

# DESIGN CASE STUDY



## St John's Gardens, Hackney

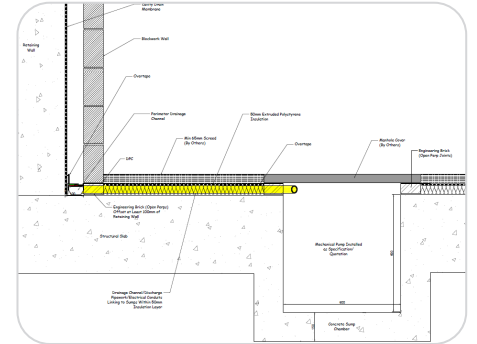
A structural waterproofing design solution was required to the basements of a new build residential development in Hackney



### THE CHALLENGE

CCL Design Services were consulted by JJ Rhatigan to advise on the design of a comprehensive structural waterproofing system to the basement areas and roof decks.

Situated next to the church of St John's Hackney, the new mixed-use residential development in East London consists of three structures including a four storey building with basement, accomodating 58 mixed dwellings and community facilities.

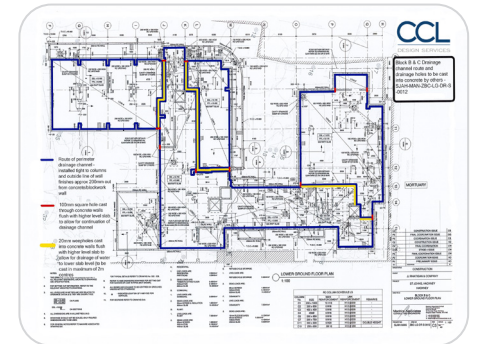


### THE SOLUTION

For the basements areas of the three residential blocks CCL's CSSW qualified design team recommended the installation of a Type C water management system, including a sump pump system for the automatic removal of water.

SIKA CDM was specified, comprising of an 8mm cavity drain membrane, installed to the concrete retaining walls and floor slab, above a layer of 50mm water resistant extruded polystyrene insulation. Within the design CCL included the installation of a periphery drainage channel, including regular drainage ports, to ensure the entire system was maintainable.

For the blockwork upstands and concrete roof decks above the basement areas, Sikalastic 1k cementitious waterproof coating and protective drainage sheet was specified, to prevent the ingress of water.



### CLIENT TESTIMONIAL

*"Having been let down by another waterproofing contractor, JJ Rhatigan contacted Cast Contracting Ltd late into the project at Hackney Gardens to design and deliver a cavity drain waterproofing solution to very tight timescales.*

*CCL were able to react to the last minute commission and their team of estimators, contracts management and operatives, were able to design and install the cavity drain solutions into each of the three basements.*

*Their team could not have been more helpful and their professional approach to delivering the solution ensured that we were still able to meet the deadlines required for completing the project."*

**James McHugh**, Assistant Project Manager, JJ Rhatigan

### PRODUCTS

Sika Anti Lime Coating

Sika Std Cavity Drain Membrane

Sika Std Cavity Drain Channel

Sikalastic 1k

Sikadrain 850

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