

CASE STUDY

FLOOD PROTECTION

High Flood Risk Village, Oxfordshire

Installing a Robust Flood Protection System to Five Properties in South Hinksey, Oxfordshire

Project Details

South Hinksey suffers from high flood risk and recently has had severe flooding problems affecting the majority of the properties. Previously, in 2007, a major flood engulfed the village with devastating results.

Phil Hewitt Associates designed a flood protection system and Newton Specialist Basement Contractor Stonehouse Basements were commissioned to design and install Newton System 500 robust flood management system. The system was installed in five individual properties where the clients were extremely worried about future flooding and needed a system that would work in conjunction with flood defence systems to keep their properties dry.

Methodology

The properties to be treated varied in their substrates, including a combination of Cotswold Stone and 9 inch brick work. Stonehouse tailored the flood management system to each particular property's needs. In all circumstances the Newton System 500 cavity drain membrane system was installed with sump and pumps to manage any ingress of water through the building fabric and through the floor to the sump and pump systems so problem water could be evacuated in the event of ingress.

Result

With the major flood in Oxfordshire in November 2012 these systems were tested to the extreme, with 500 to 800mm of water engulfing the village completely. The Newton System 500 Flood Management System protected all the properties it was installed in with parties all around being flooded and in some case evacuated from their homes.

Benefits

- The insurers did not have pay for the works to be implemented as the installation of the Newton System was classed as betterment so there was no need for the clients to claim on their insurance policy
- The installation of the Newton System meant that the reinstatement of the screed and wall plaster could continue immediately which meant no lengthy drying out times thus slashing the time out of their properties.
- The design and installation of the Newton System by Stonehouse meant that all clients had peace of mind - a full guarantee for system. The pumping systems carry a 5-year manufacturer's warranty when installed by our NSBC contractor.
- The sump and pump systems installed can be operated by the Newton Battery Back-up system or alternatively rigged into a generator to operate when extended power outage occurs.

NSBC Contractor: Stonehouse Basements



Major flooding in November 2012 saw between 500 and 800mm of flood water engulf South Hinksey



Installation of flood protection system - Newton 508 Mesh applied to walls and Newton 520 to floors



Problem water is expelled via a Newton Titan Sump Pump system - and the homeowner could stay in his property, perfectly dry!

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Featured Products

NEWTON SYSTEM 500

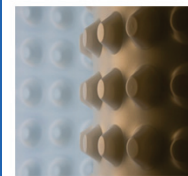
Maintainable Cavity Drain System Comprising Waterproof Membranes, Drainage, and Pumps

The professional's "waterproofing system of choice", Newton System 500 is an internally applied waterproofing system based upon our range of cavity drain membranes, drainage conduits and sophisticated pumping and control systems.

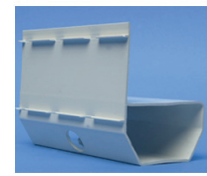
Unlike conventional 'tanking', Newton System 500 is not attempting the almost impossible and trying to hold water back, but places designed maintainable depressurisation voids at known weaknesses in the structure so that ingressing water is simply captured and diverted out of the property.

Newton recommends that our structural waterproofing systems are installed by one of our Nationwide Network of Newton Specialist Basement Contractors who have been trained by Newton and can offer full professional indemnity on design and insured backed guarantee on the installation.

Newton System 500



Waterproof Membranes



Drainage



Pumping System



Water Pumps

Cavity Drain Waterproofing

Testimonials

"I live on the border of Oxford, on the edge of a flood plain. Approximately five years ago, you visited my house and explained how you could protect my home from future flooding events. I was so impressed with what your company could do and went ahead and your team installed my waterproofing system. A couple of weeks ago, the village where I live was subjected to flooding, in essence my house was surrounded in water, at least 2 feet in the garden and about 10 inches around the house. My house is a semi-detached house and I was rather nervous as my neighbours had no flood protection. I called your office and was reassured that I should relax and trust the system that was in place.

The pumps you installed worked for 5 days, sporadically and during the peak all the time. My home stayed completely dry. I am pleased that I continued to have the pumps serviced each year, so that they were in prime condition when needed, and also the added benefit of validating a separate insurance cover to that of my home and contents. Your team are friendly, professional and human, and moreover the system worked – keeping the water on the outside of my house. I lived inside as normal, with the under floor heating working, watching telly as if a normal sunny dry day! My friends and family were amazed how well the system did exactly what it was supposed to.

Following the event, I have not had to claim on my insurance, I have not had to clean up or had any stress put on me, as my home was saved. I believe that due to your waterproofing I will be able to at any point sell my house and that due to the waterproofing system it will actually add value. My neighbours whom had not installed the flood protection were devastated at the amount it is going to cost them to repair the damage caused by the flooding, the stress it caused and is causing and the sheer turmoil it leaves behind." - Maria Banks, Oxford (Newton System 500 installed using NSBC Stonehouse Basements)

"Newton System 500 was installed in my house by NSBC Stonehouse Basements The system has protected my property from severe flooding and has kept it dry whilst others around it suffered from bad flood damage. I would recommend it to anyone else who lives in a flood risk zone" - Richard Bucket, Cirencester