

## TEST REPORT

### Laboratory tests on ShockWave

Report Number **LSUK.15-0441**

Client  
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Date(s) **01/06/2015**

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## SUMMARY

At the request of Notts Sport a series of performance tests have been carried out on a sample of ShockWave.

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## 1. INTRODUCTION

Samples of Shockwave were supplied for test by Notts Sport Ltd.

## 2. TEST METHODS

The following testing was undertaken:

- The thickness was determined in accordance with BS EN 1969: Determination of the Thickness of Synthetic Sports Surfaces.
- The tensile strength was determined in accordance with BS EN 12230: Determination of the Tensile Properties of Synthetic Sports Surfaces.
- The AAA shock absorption and vertical deformation was determined in accordance with Method 4a and 5a of the Handbook of Requirements for Football Turf.
- The mass per unit area was determined in accordance with BS EN 430: Resilient floor coverings – Determination of mass per unit area.
- The dimensional stability after hot water and hot air aging was determined in accordance with EN 13746 Surfaces for sports areas — Determination of dimensional changes due to the effect of varied water, frost and heat conditions.
- The permeability was determined in accordance with BS EN 12616: 2013 Surfaces for sports areas - Determination of water infiltration rate.

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### 3. RESULTS

Test	Method	Result
Thickness	BS EN 1969	55 mm
Tensile Strength	BS EN 12230	0.72 MPa
Shock Absorption (AAA)	FIFA Method 4a	69.8 1%
Vertical Deformation (AAA)	FIFA Method 5a	10.3 mm
Mass per unit area	BS EN 430	2319 g/m <sup>2</sup>
Dimensional stability	EN 13746	0.12 %
Permeability	BS EN 12616	3211 mm/h