

CASE STUDY

CCL

CAST CONTRACTING
LIMITED

Barnsbury Square, London

The stunning new build development of apartments in London required a below ground waterproofing solution.



THE CHALLENGE

Barnsbury Square is a stunning development of 10 light and spacious lateral apartments arranged around a landscaped courtyard in the heart of the Barnsbury conservation area.

Cast Contracting Ltd (CCL) were commissioned by award winning contractor Gilbert Ash to supply and install comprehensive structural

waterproofing solutions to the underground car park, plant rooms, cycle storage and general storage areas within the complex.

The residential development was required to be waterproofed to a Grade 3 habitable environment in accordance with BS 8102:2009 (Protection of below ground structures from the ground).

THE SOLUTION

CCL recommended the installation of RIW Structureseal pre-applied sodium bentonite system under the entire basement ground-bearing RC slabs. RIW R20 Cavity Drain membrane was applied to the steel-sheet piled retaining walls to each of the basement levels prior to a third party installing internal blockwork wall lining. RIW Aquachannel was then installed to the recessed channels in the lower basement and the suspended concrete slabs, with the aim of collecting water and diverting it to the pumped sump systems. John Newton twin sump pump systems, consisting of two Titan NP400 pumps, battery back-up and high level water alarms, were

fitted within the Newton Titan Pro sump chamber.

RIW Cementflex waterproof coating was then applied to the inside face of the channel to the top of the suspended basement slabs, to provide a waterproof lining to prevent water from travelling horizontally across upper basement slabs.

RIW R20 Cavity Drain membrane was installed across the entire ground bearing basement slab prior to the installation of screed and finishes. Finally, RIW Cementseal cementitious waterproof coating was installed to the inside face of concrete walls and floors of the passenger lift-pits and attenuation tanks to complete the waterproofing works.



CLIENT TESTIMONIAL

"CCL's specialist team delivered a comprehensive waterproofing solution at Barnsbury Square that met strict deadlines. Their pro-active approach ensured that any challenges on-site such as fixing the RIW R20 Cavity drain membrane vertically to steel sheet piling without fully penetrating & compromising its waterproofing integrity, were overcome practically, demonstrating their technical understanding of the products and installation processes."

Emmett Holmes, Project Manager, Gilbert Ash

PRODUCTS SPECIFIED

RIW Structureseal
RIW R20 Cavity Drain
RIW Aquachannel
RIW Cementflex / RIW Cementseal
RIW Overtape
RIW Toughseal
Newton Titan Pro Sump Chambers
Newton Titan NP400 pumps
Newton High level water alarm
Newton Victron Inverter battery back-up system

Cast Contracting Ltd

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