

Case Study

Porous car parking



Project: Spark One, Bristol
Client: Quantum Property Partnership
Product: TERRAM™ BODPAVE™ 85

PROJECT RATIONALE

Quantum Property Partnership required a high environmental standard of build for new development, Spark One—a hub for science and technology businesses in the Bristol and Bath region.

The build also had to meet the criteria set by BRE's Environmental Assessment Method (BREEAM).

The environmental criteria included the requirement for a SuDS (Sustainable Urban Drainage System) car park for 200 vehicles. The porous surface would allow rainwater to infiltrate into a attenuated drainage system.

TERRAM SOLUTION

BODPAVE 85, was specified to provide the SuDS source control car park. BODPAVE 85 porous pavers were laid onto a free-draining base, and filled with an angular gravel or grass finish. They are made from recycled plastic and can support loads of up to 400t/m² (when gravel filled).

The design of BODPAVE 85 pavers allows them to positively interlock with each other, making installation simple and providing resistance against shear and lateral movement.



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CONCLUSION

It was anticipated that the car park would be used regularly by vehicles and so a gravel fill was chosen. The construction for the car park at Spark One comprised of:

- TERRAM BODPAVE 85 filled with a 6-10mm angular stone
- 50mm deep bedding layer of 6-10mm angular stone
- TERRAM T1000 geotextile to provide permeable separation
- 350mm deep sub-base of 4-40 clean angular stone

An impermeable membrane was used to prevent water draining into the surrounding soil and exit drainage management was installed to allow water to be released at a controlled flow rate.

TERRAM BODPAVE 85 Markers were used to mark the individual parking bays in the car park.



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