

Peninsula village mitigates stormwater flooding

Formerly Greenwich Reach, and positioned along the waterfront, the impressive array of 980 apartments of New Capital Quay are surrounded by walkways, wide boulevards, public squares, feature landscapes, winter gardens – and a brand new Waitrose. Easy to see then, why it's claimed as London's most exciting new waterside village in years.



Making space for water



Surface water management



Biodiversity



Placemaking

CASE STUDY

Project

Greenwich Reach

Client

Galliard Homes

Application

Stormwater run-off, storage and attenuation

Product

Permavoid 150

 **Polypipe**

Galliard Homes, delivered a system to help manage stormwater run-off during extreme weather events incorporating 38,446 Permavoid 150 units – providing 1,460m² of water storage.

The geocellular units were installed beneath the roadway on a podium deck, allowing for the creation of an underground car park – providing the space needed to store high volumes whilst making use of valuable space. And as the Water Authority now charges for the amount of surface water run-off discharged into the river, the podium deck plays an important role helping to reduce it.

When designing the system for New Capital Quay, and given its close proximity to the Thames and significant storage capacity, further consideration was applied given that tide behaviour could affect the performance of the system. Therefore, the site was partially Tidal Locked to ensure a full and effective storage and attenuation process to mitigate the risk of flooding and tidal breach.

New Capital Quay is living proof that making space for water and designing projects to include Green Infrastructure make for more pleasant environments, that encourage natural wildlife, provide a cleaner, healthier place to relax and enjoy – whilst helping our urban environments to become more resilient to climate change and urbanisation.

