

CASE STUDY

Luxury Housing Development, Yorkshire

New-Build Basement Waterproofing



Luxury New-Build Basement Waterproofing, Yorkshire

The Project

Rural Holmfirth in West Yorkshire was the site of this luxury, 12-property housing development, built into an embankment on a sloping site, and with each unit expected to retail at £400,000.

With the lower ground floor of each new unit requiring earth-retaining elevations and a habitable internal space, a structural waterproofing specialist was required as an integral part of the design team.

Newton Specialist Contractor [Protectahome](#) were approached by the property developer to fulfil this role, and provide a guaranteed and cost-effective scheme that would comply with the requirements of both BS 8102:2009 and any third-party warranty providers.

The Solution

Protectahome's CSSW qualified surveyor worked alongside the project designers and engineers in order to design a combined waterproofing solution, bringing together Type A (barrier) and Type C (drained) protection in order to create a Grade 3 (habitable) internal environment.

The Type A system was achieved with the [Newton HydroBond System](#), utilising a [Newton 109-LM](#) seamless rubber waterproofing membrane externally to the blockwork structure, before protecting the membrane and the structure with [Newton 410 GeoDrain](#) drainage membrane, protection boards, free-draining backfill and a serviceable land drain.

With the structure complete, the internal waterproofing was provided with the [Newton CDM System](#), utilising a [Newton 508](#) cavity drain membrane with [Basedrain](#) perimeter drainage to direct captured water to a safe passive drainage point, thanks to the sloping nature of the site.

The Result

The professional installation was completed both on time and within budget by Protectahome's specialist operatives, and was also covered by a long-term guarantee for each property, issued by Protectahome.

NSBC

Protectahome Ltd

Client

Commercial Property
Developer



The naturally sloping site required large excavations in order to accommodate the 12 new-build properties



Once excavated and with the blockwork in place, the structure was ready to be waterproofed

Luxury Housing Development, Yorkshire

New-Build Basement Waterproofing

"Working with a manufacturer such as Newton, particularly on new build projects, is a great advantage due to the comprehensive range of waterproofing products that they have developed.

It allows us to confidently specify combined waterproofing systems that comply with both NHBC/LABC requirements and BS 8102:2009."

Protectahome Ltd - Newton Specialist Basement Contractor



The blockwork retaining walls required both Type A external and Type C internal waterproofing protection

The Products

HYDROBOND SYSTEM

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

109-LM

A radon-certified, flexible, single-component, cold-applied and seamless rubber waterproofing membrane, Newton 109-LM is puncture-resistant and also engages with the substrate to prevent water tracking.

410 GEODRAIN

Two-core drainage sheet that provides outstanding drainage and protection to the outside face of basement walls to sloping sites, preventing the build-up of water pressure and protecting the structure.

CDM SYSTEM

The complete system of choice for waterproofing professionals, the Newton CDM system is a maintainable solution for new-build or refurbishment projects, comprising of membranes, drainage, pumps and control systems, and is completely compliant with BS 8102:2009.

508

BBA-certified, high quality cavity drain waterproofing membrane, manufactured from high density polyethylene and suitable for use internally to the retaining walls of below ground structures.

BASEDRAIN

A core set of components used most commonly within the Newton CDM System that collectively receives ingressing water and directs it to either a Newton sump system or a safe natural discharge point.



Protectahome's specialist operatives installed a neat and fully maintainable Newton CDM System



The dual systems were required in order to provide the desired Grade 3 habitable space internally

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 can offer full professional indemnity on design and insurance backed guarantees on the installation.



Each of the 12 new properties are luxury units in rural Holmfirth that will sell for £400,000 each