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LABORATORY PERFORMANCE REPORT

In accordance with

BS EN 1177:2008 – Determination of Critical Fall Height*

Sample Reference **PlaySafe Rubber Chippings**

Report Number **17571/3631**

Report Status **Final**

Issue Date **22/09/2016**

Client **Adomast Manufacturing Ltd**
Barkston Road
Carlton Industrial Estate
Barnsley
S71 3HU
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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".



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1.0 INTRODUCTION

We refer to the sample 'PlaySafe Rubber Chippings' delivered to our Laboratory. The client requested testing to be carried out in accordance with the requirements of BS EN 1177:2008 - Determination of Critical Fall Height.

Prepared By Craig Melrose
Laboratory Supervisor
22/09/2016


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Checked By Sean Ramsay
Laboratory Director
22/09/2016


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TEST DETAILS	
System Name	PlaySafe Rubber Chippings
Test Condition	As delivered
Surface Temperature (°C)	24.8 °C
Air Temperature (°C)	22.7 °C
Relative Humidity (%)	58 %
Fixing Method	Self Weighted
Substrate	Concrete
Shockpad type	n/a
Total Depth (cm)	5 cm
Infill Type	100% recycled rubber products
Infill moisture content at test (%)	0.2 %



2.0 TEST DETAILS

- 2.1 The test Specimen was prepared in accordance with the manufacturer's instructions.
- 2.2 The specimens were tested in the conditions and temperatures described in BS EN 1177: 2008 to the loose particulate method.

3.0 TESTING

- 3.1 Determination of Critical Fall Height – BS EN 1177: 2008

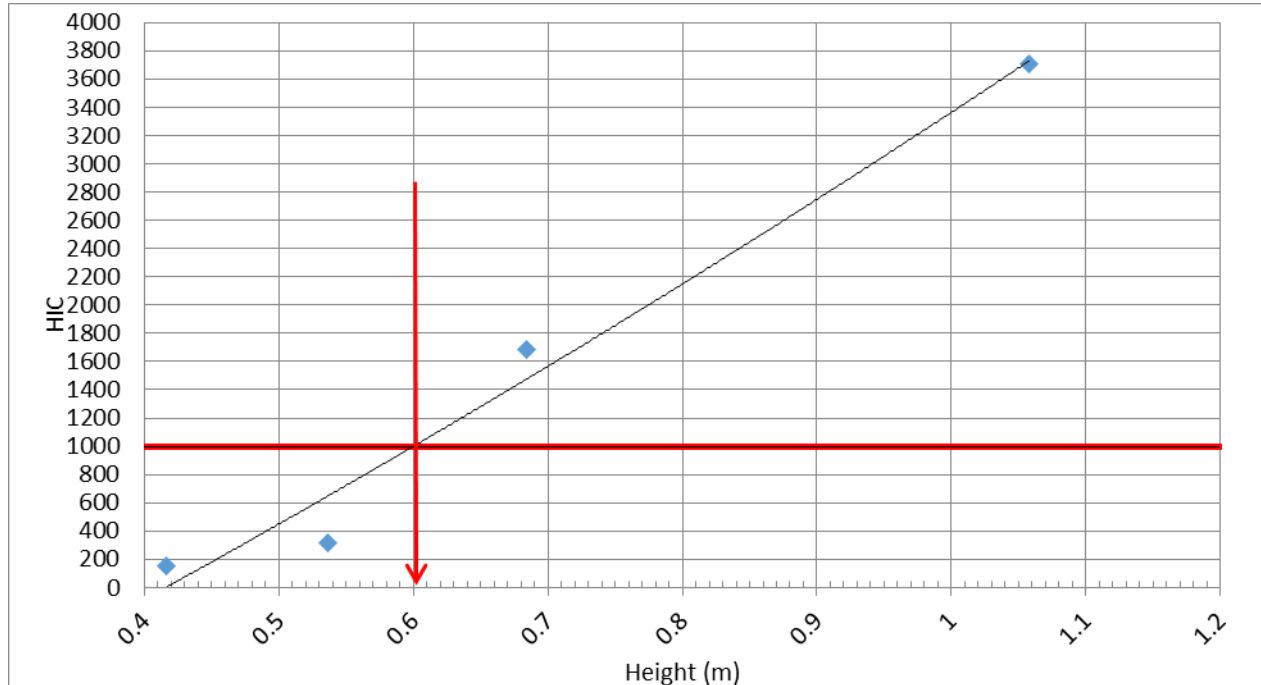
4.0 TEST RESULTS

- 4.1 Detailed test results are given overleaf in tabular and graphical format.



5.0 HIC (Critical Fall Height) Test Results

Test Results	Drop Test 1			Drop Test 2		
	Drop Height (m)	$T_2 - T_1$	HIC	Drop Height (m)	$T_2 - T_1$	HIC
	0.395	20	87	0.523	25	111
	0.411	25	89	0.532	21	274
	0.416	17	149	0.536	14	315
Test Results	Drop Test 3			Drop Test 4		
	Drop Height (m)	$T_2 - T_1$	HIC	Drop Height (m)	$T_2 - T_1$	HIC
	0.668	19	192	1.030	15	541
	0.684	17	561	1.046	16	593
	0.684	17	1681	1.058	7	3705

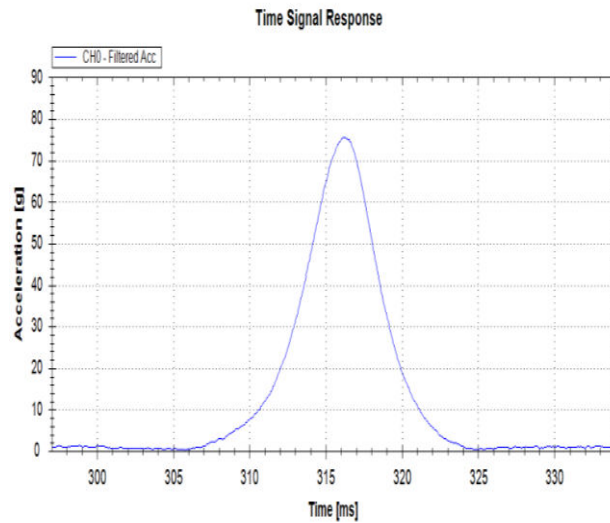


Calculated Critical Fall Height Value

0.6 m



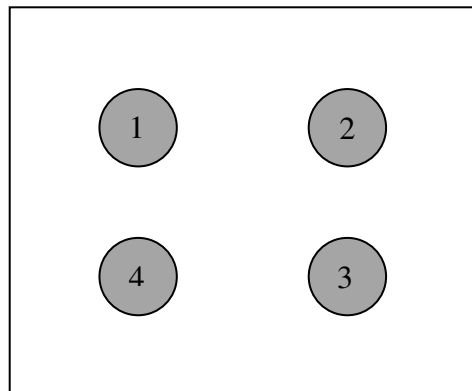
Time signal response graph.



Surface photograph



6.0 Test Locations



End of Report