



## Luxury New Hillside Home, North London

### Waterproofing an Impressive Glass-Fronted Hillside House

#### The Project

After the original property on this site in Barnet was demolished, construction began for a new building that could take full advantage of the stunning location. With floor-to-ceiling glass panels on one side of the property, this new-build is the best place to admire the views over London.

Built into the hillside, the property was therefore partially-retaining and required a full waterproofing system throughout to protect from unwanted water ingress. As such, Newton Specialist Contractor [Stonehouse](#) were called in to expertly install a robust waterproofing system to the entire structure.

#### The Solution

The client appointed Stonehouse's Richard Allen as the waterproofing design specialist on this project, to ensure a fully BS 8102:2009 compliant build.

Due to the partially-retaining nature of the structure, Richard recommended a combination of Type A, B and C waterproofing systems to ensure a Grade 3 habitable environment. Relying on an effective Type B structure, Stonehouse then applied a cementitious coating of Type A [Newton 107F](#) to the external surface of the flat roofing decks and to the internal area of the lower lift pit.

Given the high risk from water, the failsafe [Newton CDM System](#) was also installed on both levels of the structure. [Newton 508](#) membrane was securely fixed to the internal walls using Newton's [ancillary](#) products, with water from the upper level being banded and piped down to the lower level, then drained via gravity fall using [Newton Basedrain](#).

#### The Result

As one of our most experienced specialist contractors, Stonehouse expertly recommended, designed and installed a truly failsafe waterproofing system that will continue to protect this contemporary home for many years to come. Furthermore, Stonehouse were able to provide a 10-year guarantee for the installation, for complete peace of mind.



Newton 107F applied to the internal lift pit.



The luxury home has floor to ceiling CDM protection.



*"This was a challenging project from the start due to the complex construction of the building with different levels and a high risk of water ingress through construction joints, fully retaining elevations and external podium decks.*

*We had to combine a wide range of Newton's products in our design and installation to achieve a continual barrier and satisfy the requirements of both the client and main contractor whilst achieving a system that is in full compliance with BS 8102:2009."*

Richard Allen CSRT CSSW, Senior Surveyor, Stonehouse

## The Products

### 107F

A cementitious coating for the waterproofing and protection of concrete and masonry. Suited to the waterproofing of reservoirs, tunnels, water tanks, basements, podium decks, flat roofs and balconies.

### CDM SYSTEM

The most reliable waterproofing solution for any habitable space below ground, the Newton CDM System combines our decades of waterproofing experience with the highest quality, BBA certified cavity drain membranes from [Newton System 500](#), bespoke sump and pump configurations, backup systems, telemetry and ancillary options.

### 508

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

### SYSTEM 500 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 collectively receive and drain water from the cavity drain membranes and direct it to the point of discharge.



A cementitious coating was applied to the external flat roof.



The Newton CDM System is failsafe and fully maintainable.



107F protects a large sunken lounge area on the ground floor.

## 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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