

CASE STUDY



St Georges Hill

A deck and basement waterproofing solution was required for a luxury house in St Georges Hill, Surrey.



THE CHALLENGE

Waterproofing Specialists Cast Contracting Ltd (CCL) were commissioned by Redridge Building Contractors to design, supply and install a comprehensive structural

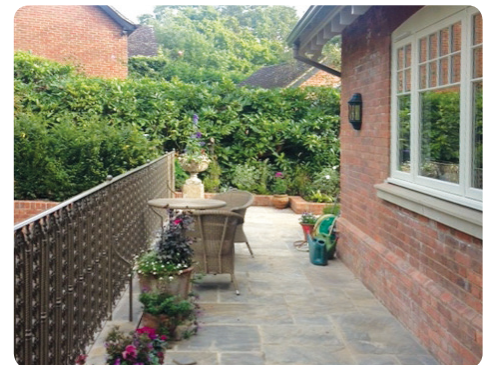
waterproofing system to the external balconies and a water management system to the basement level of their luxury new build property in St Georges Hill in Surrey.

THE SOLUTION

The basement was constructed with reinforced concrete to walls and floor. In order to achieve a Grade 1 habitable basement, CCL specified and installed a Newton 500, type C system, to the walls and floors of the basement. This system was combined with the Newton Titan Pro sump and pump system with full battery backup. This provided our client with a complete system produced by one product manufacturer.

The balconies and interlinking terraces were constructed using a combination of concrete slabs and a block and beam system with a structural topping laid to falls over the top. This method of construction was ideally suited to Newton Acriflex Winter, which was specified and installed throughout all balconies and terraces.

Newton Acriflex is a flexible acrylic waterproofing system which was applied using hand rollers due to the sensitive and decorative face brick work areas. Two coats of Newton NuSeal – LM were roller applied to the surfaces to act as a primer and also provide a vapour barrier. The Newton Acriflex was then applied throughout, combining extensive and comprehensive reinforcing details to accommodate linear drainage gulleys, balustrade feet and the upstand and downstand details found on typical decks. Finally, insulation and Newton 207 Deckdrain was installed over the Newton Acriflex Winter to provide protection to the waterproof membrane and provide drainage. This ensured water could not collect on the balconies and could move freely to designed drainage outlets.



CLIENT TESTIMONIAL:

“CCL provided us with their expertise surrounding the practicalities of installing the waterproofing systems, including the correct preparation prior to the application of the membranes and how the works would be sequenced and integrated with the other trades. All members of the CCL team were extremely helpful and helped us to overcome any design issues that were faced on site.”

John Forrister, Site Manager, Redridge Building Contractors

PRODUCTS

Newton System 500 Membrane

Newton Titan-Pro Sump System

Newton Acriflex

Newton NuSeal-LM

Newton 207 DeckDrain Membrane