FIELD PERFORMANCE REPORT

In accordance with

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

Field Reference:	**St Ronans Primary School**
Field Address:	**Innerleithen EH44 6PB**
Report Number:	**17092/2617s**
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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REGIONAL LOCATIONS

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Seattle

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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 St Ronans Primary 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 11/05/2016 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**
	N/A	**--**		
Surface Temperature during testing (°C):	**AM**	**PM**	**Wind Speed during testing (m/s):**	**0.5**
	N/A	**--**		
Humidity (%):	**AM**	**PM**	**Operator:**	**NL**
	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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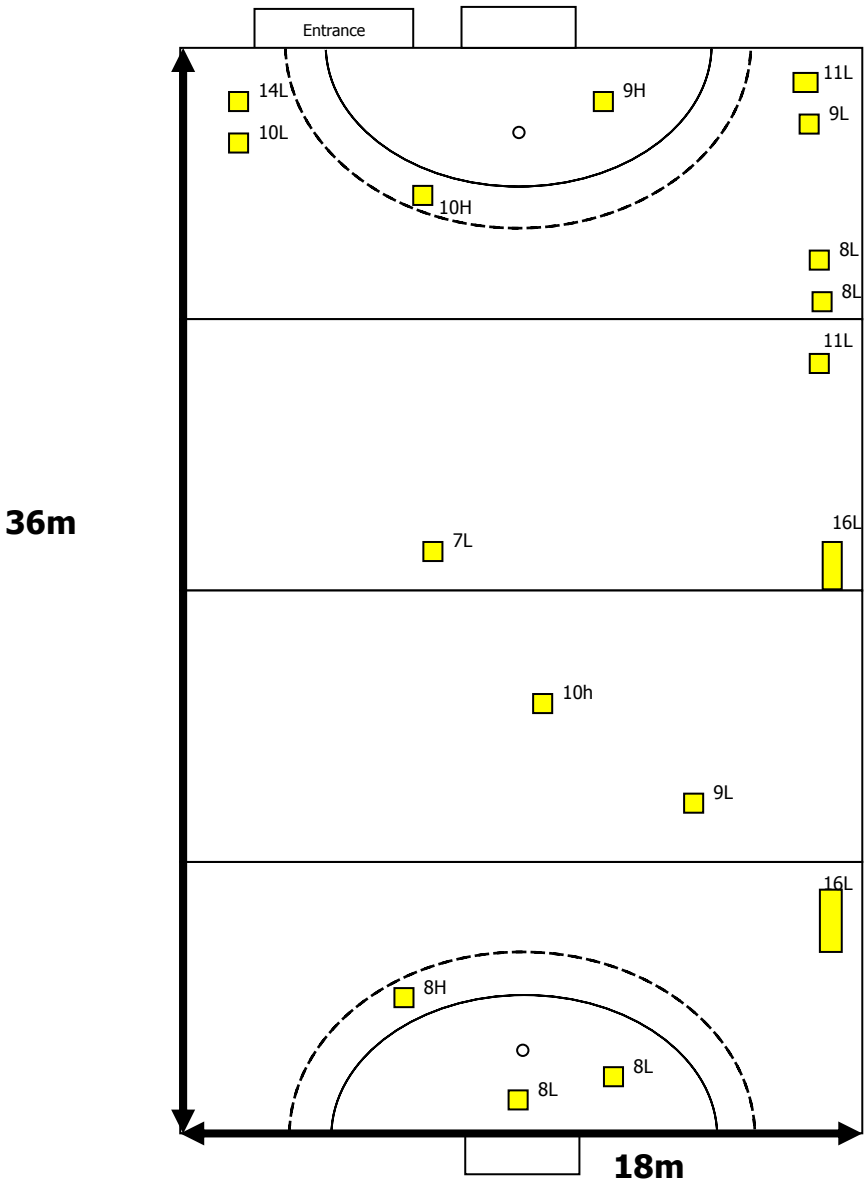
3.0 TEST RESULTS

Test	Requirements	Location			Pass / Fail
		1	2	3	
Rotational Resistance	25Nm to 50Nm	18	17	17	**Fail**
Shock Absorption	40-70%	14	13	14	**Fail**
Vertical Deformation	3.0 – 10.0mm	1.4	1.4	1.3	**Fail**
Water Permeability	≥180mm/h	1050	1178	1031	**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 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 the requirements for rotational resistance, 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.

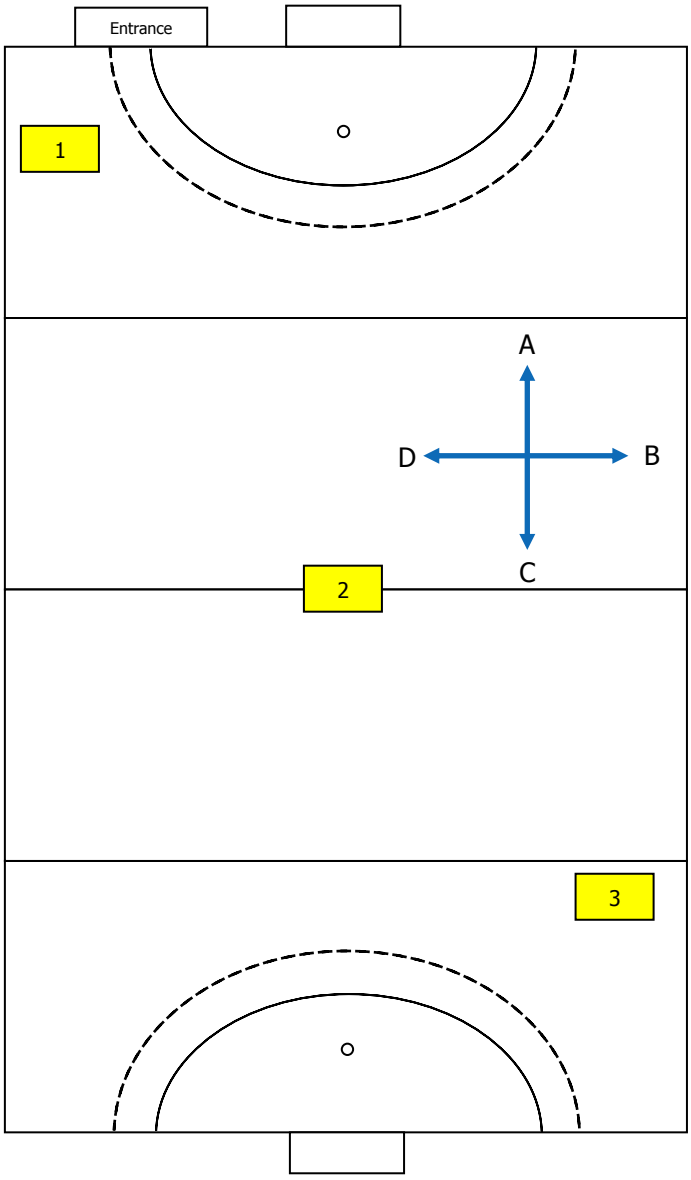
Fencing: - Upper Weld Mesh: The weld Mess fencing is in poor condition especially at the ends of the court around the goals. On several panels the welds have broken and have left wire fencing protruding. These have resulted in hand and finger traps and also wires exposed at eye level. These pose a significant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

4.4 Goals: - The Football goal frames and nets were in good condition. The goals were not anchored at the time of the visit or self weighted, this should be rectified to avoid the possibility of goals tipping over . 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

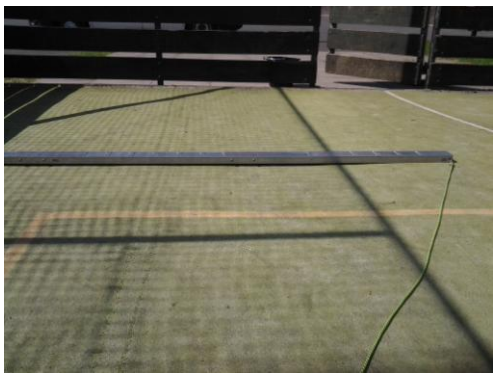
OVERVIEW

HALFWAY 2

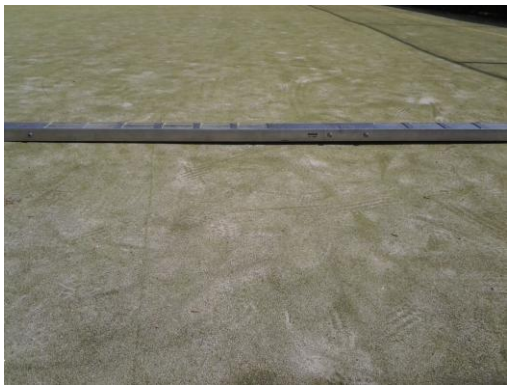
END 1

END 2

DEFECTS



DEVIATIONS



DEVIATIONS

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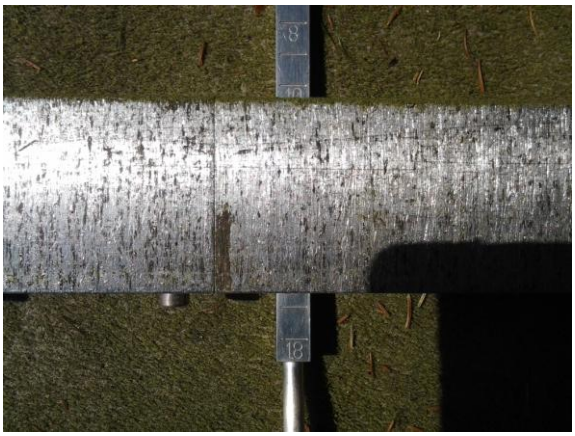

DEVAITIONS

VISUALS

	
Goals not anchored	Goals not anchored
	
Damage to Mesh fencing	Damage to Mesh fencing

End of Report