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ELECTRONIC INTEGRITY – HIGH VOLTAGE TESTING

The idea of non-destructive electronic leak testing relies on the aspect of waterproofing i.e. felt, single-ply, asphalt, rolled asphalt, hot melt etc. there is an electrical insulator and the substrate below is an electrical conductor which is penetrated into the flat roofing substrate.

Any damages to the existing waterproofing creates a pathway for an electrical current to flow through it to an electrical earth. High voltage electronic leak testing identifies the accurate sites and exact number of potential leak causes in the waterproofing.

Electronic integrity testing cannot be used on all waterproofing and a visual examination will give an idea of what is required in terms of what type of leak test will be necessary. At the time of the test the substrate of the waterproofing must be clear, reachable and dry.

The equipment will omit an electrical current over the surface of the roof, when this current meets the hole or split in its surface the test voltage will be conducted by the substrate. Using a conductive brush the relevant technician will locate and mark up where the current has been lead to. All fissures in the substate can be traced in this way. The breaches can be repaired at the time of the test, following this there repairs can be retested to confirm that they are watertight or they can be marked on the surface and plan in the diagnostic report issued on completion and repaired at a later date, photo/ and report evidence will back up this information.



