

LABORATORY PERFORMANCE REPORT

In accordance with

BS EN 1177:2018 – Determination of Critical Fall Height

Sample Reference **PAG 45mm EPDM Rubber Pad**

Report Number **18985/1155**

Report Status **Final**

Issue Date **30/08/2018**

Client **PAG Flooring Systems Ltd**
Bahnhofstrasse 26
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FOREWORD

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1.0 INTRODUCTION

We refer to the sample of playground surfacing delivered to our Laboratory. The client requested testing to be carried out in accordance with the requirements of BS EN 1177:2018 - Determination of Critical Fall Height.

Prepared Craig Melrose
By Laboratory Co-ordinator

30/08/2018



Checked Sean Ramsay
By Laboratory Director

30/08/2018



TEST DETAILS	
System Name	PAG 45mm EPDM Rubber Pad
Test Condition	Dry
Surface Temperature (°C)	23.6 °C
Air Temperature (°C)	22.2 °C
Relative Humidity (%)	44 %
Fixing Method	Self Weighted
Substrate	Concrete
Shockpad type	EPDM Rubber Pad
Total Depth (mm)	45 mm
Infill Type	n/a
Infill moisture content at test (%)	n/a



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 prefabricated tile method.

3.0 TESTING

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

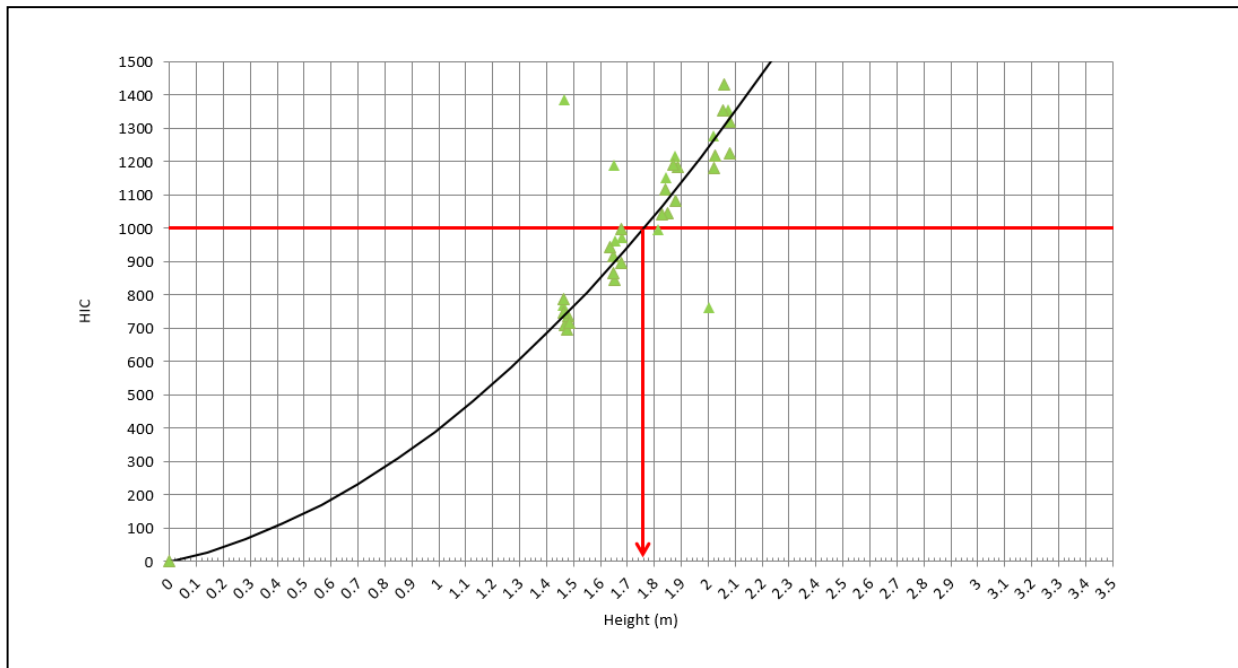
4.0 TEST RESULTS

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

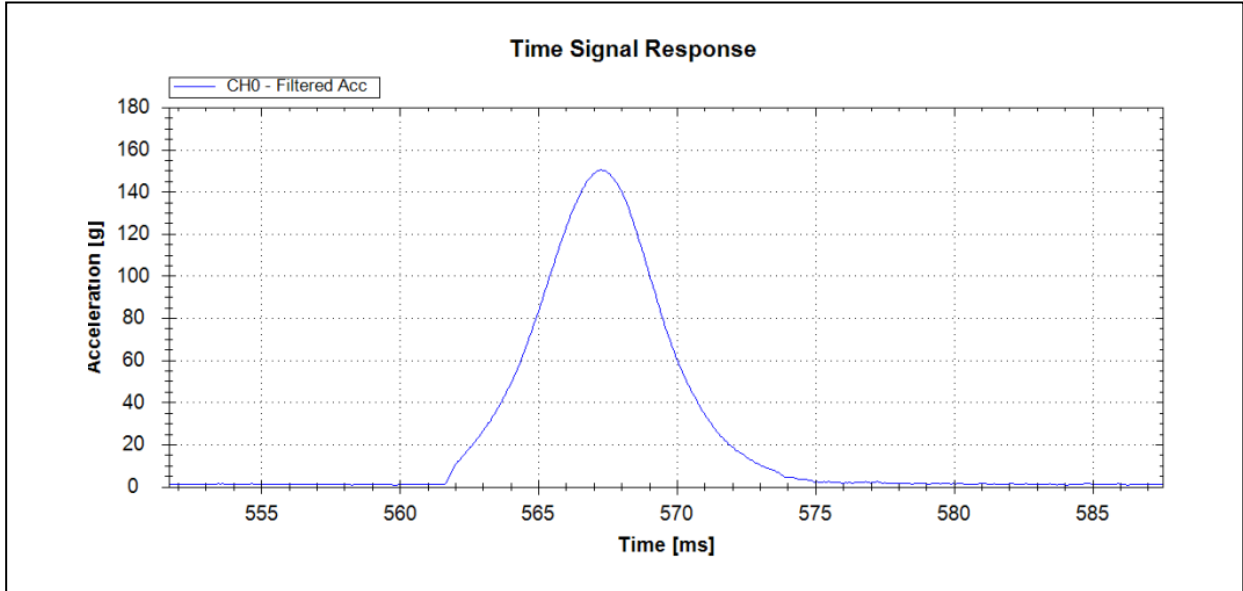


3.0 HIC (CRITICAL FALL HEIGHT) TEST RESULTS

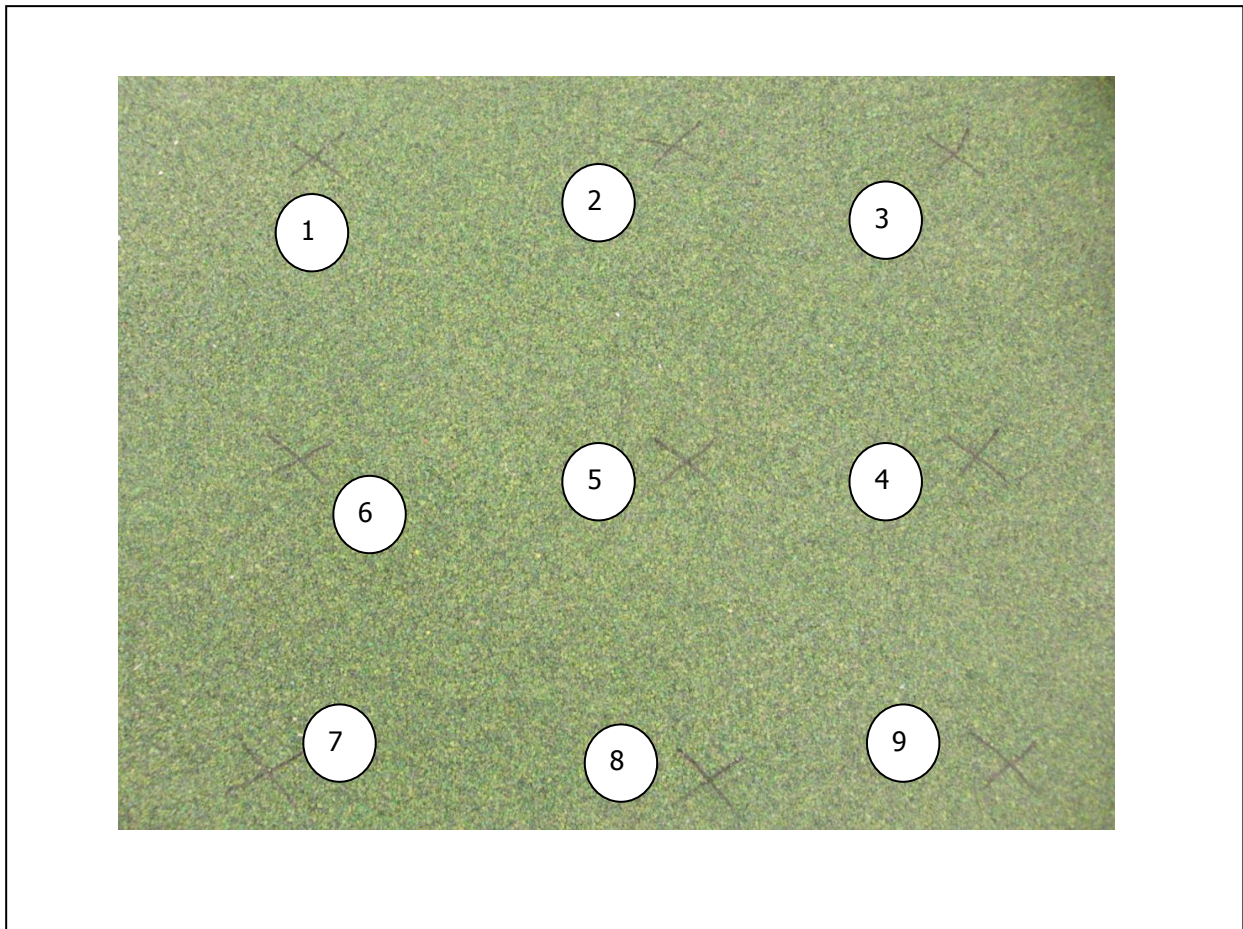
Test Results	Drop Test 1			Drop Test 2			Drop Test 3		
	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.021	12	1180	2.025	12	1217	2.078	13	1225
	1.877	15	1083	1.851	13	1046	1.827	13	1042
	1.676	16	896	1.652	13	844	1.647	16	865
	1.469	14	710	1.477	13	696	1.482	14	738
Test Results	Drop Test 4			Drop Test 5			Drop Test 6		
	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.056	13	1353	2.078	12	1321	2.058	12	1431
	1.842	13	1115	1.885	13	1183	1.869	12	1192
	1.647	13	916	1.676	13	998	1.635	13	942
	1.486	14	717	1.465	13	788	1.465	13	747
Test Results	Drop Test 7			Drop Test 8			Drop Test 9		
	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.075	12	1356	2.002	12	761	2.021	12	1275
	1.877	12	1218	1.812	12	997	1.844	12	1151
	1.653	13	961	1.651	12	1188	1.679	13	971
	1.46	13	786	1.464	15	1385	1.463	16	769



Calculated Critical Fall Height Value	1.7 m
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4.0 SURFACE PHOTOGRAPH/TEST LOCATIONS



5.0 LAYER PHOTOGRAPH



End of Report