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## ELECTRONIC INTEGRITY – LOW VOLTAGE TESTING

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The impression of non-destructive electronic integrity/leak testing works on the principal that the waterproofing is an electrical insulator and the substrate below is an electrical conductor. For example this type of leak testing will not work on roof with tiles or slates or cladding/sheeting. If a breach in the waterproofing exists there is a pathway for an electrical current to flow through it to an electrical earth.

Throughout the test a safe low voltage electrical charges are projected over the surface. Where a opening exists, for example, at a damage in its surface the test voltage will be conducted by the substrate. Using probes and a meter the test technician traces any voltage flow to pinpoint the breaches. All breaches in the waterproofing can be traced in this way. The breaches can be repaired at the time of the testing and the repairs retested to confirm that they are watertight or they can be marked on the surface and plan in the diagnostic report alongside photographic proof can be provided to ensure these areas are now watertight.



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Low voltage electronic leak testing can be used in for extra assurance alongside guarantees ect.. testing or during investigations to trace existing leaks allowing a waterproofing to be handed-over in a watertight condition showing that extra measures have been put in place to attempt to get the roof looked at by a number of people, not just one party.





