

Sports Pitch Drainage

Pozidrain SKL, Green Lane Playing Fields, Devizes, UK



CASE STUDY

Project Description

Devizes Town Council and Wiltshire Football Association decided that a new sports hub was required to provide more opportunities and benefits for players and local people all year round. They agreed a deal for the Green Lane Playing Fields to become a state of the art football centre for the whole of the Wiltshire county.

The Green Lane project included a 3G artificial pitch that will provide a home to Bishops Cannings Youth FC and Devizes Town Youth FC.

McArdle Sport were approached to design and install a new football pitch for this fast growing club.

The Challenge

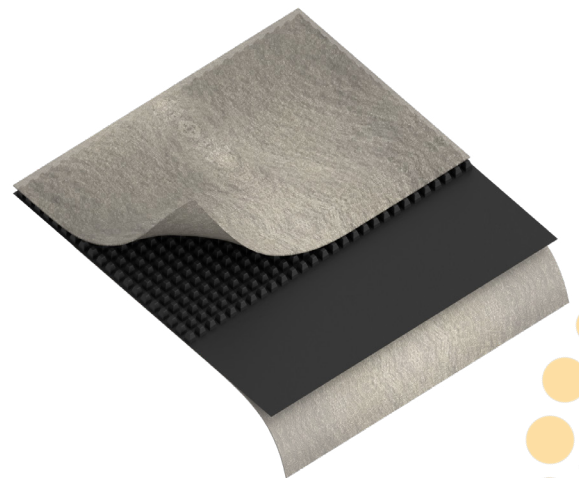
The new artificial grass football pitch was required to meet the county's increasing demands and busy programme.

The requirement was to design a 3G football pitch that would meet all current standards and enable fast installation on a sandy sub-formation. The challenge was to produce a cost effective design solution that provides a capping barrier, adequate drainage, sufficient water retention capacity and minimises the thickness of the stone material.

A high performance, multi-functional geosynthetic material was required to meet the design criteria and replace a traditional system with perforated drainage pipes.

Project Information

Client	Devizes Town Council
Contractor	McArdle Sport Tec
Product	Pozidrain 7SK250D/NW8 [L,H80]
Quantity	8,200m ²
Benefits	<ul style="list-style-type: none">• High flow capacity in both directions• Impermeable back for capping• Good puncture resistance• Large rolls for fast installation



ABG Pozidrain SKL
Geocomposite specifically designed
for sport drainage installations

ABG LTD

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The Solution

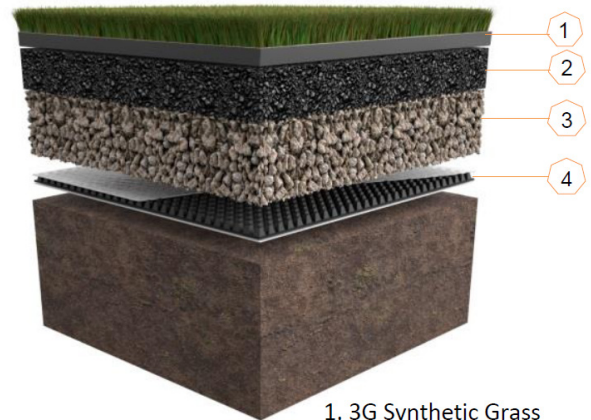
The designer specified ABG's geosynthetic solution that provided the required capping barrier and drainage capacity in one layer, to replace the need for perforated pipes and excavating trenches.

The unique Pozidrain 7SK250D/NW8 [L,H80] geocomposite drainage and capping system was installed, comprising an impermeable back HDPE cusped drainage core with extended flat selvedge for overlapping and sealing with Absel butyl tape.

A stone layer thickness of 225mm provided the required void for water retention with a permeable asphalt layer, shock pad and 3G synthetic grass carpet installed on top. This football pitch installation was completed on time and the drainage performance was reported to be good.

The ABG Service

ABG provided technical advice, design assistance and delivered material to site.



1. 3G Synthetic Grass
2. Asphalt 40mm
3. Stone 225mm
4. Pozidrain 7SK250D/NW8[L,H80]

3G Synthetic Grass Design Solution with Pozidrain capping & drainage geocomposite



Large Pozidrain geocomposite rolls enabled rapid installation and replaced perforated pipes



Pozidrain geocomposite flat selvedge overlapping and sealing with double sided Absel butyl tape

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