



Basement Waterproofing at the Houses of Parliament Combining Internal & External Waterproofing at a London Icon

The Project

Newton Waterproofing were delighted to return to the prestigious Houses of Parliament in London, a landmark of the London skyline for over 150 years.

Working from detailed drawings, Newton Specialist Basement Contractor [MacLennan](#) specified a guaranteed waterproofing solution for the new-build basement. With the solution in place, MacLennan brought the job to Newton, whose product range was perfectly suited to the project requirements.

Newton and MacLennanUK are both privileged to be the companies chosen to share in securing the future of the Palace of Westminster.

The Solution

This complex project required the design and installation of an external waterproofing system, an internal cavity drain system, and a polyurea roofing system to ensure a high standard of waterproofing.

Externally, Newton's innovative 'Type A' [403 HydroBond®](#) membrane was applied extensively to ensure the necessary waterproofing around the basement, whilst internally, [Newton 508](#) and [Newton 520](#) membranes were both applied from floor to ceiling as part of Newton's complete [System 500](#) cavity drainage solution.

With the finished structure in place, the waterproofing was finally completed by the application of both a polyurea coating and further drainage membrane to the roof deck of the basement.

The Result

The completely waterproof structure is compliant with BS 8102:2009, providing a durable waterproofing solution in this large new basement situated directly next to the River Thames. After utilising multiple Newton Systems to great effect, MacLennanUK also provided an insured-backed guarantee for the work undertaken, confident in the level of protection against water ingress.



The deep, piled walls of the area to be waterproofed.



Applying 403 HydroBond directly to the piles.



"With such a long-standing and productive relationship between ourselves and Newton, they were the obvious choice to go to when we were planning this project which consisted of combined waterproofing products and solutions.

On top of that, it was a real privilege to work on a project that has directly contributed towards the maintenance of a building that has such history and significance in London and the rest of the United Kingdom."

*Ian MacLennan
Director, MacLennan UK*

The Products

HYDROBOND SYSTEM

The Newton HydroBond System provides a complete and continuous external waterproof envelope to below-ground and earth-retaining structures, providing a self-healing form of 'Type A' waterproofing protection in line with BS 8102:2009.

CDM SYSTEM

A combination of Newton's decades of waterproofing experience and the highest quality BBA certified membranes from [Newton System 500](#). Coupled with the bespoke pump configurations, backup systems and ancillary options, the Newton CDM System is the most reliable and maintainable waterproofing solution for any below ground space.

TITAN-PRO

The unique packaged sump system designed specifically for use with System 500 and compatible with many Newton pumps.

NP400 PUMPS

Used with the Titan-Pro White, these high quality clean water pumps are ideally suited for removing groundwater from basements and cellars.

HIGH WATER LEVEL ALARM

Designed to detect high water levels within sump chambers, the battery-powered device is included with the Newton Titan-Pro pumping system.

INVERTERS AND BATTERY BACK-UPS

The Victron range of pure sine wave Inverters/Chargers provide advanced solutions to ensure that Newton pumping systems continue pumping during power interruption.



Newton 403 HydroBond is quick to apply in long sheets of membrane.



The membrane was used to create a complete waterproof envelope.



The view from the project site wasn't too bad either!

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.



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