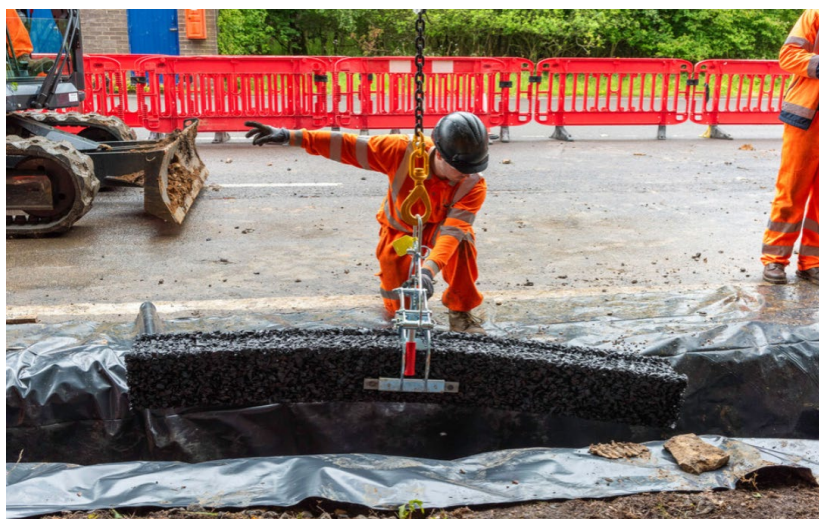


National Highways Test Centre: Independent Performance Validation



Validation Summary:

- Independently evaluated at the National Highways Test Centre
- Validation programme successfully completed demonstrated alignment with DMRB CD 529 & CD 530 requirements
- Hydraulic and structural performance validated
- Installation practicality confirmed
- Supports resilient highway drainage infrastructure
- Evidence generated to support future deployment opportunities

Project Overview

National Highways selected the National Highways Development Centre (NHDC) at Moreton-in-Marsh to evaluate the performance of Modular Drainage Systems within a dedicated highway drainage testing environment.

The validation programme was designed to assess the system's hydraulic performance, structural capability, installation practicality and suitability for highway drainage applications.

Delivered in collaboration with Civil Water Management Ltd, Rosehill Group and National Highways industry partners, the programme forms part of National Highways' commitment to identifying innovative solutions capable of improving drainage resilience, maintainability and whole-life asset performance across the Strategic Road Network.

National Highways Testing Requirements

National Highways established a structured validation programme to determine whether Modular Drainage Systems (MDS) could satisfy the performance requirements expected of modern highway

- Hydraulic Performance
- Structural Capability
- Long-Term Durability
- Installation Practicality
- Whole-Life Maintainability
- Infrastructure Resilience
- Compatibility with Highway Drainage Applications
- Alignment with DMRB CD 529 & CD 530 requirements

Testing Programme

The National Highways Test Centre validation project represents a critical milestone in establishing MDS credentials for strategic road network applications.

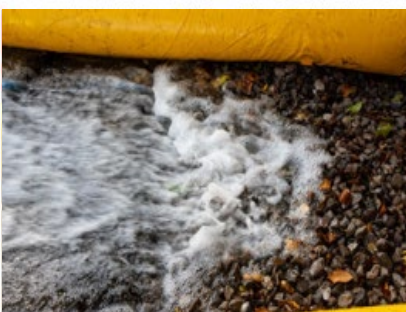
Testing was undertaken within a recognised National Highways environment, providing independently generated evidence supporting highway drainage applications.

This comprehensive testing programme provided independent verification of system performance under extreme conditions.

Through rigorous full-scale testing protocols, the project demonstrated the system's capacity to meet and exceed the demanding requirements of major highway infrastructure projects, validating both hydraulic performance and structural resilience.

Testing Assessed

- ✓ Hydraulic Performance
- ✓ Water Conveyance Capability
- ✓ Infiltration Performance
- ✓ Open-Void Capacity
- ✓ Installation Practicality
- ✓ Long-Term Durability
- ✓ Highway Drainage Suitability



Testing Protocol

- Full-scale test installation replicating real-world highway conditions
- Simulated extreme rainfall events exceeding design storm intensities
- Comprehensive flow measurement validating hydraulic performance claims
- Structural stress analysis under representative loading scenarios
- Extended monitoring period to assess performance consistency

Validation Outcomes



Why It Matters

The comprehensive testing programme undertaken at the National Highways Test Centre provides independent validation of the Modular Drainage System's performance capabilities.

The evaluation demonstrated that the system satisfied the performance criteria established for the validation programme, including alignment with the requirements of DMRB CD 529 and CD 530.

The successful outcome provides asset owners, designers and framework contractors with independently generated evidence supporting the application of Modular Drainage Systems within highway drainage infrastructure.

The programme demonstrates a commitment to delivering proven, reliable drainage solutions capable of supporting resilient and maintainable infrastructure assets.

Benefits for National Highways, Framework Contractors and Design Consultants

- Independent validation to support a high-performance drainage and water management system.
- Tested within the National Highways Test Centre to provide confidence in MDS performance.
- Improving the resilience and long-term functioning of critical drainage assets.
- Enables maintainability, inspection and long-term serviceability objectives to be met.
- Provides independently generated evidence for future highway and infrastructure applications.

“The comprehensive testing programme at the National Highways Test Centre provides independent validation of the Modular Drainage System's exceptional performance capabilities. This approval opens opportunities across the strategic road network, demonstrating our commitment to delivering proven, reliable drainage solutions for critical infrastructure.

National Highways Validation
Independent Performance Testing Programme

Contact us:

Work with our specialist drainage team to solve your water management challenges in demanding infrastructure environments.

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