



PROJECT CASE STUDY

Our Lady's Convent High School Case Study

- Architect: Jestico + Whiles
- Main Contractor: Wilmott Dixon



This voluntary-aided school in Hackney is part of the BSF programme. RIW were asked to advise on waterproofing in the early stages of the design process by Jestico + Whiles



The Challenge

This four storey new build project is on a compact, stepped site which tested the continuity of the waterproofing strategy. The numerous interfaces and changes in level needed careful consideration, then bespoke waterproofing solutions were proposed for the different substrate materials, from concrete in the ground rising to a steel main frame with a secondary frame faced with cement boarding. Therefore an isometric study was required to visualise the proposed strategy.

The Solution

A range of different RIW products were used to accommodate the various changes in levels and to manage the differing movement capability at each of the structural interfaces. A combination of RIW Cavity Drain solutions were recommended for the walls of the partial basement, along with RIW Sheetseal 226 across the slab. RIW Cavity Drain allowed water to be directed away from internal finishes to a maintainable land drain below the structure.

As the building rose out of the ground, the waterproofing strategy had to adapt to maintain continuity as both the structure and the retaining walls were stepped. Both RIW Toughseal and RIW Sheetseal 226 were used to continue the waterproofing to the required level above ground. RIW Flexiseal was used on the entrance podium to provide waterproofing over the basement, and RIW Cementseal maintained continuity at isolated pad locations below the basement slab. This combination of products resulted in an effective and single sourced, total waterproofing solution.

Featured Products

RIW Sheetseal 226

A cold applied, HDPE film, coated with a bitumen/rubber self adhesive layer with a removable reinforced silicone paper. Particularly used where large unobstructed areas are to be waterproofed.

RIW Cavity Drain

An internal tanking cavity drainage membrane system comprised of HDPE board with 20mm studs, used where site conditions or structural design make it difficult to use traditional tanking methods.

RIW Toughseal

A liquid applied coating that is solvent free, polymer modified, colour coded and based on epoxy resins. Typically used in areas that require excellent tensile adhesion, chemical resistance and abrasion resistance such as plant rooms and under raised access floors.

RIW Cementseal

A two component polymer modified cement based waterproof coating with excellent adhesion to prepared concrete and masonry substrates. It hydrates to form a durable, highly alkaline, tough waterproof coating.

RIW Flexiseal

Two coat, flexible, seamless and fully bonded waterproof membrane based on Polyurethane resins.

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