



Planning

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## FIELD PERFORMANCE REPORT

In accordance with

**BS EN 15330-1:2013 – Hockey & Football [Short Pile]**

**Field Reference:** Galashiels Academy

**Field Address:** Elm Row  
Galashiels  
TD1 3HU

**Report Number:** 17092/2616

**Report Status:** FINAL

**Issue Date:** 12/05/2016

**Client:** Scottish Borders Council  
Council Headquarters  
Newtown St Boswells

### FOREWORD

1. This report has been prepared by Sports Labs limited with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Sports Labs Limited accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final."
4. \*Not all tests carried out are within our scope of ISO 17025 Accreditation.
5. Comments and opinions are outwith the scope of our ISO 17025 accreditation.



#### HEAD OFFICE

12b Nasmyth Court  
Houstoun Industrial Estate  
Livingston EH54 5EG  
Scotland

Tel: +44 (0)845 602 6354  
Fax: +44 (0)845 602 636  
Email: [info@sportslabs.co.uk](mailto:info@sportslabs.co.uk)

#### REGIONAL LOCATIONS

Johannesburg  
Ghent  
Ankara  
Boston  
Seattle

Registered in  
Scotland No. 186755



## 1.0 INTRODUCTION

- 1.1 Sports Labs were requested by Scottish Borders Council to carry out performance testing on the synthetic pitch at Galashiels Academy. Testing was carried out in accordance with BS EN 15330-1:2013 (Hockey & Football [Short Pile] Regulations for the parameters examined.
- 1.2 Testing was carried out on 11/05/2016 in sunny and dry conditions.
- 1.3 The pitch is constructed on a Dynamic base underlying an insitu shockpad. The synthetic layers comprise of: Short pile, polyethylene fibre carpet, infilled with rubber and sand.

<b>Substrate Type:</b>	<b>Dynamic</b>		<b>Infill Type:</b>	<b>Sand</b>
<b>Carpet Name:</b>	<b>Unknown</b>		<b>Shockpad:</b>	<b>Insitu</b>
<b>Air Temperature during testing (°C):</b>	<b>AM</b>	<b>PM</b>	<b>Weather Conditions:</b>	<b>Sunny, Dry</b>
	<b>14</b>	<b>N/A</b>		
<b>Surface Temperature during testing (°C):</b>	<b>AM</b>	<b>PM</b>	<b>Wind Speed during testing (m/s):</b>	<b>0.7</b>
	<b>13</b>	<b>N/A</b>		
<b>Humidity (%):</b>	<b>AM</b>	<b>PM</b>	<b>Operator:</b>	<b>NL</b>
	<b>60</b>	<b>N/A</b>		

**PREPARED  
BY**

**Keith Macpherson  
Field Testing Manager**

**CHECKED  
BY**

**Richard Nixon  
Director**



## 2.0 TEST PROGRAMME

- 2.1 Testing was carried out at 3 locations across the pitch, as show in Appendix A.
- 2.2 The suit of testing was carried out in accordance with the requirements of BS EN 15330-1:2013 (Hockey & Football [Short Pile]) for the parameters examined as follows:
  - 2.2.1 Rotational Resistance – EN 15301-1:2007
  - 2.2.2 Shock Absorption – EN 14808:2005
  - 2.2.3 Vertical Deformation – EN 14809:2005
  - 2.2.4 Porosity – EN 12616:2013
  - 2.2.5 \*Surface Regularity and Dimensions – EN 13036-7:2003

\*Not all tests carried out are within our scope of ISO 17025 Accreditation.



### 3.0 TEST RESULTS

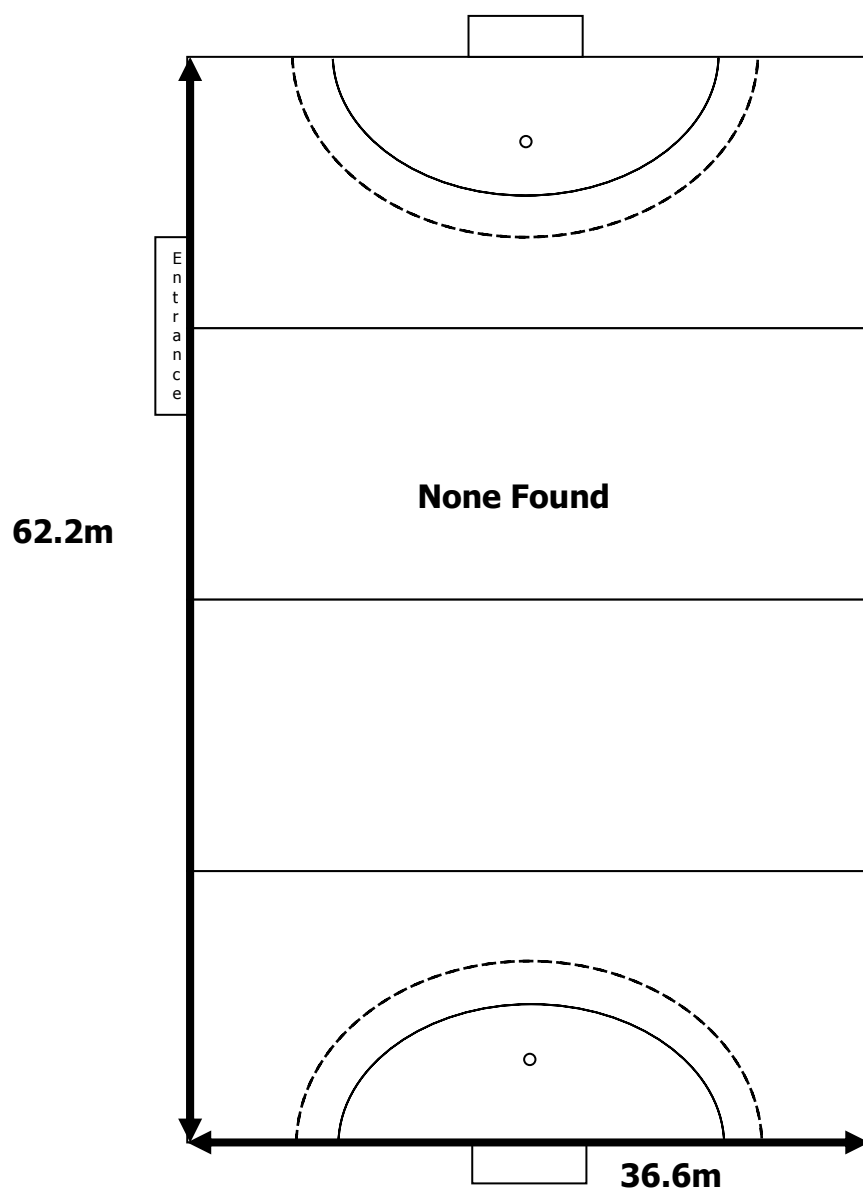
Test	Requirements	Location			Pass / Fail
		1	2	3	
Rotational Resistance	25Nm to 50Nm	20	15	19	Fail
Shock Absorption	40-70%	48	43	37	Fail
Vertical Deformation	3.0 – 10.0mm	6.0	5.5	4.4	Pass
Water Permeability	≥180mm/h	2554	2241	2517	Pass
Surface Regularity	No deviations >6mm	0			Pass



### 3.1 SURFACE REGULARITY AND DIMENSIONS

Plan showing surface irregularities exceeding maximum requirement of 6mm under a 3m straight edge.

In the surface measured there were 0 deviations found in excess of this requirement, as shown in the diagram below.





#### **4.0 DISCUSSION/COMMENTS/ VISUAL ASSESSMENT**

- 4.1 The results obtained from the testing exercise showed the surface did not comply with the specification limits as set out in BS EN 15330-1:2013 (Hockey & Football [Short Pile]) for the parameters examined. Specifically the surface failed to meet the requirements of Rotational Resistance and Shock Absorption.
- 4.2 This surface requires a proper maintenance regime. Maintenance of the surface is important to its continued performance and longevity.
- 4.3 Fencing: The Mesh fencing is in good condition.
- 4.4 Nets: - The tennis nets posts are in good condition however the nets appear to be too short for the distance between the posts. This has resulted in the nets being stretched across the span. There are some small tears however these can be easily repaired.

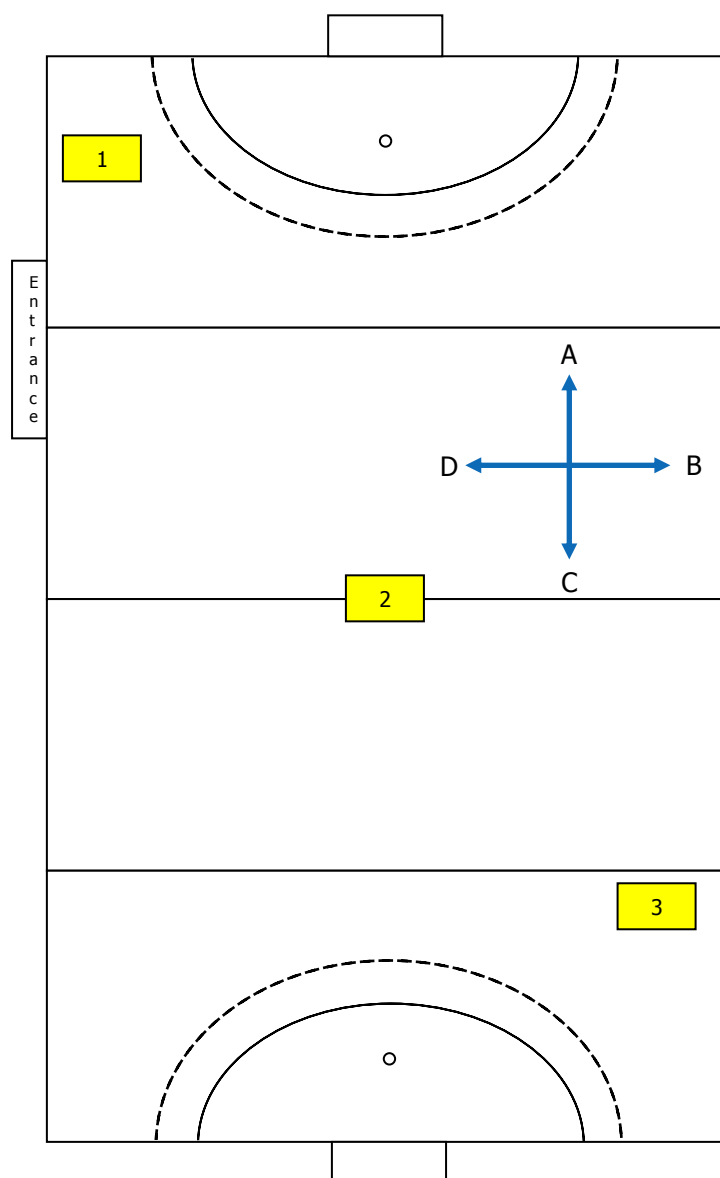


## **APPENDIX A**

### **TEST LOCATION PLAN**



### TEST LOCATIONS







## **APPENDIX B**

### **SITE PHOTOGRAPHS**



## SITE OVERVIEW



**HALFWAY 1**

**HALFWAY 2**



**END 1**

**END 2**



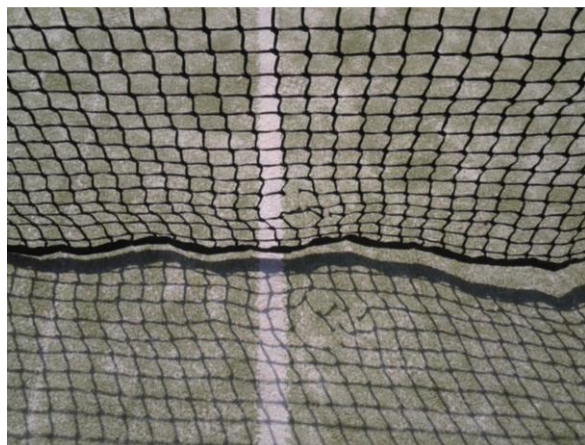
## VISUALS



**Net stretched and not meeting post**



**Net stretched and not meeting post**



**Slight damage to nets**



**Slight damage to nets**

**End of Report**

