

WATERPROOFING CASE STUDY Flood Mitigation Oxfordshire

WATERPROOFING LISTED COTTAGES

History

Heavy flooding conditions devastated the village of South Hinksey in Oxford in July 2007. As a result, a robust waterproofing/flood defence system needed to be installed to prevent such instances reoccurring.

Methodology

A Newton System 500 waterproofing system was designed and installed by a Newton Specialist Basement Contractor (NSBC) with Newton 508 Mesh chosen as the waterproofing membrane and Newton 520 with Basedrain and Sump and Pump as the floor drainage system.

The Basedrain conduit was installed within a rebate and the channel itself was lined with a cementitious slurry and was water tested to assure that all ingress would make it to the sump chamber. The two sump chambers were installed in the diagonal corners of all three Cotswold properties with a NP750 and NP400 battery back up system to protect the houses in case of power outage. A screed finish was applied.

Result

All three listed properties have been successfully protected and the system has been tested now on numerous occasions.

Benefits

The Newton 508 Mesh installed followed the period contours of the property and thus did not encroach on internal space.

The System was acceptable to local conservation offices as it was deemed 'removable' for a listed building. In addition, the very nature of the cavity drain system allowed the properties to be treated quickly without the need for prolonged drying out times.

NSBC Contractor: Stonehouse Basements

Waterproofing Consultant: Phil Hewitt & Associates



Newton System 500 being tested in flood conditions



Newton 508 Mesh and Basedrain installation



Newton Water Management System fully installed