

STRUCTURAL WATERPROOFING CASE STUDY New Grandstand, Ascot Racecourse, Berkshire

NEW BUILD CONCRETE JOINT WATERPROOFING

Newton 503 Cavity Drain Membrane and Newton 902 Primer used as the waterproofing solution

Project Details

The new grandstand at Ascot Racecourse was designed and built out of precast concrete and as such had a significant amount of construction joints which needed to be waterproofed.

Although the precast sections did have a primary form of protection, the client need to ensure that no water leaked through the precast sections as underneath the grandstand a food hall court was being installed.

Newton Specialist Basement Contractor Advanced Basements were contacted by the architect to design and install a concrete joint waterproofing solution.

Methodology

Advanced Basements installed across the joints Newton 503 Cavity Drain membrane to form a catchment tray system to divert any water that could potentially permeate through the joints down to underneath the bottom of the seating of the grandstand, where it could discharge onto the over site element.

Newton 902 primer was applied to a 300mm band either side of the construction joints so as to create a chemical bond for the Newton Overtape to seal the edges of the membrane section.

The 503 membrane was installed in a 400mm band across every construction joint, sealed to the primer with the Overtape then a mechanical strap was fixed through all elements to hold the products into position.

Result

- This water management solution was quick and easy to install and negated the need to inject resins or grouts into the joints which saved a significant amount of money.
- The membrane solution also required minimal surface preparation and as the cavity drain membrane was detailed across the joints there was no need to install membrane across the entire underside of the sloping soffits.
- The client gained the benefit of full design and installation guarantees by Advanced Basements

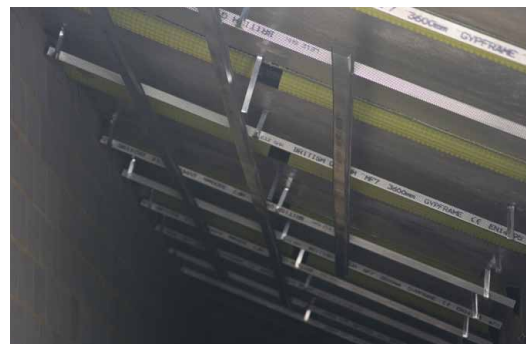
NSBC Contractor: Advanced Basements



The new precast concrete grandstand at Ascot Racecourse required waterproofing to the construction joints



Newton 503 and 902 applied to the underside of the grandstand construction joints



Any water ingress is removed via gravity to a lower level then a new suspended ceiling can be installed