



New-Build Doctors Surgery, Devon External & Internal Structural Waterproofing

The Project

Newton Specialist Contractor [Premier Contractors](#) were tasked with waterproofing a new-build doctors surgery in Tavistock, Devon, after the main contractor found themselves struggling with the waterproofing design and installation. The unusual shape of the new structure presented a challenge for Premier's installers, as did the need to provide a completely dry 'Grade 3' environment, all within a tight timescale.

The Solution

As defined by British Standard 8102:2009, a Grade 3 internal environment is required to be completely dry, and it is therefore no surprise that this is what was required at this new-build medical facility. Knowing that the best means of achieving this would be by combining different types of waterproofing systems, Premier opted to install both a Type A barrier membrane, and a Type C cavity drainage system.

They began with the liquid-applied [Newton 109-LM](#), a single-component, seamless Type A membrane that is quick and easy to apply, and suitable for all below-ground or earth retaining structures.

With the first form of waterproofing in place, the [Newton CDM System](#) was then installed internally as the truly failsafe method of preventing any water whatsoever from reaching the internal finishes and environment, even if it did manage to make it past the 109-LM membrane. With Phase 1 of the project swiftly completed, Premier are ready and waiting for the main contractor to finish the slab, so they can install the drainage and pumping systems and complete the waterproofing.

The Result

Premier Contractors stepped in and installed quality products within a tight timeframe, proving the value of using professional, specialist waterproofing contractors, and will also be able to provide the client



1. The large, uneven new structure was ideal for the flexible, resilient 109-LM liquid membrane



2. The new building was an unusual shape, with Phase 1 taking the form of a large curved structural wall

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"Premier Contractors were delighted to step in on this project and fulfil the role of specialist waterproofing contractor where the main contractor did not have the same experience in specifying and installing complete waterproofing solutions.

With our local expertise and by working directly with the project contractor and architect, it was a relatively straightforward task to design and install the Type A and Type C waterproofing, even considering the unusual construction of the new building.

This whole process is also made significantly easier by working directly with Newton Waterproofing Systems as one of their specialist waterproofing contractors - their technical support is second-to-none and we can always rely on them to deliver their high-quality products quickly to site to get the job done."

Peter Willis, Premier Contractors Ltd
Newton Specialist Basement Contractor

The Products

109-LM

A radon-certified, flexible, single-component and seamless rubber waterproofing membrane, used for the external waterproofing of earth-retaining structures such as basements and foundation walls.

Newton 109-LM is extremely puncture resistant with elasticity of 850% and a 95% recovery memory. The membrane becomes fully engaged into the substrate to prevent water tracking and is suitable for domestic basements to the largest civil engineering projects.

CDM SYSTEM

A combination of Newton's decades of basement waterproofing experience and the highest quality BBA certified cavity drain membranes from [Newton System 500](#).

Coupled with the bespoke sump and pump configurations, backup systems, telemetry and ancillary options, the Newton CDM System is the most reliable and maintainable waterproofing solution for any habitable space below ground.

508 MEMBRANE

A BBA certified, high quality cavity drain membrane that is the most commonly used membrane as part of the Newton CDM System.

Newton 508 is also guaranteed against deterioration for 30 years, with a life expectancy of at least 50 years.

Newton Specialist Basement Contractors



Newton recommends that our structural waterproofing systems are installed by one of our nationwide network of [Newton Specialist Basement Contractors \(NSBC\)](#). Trained by Newton, NSBCs offer full professional indemnity on design, and insurance backed guarantees on the installation.



3. When planning their cavity drain install, Premier also had to account for the wall's large concrete kicker



4. As NSBCs however, Premier are training in installing Newton products, as shown by this image



5. Despite the size of the project, Premier delivered the waterproofing installation quickly and efficiently



6. With work on the main slab now underway, Premier will return to the project to install the drainage systems