CASE STUDY
Generic services penetrations

Waterproofing Specialists

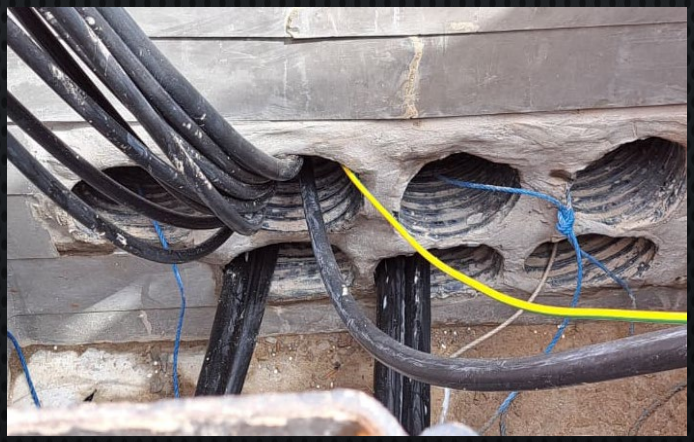
ASF Waterproofing Specialists are regularly asked to design, specify and install solutions for services penetrations below ground.
ASF are capable of designing and installing multiple solutions for new and remedial situations but first we should advise on the standards.

BS8102:2022 states;

8.1.3 Continuity of waterproofing barrier
In order to maintain the continuity of the barrier, penetrations through walls or floors that are to be protected (e.g. **openings for services, pipes, cables) should be avoided, wherever possible**. Where it is essential to provide such openings, special treatment around the penetration should be provided and reference should be made to the manufacturer's instructions, detailing and specialist advice.

10.1 Structural aspects
The external elements of the structure should be capable of controlling the rate of water ingress so as not to exceed the capabilities of the cavity drain system. Water entering a drained cavity system is regulated by the structure, so defects or elements (see Note 1) that might result in unacceptable leaks should be remedied before the system is installed.
NOTE 1 Elements as referred to include structural aspects such as construction joints, movement expansion joints, dry pack joints and ***service penetrations.***

4.3.2 Defects and remedial measures
An ideal waterproofing solution would be defect-free. However, it should be taken into account that defects might occur in the waterproofing, which then, if subjected to water pressure, could result in the required internal environment not being achieved.
These defects include the following:
a) defects owing to design;
b) defects owing to poor workmanship;
c) inappropriate use o f the materials being used and defects owing to the specific properties o f the materials being used; and
d) defects caused by follow-on trades and site operations.



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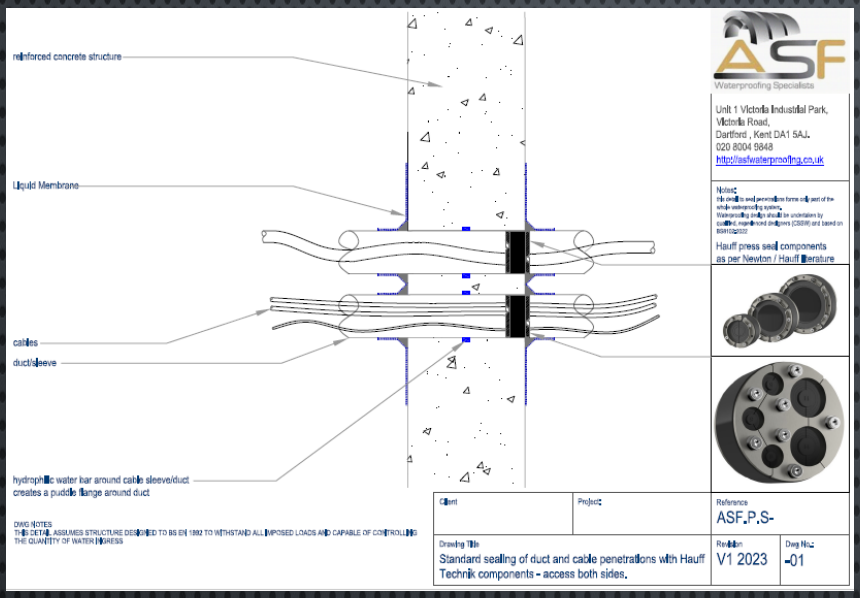
Hauff Technik components

Waterproofing Specialists

ASF Waterproofing Specialists chief recommendations and designs are to use a proprietary component that has been designed and tested for this exact situation such as the press seals manufactured by Hauff Technik and supplied by Newton Waterproofing.

ASF are approved specialist contractors of both companies.



Components come in a variety of sizes for installation into cored holes or ducts with multiple Ø cables.
They can be installed around cables (split seals) and are tightened and torqued in place. ASF Operatives are all confined spaced trained so these can also be used in deep inspection pits and shafts.

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Basement Waterproofing Association

THE Basement INFORMATION CENTRE

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