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FIELD PERFORMANCE REPORT

In accordance with

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

Field Reference: Newcastleton Polysport

Field Address: Camperdown
Newcastleton
Roxburghshire
TD9 0TA

Report Number: 17092/2612s

Report Status: FINAL

Issue Date: 12/05/2016

Client: Scottish Borders Council
Council Headquarters
Newtown St Boswells
TD6 0SA

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.



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1.0 INTRODUCTION

- 1.1 Sports Labs were requested by Scottish Borders Council to carry out performance testing on the synthetic pitch at Newcastleton Polysport. 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 12/05/2016 in sunny and dry conditions.
- 1.3 The pitch is constructed on engineered base. The synthetic layers comprise of: Short pile, polyethylene fibre carpet, infilled with rubber and sand.

Substrate Type:	Engineered		Infill Type:	Sand
Carpet Name:	Unknown		Shockpad:	N/A
Air Temperature during testing (°C):	AM	PM	Weather Conditions:	Sunny, Dry
	19	N/A		
Surface Temperature during testing (°C):	AM	PM	Wind Speed during testing (m/s):	0.2
	16	N/A		
Humidity (%):	AM	PM	Operator:	NL/CW
	56	N/A		

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

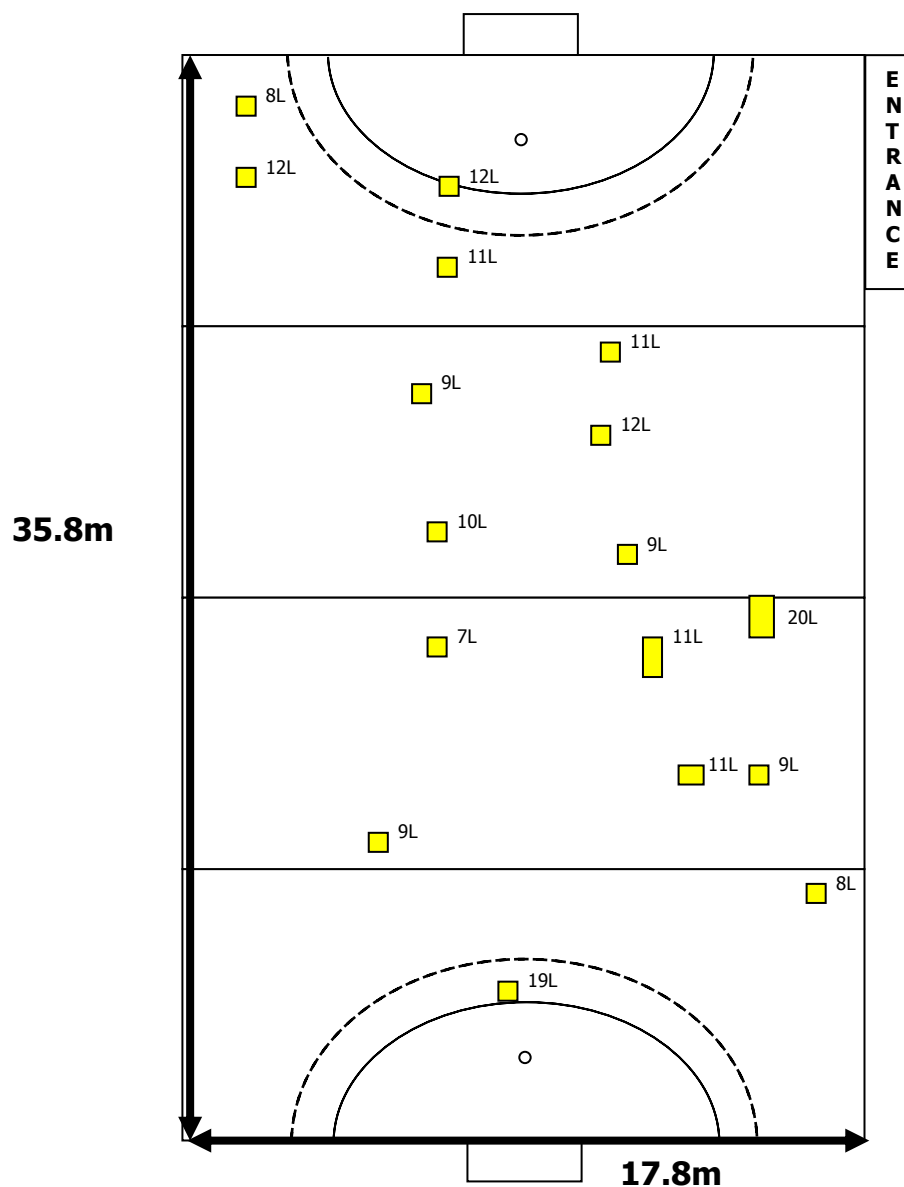
Test	Requirements	Location			Pass / Fail
		1	2	3	
Rotational Resistance	25Nm to 50Nm	27	25	28	Pass
Shock Absorption	40-70%	10.7	11.6	12.7	Fail
Vertical Deformation	3.0 – 10.0mm	1.3	1.3	1.4	Fail
Water Permeability	≥180mm/h	2366	2059	2116	Pass
Surface Regularity	No deviations >6mm	17			Fail



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 17 deviations found in excess of this requirement, as shown in the diagram below.





4.0 DISCUSSION/COMMENTS/VISUAL ASSESMENT

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 shock absorption, vertical deformation and surface regularity.

4.2 This surface requires a proper maintenance regime. Maintenance of the surface is important to its continued performance and longevity.

4.3 Fencing: - Lower Rebound boards: The Rebound boards are generally in good condition some boards are starting to loosen and should be checked and tightened accordingly. Boards have previously been painted and could be with repainting, however this is purely aesthetical.

Fencing: - Upper Weld Mesh: The weld Mesh fencing is in poor condition especially at the ends of the court around the goals. On several panels the welds have broken and have left wire fencing protruding. These have resulted in hand and finger traps and also wires exposed at eye level. These pose a significant risk to the end user.

4.4 Goals: - The basketball hoops were in poor condition one hoop is missing a net entirely the other net is damaged. Both back boards are showing signs of wear and have no markings present. The frames are in good condition on both ends of the court.

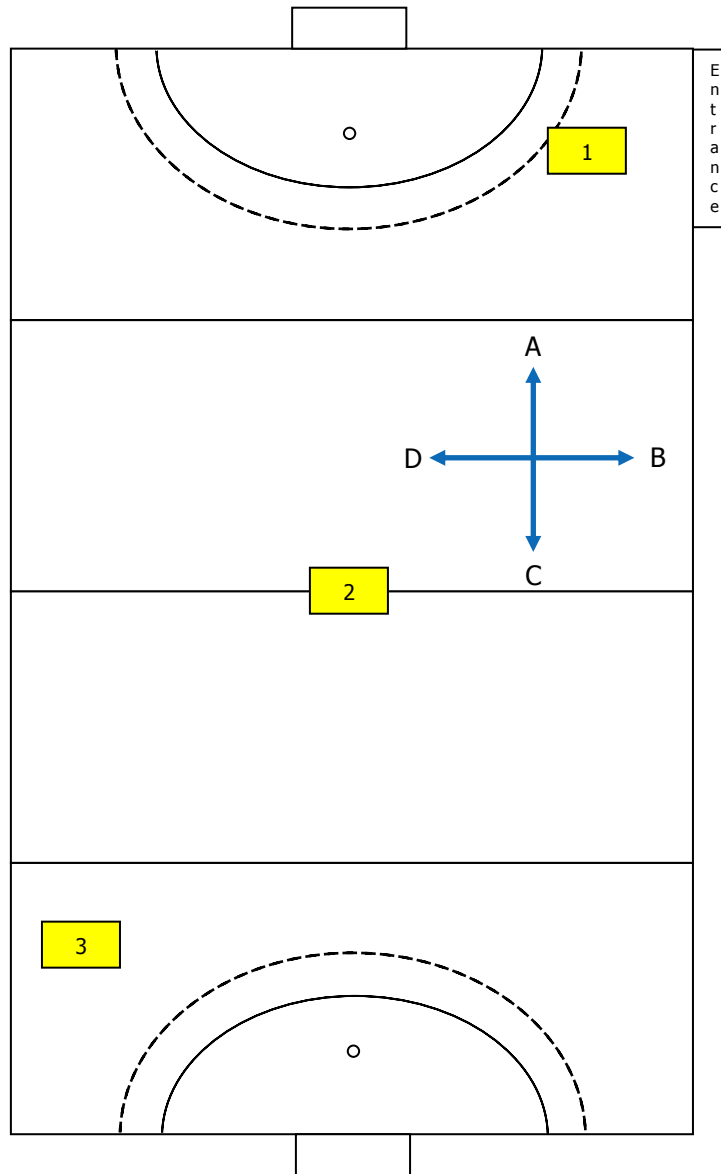


APPENDIX A

TEST LOCATION PLAN



TEST LOCATIONS





APPENDIX B

SITE PHOTOGRAPHS



SITE OVERVIEW

	
<p>OVERVIEW</p>	<p>HALFWAY 2</p>
	
<p>END 1</p>	<p>END 2</p>

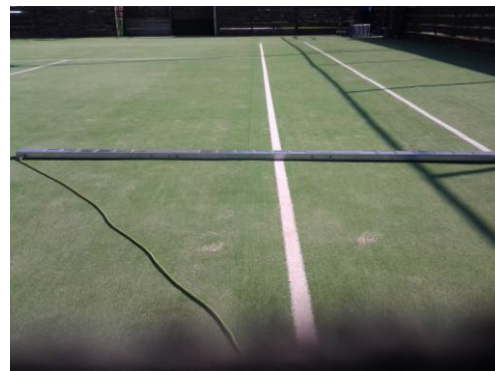
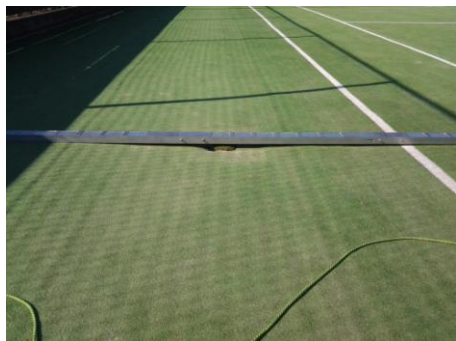


DEFECTS



DEVIATION

DEVIATION



DEVIATION

DEVIATION



VISUALS



Basketball hoops missing net



Rebound boards require paint



Finger/Hand trap on fence



Burst welds with wire protruding

End of Report

