



By Appointment To Her Majesty  
Queen Elizabeth II Damp Proofing  
and Timber Treatment Specialists  
ProTen Services Ltd., Bath

### Domestic Vault Conversion, Bath

Key Features: ADD Waterproofing system

#### Contact Us

ProTen Services Ltd  
Monmouth House  
4 Monmouth Place  
Bath, BA1 2AT

#### Background

When a couple in Bath decided to convert their unused vaults into a home cinema and playroom for their grandchildren, their architect advised them that they must firstly make the vaults waterproof and secondly protect them from the threat of radon gas. ProTen Services' ADD Waterproofing system was specified, as this is the exclusive method of achieving both these objectives.

#### Works carried out

ProTen Services' specially-trained technicians installed the ADD Waterproofing system in the property's vaults.

Cavity drain membranes were fixed to the walls, and a sump chamber was created to house a pump system to evacuate moisture. This method of waterproofing is now the preferred way to achieve waterproofing to the British Standard, BS 8102:2009.

To protect the vaults from radon entry, positive pressure was introduced using a precisely calibrated air management unit, and an inline fan was installed behind the membrane to evacuate any gas that collected in the air gap.

#### Results

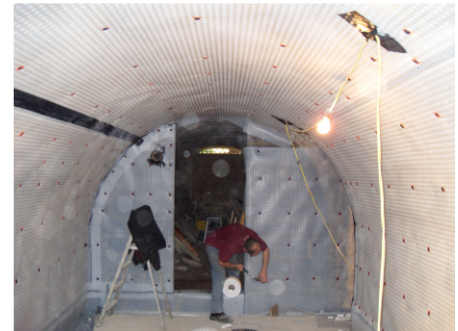
Once the ADD Waterproofing system had been installed, the vaults were plastered in a conventional manner, decorated and furnished. A radon test was carried out through a third-party laboratory, and the results showed that the radon level inside the vaults was well below the recommended maximum level for domestic properties. The vaults were left dry, and more importantly, safe for the family to use.

freephone 0808 100 1928

[enquiry@protenservices.co.uk](mailto:enquiry@protenservices.co.uk)



Prior to conversion, the vaults were damp and at risk of containing high levels of radon gas



ProTen Services' specially trained technician installing the membrane system



Plasterboard and a flagstone floor were laid over the membrane, leaving a high quality finish ready for decorating and furnishing

