

# PCA Case Study

## Structural Waterproofing

### THE PROJECT

Two listed Cotswold stone properties and a brick building to be protected internally from flood. The village has been heavily flooded in the past.

### THE CHALLENGE

A robust waterproofing and flood defence system needed to be installed to prevent future flood damage to the properties.

The system installed had to be acceptable to local conservation officers for use in listed properties.

### THE SOLUTION

Following a severe flood event an insurance company assessment recommended the installation of ground water management systems in the properties.

Prior to installation of the membrane system a tight render coat was applied to the substrate to provide primary resistance to water ingress. The membrane system was then installed up to one metre on the walls to replace the blown render, which had been removed after the flood. In addition a drain conduit was installed within a rebate at the wall/floor junction. The channel was lined with cementitious slurry and water tested to ensure correct drainage.

Two sump chambers were installed in diagonal corners of all three properties with a battery back up system to protect the houses in the event of a power failure.

In addition, each pump was commissioned on a 50mm discharge line and a cavity drain membrane installed on the floors with a screed finish.

This system is suitable for use in listed buildings as it is entirely removable if necessary, as well as being functional, quick and easy to install.



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The Property Care Association (PCA) is a trade association that represents professional specialist contractors, consultants, surveyors and manufacturers in the field of structural waterproofing, wood preservation, damp-proofing, flood remediation and structural maintenance. Its members preserve and protect buildings across the UK.

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