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Ref CS46/01

Middlewood Locks

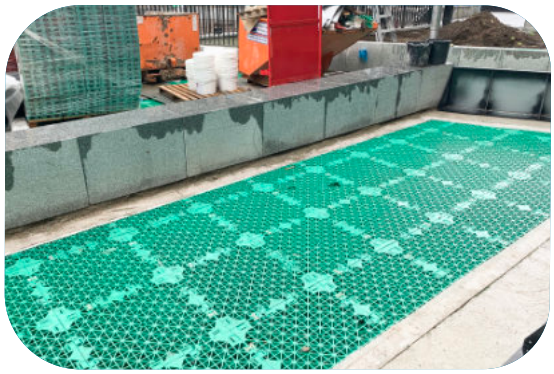
Attenuation System

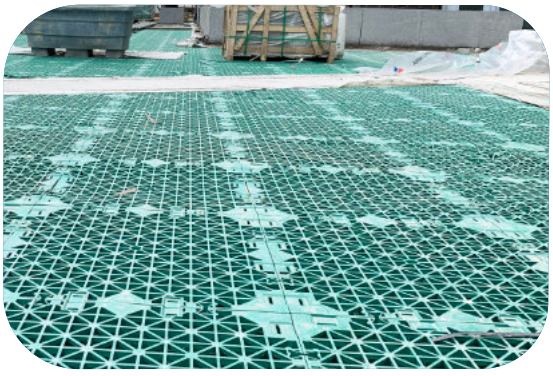
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Sustainable Waterside Regeneration

Middlewood Locks is a 25-acre mixed-use regeneration scheme located between Salford and Manchester city centre, centred on the historic Manchester, Bolton and Bury Canal. The development delivers approximately 2,000 homes alongside retail and commercial spaces, creating a vibrant waterside community. PMP Surfacing installed a high-quality, resin-bound surfacing system across landscaped podium areas constructed above an underground car park.

Due to site layout the podium deck above the underground car park cannot tolerate uncontrolled water ingress so an innovative drainage solution incorporated a large attenuation system beneath the surface to store rainfall and release it slowly reducing flood risk and protecting the wider drainage network in constrained network. The finished surfacing forms part of a sustainable urban environment combining an attractive public space with effective water management.







Permavoid SuDS Attenuation System

To manage rainfall efficiently, an underground attenuation system was installed beneath the development. Acting as a hidden reservoir, it temporarily stores excess rainwater and releases it slowly at a controlled rate, helping to reduce flood risk and protect the local drainage network.

Built above an underground car park, the scheme also incorporates a Permavoid system beneath the landscaped areas. This innovative structure stores water for surrounding trees and plants while allowing air to circulate around roots, promoting healthier growth and creating a more sustainable landscape.



Attenuation System Benefits

Protects Podium Structure - prevents uncontrolled water ingress into the podium deck above the underground car park, safeguarding the structural integrity of the build-up.

Manages Rainwater - Stores rainwater in an underground attenuation system and releases it gradually, ensuring controlled discharge during heavy rainfall.

Reduces Flood Risk - slows the rate of water entering the wider drainage network, helping to prevent localised flooding.

Supports Drainage Infrastructure - eases pressure on existing drainage systems in a tightly constrained urban environment.

Enhances Public Experience - delivers an attractive, usable surface that contributes to the environment, combining functionality with visual appeal.





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