

Technical bulletin

Use of electrical installation systems after water damage

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This technical bulletin provides you with information on specific technical subjects. It is based on the current rules and regulations and on our current test results. The contents of this document is not legally binding.

Underfloor and wall electrical installation systems

Due to their material properties, underfloor electrical installation systems and wall installation systems made of galvanised sheet steel or aluminium are suitable for use in dry rooms with dry or wet-cleaned floors. The moisture (screed) encountered when laying underfloor systems is not significant.

1 Consequence of water damage to metallic components

Continued wetting of the installation system has no impact on the pure underfloor duct. After complete drying (e.g. using hot air), the systems can be used again. Systems and system components made of non-ferrous materials may produce deposits, such as white rust, or may dissolve completely. Muddy water will block the profiles of cover fastenings, screw fastenings and installation holes and will take a long time to clean.

2 Consequences of water damage on plastic components

Plastic components may accept moisture, depending on the system. If large amounts of water ingress (e.g. after long-term water coverage), the components will also suffer. The components will "grow" due to the water and functions may be severely impaired. Drying takes a long time and is only possible with hot air. After drying, it is not possible to guarantee correct functionality.

In addition, there may be colour changes when dirty liquids come into contact with the plastic components.

3 Seals

After complete wetting, seals will cease to function and usually need to be exchanged.

4 Service units

Appliances, such as power sockets or data communication outlets, contain high-quality connection components, which will cease to function after water penetration and soiling. Cleaning and drying is not possible, neither when installed nor when removed. Power sockets may not be used after wetting.