

Technical Report

Water permeability tests on
Brock Performance Base SR-2300
for
Brock USA & JSP International

Summary

A water permeability test has been carried out on a sample of Brock Performance Base SR-2300. This report describes the test carried out; details the result obtained and compares the result to typical specification requirements.

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1 Introduction

Water permeability tests have been carried out on a sample of Brock Performance Base. This report describes the test carried out; details the result obtained and compares the result to typical specification requirements.

The test was requested by Andrew Coles of JSP International SARL and Steve Sawyer of Brock USA.

2 Sample

The tests were carried out on a sample of Brock Performance Base SR-2300, which comprised a 23mm thick tile formed from bound plastic beads.

3 Method of test

Water permeability was assessed in accordance with European Standard EN 12616, Surfaces for Sports Areas – Determination of Water Infiltration Rate. This procedure is specified by FIFA and the International Rugby Board, amongst others

The test uses a double ring infiltrometer that is sealed to the test specimen. The outer ring is filled with water to act as a buffer to prevent the lateral flow of water, whilst the time a 30mm head of water takes to drop 20mm in the inner ring is measured.

Three measurements are made and the mean result calculated. This is corrected for the temperature of the water and the permeability rate calculated to give a result expressed in millimetres per hour.

4 Result & Discussion

The water permeability rate of Brock Performance Base SR-2300 was 20,930 mm/h.

The result exceeds that measured on many filled artificial grass surfaces meaning the combination of a free draining artificial grass and Brock Performance Base SR-2300 should easily satisfy international and national requirements for water permeability, which are normally either 100mm/h or 180mm/h.

Report prepared by:



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