



Key Facts

Project:

£60 million Hilton Hotel Development

Product:

AquaCell Prime
Osma UltraRib
OsmaDrain

Contractor:

McAleer and Rushe Group

Wavin Drainage Solutions find room at the Hilton

At a glance

Controlling surface water and the possibility of floodwater from torrential rain, on a challenging slope requires an extremely versatile solution. When The Hilton Group proposed the £60 million development of a 13-storey 5* Hotel, 8-storey Hampton by Hilton complex, 45 apartments and 3-storey underground car park in Bournemouth, the AquaCell Prime geocellular stormwater management unit from Wavin proved the ideal solution.



This was one of the biggest drainage schemes undertaken by McAleer and Rushe so it was paramount we had a seamless system such as Wavin that was available off the shelf. One brand, one product was perfect for us and ensured a speedy installation and no integration issues.

- Mike Guiry, McAleer and Rushe Group



The BBA approved AquaCell system is available in a range of four units of differing strengths which include AquaCell Eco, Core, Prime and Plus which can be mixed and matched to create the optimum installation for a range of applications including landscaped or trafficked for either shallow or deep applications.

The challenge

The challenge of this project is not only in creating a system for flood-proofing; it's finding a system that can cope with excessive surface water run-off from the sloped environment, and can withstand the tolerances of continual car use and the weight of the construction.



Our approach

Wavin's AquaCell Prime (made from specially reformulated, recycled material) was specifically designed for use in areas subject to regular traffic loading such as car parks. More than 600 AquaCell Prime units were specified below a restaurant, terrace and entrance café area in order to create a 120m³ cellular attenuation tank for surface water.

For the challenging, sloping site, the units were installed at a depth of between 1.2m and 1.6m and then clipped together to create a stepped, two-tiered tank. A concrete slab was then installed above the attenuation tank ready for the completion of the café terrace. In addition, Wavin also provided the Osma UltraRib 225mm and 300mm structured wall pipe and OsmaDrain 160mm drain pipe to tackle the foul and surface water drainage.



The benefits

Beyond ensuring the effective management of excessive rainfall for the long term, all AquaCell units have the proven lateral and vertical loading performances and adaptability for a challenging load bearing site.

For more information on this case study or if you have any questions please get in touch

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