CASE STUDY



University College London Hospital

A comprehensive below ground waterproofing solution was required for the state of the art Proton Beam Therapy Centre in London



THE CHALLENGE

University College Hospital in London is one of only two world class centres in the UK that can offer Proton Beam Therapy to cancer patients. The brand new eleven storey building will enable patients to be treated with Proton Beam Therapy, a form of radiotherapy that destroys cancer cells with pinpoint accuracy, causing less damage to surrounding tissue.

Specialist Waterproofing Contractor Cast Contracting Ltd (CCL) were commissioned by award winning contractor Bouygues UK to, supply and install comprehensive structural waterproofing solutions to the basement walls of the structure.

The hospital development required a waterproofing solution that would meet a Grade 3 habitable environment in accordance with BS:8102:2009 (Protection of below ground structures against water from the ground). During construction it was one of the biggest open excavations in Europe.





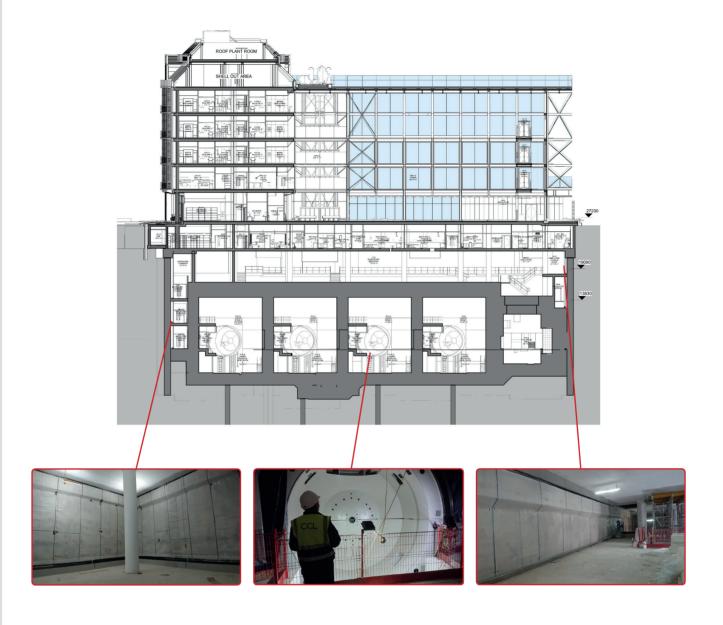
THE SOLUTION

CCL installed FIS Premcrete
Lime Inhibitor and Hydroflow
HP8 cavity drainage membrane
system, which was mechanically
fixed to the concrete diaphragm
basement retaining walls on all
four of the basement levels &
within the Proton Beam Unit pits.
This included the installation of
Hydroseal FX cementitious liquid
applied waterproof coatings
within the drainage channels and
to the intermediate basement
slab interfaces.

CCL included the installation of condensation strips and Premcrete Hydroflow Drainage channel to the wall/floor junctions, connecting to suitable drainage gullies. The drainage channels incorporated regular inspection ports to provide the facility with futureproof maintenance of the system and to ensure that the system was fully compliant with and in accordance with BS8102:2009.



THE SOLUTION



TESTIMONIAL:

"Our specialist waterproofing team worked closely with all trades on the upper floors at UCLH to provide time critical waterproofing to the extensive underground areas to a professional standard. CCL's experience of working at height safely and on fast paced, complicated fit outs, ensured that the timescales set by Bouygues UK were strictly adhered to and the works were installed as specified."

Martin Duncan, Project Supervisor, Cast Contracting Ltd

PRODUCTS

FIS Premcrete Lime Inhibitor

Premcrete Hydroflow HP8 cavity drainage

Premcrete Hydroseal FX cementitious liquid

Premcrete Hydroflow Drainage Channels

Premcrete Epocote FS