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FIELD PERFORMANCE REPORT

In accordance with

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

Field Reference: Kelso High School

Field Address: Bowmont Street
Kelso
TD5 7EG

Report Number: 17092/2614s

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 Kelso High School. 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 10th May 2016 in sunny and dry conditions.
- 1.3 The pitch is constructed on unknown 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:	Unknown
Air Temperature during testing (°C):	AM	PM	Weather Conditions:	Sunny, Dry
	13	N/A		
Surface Temperature during testing (°C):	AM	PM	Wind Speed during testing (m/s):	0.4
	11	N/A		
Humidity (%):	AM	PM	Operator:	NL
	59	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]) as follows for the parameters examined:
 - 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

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Kelso High School

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3.0 TEST RESULTS

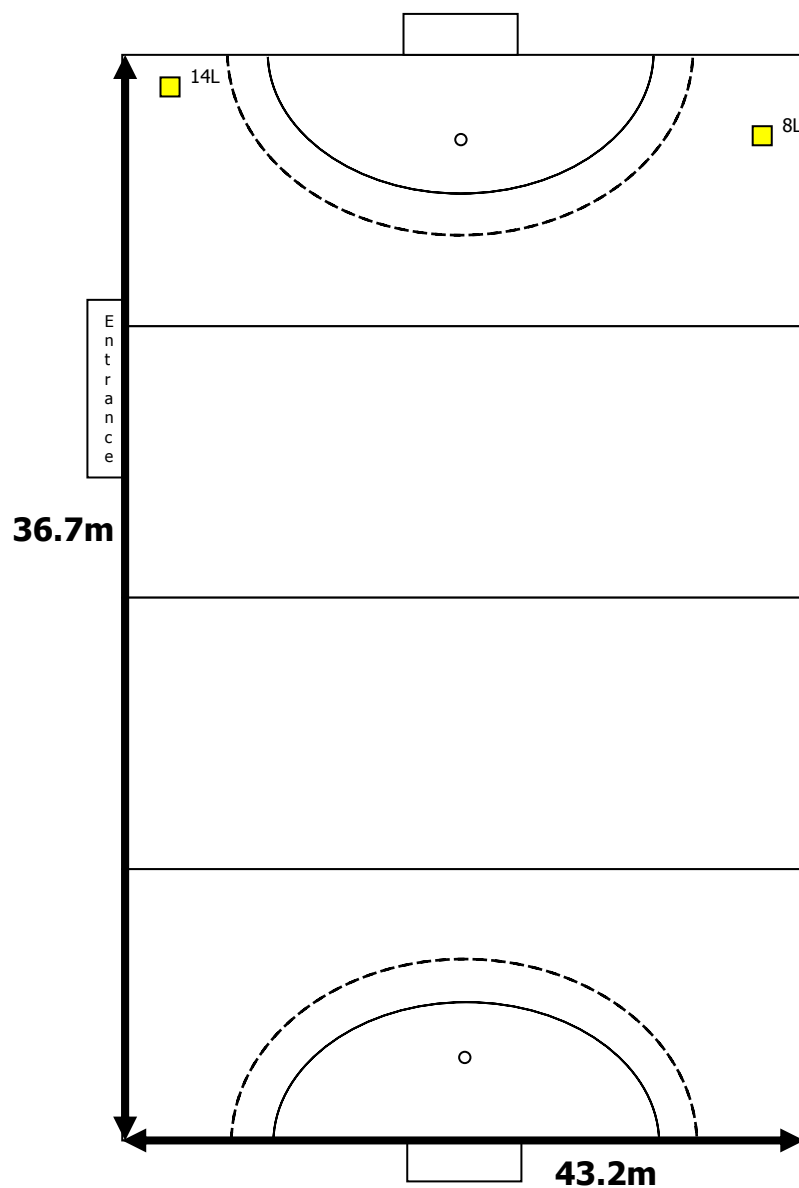
Test	Requirements	Location			Pass / Fail
		1	2	3	
Rotational Resistance	25Nm to 50Nm	22	23	22	Fail
Shock Absorption	40-70%	32	35	35	Fail
Vertical Deformation	3.0 – 10.0mm	3.4	3.8	3.7	Pass
Water Permeability	≥180mm/h	1819	1686	2396	Pass
Surface Regularity	No deviations >6mm	2			Fail



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 2 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, shock absorption 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 mesh fencing: Generally in good condition, either side of the hockey nets the fencing at ground level is showing considerable wear, due to the fact there are no rebound boards. The welds have broken but no wire is protrude as yet, this should be monitored closely.

Fencing: - Upper Weld Mesh: The Weld Mess fencing is in generally in good condition. As with the lower mesh fencing areas around the goals are showing signs of damage from ball strikes. The welds have broken and in some cases this has resulted in wires protruding at eye level, these should be rectified.

4.4 Goals: - The Hockey goals were in generally good condition. The nets have small areas of damage but are generally in good condition in the main they are in tacked and the frames are in good condition. Some paint is starting to flack and should be sanded and repainted to protect the frames from the elements.

Goals: - The Football goal frames were in generally good condition. The goals should be inspected and tested in accordance with the BS EN 748 and BS EN 8462 if this has not been undertaken in the past two years. This will ensure that the goals conform to the minimum safety standards for goals.

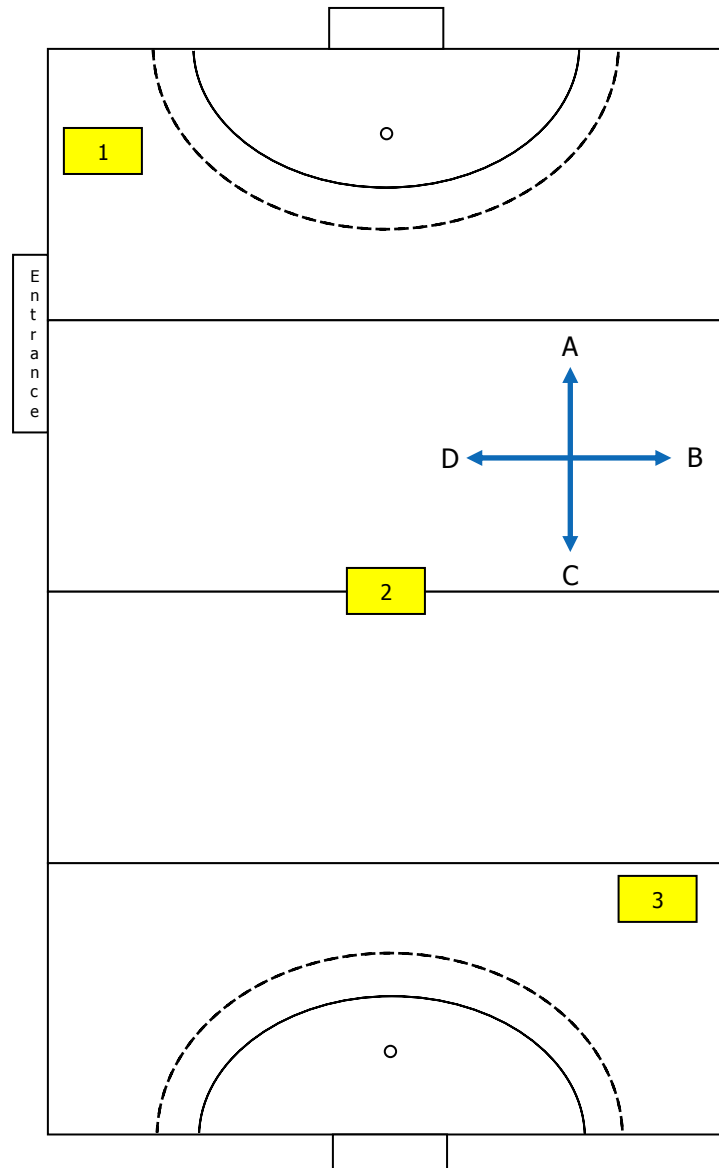


APPENDIX A

TEST LOCATION PLAN



TEST LOCATIONS





APPENDIX B

SITE PHOTOGRAPHS



SITE OVERVIEW



OVERVIEW

HALFWAY 2



END 1

END 2



DEFECTS

	
DEVIATIONS	DEVIATIONS
	
DEVIATIONS	DEVIATIONS



VISUALS



Broken weld mesh fencing



Damaged Weld Mesh fencing



Slight damage to Hockey nets



Damaged mesh fencing close to goals

End of Report

