



Listed Basement Conversion, Kensington & Chelsea Waterproofing Within Strict Conservation Area Guidelines

The Project

The owners of this Grade II Listed terraced property on Ovington Street, in the Chelsea Conservation Area in the London Borough of Kensington & Chelsea, wanted to convert the original basement vaults into a dry and usable space.

However, strict conservation guidelines required that any changes would not negatively impact the fabric of the building or the character of the area - therefore requiring close cooperation between Newton Specialist Contractor [Arti Structural Waterproofing](#), contractor [Adrian Design](#) and [Le Lay Architects](#).

The Solution

In order to meet the requirements of the conservation area, Arti Structural Waterproofing proposed a sustainable design that not only had the lowest possible impact on the existing fabric, but is also reversible if necessary.

The waterproofing system utilised Newton's [508 Mesh](#) cavity drain membrane as part of the [Newton CDM System](#), which is perfect where a sympathetic installation is necessary, requiring very little preparation and absolutely no chemicals or damage to the fabric. Furthermore, this system is the only one of its kind to hold certification for [responsible sourcing](#).

The CDM System captures water behind the membranes then uses [BaseDrain](#) channels to direct it to a pump system for safe removal. Furthermore, to provide complete peace of mind, Arti also installed a pump monitoring and battery back-up system using a [Victron Inverter](#) and [Pump Controller](#) panel.

Finally, Arti plastered the meshed membrane with a 100% ecological material to provide sound absorption, insulation and further sustainability benefits.

The Result

Despite the compact size and complex configuration, Arti installed a waterproofing system that delivers a completely dry Grade 3 environment as per BS 8102:2009, and meets all Listed building and sustainability criteria.



The existing basement vaults were extremely damp.



The configuration made for a complex installation.



"As an eco-conscious company we were very pleased to have the opportunity to use Newton's sustainable products to provide a quick solution to both waterproof and revitalise these London vaults into usable spaces.

It has also been a pleasure to work with Adrian Designs Ltd who were very professional and well organised construction management team."

Stuart Tansey, Commercial Director
Arti Structural Waterproofing Ltd.

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 MESH

BBA certified, high quality meshed cavity drain membrane, part of the Newton System 500 which holds BES 6001 certification.

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, whether that is a sump chamber or a safe form of natural drainage.

VICTRON INVERTERS

The Victron range of Inverters provide advanced solutions to ensure that Newton Pumping Systems continue pumping during power interruption by inverting 12V DC power from a battery (or multiple batteries) to clean and efficient 230V power.

PUMP CONTROLLER

A twin pump control panel that operates matched pairs of manual Newton Pumps, providing a sophisticated, affordable and simple to install control system.



Newton 508 Mesh was installed throughout the Listed basement



A control panel and power inverter provide complete peace of mind.



The finished internal space is now completely dry and usable

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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