



**JOHN NEWTON**  
& COMPANY LIMITED (EST. 1848)

Technical Enquiries  
enquiries@newton-membranes.co.uk

Sales - Head Office  
020 7237 1217  
info@newton-membranes.co.uk

John Newton & Company Ltd  
12 Verney Road, London SE16 3DH



## Case Study

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS (DEFRA)

### DEFRA HEAD OFFICE - WHITEHALL, LONDON

Basement Waterproofing Project – DEFRA Offices Whitehall - London. Multiple retaining new build waterproofing project inside existing façade using Newton Baseboard.

#### History

Newton were called in by the architects, TP Bennett, to help design a complicated waterproofing solution that could be applied to the new internal shell of DEFRA's offices. The existing shell remains and the waterproofing system was conceptualised at the design stage allowing ease of application. The building was retaining on five levels, the system installed needed to be able to move water through engineered concrete.

#### Methodology

As the system need to be able to drain through retaining slabs the solution was to incorporate the Newton Baseboard conduit. This innovative drainage medium allows for the drainage of water from the Newton 500 System to occur on Slab level negating the need to recess Basedrain at the wall/floor junction or similarly to sit the 50mm high drainage conduit on top of the slab and bring up internal floor levels to accommodate.

Prior to the membrane system being installed the engineers cast 22mm pipes at the wall floor junction in all retaining slabs. Newton Specialist Contractor Stonehouse Property Care then installed the membrane, laid a 100mm band of epoxy resin down at the wall floor junction, then installed the BaseBoard. The BaseBoard is mechanically fixed through MultiPlugs on a hanger system then the underside of the conduit is sealed to the slab with a specialist adhesive. This provides a cost effective way to move water through retaining levels. After the membrane had been installed, an independent drylining frame was used as a finish.

#### Result

The water management solution was able to cope with the difficult prospect of draining water through multiple retaining levels with a quality internal finish.

#### The Benefits

The baseboard is able to be fitted to existing structures which have previously suffered ingress at the wall floor junction without having to raise internal floor levels or excavate into a slab to drain water away.

All grades of waterproofing were achieved on this project. Our NSBC contractor was able to offer a quick and clean installation without the expensive and messy preparation works required with a conventional tanking system.

Contractor Stonehouse Property Care



Front view of DEFRA's head office - Whitehall, London.



Newton Baseboard applied to RC wall.



Newton System 500 professionally installed with minimal fixings. Baseboard medium is used to drain water down through the RC slab too the lower level for removal.