

Basement Vault Waterproofing

Orchard Street, Bristol

Client: Construction Contractor

Completed: 2004

Case Study No: 006

- Barrel Vaults
- Type C (Drained) Protection
- Full Design & Installation
- Long Term Guarantee

The Project:

The convert this grade II listed town house, and its barrel vaulted basement, to flats in a highly sought after Bristol city centre location.



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Orchard Street, Bristol - The Problem

This listed town house, including an unused barrel vaulted basement beneath, was scheduled for conversion into flats in a popular and sought after city centre location.

The basement is fully below ground and subject to ground water ingress. The developer wanted to include the basement in the conversion allowing the ground floor to be sold as a maisonette, adding significant value to the development.

Protectahome were consulted and asked to provide a waterproofing solution that would be both a reversible process and therefore sympathetic to the structure.



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Orchard Street, Bristol - The Solution

Protectahome's specialist CSSW qualified waterproofing team designed and installed a Type C (Drained) Protection waterproofing system.

The Type C System incorporated the installation of a 8mm meshed cavity drain membrane directly to the walls and vaulted ceiling areas of the basement. Once installed, the meshed membrane is ready to accept light weight plaster or direct bonded plaster board.

Perimeter drainage channels were installed linking back to a central sump chamber containing automatic sump pumps. The floors were sealed using a 3mm cavity drain membrane and waterseal tapes over closed cell insulation.

The work was carried out by Protectahome's own, directly employed, highly experienced operatives and a long term guarantee was issued upon completion of the works.

The client provided excellent feedback on the whole process and has since invited Protectahome back to work on several other waterproofing projects.



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