

CASE STUDY



Large Basement Extension at Impressive Country Home Waterproofing a Basement with Swimming Pool and Sauna

The Project

Newton Specialist Contractor [Stonehouse](#) were brought onto this large residential project to waterproof an underground extension including a swimming pool and sauna. Set in a small village in Berkshire, the impressive countryside home was designed by architects [Spratley and Partners](#).

For the new below-ground structure, Stonehouse were required to install a failsafe and maintainable waterproofing system that would completely protect the luxurious basement from unwanted water ingress.

The Solution

Ensuring that the project was fully compliant with BS 8102:2009, Stonehouse recommended a combined waterproofing solution using a Type B reinforced and water-resistant concrete structure designed to BS EN 1992, combined with a full Type C internal cavity drain membrane system.

As the most reliable and completely maintainable Type C waterproofing solution, the [Newton CDM System](#) was the ideal choice for this structure. Firstly, [Newton 508](#) membrane was securely fixed to the internal walls of the basement using Newton's specialist [MultiPlug](#) fixings.

Any water that is captured by the membrane is then drained away with [Newton Basedrain](#) channels, and pumped out of the property using a [Newton Titan-Pro](#) sump chamber fitted with two [NP400 pumps](#) and supported by a failsafe [battery back-up](#) system.

The Result

As an extremely experienced waterproofing contractor, Stonehouse were able to confidently recommend, design and install a comprehensive and truly failsafe waterproofing system that will protect the property from unwanted water ingress for many years to come. Stonehouse also provided complete peace of mind by offering a 10 year guarantee on the installation.



The basement includes a swimming pool and sauna.



The CDM system was installed for failsafe protection.



"Stonehouse were involved from the initial design sketches through to completion and were able to ensure this complicated basement was protected by a simple yet effective Newton waterproofing system."

Potential problems and difficult interfaces were reconsidered and redesigned early on in the build, ensuring everything went to plan and a beautiful dry basement was created."

Graham Stone, Managing Director, Stonehouse

The Products

CDM SYSTEM

The most reliable waterproofing solution for any space below ground, the Newton CDM System combines decades of experience with the highest quality, BBA certified membranes from [Newton System 500](#), bespoke sump and pump configurations, back-up systems, telemetry and ancillaries.

508

BBA certified, high quality cavity drain membranes as part of the CDM System, manufactured from 100% recycled HDPE.

MULTIPLUGS & ANCILLARIES

A selection of specialist ancillary products that are critically important for the correct installation of the Newton CDM System, including plugs, tapes and seals.

BASEDRAIN

A range of products that receive and drain water from the cavity drain membranes and direct it to the point of discharge.

TITAN-PRO

A packaged sump system designed specifically to be used with the Newton CDM System.

NP400 PUMPS

A high head and high to medium performance pump available in both automatic and manual versions. A reliable unit suitable for continual pumping of both rain and ground water.

BATTERY BACK-UP SYSTEMS

A range of power inverters/chargers to ensure that Newton Pumping Systems continue pumping during power interruption.

Newton Specialist Basement Contractors

Newton recommends that our systems are installed by one of our nationwide network of Newton Specialist Basement Contractors (NSBCs). Trained by Newton, NSBCs offer a full guarantee on the design and installation, and can act as Waterproofing Design Specialists.



A large extension and basement was added to the existing structure.



The new below-ground concrete structure was extensive.



Experienced contractors Stonehouse were ideally suited to the project.



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