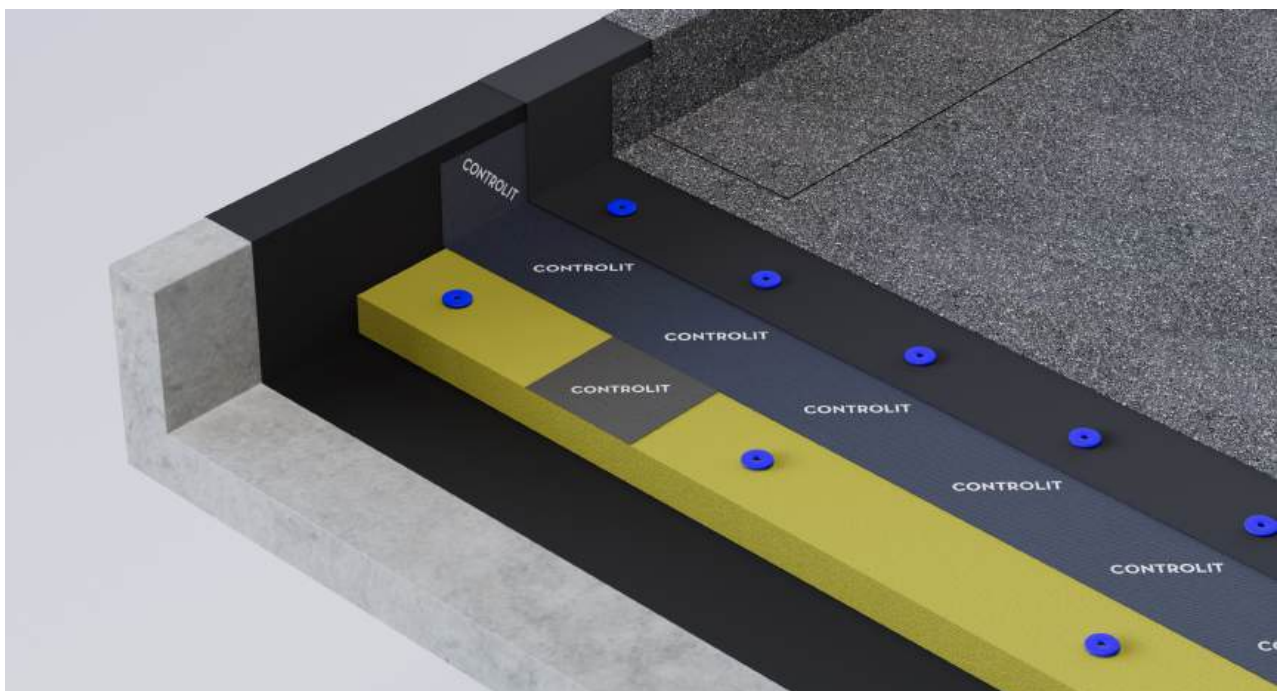
Electronic Leak Detection (ELD) becomes preventive when the system is designed for permanent testability.

Electronic Leak Prevention (ELP) is the integration of ELD into a permanently testable waterproofing system.

Preventive testing requires a stable, continuous and highly conductive layer directly under the waterproofing membrane.

This enables:

- Full-surface coverage
- Controlled testing conditions
- Accurate and repeatable verification over time



THE SYSTEM

One function: permanent testability.

Controlit® Conductive Underlay

The required conductive base.



- Provides continuous, uniform conductivity across the entire surface
- Maintains stable conductivity over time
- Enables accurate, repeatable ELD testing
- Compatible with bituminous systems, PVC, TPO, EPDM

IntegriScan™ by Detec Systems

Low Voltage ELD testing instrument.

- Applies low voltage current across the waterproofing surface
- Identifies and pinpoints breaches by detecting current flow
- Tests horizontal and vertical surfaces
- Tests non-conductive and semi-conductive (black EPDM) systems
- FM approved
- Complies with ASTM D7877 and D8231



SYSTEM LOGIC

Controlit creates the base, Integriscan reads it.

Each test covers the full surface. Each result is comparable to previous tests. Testing becomes repeatable. Verification becomes consistent.



Not all conductive solutions support preventive testing. Temporary conductivity and incidental conductive materials produce results that vary with site conditions and cannot be compared over time.

Controlit is engineered specifically for long term performance, with uniform conductivity, dedicated connection points, and stable resistance across the full surface for the life of the building.

IntegriScan is the only low voltage equipment that meets both ASTM D7877 and D8231, pinpoints breach locations without a perimeter wire, and operates across horizontal surfaces, vertical surfaces, transitions, and details in a single operation.

WHEN TO TEST

Prevention follows a structured verification sequence.

After Waterproofing Installation

- Testing confirms installation quality.
- Breaches from workmanship or detailing are identified and corrected before any other operation takes place.

Before Building Handover

- Following installation, multiple trades operate on the roof.
- Equipment installation, fixings, and traffic introduce new risks.
- Testing at this stage identifies all breaches introduced during the construction phase.

For Preventive Maintenance

- Environmental exposure and maintenance activity progressively affect membrane condition.
- Periodic testing identifies breaches early, before leaks appear.
- Repairs remain localized and controlled.

After specific events

- Severe weather or subsequent works, introduce defined risk.
- Testing after each event restores a verified condition.
- The system builds a continuous integrity record across the building lifecycle.

BENEFITS FOR STAKEHOLDERS

BUILDING OWNER

A waterproofing system that remains verifiable at any stage. Every breach can be located and repaired before water ingress.

MAINTENANCE CONTRACTOR

Testing provides a structured method for identifying damage. Interventions are targeted and documented.

ARCHITECT / DESIGNER

Specified performance becomes measurable. Design intent remains verifiable beyond installation.

MANUFACTURER

System performance is demonstrated under real conditions over time.

GENERAL CONTRACTOR

Waterproofing condition is validated before handover. Project risk is controlled at delivery stage.

WATERPROOFING CONTRACTOR

Installation quality is confirmed objectively.
Workmanship is documented at each verification stage.



IF IT CANNOT BE TESTED, IT CANNOT BE TRUSTED

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