



New-Build and Existing Riverside Basements, London

Basement Waterproofing a Multi-Million Pound Listed Property

The Project

This spectacular multi-million point listed property on the Thames was completely refurbished and extended to provide a large modern property, yet refrain the features of the original design. As a large section of the project was below ground level and metres from the River Thames, a robust and reliable waterproofing approach was essential. Newton Specialist Basement Contractor [Wing Waterproofing](#) were commissioned to undertake the project.

The Solution

The project had a series of existing vaulted arches and brick walls to the front of the property which were underpinned to create the extra living space required. To the rear of the property, Wing Waterproofing used Newton 101F as a cementitious Type A barrier system to protect the new subterranean living space, coupled with a large swimming pool.

New-build joints were protected by Newton 303 PolyProof water bars, whilst [Newton 508 membrane](#) was installed in the vaulted spaces. Any water would be diverted to the [Newton Basedrain](#) which was fitted around the perimeter of the entire structure.

The engineered concrete slab featured sumps to mechanically pump away the water using a [Newton Titan-Pro](#). [Newton 906 Lime Inhibitor](#) was used on the slab, 50mm of [Newton Fibran XPS](#) was installed as a spacer on the slab and the Newton 508 was installed with a 65 screed with underfloor heating to finish.

The Result

Both new-build and existing elements of the structure were waterproofed to a Grade 3 habitable environment in accordance with BS 8102:2009. The client has complete peace of mind with an insurance backed guarantee from Wing Waterproofing for the works carried out.



Newton 508 being curtain hung to the walls.



Sump chamber formed in a new RC slab.



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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.

101F

A two-component, hard-wearing and seamless acrylic modified cementitious coating. Ideal for waterproofing and re-surfacing concrete and masonry.

906 LIME INHIBITOR

Newton 106 Lime Inhibitor is applied to concrete surfaces prior to the installation of a Newton System 500 cavity drain membrane waterproofing system to prevent the 'leaching' of free lime from the concrete.

303 POLYPROOF

A hydrophilic, thermo-plastic elastomer water bar that swells when activated by moisture. It is characterised by high elasticity and high tensile strength.



The property is situated a few metres from the River Thames.



The proximity to water makes the structure very high risk to water ingress.



A CGI artists impression of the finished project.

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.



www.newtonwaterproofing.co.uk



tech@newtonwaterproofing.co.uk



+44 (0)1732 360 095