CASE STUDY



Grosvenor House, St Georges Hill

A structural waterproofing solution was required for an impressive new build basement in Weybridge

THE CHALLENGE

Grosvenor House is an imposing luxury property built in the private estate of St George's Hill in Weybridge. It features a large 1000m² basement below the ground, comprising garage, swimming pool & sauna, gymnasium, cinema, plant/ storage rooms and staff quarters.

THE SOLUTION

CCL recommended the installation of a cementitious crystalline coating to all concrete substrates prior to installing a full Newton Water Management system. This consisted of John Newton's 8mm cavity drainage membrane to the retaining walls and concrete slabs above a 50-100mm thick extruded polyester insulation.

To ensure the system was fully maintainable and to be fully compliant with BS8102 'protection of below ground structures from water from the ground, ' CCL installed a preformed drainage channel to the wall/floor junctions with regular inspection ports. Waterproofing Specialists Cast Contracting Ltd (CCL) were employed to design, supply and install a complete waterproofing solution to this new build development, suitable for the concrete wall and slab construction of the basement including podium decks.

These channels drained into four sump collection pits which each housed Newton's twin sump pump systems including battery back-up and high level water alarm. Newton's 107F cementitious coating was installed to the lift pits and service trenches, external courtyard area and to the top of the concrete roof decks above the basement areas. The area was then protected with Newton 407 deckdrain system, before the finishes were completed and carried out by others.

Finally, to complete the waterproofing works, Newton 508 mesh cavity drain membrane was installed to the concrete walls of the vehicle ramp, prior to others installing a decorative rendered finish.







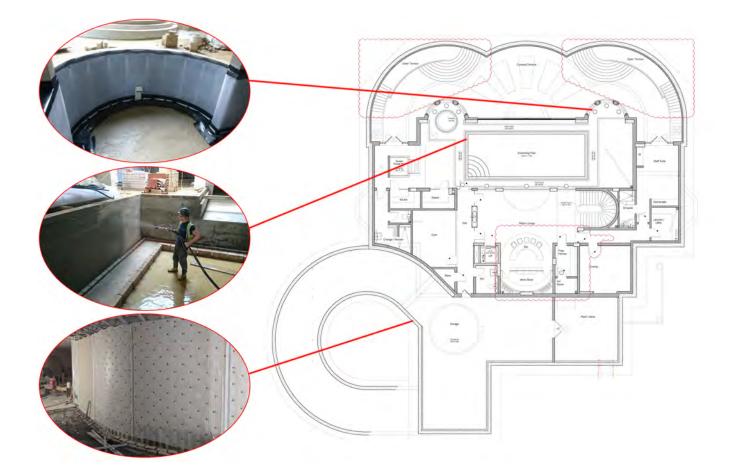
JN

C

Cast Contracting Ltd 01256 763100 info@ccl-ltd.net www.ccl-waterproofing.co.uk Lodge Farm Hook Road North Warnborough Hook Hampshire RG29 IHA

PEACE OF MIND GUARANTEED

THE SOLUTION



Design:Cast Contracting LtdMain Contractor:Charybdis Developments Ltd

CLIENT TESTIMONIAL:

"Grosvenor House was a complex domestic build located on a site that was very wet. The subterranean ground conditions were running sand and a potential ground water pressure of 5 tonnes per square metre expected to the RC basement structure. With this in mind we needed to have complete confidence in the company who would be providing the water proofing solutions, which we found in CCL. From their initial proposals all the way through to completion they were professional, helpful, thorough and cost effective. It is imperative as a luxury house building company that you have a water tight structure below ground. Due to the CCL solutions and implementation, there have been no such issues that have arisen since completion and that is invaluable."

Craig Riley, Contracts Manager, Charybdis Developments Ltd

PRODUCTS

- Newton 104 Crystalline coating
- Newton 508 / N508 mesh
- Newton Basedrain
- Kingspan H350R
- Newton 107F
- Newton 407 Deckdrain
- Newton Titan NP400 pumps
- Newton Victron Battery backup System
- Newton High Level Water Alarm

PEACE OF MIND GUARANTEED