Case Study
Queen Elizabeth Hospital, Windy Nook Car Park
D-Rainclean B125 Channel

Location:
Queen Elizabeth Hospital
Queen Elizabeth Avenue
Gateshead
NE9 6SX

Client:
NHS Gateshead

Contractor:
MGL Group

Consultant:
Cundall Johnston & Partners, Gateshead

Stormwater Management
Fleming Road
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The original design of the car park drainage did not comply with the tighter planning requirements for the stormwater treatment as required by Gateshead Council, this delayed the completion of the car park until a system demonstrating its compliance to C753 The SuDS Manual could be found.

In conjunction with Cundall Johnston and Partners Civil Engineers, Stormwater Management undertook treatment and hydraulic calculations. Independent testing was also supplied to Gateshead Council to demonstrate that the D-Rainclean system complied with the requirements. The system comprised of 59 linear metres of B125 D-Rainclean channel, containing Re-Medi8 filter media. This was installed in 4 separate areas of the car park to remove total suspended solids (TSS), dissolved heavy metals and hydrocarbons from the runoff to the 0.8+ Mitigation Indices. Our D-Rainclean system met the requirements of C753 The SuDS Manual Mitigation Indices, this was backed up by 3rd party independent testing and a variety of field tests verifying real life performance.