

New Housing Development Near Holmfirth, West Yorkshire

Client: Housing Developer

Completed: 2017

Case Study No: 270

- New Build Waterproofing
- Full Design & Installation
- Type A Waterproofing
- Type C Waterproofing

The Project:

New build
development
featuring 12 new
build luxury homes
in 5 different styles.



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Holmfirth Development - The Problem

This luxury 12 property housing development near Holmfirth in rural West Yorkshire was to be built partially into an embankment on a sloping site with each property expected to retail at around £400,000 each.

The presence of lower ground floor layouts with earth retaining elevations within the new properties necessitated the involvement of a structural waterproofing specialist to form part of the design and construction team.

Protectahome were approached by the property developer to fulfil the requirement and provide a guaranteed, cost effective scheme that would comply with both BS8102:2009 and the requirements of any third party warranty providers.



THE BASEMENT INFORMATION CENTRE MEMBER

BSI British Structural Waterproofing Association



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Holmfirth Development - The Solution

Working alongside the project designers and engineers, Protectahome's CSSW qualified surveyor designed a combined Type A (Barrier) and Type C (Drained) protection waterproofing system that would provide the necessary grade 3 (habitable) environment (BS8102).

The external Type A system was provided by applying liquid membrane to the blockwork structure complete with overlaying drainage layer, protection boards, free draining backfill and serviceable land drain - all designed to alleviate water pressure on the structure.

The internal Type C system was provided by the installation of 8mm cavity drain membranes complete with perimeter drainage channels and service ports for future maintenance. Due to the sloping nature of the site, the perimeter drainage channel was able to drain passively away from the structure negating the need for additional costs on sump pumps.

The installation was completed on time and within budget by Protectahome's specialist operatives and long term guarantees for each property were issued on the works.



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