FIELD PERFORMANCE REPORT

In accordance with

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

Field Reference:	**Jedburgh Grammar School**
Field Address:	**High Street Jedburgh TD8 6DQ**
Report Number:	**17092/2663s**
Report Status:	**FINAL**
Issue Date:	**16/05/2016**
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 Jedburgh 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 16/05/2016 in sunny and dry conditions.

1.3 The pitch is constructed on an 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**
	14	**N/A**		
Surface Temperature during testing (°C):	**AM**	**PM**	**Wind Speed during testing (m/s):**	**0.4**
	12	**N/A**		
Humidity (%):	**AM**	**PM**	**Operator:**	**NL**
	53	**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

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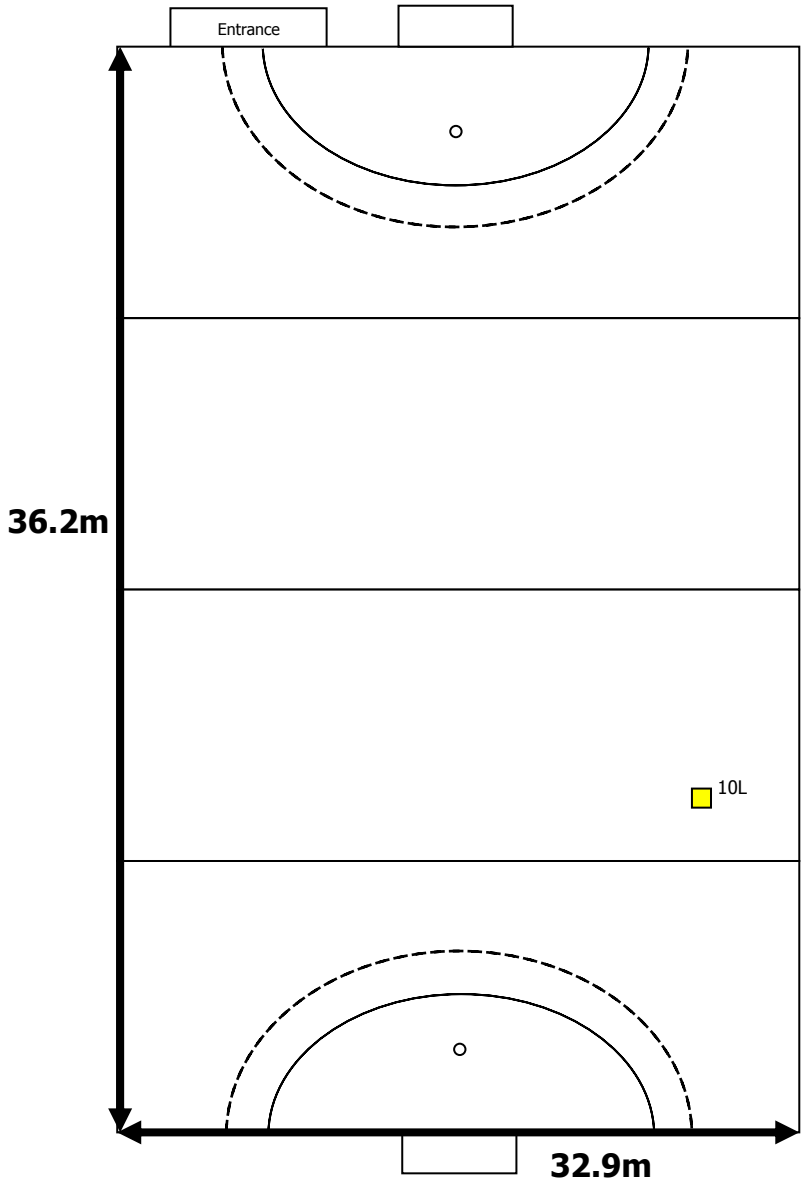
3.0 TEST RESULTS

Test	Requirements	Location			Pass / Fail
		1	2	3	
Rotational Resistance	25Nm to 50Nm	20	21	25	**Fail**
Shock Absorption	40-70%	10.1	11.6	12.7	**Fail**
Vertical Deformation	3.0 – 10.0mm	1.3	1.4	1.5	**Fail**
Water Permeability	≥180mm/h	2554	2802	2824	**Pass**
Surface Regularity	No deviations >6mm	1			**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 1 deviation found in excess of this requirement, as shown in the diagram below.



4.0 DISCUSSION/COMMENTS / VISUAL ASSESSTMENT

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, rotational resistance 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 in poor condition. Several boards have split and are broken, these require to be replaced. Some boards are starting to loosen and should be checked and tightened accordingly.

Fencing: - Lower Weld Mesh: The weld Mess fencing is in poor condition. 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.

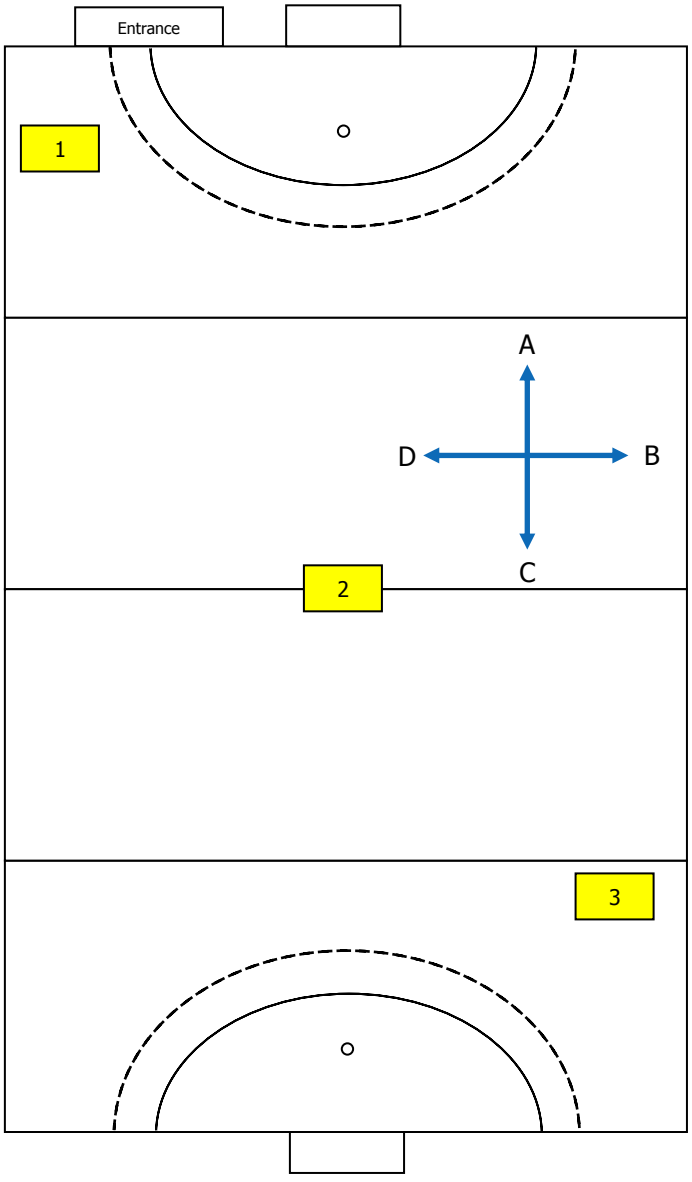
- Upper Mesh: The Upper mesh fencing is also in poor condition with many holes and burst panels. The join between upper and lower is poor and has separated in several areas.

4.4 Goals: - The two football goals are both in poor condition and do not appear to be sufficiently anchored. The frames are causing damaging the turf due to missing stops on the bases of the posts. The nets are also in a state of disrepair. 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 with the minimum safety standards for goals.

APPENDIX A

TEST LOCATION PLAN

TEST LOCATIONS



APPENDIX B

SITE PHOTOGRAPHS

SITE OVERVIEW

HALFWAY 1

HALFWAY 2

END 1

END 2

DEFECTS

	
LOW DEVIATION	**FENCE DAMAGE TO UPPER MESH**
	
FENCE DAMAGE TO LOWER MESH	**NET DAMAGE AND ANCHORING SYSTEM**

End of Report